



TETER
ARCHITECTS ENGINEERS CONNECTED

PROJECT MANUAL

CONTRACTUAL – LEGAL REQUIREMENTS
TECHNICAL SPECIFICATIONS

FOR

SELMA HIGH SCHOOL CAMPUS POOL MODERNIZATION

Project No.: 23-12828
Bid No. 2024-03

DSA File No.: 10-H16
DSA Appl. No.: 02-121911

APP: 02-121911 INC:

REVIEWED FOR

SS ☒ FLS ☒ ACS ☒

DATE: 05/06/2024

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SEALS PAGE

DSA
APPLICATION
NO.

02-121911



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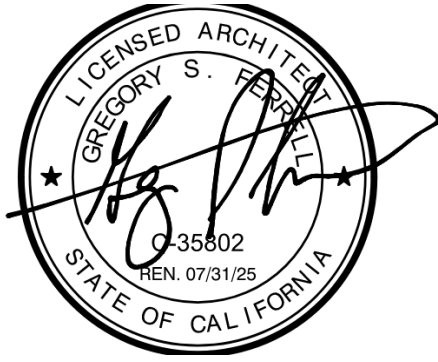


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2/5/24
Date Signed:



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FOR**

SELMA UNIFIED SCHOOL DISTRICT

FOR

**SELMA HIGH SCHOOL CAMPUS POOL MODERNIZATION
3125 Wright St., Selma, CA 93662**

Project No. 23-12828

Bid No. 2024-03

DSA File No.: 10-H16

DSA Appl. No. 02-121911

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NOTICE INVITING BIDS

SELMA UNIFIED SCHOOL DISTRICT

NOTICE IS HEREBY GIVEN that the Selma Unified School District, acting by and through its Governing Board, hereinafter referred to as "District", will receive prior to **2:00pm PST on the 11th day of July 2024** sealed bids for the award of a Contract for the **Bid No. 2024-03 - SELMA HIGH SCHOOL CAMPUS POOL MODERNIZATIONS**.

All bids shall be made and presented only on the forms presented by the District. Bids shall be received at the District Office, 3036 Thompson Avenue, Selma, CA where they will be opened and read publicly. Bids will not be accepted after 2:00 pm PST on the 11th day of July 2024. Any bids received after the time specified here in or after any extensions due to material changes shall be returned unopened. **NOTE:** Only one representative from each Bidder will be allowed to be present during the bid opening.

The bid documents are available electronically by contacting Teter LLP, 7535 N. Palm Avenue, Ste. 201, Fresno, California 93711, Phone: 559-437-0887. Attention Dustin Graef, dustin.graef@teterae.com or Sherrie Dufer sherrie.dufer@teterae.com.

Each bid must strictly conform with and be responsive to the Contract Documents as defined in the General Conditions.

Each bidder shall submit with its bid, on the form furnished with the Contract Documents, a list of the designated subcontractors on this Project as required by the Subletting and Subcontracting Fair Practices Act, California Public Contract Code section 4100 et seq.

Contractor's License Required: Class B. Subcontractors shall be licensed pursuant to California law for the trades necessary to perform the Work called for in the Contract Documents.

There will be a **Mandatory** Pre-Bid Conference on **Thursday, June 20th, 2024, at 10:00 a.m.** Bidders to meet at **Selma High School Administration Office located at Selma High School 3125 Wright St., Selma, CA.**

Job Walk will be limited to one person per potential bidder so groups can be limited to ten persons.

The prevailing wage rate law is mandatory for all work performed under this contract. Copies of local rates are available online at www.dir.ca.gov/DLSR.

This Project is a public works project as defined in Labor Code section 1720. Each contractor bidding on this Project and all subcontractors (of any tier) performing any portion of the Work must comply with the Labor Code sections 1725.5 and 1771.1 and must be properly and currently registered with DIR and qualified to perform public works pursuant to Labor Code section 1725.5 throughout the duration of the Project. No bidder may withdraw any bid for a period of ninety (90) calendar days after the date set for the opening of bids.

No bidder may withdraw any bid for a period of ninety (90) calendar days after the date set for the opening of bids.

Bids will not be accepted if a Contractor has not been prequalified where prequalification is required. Selma Unified School Districts Prequalification Documents are available by logging onto www.qualitybidders.com.

Bids will not be accepted if a Contractor has not been prequalified where prequalification is required. Selma Unified School Districts Prequalification Documents are available by logging onto www.qualitybidders.com. Prequalification documents must be submitted to Quality Bidders by Thursday, June 27, 2024.

Pre-Qualification

California Assembly Bill (AB) 1565 went into effect on January 1, 2014. AB 1565 requires ALL General Contractors and M/E/P Subcontractors be prequalified, if the project is valued at \$1 million or more and funded whole or in part with State Facility Bond funds, per:

Public Contract Code 20111.5 enables districts to require prime contractors to be prequalified prior to accepting bids.

Public Contract Code 20111.6 requires the district to do so for certain projects. This applies to prime contractors and MEP sub-contractors with the following licenses:

- General Contractors (A and B), Mechanical, Electrical, and Plumbing subcontractors (C-4, C-7, C-10, C-16, C-20, C-34, C-36, C-38, C-42, C-43, and C-46).
- The District must receive complete applications at least ten (10) business days prior to the scheduled bid opening on any advertised project in order for the candidate to qualify for a project in excess of \$1,000,000 and partially funded by the State. Pre-qualification approval will remain valid for one (1) calendar year from the date of notice of qualification except as noted in the pre-qualification documents.

Please contact Pat Hunt with any questions at pat.hunt@selmausd.org or (559) 356-0180.

Thank you for your interest in working with Selma Unified School District

Approved Contractors List: [Click Here](#)

CUPCAA Contractor List: [Click Here](#)

The District reserves the right to reject any or all bids or to waive any irregularities or informalities in any bids or in the bidding.

SELMA UNIFIED SCHOOL DISTRICT

1st Advertisement: June 12, 2024

2nd Advertisement: June 18, 2024

INSTRUCTIONS TO BIDDERS

1. **Preparation of Bid Form.** Proposals under these specifications shall be submitted on the blank forms furnished herewith at the time and place stated in the Notice Inviting Bids. All blanks in the bid form must be appropriately filled in, and all proposed prices must be stated clearly and legibly in both words and numerals. All bids must be signed by the bidder in permanent blue ink and submitted in sealed envelopes, bearing on the outside, the bidder's name, address, telephone number, and California Contractor's License number, and the name of the Project for which the bid is submitted. The District reserves the right to reject any bid if all of the above information is not furnished. It is each bidder's sole responsibility to ensure its bid is timely delivered and received at the location designated as specified above. Any bid received at the designated location after the scheduled closing time for receipt of bids shall be returned to the bidder unopened.

2. **Bid Security.** Each bid must be accompanied by one of the following forms of bidder's security: (1) cash; (2) a cashier's check made payable to the District; (3) a certified check made payable to the District; or (4) a bidder's bond executed by a California admitted surety as defined in Code of Civil Procedure section 995.120, made payable to the District, in the form set forth in the Contract Documents. Such bidder's security must be in an amount not less than ten percent (10%) of the maximum amount of such bidder's bid as a guarantee that the bidder will enter into the Contract, if the same is awarded to such bidder, and will provide the required Performance and Payment Bonds, insurance certificates and any other required documents. In the event that a bidder is awarded the Contract and such bidder fails to enter into said Contract or provide the surety bond or bonds within five (5) calendar days after award of the Contract to bidder, said security will be forfeited.

3. **Signature.** The bid form, all bonds, all designations of subcontractors, the Contractor's Certificate, the Agreement, and all Guarantees must be signed in permanent blue ink in the name of the bidder and must bear the signature in longhand of the person or persons duly authorized to sign the bid.

If bidder is a corporation, the legal name of the corporation shall first be set forth, together with two signatures: one from the President and one from the Secretary or Assistant Secretary. Alternatively, the signature of other authorized officers or agents may be affixed, if a certified copy of the resolution of the corporate board of directors authorizing them to do so is provided to the District. Such documents shall include the title of such signatories below the signature and shall bear the corporate seal.

If bidder is a partnership, the true name of the firm shall first be set forth, together with the names of all persons comprising the partnership or co-partnership. The bid must be signed by all partners comprising the partnership unless proof in the form of a certified copy of a statement of partnership acknowledging the signer to be a general partner is presented to the District, in which case the general partner may sign.

Bids submitted as joint ventures must so state and be signed by each joint venturer.

Bids submitted by individuals must be signed by the bidder unless an up to date power- of-attorney is on file in the District office, in which case, said person may sign for the individual.

The above rules also apply in the case of the use of a fictitious firm name. In addition, however, where a fictitious name is used, it must be so indicated in the signature.

4. Modifications. Changes in or additions to the bid form, recapitulations of the work bid upon, alternative proposals, or any other modification of the bid form which is not specifically called for in the Contract Documents may result in the District's rejection of the bid as not being responsive to the Notice Inviting Bids. **No oral or telephonic modification of any bid submitted will be considered.**

5. Erasures, Inconsistent or Illegible Bids. The bid submitted must not contain any erasures, interlineations, or other corrections unless each such correction creates no inconsistency and is suitably authenticated by affixing in the margin immediately opposite the correction the signature or signatures of the person or persons signing the bid. In the event of inconsistency between words and figures in the bid price, words shall control figures. In the event that the District determines that any bid is unintelligible, inconsistent, or ambiguous, the District may reject such bid as not being responsive to the Notice Inviting Bids.

6. Examination of Site and Contract Documents. Each bidder shall visit the site of the proposed work and become fully acquainted with the conditions relating to the construction and labor so that the facilities, difficulties, and restrictions attending the execution of the work under the Contract are fully understood. Bidders shall thoroughly examine and be familiar with the drawings and specifications and all others documents and requirements that are attached to and/or contained in the Project Manual or other documents issued to bidders. The failure or omission of any bidder to receive or examine any Contract Documents, form, instrument, addendum, or other document or to visit the site and become acquainted with conditions there existing shall not relieve any bidder from obligations with respect to the bid or to the contract. The submission of a bid shall be taken as prima facie evidence of compliance with this Section. Bidders shall not, at any time after submission of the bid, dispute, complain, or assert that there were any misunderstandings with regard to the nature or amount of work to be done.

7. Withdrawal of Bids. Any bid may be withdrawn, either personally or by written request, at any time prior to the scheduled closing time for receipt of bids. The bid security for bids withdrawn prior to the scheduled closing time for receipt of bids, in accordance with this paragraph, shall be returned upon demand therefor.

No bidder may withdraw any bid for a period of ninety (90) calendar days after the date set for the opening of bids.

8. Agreements, Insurance and Bonds. The Agreement form which the successful bidder, as Contractor, will be required to execute, and the forms and amounts of surety bonds and insurance endorsements which Contractor will be required to be furnished at the time of execution of the Agreement, are included in the bid documents and should be carefully examined by the bidder. The number of executed copies of the Agreement, the Performance Bond, and the Payment Bond required is three (3). Payment and Performance bonds must be executed by an admitted surety insurer as defined in Code of Civil Procedure 995.120.

9. Interpretation of Plans and Documents/Pre-Bid Clarification. If any prospective bidder is in doubt as to the true meaning of any part of the Contract Documents, or finds discrepancies in, or omissions, a written request for an interpretation or correction thereof may be submitted to the District. The bidder submitting the request shall be responsible for its prompt delivery. **Any interpretation or correction of the Contract Documents will only be made by Addendum duly issued, and a copy of such Addendum will be made available for each contractor receiving a set of the Contract Documents.** No person is authorized to make any oral interpretation of any provision in the Contract Documents, nor shall any oral interpretation be binding on the District. If discrepancies on drawings, specifications or elsewhere in the Contract Documents are not covered by addenda, bidder shall include in their bid methods of construction

and materials for the higher quality and complete assembly. Each request for clarification shall be submitted in writing, via email, to only the following persons:

TO: Jessica Villarreal
Assistant Superintendent, Business/Support Services
andrea.affrunti@selmausd.org

Each transmitted request shall contain the name of the person and/or firm filing the request, address, telephone, and fax number, Specifications and/or Drawing number. Bidder is responsible for the legibility of hand-written requests. Pre-bid clarification request shall be filed a minimum of **six (6)** days prior to bid opening. Requests received less than **six (6)** days before bid opening shall not be considered or responded to. A written response to timely pre-bid clarifications requests which materially affects the bidder's price will be made by Addendum issued by the District not less than seventy-two (72) hours prior to bid opening.

10. Bidders Interested in More Than One Bid. No person, firm, or corporation shall be allowed to make, or file, or be interested in more than one prime bid for the same work unless alternate bids are specifically called for. A person, firm, or corporation that has submitted a proposal to a bidder, or that has quoted prices of materials to a bidder, is not thereby disqualified from submitting a proposal or quoting prices to other bidders or making a prime proposal.

11. Award of Contract. The Contract will be awarded to the lowest responsive responsible bidder by action of the governing Board. The District reserves the right to reject any or all bids, or to waive any irregularities or informalities in any bids or in the bidding. In the event an award is made to bidder, and such bidder fails or refuses to execute the Contract and provide the required documents within five (5) calendar days after award of the Contract to bidder, the District may award the Contract to the next lowest responsible and responsive bidder or release all bidders. **Each bid must conform and be responsive to the Contract Documents as defined in the General Conditions.**

12. Bid Protest Procedure. Any bidder may file a bid protest. The protest shall be filed in writing with the District's Assistant Superintendent, Business/Support Services not more than five (5) business days after the date of the bid opening. An e-mail address shall be provided and by filing the protest, protesting bidder consents to receipt of e-mail notices for purposes of the protest and protest related questions and protest appeal, if applicable. The protest shall specify the reasons and facts upon which the protest is based.

a. Resolution of Bid Controversy: Once the bid protest is received, the apparent lowest responsible bidder will be notified of the protest and the evidence presented. If appropriate, the apparent low bidder will be given an opportunity to rebut the evidence and present evidence that the apparent low bidder should be allowed to perform the Work. If deemed appropriate by the District, an informal hearing will be held. District will issue a written decision within fifteen (15) calendar days of receipt of the protest, unless factors beyond the District's reasonable control prevent such resolution. The decision on the bid protest will be copied to all parties involved in the protest.

b. Appeal: If the protesting bidder or the apparent low bidder is not satisfied with the decision, the matter may be appealed to the Assistant Superintendent, Business/Support Services or his or her designee, within three (3) business days after receipt of the District's written decision on the bid protest. The appeal must be in writing and sent via overnight registered mail with all accompanying information relied upon for the appeal and an e-mail address from which questions and responses may be provided to:

Jessica Villarreal
Assistant Superintendent, Business/Support Services
Selma Unified School District
3036 Thompson Avenue
Selma, California 93662

c. Appeal Review: The Assistant Superintendent, Business/Support Services or his or her designee shall review the decision on the bid protest from the Assistant Superintendent, Business/Support Services and issue a written response to the appeal, or if appropriate, appoint a Hearing Office to conduct a hearing and issue a written decision. The written decision of the Assistant Superintendent, Business/Support Services or the Hearing Officer shall be rendered within fifteen (15) calendar days and shall state the basis for the decision. The decision concerning the appeal will be final and not subject to any further appeals.

d. Reservation of Rights to Proceed with Project Pending Appeal. The District reserves the right to proceed to award the Project and commence construction pending an Appeal. If there is State Funding or a critical completion deadline, the District may choose to shorten the time limits set forth in this Section if written notice is provided to the protesting party. E-mailed notice with a written confirmation sent by First Class Mail shall be sufficient to constitute written notice. If there is no written response to a written notice shortening time, the District may proceed with the award.

e. Finality. Failure to comply with this Bid Protest Procedure shall constitute a waiver of the right to protest and shall constitute a failure to exhaust the protesting bidder's administrative remedies.

13. Alternates. If alternate bids are called for, the Contract may be awarded at the election of the Governing Board to the lowest responsible and responsive bidder using the method and procedures outlined in the Notice Inviting Bids and as specified in the section entitled Alternate/Deductive Bid Alternates.

a. Subcontractor Listing for Alternates. If alternate bids are called for and the bidder intends to use different or additional subcontractors, a separate list of subcontractors must be submitted for each such alternate.

14. Evidence of Responsibility. Upon the request of the District, a bidder whose bid is under consideration for the award of the Contract shall submit promptly to the District satisfactory evidence showing the bidder's financial resources, surety and insurance claims experience, construction experience, completion ability, workload, organization available for the performance of the Contract, and other factors pertinent to a Project of the scope and complexity involved.

15. Listing Subcontractors. Each bidder shall submit with his bid, on the form furnished with the Contract Documents, a list of the names, license numbers, scopes of work, locations of the places of business, contact information, and Department of Industrial Relations ("DIR") registration numbers of each subcontractor who will perform work or labor or render service to the bidder in or about the project, or a subcontractor who under subcontract to the bidder, specially fabricates and installs a portion of the work, in an amount in excess of one-half of 1 percent of the bidder's total bid as required by the Subletting and

Subcontracting Fair Practices Act (Public Contract Code section 4100, et seq.) Pursuant to Labor Code section 1725.5, all subcontractors (of any tier) performing work on this Project must be properly registered with DIR.

16. Workers' Compensation. In accordance with the provisions of Labor Code section 3700, the successful bidder as the Contractor shall secure payment of compensation to all employees. The Contractor shall sign and file with the District the following certificate prior to performing the work under this contract: "I am aware of the provisions of Section 3700 of the Labor Code, which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract." The form of such certificate is included as a part of the Bid Documents.

17. Contractor's License. To perform the work required by this notice, the Contractor must possess the Contractor's License as specified in the Notice Inviting Bids, and the Contractor must maintain the license throughout the duration of the contract. If, at the time of bid, bidder is not licensed to perform the Project in accordance with Division 3, Chapter 9, of the Business and Professions Code for the State of California and the Notice to Contractors calling for bids, such bid will not be considered and the Contractor will forfeit its bid security to the District.

18. Anti-Discrimination. It is the policy of the District that in connection with all work performed under contracts, there be no discrimination against any prospective or active employee engaged in the work because of race, color, ancestry, national origin, religious creed, sex, age, or marital status. The Contractor agrees to comply with applicable federal and California laws, including, but not limited to, the California Fair Employment and Housing Act, beginning with Government Code section 12900 and Labor Code section 1735. In addition, the Contractor agrees to require like compliance by any subcontractors employed on the work by such Contractor.

19. Preference for Materials and Substitutions.

a. One Product Specified. Unless the Plans and Specifications state that no Substitution is permitted, whenever the Contract Documents indicate any specific article, device, equipment, product, material, fixture, patented process, form, method, construction, or any specific name, make, trade name, or catalog number, with or without the words, "or equal," such specification shall be read as if the language "or equal" is incorporated.

b. Request for Substitution. Bidder may, unless otherwise stated, offer any material, process, article, etc., which is materially equal or better in every respect to that so indicated or specified ("Specified Item") and will completely accomplish the purpose of the Contract Document. If bidder desires to offer a Substitution for a Specified Item, such bidder must make a request in writing on the District's Substitution Request Form ("Request Form") and submit the completed Request Form with the bidder's bid. The Request Form must be accompanied by evidence as to whether the proposed substitution:

- 1) Is equal in quality, service, and ability to the Specified Item as demonstrated by a side by side comparison of key characteristics and performance criteria (CSI comparison chart);
- 2) Will entail no changes in detail, construction and scheduling of related work;
- 3) Will be acceptable in consideration of the required design and artistic effect;
- 4) Will provide no cost disadvantage to the District;
- 5) Will require no excessive or more expensive maintenance, including adequacy and availability of replacement parts; and
- 6) Will require no change in the Contract Time.

In completing the Request Form, bidder must state with respect to each requested substitution whether bidder will agree to provide the Specified Item in the event that the District denies bidder's request for substitution of a Specified Item. In the event that bidder does not agree in the Request Form to provide the Specified Item and the District denies the requested Substitution, the bidder's bid shall be considered non-responsive and the District may award the Contract to the next lowest bidder or in its sole discretion, release all bidders. In the event that bidder has agreed in the Request Form to provide the Specified Item and the District denies bidder's requested substitution for a Specified Item, bidder shall execute the Agreement and provide the Specified Item without any additional cost or charge to the District, and if bidder fails to execute the Agreement with the Specified Item(s), bidder's bid bond will be forfeited.

After the bids are opened, the apparent lowest bidder shall provide, within five (5) calendar days of opening such bids, any and all Drawings, Specifications, samples, performance data, calculations, and other information as may be required to assist the Architect and the District in determining whether the proposed substitution is acceptable. The burden of establishing these facts shall be upon the bidder.

After the District's receipt of such evidence by bidder, the District will make its final decision as to whether the bidder's request for Substitution for any Specified Items will be granted. The District shall have sole discretion in deciding as to whether a proposed request for Substitution is equal to or better than a Specified Item. Any request for Substitution which is granted by the District shall be documented and processed through a Change Order. The District may condition its approval of any Substitution upon delivery to the District of an extended warranty or other assurances of adequate performance of the Substitution. Any and all risks of delay due to DSA, or any other governmental agency having jurisdiction shall be on the bidder.

20. Disqualification of Bidders and Proposals. More than one proposal for the same work from any individual, firm, partnership, corporation, or association under the same or different names will not be accepted; and reasonable grounds for believing that any bidder is interested in more than one proposal for the work will be cause for rejecting all proposals in which such bidder is interested and the bidder will forfeit their bid security to the District.

21. Unbalanced or Altered Bids. Proposals in which the prices are obviously unbalanced, and those which are incomplete or show any alteration of form, or contain any additions or conditional or alternate bids that are not called for or otherwise permitted, may be rejected. A proposal on which the signature of the bidder has been omitted may be rejected. If, in the District's sole discretion, it determines any pricing, costs or other information submitted by a bidder may result in an unbalanced bid, the District may deem such bid non-responsive. A bid may be determined by the District to be unbalanced if the bid is based on prices significantly less than cost for some work and prices which are significantly overstated in relation to cost for other work, and if there is a reasonable doubt that the bid will result in the lowest overall cost to the District even though it may be the low evaluated bid, or if it is so unbalanced as to be tantamount to allowing an advanced payment.

22. Employment of Apprentices. The Contractor and all Subcontractors shall comply with the provisions of California Labor Code including, but not limited to sections 1777.5, 1777.6, and 1777.7 concerning the employment of apprentices. The Contractor and any Subcontractor under him shall comply with the requirements of said sections, including applicable portions of all subsequent amendments in the employment of apprentices; however, the Contractor shall have full responsibility for compliance with said Labor Code sections, for all apprenticeable occupations, regardless of any other contractual or employment relationships alleged to exist.

23. Non-Collusion Declaration. Public Contract Code section 7106 requires bidders to submit declaration of non-collusion with their bids. This form is included with the bid documents and must be signed and dated by the bidder under penalty of perjury.

24. Wage Rates, Travel and Subsistence.

a. The Contractor and all subcontractors shall comply with the requirements set forth in Division 2, Part 7, Chapter 1 of the Labor Code. Pursuant to Labor Code section 1770 et seq., the District has obtained from the Director of the Department of Industrial Relations the general prevailing rate of per diem wages and the general prevailing rate for holiday and overtime work in the locality in which this work is to be performed for each craft, classification or type of worker needed to execute the contract. Copies are available from the District to any interested party on request and are also available from the Director of the Department of Industrial Relations. The Contractor shall obtain copies of the above-referenced prevailing wage sheets and post a copy of such wage rates at appropriate, conspicuous, weatherproof points at the Site.

b. Any worker employed to perform work on the Project and such work is not covered by any classification listed in the published general prevailing wage rate determinations or per diem wages determined by the Director of the Department of Industrial Relations, shall be paid not less than the minimum rate of wages specified therein for the classification which most nearly corresponds to the employment of such person in such classification.

c. Holiday and overtime work, when permitted by law, shall be paid for at the rate set forth in the prevailing wage rate determinations issued by the Director of the Department of Industrial Relations or at least one and one-half (1½) times the specified basic rate of per diem wages, plus employer payments, unless otherwise specified in the Contract Documents or authorized by law.

d. These per diem rates, including holiday and overtime work, and employer payments for health and welfare, pension, vacation, and similar purposes, are on file at the administrative office of the District, located as noted above and are also available from the Director of the Department of Industrial Relations. It is the Contractor's responsibility to ensure the appropriate prevailing rates of per diem wages are paid for each classification. It shall be mandatory upon the Contractor to whom the Contract is awarded, and upon any subcontractor under such Contractor, to pay not less than the said specified rates to all workers employed by them in the execution of the Contract.

25. DIR Registration of Contractor and Subcontractors. A contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, as defined in the Labor Code, unless currently registered and qualified to perform public work pursuant to Section 1725.5. It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded.

This Project is a public works project as defined in Labor Code section 1720. Each contractor bidding on this Project and all subcontractors (of any tier) performing any portion of the Work must comply with the Labor Code sections 1725.5 and 1771.1 and must be properly and currently registered with DIR and qualified to perform public works pursuant to Labor Code section 1725.5 throughout the duration of the Project. For more information and up to date requirements, contractors are recommended to periodically review the DIR's website at www.dir.ca.gov. Contractor shall be solely responsible for ensuring compliance with Labor Code section 1725.5 as well as any requirements implemented by DIR applicable

to its services or its subcontractors throughout the term of the Agreement and in no event shall contractor be granted increased payment from the District or any time extensions to complete the Project as a result of contractor's efforts to maintain compliance with the Labor Code or any requirements implemented by the DIR. Failure to comply with these requirements shall be deemed a material breach of this Agreement and grounds for termination for cause. The contractor and all subcontractors shall furnish certified payroll records as required pursuant Labor Code section 1776 directly to the Labor Commissioner in accordance with Labor Code section 1771.4 on at least on a monthly basis (or more frequently if required by the District or the Labor Commissioner) and in a format prescribed by the Labor Commissioner. The District reserves the right to withhold contract payments if the District is notified, or determines as the result of its own investigation, that contractor is in violation of any of the requirements set forth in Labor Code section 1720 et seq. at no penalty or cost to the District. Monitoring and enforcement of the prevailing wage laws and related requirements will be performed by the Labor Commissioner/ Department of Labor Standards Enforcement (DLSE).

26. No Telephone or Facsimile Availability. No telephone or facsimile machine will be available to bidders on the District premises at any time.

27. Obtaining Bidding Documents. Bidding Documents, may be obtained from:

TETER AE as noted in Notice to Bidders above.

Bidder shall utilize a complete set of Bidding Documents in preparing a bid. The failure or omission of bidder to receive any Bidding Document, form, instrument, Addendum, or other document shall not relieve bidder from any obligations with respect to the bid and/or Contract.

28. Addenda. Clarification or any other notice of a change in the Bidding Documents will be issued only by the District and only in the form of a written Addendum, transmitted by fax, e-mail, or available for pick up to all who are known by the issuing office to have received a complete set of Bidding Documents. Any other purported Addenda are void and unenforceable.

Bidder is responsible for ascertaining the disposition of all Addenda issued regardless of District notification and to acknowledge all Addenda in the submitted sealed bid prior to the bid opening. Copies of Addenda will be made available for inspection wherever Bidding Documents are on file for inspection. Each Addendum will be numbered, dated, and identified with the Project number. Oral statements or any instructions in any form, other than Addendum as described above, shall be void and unenforceable. Addenda issued by the District and not noted as being acknowledged by bidder as required in the Bid Form, may result in the bid being deemed non-responsive.

29. [This Section Not Being Used]

30. Debarment. Bidder may also be subject to debarment, in addition to seeking remedies for False Claims under Government Code section 12650 et seq. and Penal Code section 72, the District may debar a Contractor pursuant to Article 15 of the General Conditions if the Board, or the Board may designate a hearing officer who, in his or her discretion, finds the Contractor has done any of the following:

- a. Intentionally or with reckless disregard, violated any term of a contract with the District
- b. Committed an act or omission which reflects on the Contractor's quality, fitness or capacity to perform work for the District;

c. Committed an act or offense which indicates a lack of business integrity or business honesty; or,

d. Made or submitted a false claim against the District or any other public entity (See Government Code section 12650, et seq., and Penal Code section 72)

CHECKLIST OF MANDATORY BID FORMS

(For Contractor's use and reference only. Additional documents may be required so bidders should carefully review all Contract Documents and Bid Documents)

- ☐ Designation of Subcontractors
- ☐ Bid Form
- ☐ Contractor's Certificate Regarding Workers Compensation
- ☐ Non-Collusion Declaration
- ☐ Bid Bond (or Bid Guarantee form if Security is other than Bid Bond)
- ☐ Substitution Request Form (If Substitution Request Form is not submitted then NO Substitutions will be allowed after the bids are opened)
- ☐ Acknowledgment of Bidding Practices Regarding Indemnity
- ☐ DVBE Participation Statement
- ☐ Contractor's Certificate Regarding Drug-Free Work Place
- ☐ Contractor's Certificate Regarding Alcoholic Beverage and Tobacco-Free Campus Policy

SELMA HIGH SCHOOL CAMPUS POOL	Bid No. 2024-03		
PROJECT NUMBER:	23-12828		
TO:	TETER AE	EMAIL:	DUSTIN.GRAEF@TETERAE.COM & SHERRIE.DUFER@TETERAE.COM

DATE:			
FROM:		EMAIL:	
DOCUMENT/DIVISION NUMBER:		DRAWING NUMBER:	

REQUESTED CLARIFICATION:
RESPONSE TO CLARIFICATION:

Selma Unified School District

DESIGNATION OF SUBCONTRACTORS

In compliance with the Subletting and Subcontracting Fair Practices Act (California Public Contract Code section 4100 et seq.,) and any amendments thereof, each Bidder shall set forth below: (a) the name, license number, and location of the place of business of each subcontractor who will perform work or labor or render service to the Contractor, who will perform work or labor or work or improvement to be performed under this Contract, or a subcontractor licensed by the State of California who, under subcontract to the Contractor, specially fabricates and installs a portion of the work or improvements according to detailed Drawings contained in the Plans and Specifications in an amount in excess of one-half of one percent of the Contractor's total bid; and (b) the portion and description of the work which will be done by each subcontractor under this Act. The Contractor shall list only one subcontractor for each such portion as is defined by the Contractor in this bid. All subcontractors shall be properly licensed by the California State Licensing Board.

If a Contractor fails to specify a subcontractor, or if a Contractor specifies more than one subcontractor for the same portion of work to be performed under the Contract in excess of one-half of one percent of the Contractor's total bid, the Contractor shall be deemed to have agreed that the Contractor is fully qualified to perform that portion, and that the Contractor alone shall perform that portion.

No Contractor whose bid is accepted shall (a) substitute any subcontractor, (b) permit any subcontractor to be voluntarily assigned or transferred or allow the relevant portion of the work to be performed by anyone other than the original subcontractor listed in the original bid, or (c) sublet or subcontract any portion of the work in excess of one-half of one percent of the Contractor's total bid where the original bid did not designate a subcontractor, except as authorized in the Subletting and Subcontracting Fair Practices Act.

Subletting or subcontracting of any portion of the work in excess of one-half of one percent of the Contractor's total bid where no subcontractor was designated in the original bid shall only be permitted in cases of public emergency or necessity, and then only after a finding, reduced to writing as a public record, of the authority awarding this Contract setting forth the facts constituting the emergency or necessity.

All subcontractors (of any tier) performing any portion of the Work must comply with the Labor Code sections 1725.5 and 1771.1 and must be properly and currently registered with the California Department of Industrial Relations and qualified to perform public works pursuant to Labor Code section 1725.5 throughout the duration of the Project.

NOTE: If alternate bids are called for and bidder intends to use different or additional subcontractors on the alternates, a separate list of subcontractors must be provided for each such Alternate.

DESIGNATION OF SUBCONTRACTORS FORM

Scope of Work	Name of Subcontractor	Location & Place of Business	License Type and Number	DIR Registration Number	<i>E-Mail & Telephone*</i>

Scope of Work	Name of Subcontractor	Location & Place of Business	License Type and Number	DIR Registration Number	<i>E-Mail & Telephone*</i>

* This information must be provided at the time of submission of bid or must be provided within 24 hours after the time set for the opening of bids. Bidders who choose to provide this information within 24 hours after the time set for the opening of bids are solely responsible to ensure the District receives this information in a timely manner. The District is not responsible for any problems or delays associated with emails, faxes, delivery, etc. Absent a verified fax or email receipt date and time by the District, the District's determination of whether the information was received timely shall govern and be determinative. Bidder shall not revise or amend any other information in this form submitted at the time of bid. The information submitted at the time of bid shall govern over any conflicts, discrepancies, ambiguities or other differences in any subsequent Subcontractor Designation Forms submitted by the bidder.

Proper Name of Bidder:

Date:

Name:

Signature of Bidder

Representative:

Address:

Phone:

BID FORM

FOR

SELMA HIGH SCHOOL CAMPUS POOL MODERNIZATION

3125 Wright Street, Selma, CA 93662

Project No. 23-12828

Bid No. 2024-03

FOR

SELMA UNIFIED SCHOOL DISTRICT

CONTRACTOR
NAME:

ADDRESS:

TELEPHONE:

() _____

FAX:

() _____

EMAIL

TO: Selma Unified School District, acting by and through its Governing Board, herein called "District".

1. Pursuant to and in compliance with your Notice Inviting Bids and other documents relating thereto, the undersigned bidder, having familiarized himself with the terms of the Contract, the local conditions affecting the performance of the Contract, the cost of the work at the place where the work is to be done, with the Drawings and Specifications, and other Contract Documents, hereby proposes and agrees to perform within the time stipulated, the Contract, including all of its component parts, and everything required to be performed, including its acceptance by the District, and to provide and furnish any and all labor, materials, tools, expendable equipment, and utility and transportation services necessary to perform the Contract and complete all of the Work in a workmanlike manner required in connection with the construction of:

BID NO. 2024-03

SELMA HIGH SCHOOL CAMPUS POOL MODERNIZATION

in the District described above, all in strict conformance with the drawings and other Contract Documents on file at the Business Services Office of said District for amounts set forth herein.

2. BIDDER ACKNOWLEDGES THE FOLLOWING ADDENDUM/ADDENDA:

Number	Number	Number	Number	Number	Number	Number	Number
_____	_____	_____	_____	_____	_____	_____	_____

Acknowledge the inclusion of all addenda issued prior to bid in the blanks provided above. Your failure to do so may render your bid non-responsive.

3. TOTAL CASH PURCHASE PRICE IN WORDS & NUMBERS:

_____ DOLLARS

(\$ _____)

4. TIME FOR COMPLETION: The District may give a notice to proceed within ninety (90) days of the award of the bid by the District. Once the Contractor has received the notice to proceed, the Contractor shall complete the work in the time specified in the Agreement. By submitting this bid, Contractor has thoroughly studied this Project and agrees that the Contract Time for this Project is adequate for the timely and proper completion of the Project. Further, Contractor has included in the analysis of the time required for this Project, Rain Days, Governmental Delays, and the requisite time to complete Punch List.

In the event that the District desires to postpone giving the notice to proceed beyond this ninety (90) day period, it is expressly understood that with reasonable notice to the Contractor, giving the notice to proceed may be postponed by the District. It is further expressly understood by the Contractor, that the Contractor shall not be entitled to any claim of additional compensation as a result of the postponement of giving the notice to proceed.

If the Contractor believes that a postponement will cause a hardship to it, the Contractor may terminate the contract with written notice to the District within ten (10) days after receipt by the Contractor of the District's notice of postponement. Should the Contractor terminate the Contract as a result of a notice of

postponement, the District shall have the authority to award the Contract to the next lowest responsible bidder, if applicable.

It is understood that the District reserves the right to reject any or all bids and/or waive any irregularities or informalities in this bid or in the bid process. The Contractor understands that it may not withdraw this bid for a period of ninety (90) days after the date set for the opening of bids.

5. Attached is bid security in the amount of not less than ten percent (10%) of the bid:

Bid bond (10% of the Bid), certified check, or cashier's check (circle one)

6. The required List of Designated Subcontractors is attached hereto.

7. The required Non-Collusion Declaration is attached hereto.

8. The Substitution Request Form, if applicable, is attached hereto.

9. It is understood and agreed that if written notice of the acceptance of this bid is mailed, telegraphed, or delivered to the undersigned after the opening of the bid, and within the time this bid is required to remain open, or at any time thereafter before this bid is withdrawn, the undersigned will execute and deliver to the District a Contract in the form attached hereto in accordance with the bid as accepted, and that he or she will also furnish and deliver to the District the Performance Bond and Payment Bond, all within five (5) calendar days after award of Contract, and that the work under the Contract shall be commenced by the undersigned bidder, if awarded the Contract, by the start date provided in the District's Notice to Proceed, and shall be completed by the Contractor in the time specified in the Contract Documents.

10. The names of all persons interested in the foregoing proposal as principals are as follows:

(IMPORTANT NOTICE: If bidder or other interested person is a corporation, state the legal name of such corporation, as well as the names of the president, secretary, treasurer, and manager thereof; if a co-partnership, state the true names of the firm, as well as the names of all individual co-partners comprising the firm; if bidder or other interested person is an individual, state the first and last names in full.)

11. PROTEST PROCEDURES. If there is a bid protest, the grounds shall be submitted as set forth in the Instructions to Bidders.

12. The undersigned bidder shall be licensed and shall provide the following California Contractor's license information:

License Number: _____

License Expiration Date: _____

Name on License: _____

Class of License: _____

DIR Registration Number: _____

If the bidder is a joint venture, each member of the joint venture must include the above information.

13. Time is of the essence regarding this Contract, therefore, in the event the bidder to whom the Contract is awarded fails or refuses to post the required bonds and return executed copies of the Agreement form within five (5) calendar days from the date of receiving the Notice of Award, the District may declare the bidder's bid deposit or bond forfeited as damages.

14. The bidder declares that he/she has carefully examined the location of the proposed Project, that he/she has examined the Contract Documents, including the Plans, General Conditions, Supplemental Conditions, Addenda, and Specifications, all others documents and requirements that are attached to and/or contained in the Project Manual, all other documents issued to bidders and read the accompanying instructions to bidders, and hereby proposes and agrees, if this proposal is accepted, to furnish all materials and do all work required to complete the said work in accordance with the Contract Documents, in the time and manner therein prescribed for the unit cost and lump sum amounts set forth in this Bid Form.

15. DEBARMENT. In addition to seeking remedies for False Claims under Government Code section 12650 et seq. and Penal Code section 72, the District may debar a Contractor pursuant to Article 15 of the General Conditions if the Board, or the Board may designate a hearing officer who, in his or her discretion, finds the Contractor has done any of the following:

- a. Intentionally or with reckless disregard, violated any term of a contract with the District;
- b. Committed an act or omission which reflects on the Contractor's quality, fitness or capacity to perform work for the District;
- c. Committed an act or offense which indicates a lack of business integrity or business honesty; or
- d. Made or submitted a false claim against the District or any other public entity. (See Government Code section 12650, et seq., and Penal Code section 72)

16. DESIGNATION OF SUBCONTRACTORS. In compliance with the Subletting and Subcontracting Fair Practices Act (California Public Contract Code section 4100 et seq.) and any amendments thereof, each bidder shall list subcontractors on the District's form Subcontractor list. This subcontractor list shall be submitted with the bid and is a required form

I agree to receive service of notices at the e-mail address listed below.

I the below-indicated bidder, declare under penalty of perjury that the information provided and representations made in this bid are true and correct.

Proper Name of Company

Selma Unified School District

Bid Form
Page 20

Name of Bidder Representative

Street Address

City, State, and Zip

()
Phone Number

()
Fax Number

E-Mail

By: _____ Date: _____
Signature of Bidder Representative

NOTE: If bidder is a corporation, the legal name of the corporation shall be set forth above together with the signature of authorized officers or agents and the document shall bear the corporate seal; if bidder is a partnership, the true name of the firm shall be set forth above, together with the signature of the partner or partners authorized to sign contracts on behalf of the partnership; and if bidder is an individual, his signature shall be placed above.

All signatures must be made in permanent blue ink.

CONTRACTOR'S CERTIFICATE REGARDING WORKERS' COMPENSATION
FORM

Labor Code section 3700 in relevant part provides:

Every employer except the State shall secure the payment of compensation in one or more of the following ways:

1. By being insured against liability to pay compensation by one or more insurers duly authorized to write compensation insurance in this State.
2. By securing from the Director of Industrial Relations a certificate of consent to self-insure, which may be given upon furnishing proof satisfactory to the Director of Industrial Relations of ability to self-insure and to pay any compensation that may become due to employees.
3. For any county, city, city and county, municipal corporation, public district, public agency, or any political subdivision of the state, including each member of a pooling arrangement under a joint exercise of powers agreement (but not the state itself), by securing from the Director of Industrial Relations a certificate of consent to self-insure against workers' compensation claims, which certificate may be given upon furnishing proof satisfactory to the director of ability to administer workers' compensation claims properly, and to pay workers' compensation claims that may become due to its employees. On or before March 31, 1979, a political subdivision of the state which, on December 31, 1978, was uninsured for its liability to pay compensation, shall file a properly completed and executed application for a certificate of consent to self-insure against workers' compensation claims. The certificate shall be issued and be subject to the provisions of Section 3702.

I am aware of the provisions of Labor Code section 3700 which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provision before commencing the performance of the work of this Contract.

(Signature)

(Print)

(Date)

In accordance with Article 5 (commencing at section 1860), Chapter 1, Part 7, Division 2 of the Labor Code, the above certificate must be signed and submitted with the Contractor's bid.

NON-COLLUSION DECLARATION

The undersigned declares:

I am the _____ [Title] of _____ [Name of Company], the party making the foregoing bid.

The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or to refrain from bidding. The bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder. All statements contained in the bid are true. The bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on _____ [Date], at _____ [City], _____ [State].

Signed: _____

Typed Name: _____

BID BOND FORM

KNOW ALL MEN BY THESE PRESENT that we, the undersigned, (hereafter called "Principal"), and _____ (hereafter called "Surety"), are hereby held and firmly bound unto the Selma Unified School District (hereafter called "District") in the sum of _____ (\$_____) for the payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, successors, and assigns.

SIGNED this _____ day of _____, 2023.

The condition of the above obligation is such that whereas the Principal has submitted to the District a certain Bid, attached hereto and hereby made a part hereof, to enter into a Contract in _____ writing _____ for _____ the _____ construction _____ of _____.

NOW, THEREFORE,

- a. If said Bid is rejected, or
- b. If said Bid is accepted and the Principal executes and delivers a Contract or the attached Agreement form within five (5) calendar days after acceptance (properly completed in accordance with said Bid), and furnishes bonds for his faithful performance of said Contract and for payment of all persons performing labor or furnishing materials in connection therewith,

Then this obligation shall be void; otherwise, the same shall remain in force and effect.

Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration, or addition to the terms of the Contract, or the call for bids, or the work to be performed thereunder, or the specifications accompanying the same, shall in anyway affect its obligation under this bond, and it does hereby waive notice of any such change, extension of time, alteration, or addition to the terms of said Contract, or the call for bids, or the work, or to the specifications.

In the event suit is brought upon this bond by the District and judgment is recovered, the Surety shall pay all costs incurred by the District in such suit, including without limitation, attorneys' fees to be fixed by the court.

IN WITNESS WHEREOF, Principal and Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, on the day and year first set forth above.

(Corporate Seal)

By _____
Principal's Signature

Typed or Printed Name

Principal's Title

(Corporate Seal)

By _____
Surety's Signature

Typed or Printed Name

Title

(Attached Attorney in Fact Certificate)

Surety's Name

Surety's Address

Surety's Phone Number

IMPORTANT:

Surety companies executing bonds must possess a certificate of authority from the California Insurance Commissioner authorizing them to write surety insurance defined in California Insurance Code section 105, and if the work or project is financed, in whole or in part, with federal, grant, or loan funds, it must also appear on the Treasury Department's most current list (Circular 570 as amended).

THIS IS A REQUIRED FORM.

Any claims under this bond may be addressed to:

(Name and Address of Surety)

(Name and Address of agent or representative for service of process in California if different from above)

(Telephone Number of Surety and agent or representative for service of process in California).

REQUEST FOR SUBSTITUTION AT TIME OF BID

Pursuant to Public Contract Code section 3400, bidder submits the following request to Substitute with the bid that is submitted. I understand that if the request to substitute is not an “or equal” or is not accepted by District and I answer “no” I will not provide the specified item, then I will be held non-responsive and my bid will be rejected. With this understanding, I hereby request Substitution of the following articles, devices, equipment, products, materials, fixtures, patented processes, forms, methods, or types of construction:

	Specification Section	Specified Item	Requested Substituted Item	Contractor Agrees to Provide Specified Item if request to Substitute is Denied ¹ (circle one)	District Decision (circle one)
1.				Yes No	Grant Deny
2.				Yes No	Grant Deny
3.				Yes No	Grant Deny
4.				Yes No	Grant Deny
5.				Yes No	Grant Deny
6.				Yes No	Grant Deny
7.				Yes No	Grant Deny
8.				Yes No	Grant Deny
9.				Yes No	Grant Deny
10.				Yes No	Grant Deny
11.				Yes No	Grant Deny
12.				Yes No	Grant Deny

This Request Form must be accompanied by evidence as to whether the proposed Substitution (1) is equal in quality, service, and ability to the Specified Item; (2) will entail no change in detail, construction, and scheduling of related work; (3) will be acceptable in consideration of the required design and artistic effect; (4) will provide no cost disadvantage to the District; (5) will require no excessive or more expensive

¹ Bidder must state whether bidder will provide the Specified Item in the event the Substitution request is evaluate and denied. If bidder states that bidder will not provide the Specified Item the denial of a request to Substitute shall result in the rejection of the bidder as non-responsive. However, if bidder states that bidder will provide the Specified Item in the event that bidder’s request for Substitution is denied, bidder shall execute the Agreement and provide the Specified Item(s). If bidder refuses to execute the Agreement due to the District’s decision to require the Specified Item(s) at no additional cost, bidder’s Bid Bond shall be forfeited.

maintenance, including adequacy and availability of replacement parts; (6) will require no change of the construction schedule or milestones for the Project; and, (7) Contractor agrees to pay for any DSA Fees or other Governmental Plan check costs associated with this Substitution Request. (See General Conditions Section 3.6)

The undersigned states that the following paragraphs are correct:

1. The proposed Substitution does not affect the dimensions shown on the Drawings.
2. The undersigned will pay for changes to the building design, including Architect, engineering, or other consultant design, detailing, DSA plan check or other governmental plan check costs, and construction costs caused by the requested substitution.
3. The proposed substitution will have no adverse effect on other trades, the Contract Time, or specified warranty requirements.
4. Maintenance and service parts will be available locally for the proposed substitution.
5. In order for the Architect to properly review the substitution request, within five (5) days following the opening of bids, the Contractor shall provide samples, test criteria, manufacturer information, and any other documents requested by Architect or Architect's engineers or consultants, including the submissions that would ordinarily be required under Article 3.7 for Shop Drawings along with a document which provides a side by side comparison of key characteristics and performance criteria (often known as a CSI side by side comparison chart).
6. If Substitution Request is accepted by the District, Contractor is still required to provide a Submittal for the substituted item pursuant to Article 3.7 and shall provide required Schedule information (including schedule fragnets, if applicable) for the substituted item as required under Article 8.3.2.1. The approval of the Architect, Engineer, or District of the substitution request does not mean that the Contractor is relieved of Contractor's responsibilities for Submittals, Shop Drawings, and schedules under Article 3.7 and 8.3.2 if the Contractor is awarded the Project.

Name of Bidder: _____

By: _____

District: _____

By: _____

ACKNOWLEDGMENT OF BIDDING PRACTICES REGARDING INDEMNITY FORM

TO: Selma Unified School District

RE: Project Number _____

Construction Contract for _____

Please be advised that with respect to the above-referenced Project the undersigned Contractor on behalf of itself and all subcontractors hereby waives the benefits and protection of Labor Code section 3864, which provides:

“If an action as provided in this chapter is prosecuted by the employee, the employer, or both jointly against the third person results in judgment against such third person, the employer shall have no liability to reimburse or hold such third person harmless on such judgment or settlement in the absence of a written agreement to do so executed prior to the injury.”

This Agreement has been signed by an authorized representative of the contracting party and shall be binding upon its successors and assignees. The undersigned further agrees to promptly notify the District of any changes of ownership of the contracting party or any subcontractor while this Agreement is in force.

Contracting Party

Name of Agent/Title

DISABLED VETERAN BUSINESS ENTERPRISE (DVBE) PARTICIPATION
STATEMENT

Each bidder must complete this form in order to comply with the Selma Unified School District ("District") policy for participation of disabled veteran business enterprises (School District projects funded in whole or in part by the State of California pursuant to the Leroy F. Greene School Facilities Act of 1998. (Education Code §17070.10, *et seq.*)

_____: _____

Bid No.: _____

DSA No.: _____

The undersigned, on behalf of the Contractor named below, certifies that the Contractor has made reasonable efforts to secure participation by DVBE in the Contract to be awarded for the above-referenced Bid No., including participation by DVBE subcontractors and/or material suppliers. **Check only one of the following:**

- ☐ The Contractor was unable after reasonable efforts to secure DVBE participation in the Contract for the above-referenced Project/Bid No. However, the Contractor will use DVBE services if the opportunity arises at any time during construction of the Project. Upon completion of the Project, the Contractor will report to the District the total dollar amount of DVBE participation in any Contract awarded to Contractor, and in any change orders, for the above-referenced Project.
- ☐ The Contractor has secured DVBE participation in the Contract for the above referenced Project/Bid No., and anticipates that such DVBE participation will equal approximately _____dollars (\$_____), which represents approximately _____percent (____%) of the total Contract for such Project. Upon completion of the Project, Contractor will report to the District the actual total dollar amount of DVBE participation in the Contract awarded to Contractor, and in any change orders, for such Project

Company: _____

Name: _____

Title: _____

Signature: _____

Date: _____

CONTRACTOR'S CERTIFICATE REGARDING DRUG-FREE WORKPLACE

This Drug-Free Workplace Certification form is required from all successful bidders pursuant to the requirements mandated by Government Code section 8350 et seq., the Drug-Free Workplace Act of 1990. The Drug-Free Workplace Act of 1990 requires that every person or organization awarded a contract or grant for the procurement of any property or service from any State agency must certify that it will provide a drug-free workplace by performing certain specified acts. In addition, the Act provides that each contract or grant awarded by a State agency may be subject to suspension of payments or termination of the contract or grant, and the Contractor or grantee may be subject to debarment from future contracting, if the contracting agency determines that specified acts have occurred.

Pursuant to Government Code section 8355, every person or organization awarded a contract or grant from a State agency shall certify that it will provide a drug-free workplace by doing all of the following:

1. Publishing a statement, notifying employees that the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance is prohibited in the person's or organization's workplace, and specifying actions which will be taken against employees for violations of the prohibition.
2. Establishing a drug-free awareness program to inform employees about all of the following:
 - a. The dangers of drug abuse in the workplace;
 - b. The person's or organization's policy of maintaining a drug-free workplace;
 - c. The availability of drug counseling, rehabilitation and employee-assistance programs; and
 - d. The penalties that may be imposed upon employees for drug abuse violations;
3. Requiring that each employee engaged in the performance of the contract or grant be given a copy of the statement required by subdivision (a) and that, as a condition of employment on the contract or grant, the employee agrees to abide by the terms of the statement.

I, the undersigned, agree to fulfill the terms and requirements of Government Code section 8355 listed above and will (a) publish a statement notifying employees concerning the prohibition of controlled substance at the workplace, (b) establish a drug-free awareness program, and (c) require each employee engaged in the performance of the contract be given a copy of the statement required by section 8355(a) and require such employee agree to abide by the terms of that statement.

I also understand that if the Selma Unified School District determines that I have either (a) made a false certification herein, or (b) violated this certification by failing to carry out the requirements of Section 8355, that the contract awarded herein is subject to termination, suspension of payments, or both. I further understand that, should I violate the terms of the Drug-Free Workplace Act of 1990, I may be subject to debarment in accordance with the requirements of Section 8350 et seq.

I acknowledge that I am aware of the provisions of Government Code section 8350 et seq. and hereby certify that I will adhere to the requirements of the Drug-Free Workplace Act of 1990.

DATE: _____

CONTRACTOR

By: _____
Signature

**CONTRACTOR’S CERTIFICATE REGARDING ALCOHOLIC BEVERAGE AND
TOBACCO-FREE CAMPUS POLICY**

The Contractor agrees that it will abide by and implement the District’s Alcoholic Beverage and Tobacco-Free Campus Policy, which prohibits the use of alcoholic beverages and tobacco products, of any kind and at any time, in District-owned or leased buildings, on DISTRICT property and in DISTRICT vehicles. The Contractor shall procure signs stating “ALCOHOLIC BEVERAGE AND TOBACCO USE IS PROHIBITED” and shall ensure that these signs are prominently displayed in all entrances to school property at all times.

DATE: _____

CONTRACTOR

By: _____
Signature

[End of Bid Documents to be Submitted with Bid]

AGREEMENT FORM

THIS AGREEMENT, entered into this ____ day of _____, 2023 in the County of Fresno of the State of California, by and between the Selma Unified School District, hereinafter called the "District", and _____, hereinafter called the "Contractor".

WITNESSETH that the District and the Contractor for the consideration stated herein agree as follows:

ARTICLE 1 - SCOPE OF WORK: The Contractor shall furnish all labor, materials, equipment, tools, and utility and transportation services, and perform and complete all work required in connection with the [INSERT DESCRIPTION OF WORK] in accordance with the plans and specifications approved by the Division of the State Architect under Application No. _____. ("Project") in strict accordance with the Contract Documents enumerated in Article 7 below. The Contractor shall be liable to the District for any damages arising as a result of a failure to comply with that obligation, and the Contractor shall not be excused with respect to any failure to so comply by an act or omission of the Architect, Engineer, Inspector, Division of the State Architect (DSA), or representative of any of them, unless such act or omission actually prevents the Contractor from fully complying with the Contract Documents and the Contractor protests, in accordance with the Contract Documents, that the act or omission is preventing the Contractor from fully complying with the Contract Documents. Such protest shall not be effective unless reduced to writing and filed with the District office within seven (7) days of the date of occurrence of such act or omission preventing the Contractor from fully complying with the Contract Documents.

ARTICLE 2 - TIME OF COMPLETION: The District may give notice to proceed within ninety (90) days of the award of the bid by the District. Once the Contractor has received a notice to proceed, the Contractor shall reach Substantial Completion (See Article 1.1.46) of the Work within 182 calendar days from receipt of the Notice to Proceed. This shall be called Contract Time. (See Article 8.1.1). It is expressly understood that time is of the essence.

Contractor has thoroughly studied the Project and has satisfied itself that the time period for this Project was adequate for the timely and proper completion of the Project within each milestone and within the Contract time. Further, Contractor has included in the analysis of the time required for this Project, items set forth in General Conditions Article 8.3.2.1, Submittal Schedules, Rain Day Float, and Governmental Delay Float.

In the event that the District desires to postpone giving the notice to proceed beyond this ninety (90) day period, it is expressly understood that with reasonable notice to the Contractor, giving the notice to proceed may be postponed by the District. It is further expressly understood by the Contractor, that the Contractor shall not be entitled to any claim of additional compensation as a result of the District's postponement of giving the notice to proceed.

If the Contractor believes that a postponement will cause hardship to it, the Contractor may terminate the Contract with written notice to the District within ten (10) days after receipt by the Contractor of the District's notice of postponement. It is further understood by the Contractor that in the event that the Contractor terminates the Contract as a result of postponement by the District, the District shall only be obligated to pay the Contractor for the work performed by the Contractor at the time of notification of postponement. Should the Contractor terminate the Contract as a result of a notice of postponement, the District shall have the authority to award the Contract to the next lowest responsible bidder.

ARTICLE 3 - LIQUIDATED DAMAGES: It being impracticable and infeasible to determine the amount of actual damage, it is agreed that the Contractor will pay the District the sum of One Thousand Dollars (\$1,000.00) per calendar day for each and every day of delay beyond the Contract Time set forth in Article 2 of this Agreement (inclusive of Milestones that are critical on the critical path or noted as critical to the District) as liquidated damages and not as a penalty or forfeiture. In the event Liquidated Damages are not paid, the Contractor further agrees that the District may deduct such amount thereof from any money due or that may become due the Contractor under the Contract (See Article 9.6 and 2.2 of the General Conditions).

ARTICLE 4 - CONTRACT PRICE: The District shall pay to the Contractor as full consideration for the faithful performance of the Contract, subject to any additions or deductions as provided in the Contract Documents, the sum of _____ DOLLARS (\$ _____), said sum being the total amount stipulated in the Bid Contractor submitted. Payment shall be made as set forth in the General Conditions.

Should any Change Order result in an increase in the Contract Price, the cost of such Change Order shall be agreed to in advance by the Contractor and the District, subject to the monetary limitations set forth in Public Contract Code section 20118.4. In the event that the Contractor proceeds with a Change in work without an agreement between the District and Contractor regarding the cost of a Change Order, the Contractor waives any Claim of additional compensation for such additional work.

ARTICLE 5 - HOLD HARMLESS AGREEMENT: Contractor shall defend, indemnify and hold harmless District, Architect, Inspector, the State of California and their officers, employees, agents and independent contractors from all liabilities, claims, actions, liens, judgments, demands, damages, losses, costs or expenses of any kind arising from death, personal injury, property damage or other cause based or asserted upon any act, omission, or breach connected with or arising from the progress of Work or performance of service under this Agreement or the Contract Documents. As part of this indemnity, Contractor shall protect and defend, at its own expense, District, Architect, Construction Manager, Inspector, the State of California and their officers, employees, agents and independent contractors from any legal action including attorney's fees or other proceeding based upon such act, omission, breach or as otherwise required by this Article.

Furthermore, Contractor agrees to and does hereby defend, indemnify and hold harmless District, Architect, Construction Manager, Inspector, the State of California and their officers, employees, agents and independent contractors from every claim or demand made, and every liability, loss, damage, expense or attorney's fees of any nature whatsoever, which may be incurred by reason of:

(a) Liability for (1) death or bodily injury to persons; (2) damage or injury to, loss (including theft), or loss of use of, any property; (3) any failure or alleged failure to comply with any provision of law or the Contract Documents; or (4) any other loss, damage or expense, sustained by any person, firm or corporation or in connection with the Work called for in this Agreement or the Contract Documents, except for liability resulting from the sole or active negligence, or the willful misconduct of the District.

(b) Any bodily injury to or death of persons or damage to property caused by any act, omission or breach of Contractor or any person, firm or corporation employed by Contractor, either directly or by independent contract, including all damages or injury to or death of persons, loss (including theft) or loss of use of any property, sustained by any person, firm or corporation, including the District, arising out of or in any way connected with Work covered by this Agreement or the Contract Documents, whether said injury or damage occurs either on or off District property, but not for any loss, injury, death or damages caused by the sole or active negligence or willful misconduct of the District.

(c) Any dispute between Contractor and Contractor's subcontractors/suppliers/ Sureties, including, but not limited to, any failure or alleged failure of the Contractor (or any person hired or employed directly or indirectly by the Contractor) to pay any Subcontractor or Materialman of any tier or any other person employed in connection with the Work and/or filing of any stop notice or mechanic's lien claims.

(d) Any claims, allegations, penalties, assessments, or liabilities to the extent caused by the Contractor's failure or the failure of any Subcontractor of any tier, to fully comply with the DIR registration requirements under Labor Code section 1725.5 at all times during the performance of any Work on the Project and shall reimburse the District for any penalties assessed against the District arising from any failure by the Contractor or any Subcontractor of any tier from complying with Labor Code sections 1725.5 and 1771.1. Nothing in this paragraph, however, shall require the Contractor or any Subcontractor to be liable to the District or indemnify the District for any penalties caused by the District in accordance with Labor Code section 1773.3 (g).

Contractor, at its own expense, cost, and risk, shall defend any and all claims, actions, suits, or other proceedings that may be brought or instituted against the District, its officers, agents or employees, on account of or founded upon any cause, damage, or injury identified herein Article 5 and shall pay or satisfy any judgment that may be rendered against the District, its officers, agents or employees in any action, suit or other proceedings as a result thereof.

The Contractor's and Subcontractors' obligation to defend, indemnify and hold harmless the Owner, Architect, Inspector, the State of California and their officers, employees, agents and independent contractors hereunder shall include, without limitation, any and all claims, damages, and costs for the following: (1) any damages or injury to or death of any person, and damage or injury to, loss (including theft), or loss of use of, any property; (2) breach of any warranty, express or implied; (3) failure of the Contractor or Subcontractors to comply with any applicable governmental law, rule, regulation, or other requirement; (4) products installed in or used in connection with the Work; and (5) any claims of violation of the Americans with Disabilities Act ("ADA").

ARTICLE 6 - PROVISIONS REQUIRED BY LAW: Each and every provision of law and clause required to be inserted in this Contract shall be deemed to be inserted herein, and this Contract shall be read and enforced as though it were included herein, and if through mistake or otherwise any such provision is not inserted or is not inserted correctly, then upon application of either party the Contract shall forthwith be physically amended to make such insertion or correction.

ARTICLE 7 - COMPONENT PARTS OF THE CONTRACT: The Contract entered into by this Agreement consists of the following Contract Documents, all of which are component parts of the Contract as if herein set out in full or attached hereto.

Notice Inviting Bids
Instructions to Bidders
Designation of Subcontractors
Non-Collusion Declaration
Bid Guarantee Form
Bid Bond
Bid Form
Contractor's Certificate Regarding Worker's Compensation
Acknowledgment of Bidding Practices Regarding Indemnity

DVBE Participation Statement and Close-Out Forms
Agreement Form
Payment Bond
Performance Bond
Guarantee
Escrow Agreement for Security Deposit In Lieu of Retention
Workers' Compensation/Employers Liability Endorsement
General Liability Endorsement
Automobile Liability Endorsement
Contractor's Certificate Regarding Drug-Free Workplace
Contractor's Certificate Regarding Alcohol and Tobacco
Contractor's Certificate Regarding Background Checks
General Conditions
Supplementary and Special Conditions
Specifications
All Addenda as Issued
Drawings/Plans
Substitution Request Form
Requirements, Reports and/or Documents in the Project Manual or Other Documents Issued to Bidders

All of the above-named Contract Documents are intended to be complementary. Work required by one of the above-named Contract Documents and not by others shall be done as if required by all.

ARTICLE 8 - PREVAILING WAGES: Wage rates for this Project shall be in accordance with the general prevailing rate of holiday and overtime work in the locality in which the work is to be performed for each craft, classification, or type of work needed to execute the Contract as determined by the Director of the Department of Industrial Relations. Copies of schedules of rates so determined by the Director of the Department of Industrial Relations are on file at the administrative office of the District and are also available from the Director of the Department of Industrial Relations. Monitoring and enforcement of the prevailing wage laws and related requirements will be performed by the Labor Commissioner/ Department of Labor Standards Enforcement (DLSE).

The following are hereby referenced and made a part of this Agreement and Contractor stipulates to the provisions contained therein.

1. Chapter 1 of Part 7 of Division 2 of the Labor Code (Section 1720 et seq.)
2. California Code of Regulations, Title 8, Chapter 8, Subchapters 3 through 6 (Section 16000 et seq.)

ARTICLE 9 - RECORD AUDIT: In accordance with Government Code section 8546.7 (and Davis Bacon, if applicable) and Article 13.11 of the General Conditions, records of both the District and the Contractor shall be subject to examination and audit for a period of five (5) years after a Final Retention Payment or the Recording of a Notice of Completion, whichever occurs first.

ARTICLE 10 - CONTRACTOR'S LICENSE: The Contractor must possess throughout the Project a Class C-15 Contractor's License, issued by the State of California, which must be current and in good standing.

IN WITNESS WHEREOF, this Agreement has been duly executed by the above-named parties,
on the day and year first above written.

Selma Unified School District

CONTRACTOR:

By: _____

Typed or Printed Name

By: Jessica Villarreal
Assistant Superintendent

Title

Dated: _____

Signature

Type or Printed Name

Title (Authorized Officers or Agents)

Signature

(CORPORATE SEAL)

PAYMENT BOND

(CALIFORNIA PUBLIC WORK)

KNOW ALL MEN BY THESE PRESENTS:

THAT WHEREAS, the SELMA UNIFIED SCHOOL DISTRICT (sometimes referred to hereinafter as "Obligee") has awarded to _____ (hereinafter designated as the "Principal" or "Contractor"), an agreement for the work described as follows: _____ Project (hereinafter referred to as the "Public Work"); and

WHEREAS, said Contractor is required to furnish a bond in connection with said Contract, and pursuant to California Civil Code section 9550;

NOW, THEREFORE, We, _____, the undersigned Contractor, as Principal; and _____, a corporation organized and existing under the laws of the State of _____, and duly authorized to transact business under the laws of the State of California, as Surety, are held and firmly bound unto the SELMA UNIFIED SCHOOL DISTRICT and to any and all persons, companies, or corporations entitled by law to file stop notices under California Civil Code section 9100, or any person, company, or corporation entitled to make a claim on this bond, in the sum of _____ Dollars (\$ _____), such sum being not less than one hundred percent (100%) of the total amount payable by said Obligee under the terms of said Contract, for which payment will and truly to be made, we bind ourselves, our heirs, executors and administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH that if said Principal, its heirs, executors, administrators, successors, or assigns, or subcontractor, shall fail to pay any person or persons named in Civil Code section 9100; or fail to pay for any materials, provisions, or other supplies, used in, upon, for, or about the performance of the work contracted to be done, or for any work or labor thereon of any kind, or for amounts due under the Unemployment Insurance Code, with respect to work or labor thereon of any kind; or shall fail to deduct, withhold, and pay over to the Employment Development Department, any amounts required to be deducted, withheld, and paid over by Unemployment Insurance Code section 13020 with respect to work and labor thereon of any kind, then said Surety will pay for the same, in an amount not exceeding the amount herein above set forth, and in the event suit is brought upon this bond, also will pay such reasonable attorneys' fees as shall be fixed by the court, awarded and taxed as provided in California Civil Code section 9550 et seq.

This bond shall inure to the benefit of any person named in Civil Code section 9100 giving such person or his/her assigns a right of action in any suit brought upon this bond.

It is further stipulated and agreed that the Surety of this bond shall not be exonerated or released from the obligation of the bond by any change, extension of time for performance, addition, alteration or modification in, to, or of any contract, plans, or specifications, or agreement pertaining or relating to any scheme or work of improvement herein above described; or pertaining or relating to the furnishing of labor, materials, or equipment therefor; nor by any change or modification of any terms of payment or extension of time for payment pertaining or relating to any scheme or work of improvement herein above described; nor by any rescission or attempted rescission of the contract, agreement or bond; nor by any conditions

precedent or subsequent in the bond attempting to limit the right of recovery of claimants otherwise entitled to recover under any such contract or agreement or under the bond; nor by any fraud practiced by any person other than the claimant seeking to recover on the bond; and that this bond be construed most strongly against the Surety and in favor of all persons for whose benefit such bond is given; and under no circumstances shall the Surety be released from liability to those for whose benefit such bond has been given, by reason of any breach of contract between the Obligee and the Contractor or on the part of any obligee named in such bond; that the sole condition of recovery shall be that the claimant is a person described in California Civil Code section 9100, and who has not been paid the full amount of his or her claim; and that the Surety does hereby waive notice of any such change, extension of time, addition, alteration or modification herein mentioned.

IN WITNESS WHEREOF this instrument has been duly executed by the Principal and Surety above named, on the _____ day of _____, 2023.

PRINCIPAL/CONTRACTOR:

By: _____

SURETY:

By: _____

Attorney-in-Fact

Surety companies executing bonds must possess a certificate of authority from the California Insurance Commissioner authorizing them to write surety insurance defined in California Insurance Code section 105, and if the work or project is financed, in whole or in part, with federal, grant or loan funds, Surety's name must also appear on the Treasury Department's most current list (Circular 570 as amended).

(Name and Address of Surety)

(Name and Address of agent or representative for service for service of process in California)

Telephone: _____

A notary public or other office completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

[illegible]

On _____, before me, _____, personally appeared _____, who proved on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies) as the Attorney-in-Fact of _____ (Surety) and acknowledged to me that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Notary Public in and for said State

(SEAL)

Commission expires: _____

NOTE: A copy of the power-of-attorney to local representatives of the bonding company must be attached hereto.

Selma Unified School District

Payment Bond
Page 41

PERFORMANCE BOND
(CALIFORNIA PUBLIC WORK)

KNOW ALL MEN BY THESE PRESENTS:

THAT WHEREAS, the SELMA UNIFIED DISTRICT (sometimes referred to hereinafter as "Obligee") has awarded to _____ (hereinafter designated as the "Principal" or "Contractor"), an agreement for the work described as follows: _____ Project (hereinafter referred to as the "Public Work"); and

WHEREAS, the work to be performed by the Contractor is more particularly set forth in that certain contract for said Public Work dated _____, (hereinafter referred to as the "Contract"), which Contract is incorporated herein by this reference; and

WHEREAS, the Contractor is required by said Contract to perform the terms thereof and to provide a bond both for the performance and guaranty thereof.

NOW, THEREFORE, we, _____, the undersigned Contractor, as Principal, and _____, a corporation organized and existing under the laws of the State of _____, and duly authorized to transact business under the laws of the State of California, as Surety, are held and firmly bound unto the SELMA UNIFIED SCHOOL DISTRICT in the sum of _____ Dollars (\$ _____), said sum being not less than one hundred percent (100%) of the total amount payable by said Obligee under the terms of said Contract, for which amount well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT, if the bounded Contractor, his or her heirs, executors, administrators, successors or assigns, shall in all things stand to and abide by, and well and truly keep and perform the covenants, conditions, and agreements in said Contract and any alteration thereof made as therein provided, on his or her part, to be kept and performed at the time and in the manner therein specified, and in all respects according to their intent and meaning; and shall faithfully fulfill guarantees of all materials and workmanship; and indemnify, defend and save harmless the Obligee, its officers and agents, as stipulated in said Contract, then this obligation shall become null and void; otherwise it shall be and remain in full force and effect.

The Surety, for value received, hereby stipulates and agrees that it shall not be exonerated or released from the obligation of this bond (either by total exoneration or pro tanto) by any change, extension of time, alteration in or addition to the terms of the contract or to the work to be performed there under or the specifications accompanying the same, nor by any change or modification to any terms of payment or extension of time for any payment pertaining or relating to any scheme of work of improvement under the contract. Surety also stipulates and agrees that it shall not be exonerated or released from the obligation of this bond (either by total exoneration or pro tanto) by any overpayment or underpayment by the Obligee that is based upon estimates approved by the Architect. The Surety stipulates and agrees that none of the aforementioned changes, modifications, alterations, additions, extension of time or actions shall in any way affect its obligation on this bond, and it does hereby waive notice of any such changes, modifications,

alterations, additions or extension of time to the terms of the contract, or to the work, or the specifications as well notice of any other actions that result in the foregoing.

Whenever Principal shall be, and is declared by the Obligee to be, in default under the Contract, the Surety shall promptly either remedy the default, or shall promptly take over and complete the Contract through its agents or independent contractors, subject to acceptance and approval of such agents or independent contractors by Obligee as hereinafter set forth, in accordance with its terms and conditions and to pay and perform all obligations of Principal under the Contract, including, without limitation, all obligations with respect to warranties, guarantees and the payment of Liquidated Damages; or, at Obligee's sole discretion and election, Surety shall obtain a bid or bids for completing the Contract in accordance with its terms and conditions, and upon determination by Obligee of the lowest responsible bidder, arrange for a contract between such bidder and the Obligee and make available as Work progresses (even though there should be a default or succession of defaults under the contract or contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the "balance of the Contract Price" (as hereinafter defined), and to pay and perform all obligations of Principal under the Contract, including, without limitation, all obligations with respect to warranties, guarantees and the payment of Liquidated Damages. The term "balance of the Contract Price," as used in this paragraph, shall mean the total amount payable to Principal by the Obligee under the Contract and any modifications thereto, less the amount previously paid by the Obligee to the Principal, less any withholdings by the Obligee allowed under the Contract. Obligee shall not be required or obligated to accept a tender of a completion contractor from the Surety.

Surety expressly agrees that the Obligee may reject any agent or contractor which may be proposed by Surety in fulfillment of its obligations in the event of default by the Principal. Unless otherwise agreed by Obligee, in its sole discretion, Surety shall not utilize Principal in completing the Contract nor shall Surety accept a bid from Principal for completion of the work in the event of default by the Principal.

No final settlement between the Obligee and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

The Surety shall remain responsible and liable for all patent and latent defects that arise out of or relate to the Contractor's failure and/or inability to properly complete the Public Work as required by the Contract and the Contract Documents. The obligation of the Surety hereunder shall continue so long as any obligation of the Contractor remains.

Contractor and Surety agree that if the Obligee is required to engage the services of an attorney in connection with enforcement of the bond, Contractor and Surety shall pay Obligee's reasonable attorneys' fees incurred, with or without suit, in addition to the above sum.

In the event suit is brought upon this bond by the Obligee and judgment is recovered, the Surety shall pay all costs incurred by the Obligee in such suit, including reasonable attorneys' fees to be fixed by the Court.

IN WITNESS WHEREOF, we have hereunto set our hands and seals this ____ day of _____, 2023.

PRINCIPAL/CONTRACTOR:

By: _____

SURETY:

By: _____

Attorney-in-Fact

The rate of premium on this bond is _____ per thousand.

The total amount of premium charged: \$_____ (This must be filled in by a corporate surety).

IMPORTANT: THIS IS A REQUIRED FORM.

Surety companies executing bonds must possess a certificate of authority from the California Insurance Commissioner authorizing them to write surety insurance defined in California Insurance Code section 105, and if the work or project is financed, in whole or in part, with federal, grant or loan funds, Surety's name must also appear on the Treasury Department's most current list (Circular 570 as amended).

Any claims under this bond may be addressed to:

(Name and Address of Surety)

(Name and Address of agent or representative for service for service of process in California)

Telephone: _____

Telephone: _____

GUARANTEE

Guarantee for _____ Project. We hereby guarantee that the _____ Project, which we have installed in and for the Selma Unified School District has been done in accordance with the Contract Documents, including without limitation, the drawings and specifications, and that the work as installed will fulfill the requirements included in the bid documents. The undersigned and its surety agrees to repair or replace any or all such work, together with any other adjacent work, which may be displaced in connection with such replacement, that may prove to be defective in workmanship or material within a period of One (1) year from the date of the Notice of Completion of the above-mentioned structure by the Selma Unified School District, ordinary wear and tear and unusual abuse or neglect excepted.

In the event the undersigned or its surety fails to comply with the above-mentioned conditions within a reasonable period of time, as determined by the District, but not later than ten (10) days after being notified in writing by the District or within forty eight (48) hours in the case of an emergency or urgent matter, the undersigned and its surety authorizes the District to proceed to have said defects repaired and made good at the expense of the undersigned and its surety, who will pay the costs and charges therefor upon demand. The undersigned and its surety shall be jointly and severally liable for any costs arising from the District's enforcement of this Guarantee.

Countersigned

(Proper Name)

(Proper Name)

By: _____

By: _____

(Signature of Subcontractor or Contractor)

(Signature of General Contractor if for Subcontractor)

Representatives to be contacted for service:

Name: _____

Address: _____

Phone Number: _____

ESCROW AGREEMENT FOR SECURITY DEPOSITS IN LIEU OF RETENTION

This Escrow Agreement is made and entered into by and between the Selma Unified School District, 3036 Thompson Avenue, Selma, California 93662, hereinafter called "Owner", and _____ whose address is _____, hereinafter called "Contractor", and _____ whose address is _____, hereinafter called "Escrow Agent".

For the consideration hereinafter set forth, the Owner, Contractor and Escrow Agent agree as follows:

1. Pursuant to Section 22300 of the Public Contract Code of the State of California, Contractor has the option to deposit securities with Escrow Agent as a substitute for Retention earnings required to be withheld by Owner pursuant to the Construction Contract entered into between the Owner and Contractor for _____ in the amount of _____ dated _____ (hereinafter referred to as the "Contract"). Alternatively, on written request of the Contractor, the Owner shall make payments of the Retention earnings directly to the escrow agent. When Contractor deposits the securities as a substitute for Contract earnings, the Escrow Agent shall notify the Owner within ten (10) days of deposit. The market value of the securities at the time of the substitution shall be at least equal to the cash amount then required to be withheld as Retention under the terms of the Contract between the Owner and Contractor. Securities shall be held in the name of the Owner, and shall designate the Contractor as beneficial owner.
2. The Owner shall make progress payments to the Contractor for such funds which otherwise would be withheld from progress payments pursuant to the Contract provisions, provided that the Escrow Agent holds securities in the form and amount specified above.
3. When the Owner makes payments of Retentions earned directly to the Escrow Agent, the Escrow Agent shall hold them for the benefit of the Contractor until such time as the escrow created under this Contract is terminated. The Contractor may direct the investment of the payments into securities. All terms and conditions of this Agreement and the rights and responsibilities of the parties shall be equally applicable and binding when the Owner pays the Escrow Agent directly.
4. Contractor shall be responsible for paying all fees for the expenses incurred by Escrow Agent in administering the Escrow Account and all expenses of the Owner. These expenses and payment terms shall be determined by the Owner, Contractor, and Escrow Agent.
5. The interest earned on the securities or the money market accounts held in escrow and all interest earned on that interest shall be for the sole account of Contractor and shall be subject to withdrawal by Contractor at any time and from time to time without notice to the Owner.
6. Contractor shall have the right to withdraw all or any part of the principal in the Escrow Account only by written notice to Escrow Agent accompanied by written authorization from the Owner to the Escrow Agent that Owner consents to the withdrawal of the amount sought to be withdrawn by Contractor.
7. The Owner shall have a right to draw upon the securities in the event of default by the Contractor. Upon seven (7) days' written notice to the Escrow Agent from the Owner of the notice of default under Article 2.2, Article 9.6 or Article 14, the Escrow Agent shall immediately convert the securities to cash and shall distribute the cash as instructed by the Owner.

8. Upon receipt of written notification from the Owner certifying that the Contract is final and complete, and that the Contractor has complied with all requirements and procedures applicable to the Contract, Escrow Agent shall release to Contractor all securities and interest on deposit less escrow fees and charges of the Escrow Account. The escrow shall be closed immediately upon disbursement of all moneys and securities on deposit and payment of fees and charges.

9. Escrow Agent shall rely on the written notifications from the Owner and the Contractor pursuant to Sections (5) to (8), inclusive, of this Agreement and the Owner and Contractor shall hold Escrow Agent harmless from Escrow Agent's release and disbursement of the securities and interest as set forth above.

10. The names of the persons who are authorized to give written notice or to receive written notice on behalf of the Owner and on behalf of Contractor in connection with the foregoing, and exemplars of their respective signatures are as follows:

On behalf of Owner:

Title

Name

Signature

Address

On behalf of Contractor:

Title

Name

Signature

Address

On behalf of Agent:

Title

Name

Signature

Address

At the time the Escrow Account is opened, the Owner and Contractor shall deliver to the Escrow Agent a fully executed counterpart of this Agreement.

IN WITNESS WHEREOF, the parties have executed this Agreement by their proper officers on the date set forth above.

OWNER

CONTRACTOR

Title

Title

Name

Name

Signature

Signature

INSURANCE DOCUMENTS & ENDORSEMENTS

The following insurance endorsements and documents must be provided to the Selma Unified School District within five (5) calendar days after receipt of notification of award. If the apparent low bidder fails to provide the documents required below, the District may award the Contract to the next lowest responsible and responsive bidder or release all bidders, and the bidder's bid security will be forfeited. All insurance provided by the bidder shall fully comply with the requirements set forth in Article 11 of the General Conditions.

1. **General Liability Insurance:** Certificate of Insurance with all specific insurance coverages set forth in Article 11 of the General Conditions, proper Project description, designation of the District as the Certificate Holder, a statement that the insurance provided is primary to any insurance obtained by the District and minimum of 30 days' cancellation notice. Bidder shall also provide required additional insured endorsement(s) designating all parties required in Article 11 of the General Conditions. The additional insured endorsement shall be an ISO CG 20 10 (04/13), or an ISO CG 20 38 (04/13), or their equivalent as determined by the District in its sole discretion.

Incidents and claims are to be reported to the insurer at:

Attn: _____
(Title) _____ (Department) _____

(Company) _____

(Street Address) _____

(City) _____ (State) _____ (Zip Code) _____
(_____) _____
(Telephone Number)

2. **Workers' Compensation/ Employer's Liability Insurance:** Certificate of Workers' Compensation Insurance meeting the coverages and requirements set forth in Article 11 of the General Conditions, minimum of 30 days' cancellation notice, proper Project description, waiver of subrogation and any applicable endorsements.

3. Automobile Liability Insurance: Certificate of Automobile Insurance meeting the coverages and requirements set forth in Article 11 of the General Conditions, minimum 30 days' cancellation notice, any applicable endorsements and a statement that the insurance provided is primary to any insurance obtained by the District.

Incidents and claims are to be reported to the insurer at:

Attn: _____
(Title) (Department)

(Company)

(Street Address)

(City) (State) (Zip Code)
(_____) _____
(Telephone Number)

DATE: _____ CONTRACTOR _____

By: _____
Signature

**DISABLED VETERAN BUSINESS ENTERPRISE (DVBE) CONTRACTOR CLOSE-
OUT STATEMENT**

The Contractor shall complete this form, as a condition to Final Payment, for purposes of reporting participation by Disabled Veteran Business Enterprises (DVBE) in the Contract for the Project/Bid No. specified below.

_____: _____

Bid No.: _____

DSA No.: _____

Name	Address/Phone	Category of Work*	\$ Amount of Contract

* Categories of work include: (1) construction services (specify services that DVBE will provide); (2) architecture and engineering services; (3) procurement of materials, supplies and equipment; and (4) information technology.

The undersigned, on behalf of the Contractor, certifies that DVBE participation on the Contract for Bid No. _____ equaled _____ dollars (\$ _____), which represents approximately _____ percent (____%) of the total Contract price including change orders for the Project.

Company: _____

Name: _____

Title: _____

Signature: _____

Date: _____

CONTRACTOR CERTIFICATION REGARDING BACKGROUND CHECKS

_____ certifies that it has performed one of the following:
[Name of contractor/consultant]

- ☐ Pursuant to Education Code section 45125.1, Contractor has conducted criminal background checks, through the California Department of Justice, of all employees providing services to the _____ District, pursuant to the contract/purchase order dated _____, and that none have been convicted of serious or violent felonies, as specified in Penal Code sections 1192.7(c) and 667.5(c), respectively.

As further required by Education Code section 45125.1, attached hereto as Attachment "A" is a list of the names of the employees of the undersigned who may come in contact with pupils.

OR

- ☐ Pursuant to Education Code section 45125.2, Contractor will ensure the safety of pupils by one or more of the following methods:
- ☐ 1. The installation of a physical barrier at the worksite to limit contact with pupils.
 - ☐ 2. Continual supervision and monitoring of all employees of the entity by an employee of the entity whom the Department of Justice has ascertained has not been convicted of a violent or serious felony.

I declare under penalty of perjury under the laws of the United States that the foregoing is true and correct.

Date _____, 2023

[Name of Contractor/Consultant]

By its: _____

ATTACHMENT A:

CONTRACTOR CERTIFICATION REGARDING BACKGROUND CHECKS

(INSERT NAMES OF EMPLOYEES WHO MAY COME IN CONTACT WITH PUPILS)

GENERAL CONDITIONS

ARTICLE 1 DEFINITIONS

1.1 BASIC DEFINITIONS

NOTE: The following shall not be construed as a comprehensive list of all definitions in the Contract Documents and there may be other definitions set forth in the Contract Documents. Additionally, any references to any DSA forms, documents or requirements shall be construed to incorporate any updates, supplements, or additions. The Contractor shall be required to meet the latest DSA requirements applicable to the Project.

1.1.1 Action of the Governing Board is a vote of a majority of the District's Governing Board.

1.1.2 Approval means written authorization through action of the Governing Board. The Governing board has delegated to the Superintendent, or designee, the authority to approve certain modifications, Change Orders or Immediate Change Directives (Subject to the limits of the Delegation of Authority provided by the Board). In no case shall the Superintendent, or designee (Assistant Superintendent), have authority to approve total Change Orders or Modifications to the Project exceeding 10% of the Contract Sum.

1.1.3 Architect means the architect, engineer, or other design professional engaged by the District to design and perform general observation of the work of construction and interpret the Drawings and Specifications for the Project. (See ARTICLE 4)

1.1.4 As-Builts are a set of Plans and Specifications maintained by the Contractor clearly showing all changes, revisions, substitutions, field changes, final locations, and other significant features of the Project. The As-Builts shall be maintained continuously throughout the Work for the Project and is both a prerequisite to the issuance of Payment Application and a requirement for Contract Close-Out. (See Article 3.17)

1.1.5 Beneficial Occupancy is the point in time when a building or buildings are fit for occupancy is fit for occupancy and its intended use. Basic requirements are the building is safe, at or near Substantial Completion, and all fire/ life safety items are approved and operational. The fact that a building is occupied does not mean that the building is ready for Beneficial Occupancy if there are elements that are unsafe or if fire/ life safety items are not approved and operational. Taking occupancy on a structure that is under a fire watch is not considered beneficial occupancy. Further, taking of Beneficial Occupancy is not a point in time when retention is due unless the entire school has obtained a Certificate of Substantial Completion that meets the definition of 1.1.46.

1.1.6 Claims. A Claim is a request for payment, supported by back-up documentation which includes, invoices time sheets, or other documents substantiating legitimacy or entitlement that is submitted during the Project or immediately following the Project made prior to the Final Retention Payment Application and prior to Final Completion of the Project. A "Claim" means a separate demand by the Contractor for (1) time extension, (2) payment of money or damages arising from Work done by or on behalf of the Contractor pursuant to the CONTRACT and payment of which is not otherwise expressly provided for or the claimant is not otherwise entitled to, or (3) and amount the payment of which is disputed by the District. (See Article 4.6)

GENERAL CONDITIONS

1.1.7 Change Order (CO). A CO is a written instrument prepared by the Architect and signed by the District (as authorized by the District's Governing Board), the Contractor, and the Architect, stating their agreement upon (1) A description of a change in the Work, (2) The amount of the adjustment in the Contract Sum, if any; and (3) The extent of the adjustment in the Contract Time, if any. (See Article 7.2)

1.1.8 Change Order Request (COR). A COR is a written request supported by backup documentation prepared by the Contractor requesting that the District and the Architect issue a CO based upon a proposed change, or a change that results in an adjustment in cost, time or both, or arising from an RFP, CCD or ICD. (See Article 7.6)

1.1.9 Close-Out means the process for Final Completion of the Project, but also includes the requirements for the DSA Certification that the Project is Complete (See DSA Certification Guide). (See Article 9.9)

1.1.10 Construction Change Document (CCD). A Construction Change Document is a DSA term that is utilized to address changes to the DSA approved Plans and Specifications. There are two types of Construction Change Documents. (1) DSA approved CCD Category A for work affecting structural, access or fire/ life safety of the Project which will require a DSA approval; and, (2) CCD Category B for work NOT affecting structural safety, access compliance or fire/ life safety that will not require a DSA approval (except to confirm that no approval is required). Both CCD Category A and Category B shall be set forth in DSA Form 140 and submitted to DSA as required. (See Article 7.3)

1.1.11 Complete/ Completion/ Final Completion means that all Work in the Contract Documents is finished, the requirements of the Contract Documents have been met, the Project has been Closed Out, and all Work has ceased on the Project. This may also be referred to as Final Completion. In most cases, the recording of a Notice of Completion shall represent Completion of the Project. Beneficial Occupancy does not mean the Work is Complete.

1.1.12 Completion Date is the date when all Work for the Project shall be Substantially Complete and is the date assigned at the end of the Contract Time for the Project. (See Article 1.1.46)

1.1.13 Construction Manager. The Construction Manager is a consultant to the District contracted to assist in Project planning, management and construction of the Project. If there is a Construction Manager, they may assist in various aspects of the Project including, but not limited to Monitoring the progress of the construction, reviewing and monitoring the schedule, progress of work, monitoring pay requests, facilitating communications, advising the District and its Board of Education on various aspects of the construction process, monitoring the RFI, COR, CCD, ICD, RFP, Claims, Disputes and other Project related processes.

1.1.14 Contract or Agreement when the terms are used in these General Conditions shall be references to the Contract Documents as defined herein.

1.1.15 Contract Documents (sometimes referred to as Construction Documents) consist of the Agreement between District and Contractor (hereinafter the Agreement or Contract), Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, Addenda issued prior to bid, instructions to bidders, notice to bidders, and the requirements contained in the Bid Documents, other documents listed in the Agreement, and Modifications issued after execution of the Contract. A Modification is a written amendment to the Contract signed by parties, a Change Order, a Construction Change Document, or a written order for a minor change in the Work issued by the Architect. The Contract Documents collectively form the Contract. The Contract represents the entire and integrated Agreement

GENERAL CONDITIONS

between the parties hereto and supersedes prior negotiations, representations, or agreements, either written or oral. The Contract may be amended or modified only by a written Modification. The Contract Documents shall not be construed to create a contractual relationship of any kind between the Architect and Contractor, between the District and any Subcontractor or Sub-subcontractor, or between any persons or entities other than the District and the Contractor. The Architect shall, however, be entitled to performance and enforcement of obligations under the Contract intended to facilitate performance of the Architect's duties.

1.1.16 Contract Time is the time period specified in the Contract Documents in which the Project shall be completed. This is sometimes referred to a Contract Duration, or "time in which the Contractor has to complete the Project". (See Article 8.1.1)

1.1.17 Contractor, District, and Architect are those mentioned as such in the Agreement. They are treated throughout the Contract Documents as if they are of singular number and neuter gender. Any reference to "Owner" shall mean "District" or Selma Unified School District.

1.1.18 Cure is the act of remedying a material failure to perform under the terms of the Contract Documents during the time provided to correct Contractor's Default. Specific time periods are provided to Cure and Correct a Contractor Default under Article 14 and for a Partial Default under Article 2.2 as well as elsewhere in the Contract Documents.

1.1.19 Days mean calendar days unless otherwise specifically stated.

1.1.20 Default is a material breach of Contract. A Termination for Cause under Article 14 is a declaration of Default of the Contract and shall act as a demand upon the Surety to perform under the terms of the Performance Bond. Partial Defaults may also be tendered to the Surety at District's discretion. (See Article 2.2)

1.1.21 Dispute. A dispute is a disagreement on terms or conditions of the Project where the Contractor's opinion of the Project, Payment, Change Order or Request for Proposal differs from that of the District or Architect. A dispute only rises to the level of a claim once the dispute is assembled with back-up documentation and presented for evaluation. (See Article 4.6)

1.1.22 District Representative is the person designated by the District to represent the District during the Construction for the Project. This District Representative shall have the delegated authority as further defined in Article 1.1.2. This District Representative may be an employee of the District who may have the delegated authority as set forth in Article 1.1.3, and may also include Construction Managers. In some cases, the District and its Board may be assisted by a Construction Manager. When a Construction Manager is assisting the District, the Contractor, Architect, and Inspector shall have a primary contact with the District's Construction Manager who will advise the District.

1.1.23 Drawings/Plans are graphic and pictorial portions of the Contract Documents prepared for the Project and approved changes thereto, wherever located and whenever issued, showing the design, location, and scope of the Work, generally including Plans, elevations, sections, details, schedules, and diagrams as drawn or approved by the Architect. Sometimes Drawings will also be included in Addenda, Change Orders, and Specifications.

1.1.24 DSA is the Division of State Architect. DSA is the agency that provides design and construction oversight for K-12 Schools, Community Colleges, and State Funded Charter School Projects. DSA is the responsible agency for this Project and Contractor has submitted a bid for the Project since

GENERAL CONDITIONS

Contractor is familiar with Contractor's responsibilities under the DSA requirements more thoroughly set forth at Title 24 of the California Code of Regulations. Contractor agrees to abide by the jurisdiction of DSA and shall construct the Project to conform with the approved Plans, Specifications, Addenda, and Change Orders (inclusive of approved CCD's and ICD's issued by the District pending CCD approval). See DSA website.

1.1.25 Emergency shall be defined as a sudden, unexpected occurrence, involving a clear and imminent threat to the continuation of school classes, a critical path delay that will result in not being able to occupy the school when students arrive to use the facility, danger from the facility or from outside the facility, Act of God, or other action which requires immediate action to prevent or mitigate loss of, or damage to, life, health, property, or essential public services.

1.1.26 Float the total number of days an activity may be extended or delayed without delaying the Completion Date shown in the schedule. Float will fall into three categories: (1) Rain Days; (2) Governmental Delays; and, (3) Project Float. (See Article 8.1.4)

1.1.27 Immediate Change Directive. (ICD) A written order prepared by the Architect and signed by the District and the Architect, directing a change in the Work where the Work must proceed immediately and stating a proposed basis for adjustment, if any, in the Contract Sum or Contract Time, or both. (See Article 7.3)

1.1.28 Inspector of Record (IOR)/ Project Inspector (PI) is the individual retained by the District in accordance with Title 24 of the California Code of Regulations and who will be assigned to the Project

1.1.29 Notice of Non-Compliance (DSA Form 154) is a document issued by the Inspector if there is a deviation from the DSA approved Plans, Specifications, and Change Orders. (See Article 7.1.2)

1.1.30 Payment Application or Certificate of Payment is the Contractor's certified representation of the actual level of Work performed on the Project. Payment Applications are sometimes also called "Certificate of Payment", "Request for Payment", "Payment Application", or similar terms, and shall follow the Schedule of Values that are approved by the Architect, Inspector and District. (See Article 9.3)

1.1.31 Project is the complete construction of the Work performed in accordance with the Contract Documents.

1.1.32 Project Manual is the volume assembled for the Work which may include, without limitation, the bidding requirements, sample forms, Conditions of the Contract, and Specifications.

1.1.33 Provide shall include "provide complete in place," that is "furnish and install complete."

1.1.34 Punch List/ Punch Item/ Incomplete Punch Item is a list of minor repair items, prepared after the issuance of a Certificate of Substantial Completion, by the Inspector and Architect of Work required in order to complete the Contract Documents and ensure compliance with the DSA Approved Plans so the Project may be Closed Out. Issuance of the Retention Payment is dependent of the proper completion of the Punch List. (See Article 9.9)

1.1.34.1 *Contractor's List of Punch Items* is a list of minor repair items the Contractor submits when the Contractor considers the Work Substantially Complete. Submission of this List of

GENERAL CONDITIONS

Incomplete Punch Items is the Contractor's representation that the Project is Substantially Complete. (See Article 9.9.1.1)

1.1.35 Request for Information (RFI) is a written request prepared by the Contractor requesting the Architect to provide additional information necessary to clarify or amplify an item which the Contractor believes is not clearly shown or called for in the Drawings or Specifications, or to address problems which have arisen under field conditions. (See Article 7.4)

1.1.36 Request for Proposal (RFP) is a written request prepared by the Architect (and/or CM) requesting the Contractor to submit to an estimate of the effect of a proposed change on the Contract Price and (if applicable) the Contract Time. (See Article 7.5)

1.1.37 Safety Orders are those issued by any city, county, state or federal agency having jurisdiction over the Project.

1.1.38 Schedule is the Contractor's view of the practical way in which the Work will be accomplished. In this Agreement there is a requirement for a Baseline Schedule and regular Schedule Updates that show all Work to be completed during the Contract Time and shall include all items listed under Article 8.3.2.9. See Article 8 of the General Conditions.

1.1.39 Schedule of Values is a detailed breakdown of the Contract Price for each Project, building, Phase of Work or Site as determined by the District. This Schedule of Values shall adequately detail the price for the Work so Progress Payments Applications can be meaningfully reviewed by the Inspector, Architect of Record, Engineer of Record, and District. (See Article 9.2)

1.1.40 Separate Contracts are Contracts that the District may have with other Contractors, vendors, suppliers, or entities to perform Work on the Project. This may include, but is not limited to Multi-Prime Trade Contractors, furniture installers, testing agencies, clean-up contractors, or network or low voltage contractors. Contractor shall plan for certain other contractors that may also be working on the Project site and address these other contractors in Contractor's Schedule. (See Article 6)

1.1.41 Site refers to the grounds of the Project as defined in the Contract Documents and such adjacent lands as may be directly affected by the performance of the Work.

1.1.42 Specifications are that portion of the Contract Documents consisting of the written requirements for material, equipment, construction systems, instructions, quality assurance standards, workmanship, and performance of related services.

1.1.43 Standards, Rules, and Regulations referred to are recognized printed standards and shall be considered as one and a part of these Specifications within limits specified. Federal, state and local regulations are incorporated into the Contract Documents by reference.

1.1.44 Stop Work Order, or an Order to Comply, is issued when either (1) the Work proceeds without DSA approval; (2) the Work proceeds without a DSA Inspector of Record, or (3) where DSA determines that the Work is not being performed in accordance with applicable rules and regulations, and would compromise the structural integrity of the Project or would endanger lives. If a Stop Work Order is issued, the Work in the affected area shall cease until DSA withdraws the Stop Work Order. Pursuant to Education Code section 17307.5(b), the District shall not be held liable in any action filed against the District for any delays caused by compliance with the Stop Work Order

GENERAL CONDITIONS

1.1.45 Subcontractor, as used herein, includes those having direct or indirect contracts with Contractor and ones who furnished labor, material or services for a special design according to Plans, Drawings, and Specifications of this Work.

1.1.46 Substantial Completion/ Substantially Complete(d) is not reached unless and until each of the following four (4) conditions have been met: (1) all contractually required items have been installed with the exception of only minor and Incomplete Punch List Items (See Article 9.9.1.2); (2) All Fire/Life Safety Systems have been installed, and are working and signed off on the DSA Form 152 Inspection Card, and all building systems including mechanical, electrical and plumbing are all functioning; (3) all other items DSA Form 152 Inspection Card for the Project have been approved and signed off; and (4) the Project is fit for occupancy and its intended use. For the purposes of this Contract, any references to Completion Date means Substantial Completion Date.

1.1.47 Substitution is a change in product, material, equipment, or method of construction from those required by the Construction Documents proposed by the Contractor. For this Project, a Substitution is subject to the filing of a Construction Substitution Request Form at the time of bid and meeting the requirements of Article 3.10.

1.1.48 Supplementary Conditions/ Supplementary General Conditions/ Special Conditions are terms that are sometimes used interchangeably and refer to any additional requirements or changes to the General Conditions as noted.

1.1.49 Surety is the person, firm, or corporation that executes as a bid bond, Payment Bond or Performance Bond guarantor on the Contractor's Bid, Contractor's Performance on the Contract and Payment of the Contractor's Subcontractors, material suppliers, vendors and labor on the Project. The Surety is bound to the same extent as the Contractor is bound once a Default occurs. A default includes a Termination for Substantial Failure to Perform under Article 14, but also includes any breach of Contract and is subject to the requirements and responsibilities as set forth in the Performance Bond.

1.1.50 Work shall include all labor, materials, services and equipment necessary for the Contractor to fulfill all of its obligations pursuant to the Contract Documents. It shall include the initial obligation of any Contractor or Subcontractor who performs any portion of the Work, to visit the Site of the proposed Work (a continuing obligation after the commencement of the Work), to fully acquaint and familiarize itself with the conditions as they exist and the character of the operations to be carried out under the Contract Documents, and make such investigation as it may see fit so that it shall fully understand the facilities, physical conditions, and restrictions attending the Work under the Contract Documents. Each such Contractor and its Subcontractors shall also thoroughly examine and become familiar with the Drawings, Specifications, and associated Contract Documents and bid documents before preparing and submitting any bid.

1.1.51 Workers include laborers, workers, and mechanics.

1.2 EXECUTION, CORRELATION AND INTENT

1.2.1 Correlation and Intent

1.2.1.1 *Documents Complementary and Inclusive.* The Contract Documents are complementary and are intended to include all items required for the proper execution and completion of the Work. All Contract Documents form the Contractor's Contract with the District. Any item of Work mentioned in the Specifications and not shown on the Drawings or shown on the Drawings and not

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mentioned in the Specifications, shall be provided by Contractor as if shown or mentioned in both. The Contractor is bound to provide the Work complete and is under a legal duty to carefully study Plans and schedule operations well ahead of time and identify inconsistencies with the Plans and Specifications and call such inconsistencies to the attention of the Architect or Registered Engineer through the Inspector under Section 4-343(b) of Title 24.

1.2.1.2 *Work to be Complete.* Contractor has thoroughly studied the Contract Documents and understands that the District contracted with Contractor to provide a complete Project which means complete systems and buildings. The entire set of Contract Documents shows a complete Project and Contractor agrees that there are multiple disciplines putting together a set of Contract Documents. Thus, if portions of a system are shown on some Drawings and not others, this does not mean the Contractor is to only provide part of a system. For example, if an air conditioning unit is shown on the mechanical Drawings, the plumbing for the air conditioning is shown on another Drawing, and the electrical shown on the electrical Drawings, the Contractor is to provide a complete and working air conditioning system. The only time when an item is supplied incomplete is if the system is shown specifically as incomplete since others will be completing the system. Work includes, but is not limited to materials, workmanship, and manufacture of fabrication of components for the Project.

1.2.1.3 *Coverage of the Drawings and Specifications.* The Drawings and Specifications generally describe the Work to be performed by Contractor. Generally, the Specifications describe Work which cannot be readily indicated on the Drawings and indicate types, qualities, and methods of installation of the various materials and equipment required for the Work. It is not intended to mention every item of Work in the Specifications, which can be adequately shown on the Drawings, or to show on the Drawings all items of Work described or required by the Specifications even if they are of such nature that they could have been shown. All materials or labor for Work, which is shown on either the Drawings or the Specifications (or is reasonably inferable therefrom as being necessary to complete the Work), shall be provided by the Contractor. The Contractor is responsible for the whole Project as contractually set forth as the Contract Documents. It is intended that the Work be of sound, quality construction, and the Contractor shall be responsible for the inclusion of adequate amounts to cover installation of all items indicated, described, or implied in the portion of the Work to be performed by them.

1.2.1.4 *Conflicts.* In the event there is a discrepancy between the various Contract Documents, it is intended that the more stringent, higher quality, and greater quantity of Work shall apply.

1.2.1.5 *Conformance with Laws.* Each and every provision of law required by law to be inserted in this Contract shall be deemed to be inserted herein, and the Contract shall be read and enforced as though it were included herein, even if through mistake or otherwise any such provision is not inserted, or is not correctly inserted.

Before commencing any portion of the Work, Contractor shall check and review the Drawings and Specifications for such portion for conformance and compliance with all laws, ordinances, codes, rules and regulations of all governmental authorities and public and municipal utilities affecting the construction and operation of the physical plant of the Project, all quasi-governmental and other regulations affecting the construction and operation of the physical plant of the Project, and other special requirements, if any, designated in the Contract Documents. Such checking shall include review of Title 24 of the California Code of Regulations, California Building Code, local utility, local water connection, local grading and all other applicable agencies. In the event Contractor observes any violation of any law, ordinance, code, rule or regulation, or inconsistency with the Contract Documents, Contractor shall, within five (5) days, notify the Inspector, Architect and District in writing of same and shall ensure

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that any such violation or inconsistency shall be corrected in the manner provided hereunder prior to the construction of that portion of the Project. (See Title 24 Section 4-343)

The Contractor shall bear all expenses of correcting Work done contrary to said laws, ordinances, rules, and regulations if the Contractor performed same (1) without first consulting the Architect for further instructions regarding said Work or (2) disregarded the Architect's instructions regarding said Work.

1.2.1.6 *Ambiguity and Inconsistency.* Before commencing any portion of the Work, Contractor shall carefully examine all Drawings and Specifications and other information given to Contractor as to materials and methods of construction and other Project requirements. Prior to commencing any portion of the Work, Contractor shall notify Architect and District in writing of any perceived or alleged error, inconsistency, conflict, ambiguity, or lack of detail or explanation in the Drawings and Specifications in the manner provided herein. If the Contractor or its Subcontractors, material or equipment suppliers, or any of their officers, agents, and employees performs, permits, or causes the performance of any Work under the Contract Documents, which it knows or should have known to be in error, inconsistent, or ambiguous, or not sufficiently detailed or explained, Contractor shall bear any and all costs arising therefrom including, without limitation, the cost of correction thereof without increase or adjustment to the Contract Price or the time for performance. Contractor shall maintain an adequate inspection system and perform personal observations and review work and pre-plan the project to ensure the Work performed under the Contract conforms to Contract requirements. Contractor shall maintain records of such review and observation to ensure strict compliance with the terms of the Contract.

1.2.1.7 *Typical Parts and Sections.* Whenever typical parts or sections of the Work are completely detailed on the Drawings, and other parts or sections which are of the same construction are shown in outline only, the complete or more detailed shall apply to the Work which is shown in outline.

1.2.1.8 *Dimensions.* Dimensions of Work shall not be determined by scale or rule. Figured dimensions shall be followed at all times. If figured dimensions are lacking on Drawings, Architect shall supply them on request. The Architect's decisions on matters relating to aesthetic effect will be final.

1.2.2 Addenda and Deferred Approvals

1.2.2.1 *Addenda* are the changes in Specifications, Drawings, Contract Documents, and Plans which have been authorized in writing by the District or Architect, and which alter, explain, or clarify the Contract Documents. Addenda shall govern over all other Contract Documents. Subsequent addenda issued shall govern over prior addenda unless otherwise specified in the addenda.

1.2.2.2 *Deferred Approvals.* Deferred Approvals are Submittals that are reviewed by the Architect (or Engineer of Record) and submitted to DSA for approval based on thorough detailing of manufacturer and Project specific design. See Article 3.9.1 and 3.9.3. The Deferred Approval item cannot be fully detailed on the originally approved Drawings or Specifications because of variations in product design and manufacture. Contract Documents which require Deferred Approval items are meant to be for illustration purposes only. Approval of Plans for such a portion of the Work may be deferred until the material suppliers and Subcontractors are selected. All Deferred Approvals are noted in the Plans and Specifications. Contractor is responsible for all Deferred Approval requirements set forth in the Contract Documents. Contractor is responsible to comply with all laws, building codes, Title 24 and regulations necessary to obtain all necessary approvals, including those required from the Division of the State Architect ("DSA") and the State Fire Marshall. Contractor shall not be granted an extension of time for

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failure to plan, schedule for and obtain necessary approvals. Contractor shall Schedule all Deferred Approval items in the Baseline Schedule and Schedule Updates under Article 3.9.6

1.2.3 Specification Interpretation

1.2.3.1 *Titles.* The Specifications are separated into titled sections for convenience only and not to dictate or determine the trade or craft involved.

1.2.3.2 *As Shown, Etc.* Where “as shown,” “as indicated,” “as detailed,” or words of similar import are used, reference is made to the Drawings accompanying the Specifications unless otherwise stated. Where “as directed,” “as required,” “as permitted,” “as authorized,” “as accepted,” “as selected,” or words of similar import are used, the direction, requirement, permission, authorization, approval, acceptance, or selection by Architect is intended unless otherwise stated.

1.2.3.3 *General Conditions.* The General Conditions and Supplementary General Conditions are a part of the Contract Documents which further defines and refines the Contract entered between the Contractor and District.

1.2.3.4 *Abbreviations.* In the interest of brevity, the Specifications are written in an abbreviated form and may not include complete sentences. Omission of words or phrases such as “Contractor shall,” “shall be,” etc., are intentional. Nevertheless, the requirements of the Specifications are mandatory. Omitted words or phrases shall be supplied by inference in the same manner as they are when a “note” occurs on the Drawings. In the interest of brevity, the Contract Documents frequently omit modifying words such as “all” and “any” and articles such as “the” and “an,” but the fact that a modifier or an article is absent from one statement and appears in another is not intended to affect the interpretation of either statement.

1.2.3.5 *Plural.* Words in the singular shall include the plural whenever applicable or the context so indicates.

1.2.3.6 *Metric.* The Specifications may indicate metric units of measurement as a supplement to U.S. customary units. When indicated thus: 1” (25 mm), the U. S. customary unit is specific, and the metric unit is nonspecific. When not shown with parentheses, the unit is specific. The metric units correspond to the “International System of Units” (SI) and generally follow ASTM E 380, “Standard for Metric Practice.”

1.2.3.7 *Standard Specifications.* Any reference to standard specifications of any society, institute, association, or governmental authority is a reference to the organization’s standard specifications, which are in effect at the date of the Contractor’s proposal unless directed otherwise. If applicable specifications are revised prior to completion of any part of the Work, the Contractor may, if acceptable to Architect, perform such Work in accordance with the revised specifications. The standard specifications, except as modified in the Specifications for the Project, shall have full force and effect as though printed in the Specifications. Architect will furnish, upon request, information as to how copies of the standard specifications referred to may be obtained.

1.2.4 Rules of Document Interpretation

1.2.4.1 In the event of conflict within the Drawings, the following rules shall apply:

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- a. General Notes, when identified as such, shall be incorporated into other portions of Drawings.
- b. Schedules, when identified as such, are complementary with other notes and other portions of Drawings including those identified as General Notes.
- c. Larger scale Drawings shall take precedence over smaller scale Drawings.
- d. At no time shall the Contractor base construction on scaled Drawings.

1.2.4.2 Specifications shall govern as to materials, workmanship, and installation procedures.

1.2.4.3 If Contractor observes that Drawings and Specifications are in conflict, Contractor shall, prior to commencing work, notify the Architect in writing for the purposes of obtaining an interpretation of the Contract Documents.

1.2.4.4 In the case of conflict or inconsistencies, the order of precedence shall be as follows:

- a. General Conditions take precedence over Drawings and Specifications.
- b. Supplemental Conditions take precedence over General Conditions.
- c. The Agreement Form shall take precedence over the Supplemental Conditions.
- d. In the case of disagreement or conflict between or within Specifications, and Drawings, the more stringent, higher quality, and greater quantity of Work shall apply.
- e. Addenda shall take precedence over Drawings and Specifications.
- f. General Conditions shall take precedence over Addenda.
- g. Drawings and Specifications take precedence over the Soils Report.

1.3 OWNERSHIP AND USE OF ARCHITECT'S DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS

The Drawings, Specifications, and other Contract Documents for the Project are the property of the District and/or Architect pursuant Contract requirements between the District and Architect. The Contractor may retain one Contract record set. Neither the Contractor nor any Subcontractor, or material or equipment supplier shall own or claim a Copyright in the Drawings, Specifications, and other documents prepared by the Architect. All copies except the Contractor's record set, shall be returned or properly accounted for upon completion of the Work. The Drawings, Specifications, and other documents prepared by the Architect, and copies thereof furnished to the Contractor are not to be used by the Contractor or any Subcontractor, Sub-subcontractor, or material or equipment supplier on other projects or for additions to this Project outside the scope of the Work. The District and/or Architect hereby grants the Contractor,

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Subcontractors, Sub-subcontractors, and material or equipment suppliers a limited license to use applicable portions of the Drawings, Specifications, and other documents prepared for the Project in the execution of their Work under the Contract Documents. Submittal or distribution to meet official regulatory requirements or for other purposes in connection with this Project is not to be construed as publication in derogation of the District's property interest or other reserved right.

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ARTICLE 2 DISTRICT

2.1 INFORMATION AND SERVICES REQUIRED OF THE DISTRICT

2.1.1 Site Survey

The District will furnish, at its expense, a legal description of the Site and a land survey showing the boundaries of the Site. Contractor shall be responsible for all surveys regarding location of construction, grading and site work.

2.1.2 Soils

When required by the scope of the Project, the District will furnish, at its expense, the services of geotechnical engineers or consultants when reasonably required and deemed necessary by the Architect or as required by local or state codes. Such services, with written reports and appropriate written professional recommendations, may include test boring, test pits, soil bearing values, percolation tests, air and water pollution tests, and ground corrosion and resistivity tests, including necessary operations for determining subsoil, air, and water conditions.

2.1.3 Soils Report Part of the Contract Documents: Contractor Reliance

A soils investigation report has been obtained from test holes at the Site, and such report is incorporated into this Contract and made available for the Contractor's use in preparing its bid and Work under this Contract. Where the Plans and Specifications are more specific and provide more significant structure, systems, reinforcing, thicknesses, or construction methods, the Drawings shall control over the soils report. The soils report is available at the Architect's office for review and it is Contractor's responsibility to ensure that Contractor has reviewed the soils investigation report. Any information obtained from such report or any other information given on Drawings as to subsurface soil condition or to elevations of existing grades or elevations of underlying rock is approximate only. If, during the course of Work under this Contract, Contractor encounters subsurface conditions which differ materially from those indicated in the soils report, then Contractor shall notify the District within five (5) calendar days of discovery of the condition, and changes to the Contract Price may be made in accordance with Article 7 entitled "Changes in the Work." Contractor agrees that no claim against District will be made by Contractor for damages and hereby waives any rights to damages in the event the Contractor fails to notify District within the five-day period mentioned above.

WARNING: DISTRICT DOES NOT WARRANT THE SOILS AT THE PROJECT SITE. CONTRACTOR HAS REVIEWED AND IS FAMILIAR WITH THE REQUIREMENTS OF THE SOILS INVESTIGATION REPORT. CONTRACTOR UNDERSTANDS THAT PLANS, DRAWINGS AND SPECIFICATIONS SUPERSEDE THE SOILS REPORT IF THERE ARE CONFLICTS. FURTHER, IN ADDITION TO THE INFORMATION IN THE SOILS REPORT, CONTRACTOR HAS CONDUCTED AN INDEPENDENT INVESTIGATION OF THE PROJECT SITE AND THE SOILS CONDITIONS OF THE SITE. DISTRICT DOES NOT WARRANT THE SOILS CONDITIONS OF THE SITE AND CONTRACTOR IS FULLY RESPONSIBLE TO ASCERTAIN SITE CONDITIONS FOR THE PURPOSES OF DETERMINING CONSTRUCTION MEANS AND METHODS PRIOR TO COMMENCING CONSTRUCTION.

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2.1.4 Utilities

2.1.4.1 *Location of Point of Connection.* The locations shown for the point of connection are approximate. It shall be the responsibility of the Contractor to determine the exact location of all service connections.

2.1.4.2 *Regional Notification Center.* Contractor, except in an emergency, shall contact the appropriate regional notification center at least two (2) business days prior to commencing any excavation if the excavation will be conducted in an area or in a private easement which is known, or reasonably should be known, to contain subsurface installations other than the underground facilities owned or operated by the District, and obtain an inquiry identification number from that notification center. See Government Code section 4216.3. No excavation shall be commenced and carried out by the Contractor unless such an inquiry identification number has been assigned to the Contractor or any Subcontractor of the Contractor and the District has been given the identification number by the Contractor. Any damages arising from failure to make appropriate regional notification shall be at the sole risk of Contractor. Contractor shall solely be responsible for any fines, penalties or damages for violation of this Article and Government Code section 4216.6 or 4216.7. Any delays caused by failure to make appropriate regional notification shall be at the sole risk of Contractor and shall not be considered for extension of time pursuant to Article 8.4.

2.1.4.3 *Utilities - Removal and Restoration.* The District has endeavored to determine the existence of utilities at the Site of the Work from the records of the District of known utilities in the vicinity of the Work. The positions of these utilities as derived from such records are shown in the Contract Documents. Thus, the locations of the main or trunklines located on the Drawings are approximate locations and not exact.

No excavations were made to verify the locations shown for underground utilities. Other than the main or trunkline, which the District has endeavored to locate on the Plans, service connections or laterals to these utilities may not be shown on the Plans. It shall be the responsibility of the Contractor to determine the exact location of all service connections. The Contractor shall make its own investigations, including exploratory excavations, to determine the locations and type of service connections, prior to commencing work which could result in damage to such utilities. The Contractor shall immediately notify the District's representative as to any utility main or trunkline discovered by Contractor in a different position than provided by the Regional Notification Center. With respect to main or trunklines, Contractor is to immediately notify District if the location is substantially different than as shown in the Contract Documents.

Contractor shall coordinate its Work with all utilities, including, but not limited to electricity, water, gas and telephone and meet with said utilities prior to the start of any work. Contractor shall show timing of all utility coordination activities under the Scheduling requirements of Article 8.

2.1.4.4 *Other Utilities.* In case it should be necessary to remove, relocate, or temporarily maintain a utility because of interference with the Work, the work on the utility shall be performed and paid for as follows:

When it is necessary to remove, relocate or temporarily maintain a service connection, the cost of which is not required to be borne by the owner of the service connection, the Contractor shall bear all expenses incidental to the work on the service connection. The work on the service connection shall be done in a manner satisfactory to the owner thereof; it being understood that the owner

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of the service connection has the option of doing such work with his own forces or permitting the work to be done by the Contractor.

When it is necessary to remove, relocate, or temporarily maintain a utility which is in the position shown on the Plans, the cost of which is not required to be borne by the owner thereof, the Contractor shall bear all expenses incidental to the work on the utility. The work on the utility shall be done in a manner satisfactory to the owner thereof; it being understood that the owner of the utility has the option of doing such work with his own forces or permitting the work to be done by the Contractor.

When it is necessary to remove, relocate, or temporarily maintain a utility which is not shown on the Plans or is in a position different from that shown on the Plans and were it in the position shown on the Plans would not need to be removed, relocated, or temporarily maintained, and the cost of which is not required to be borne by the owner thereof, the District will make arrangements with the owner of the utility for such work to be done at no cost to the Contractor, or will require the Contractor to do such work in accordance with Article 7 or will make changes in the alignment and grade of the Work to obviate the necessity to remove, relocate, or temporarily maintain the utility. Changes in alignment and grade will be ordered in accordance with Article 7 herein.

No representations are made that the obligations to move or temporarily maintain any utility and to pay the cost thereof is or is not required to be borne by the owner of such utility, and it shall be the responsibility of the Contractor to investigate to find out whether said cost is required to be borne by the owner of the utility.

The right is reserved to governmental agencies and to owners of utilities to enter at any time upon any street, alley, right-of-way, or easement for the purpose of making changes in their property made necessary by the Work and for the purpose of maintaining and making repairs to their property.

2.1.5 Existing Utility Lines; Removal, Relocation

2.1.5.1 *Main or Trunkline Facilities.* If the Contractor while performing the Contract discovers utility facilities not identified in the Contract Documents, Contractor shall notify the District and utility in writing prior to commencing work.

The owner of the public utility shall have the sole discretion to perform repairs or relocation work or permit the Contractor to do such repairs or relocation work at a reasonable price.

The Contractor shall exercise reasonable care and shall be compensated by the District for the actual verified field costs of locating, and removing, relocating, protecting or temporarily maintaining such main or trunkline utility facilities located in a substantially different location than in the Plans and Specifications, and for equipment in use on the project necessarily idled during such work. This Work shall be performed in accordance with Article 7 of these General Conditions.

2.1.5.2 *Assessment.* Nothing in these subparagraphs shall be deemed to require the District to indicate the presence of existing service laterals or appurtenances whenever the presence of such utilities on the Site can be inferred from the presence of other visible facilities, such as buildings, or meter junction boxes on or adjacent to the Site and could be inferred from the Main or Trunkline shown on the Drawings.

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2.1.5.3 *Notification.* If the Contractor, while performing Work under this Contract, discovers utility facilities not identified by the District in the Contract Documents. Contractor shall, within five (5) days, notify the District and the utility in writing. If Contractor fails to notify the District within forty-eight hours after discovery of any utility facilities not identified by District in the Contract Documents, Contractor waives all rights to be compensated for any extra Work or damages resulting from such discovered utilities.

2.1.6 Easements

District shall secure and pay for easements for permanent structures or permanent changes in existing facilities, if any, unless otherwise specified in the Contract Documents.

2.2 DISTRICT'S RIGHT TO CARRY OUT THE WORK DUE TO PARTIAL DEFAULT IN A SPECIFIC SEGREGATED AREA OF WORK (48 HOUR NOTICE TO CURE AND CORRECT)

If the Contractor Defaults or neglects to carry out the Work in accordance with the Contract Documents, the District may provide forty-eight (48) hour written notice to cure (a shorter period of time in the case of Emergency or a critical path delay as defined in Article 2.2.1) Contractor's Partial Default in a specific segregated area of work. The District's right to issue a Partial Default of the Contractor's Work and take over that segregated area of Work includes, but is not limited to:

1. Failure to supply adequate workers on the entire Project or any part thereof;
2. Failure to supply a sufficient quantity of materials;
3. Failure to perform any provision of this Contract;
4. Failure to comply with safety requirements, or due to Contractor is creation of an unsafe condition;
5. Cases of bona fide emergency;
6. Failure to order materials in a timely manner;
7. Failure to prepare Deferred Approval items or Shop Drawings in a timely manner;
8. Failure to comply with Contractor's Baseline or Update Schedule, meet critical Milestones which would result in a delay to the critical path, or delay the Contract Time;
9. Failure to comply with the Subletting and Subcontracting Fair Practices, Public Contract Code section 4100, et seq.
10. Failure to meet the requirements of the Americans with Disabilities Act;
11. Failure to complete Punch List work;
12. Failure to proceed on an Immediate Change Directive
13. Failure to correct a Notice of Deviation

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If during the forty-eight (48) hour period, the Contractor fails to Cure and correct the deficiency noted in the 48-hour notice of Partial Default with diligence and promptness, the District may correct such deficiencies without prejudice to other remedies the District may have, including a Termination for Cause as set forth in Article 14. If there are inadequate funds remaining the Project balance or in the Retention Escrow to address at least 150% of the costs set forth in the Article 2.2 notice, the District may copy the Surety on the written notice of Partial Default. If a notice to the Surety is provided, except in the cases of emergency or critical path delay, the Surety has the option to take over and complete the Work described in the written notice if Surety personally delivers notice to District that it intends to perform such work. In the case where written notice has been provided, the District shall allow Surety seven (7) days to perform the Work.

2.2.1 Service of Notice of Partial Default with Right to Cure

A written notice of Partial Default and right to cure under Article 2.2 (“Article 2.2 Notice” or “Notice of Partial Default”) shall be served by e-mail (with a copy provided by regular mail) to the e-mail address provided on the Bid submitted and copied to the Project Superintendent.

2.2.2 Shortened Time for Partial Default in the Case of Emergencies.

In an Emergency situation, the District may correct any of the deficiencies described in Article 2.2 without prejudice to other remedies by providing service of written notice of Emergency requiring a shortened time for Partial Default specifying the time given to cure, if any.

2.2.3 Shortened Time for Partial Default in the Case of Critical Path Delay

In the case of critical path delay, the District may correct any of the deficiencies described in Article 2.2 without prejudice to other remedies providing service of written notice of critical path delay to the Contractor with a specific description of the critical path delay items noting the line item or area of Work that is on the critical path and prescribe the length of shortened time to cure, if any.

2.2.4 Written Notice of Partial Default to be Deducted by Deductive Change Order

The District shall have the right to determine the reasonable value of the Article 2.2 Partial Default Work, or if there is an actual value for the Work, shall use that value and issue a Deductive Change Orders under Article 7.7.4

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ARTICLE 3 THE CONTRACTOR

3.1 SUPERVISION AND CONSTRUCTION PROCEDURES

3.1.1 Contractor

The Contractor shall continually supervise and direct the Work using the Contractor's best skill and attention. The Contractor shall be solely responsible for and have control over construction means, methods, techniques, sequences, procedures; and shall coordinate all portions of the Work under the Contract, unless the Contract Documents give other specific instructions concerning these matters. The Contractor shall not perform the Work without utilizing the Contract Documents or, where required, approved Submittals, Shop Drawings, or samples for any such portion of the Work. If any of the Work is performed by contractors retained directly by the District, Contractor shall be responsible for the coordination and sequencing of the work of those other contractors so as to avoid any impact on the Project Schedule pursuant to the requirements of Article 6 and Article 8. Specific duties of the Contractor shall include those set out in Section 43 of Title 21 of the California Code of Regulations and Section 4-343 of Title 24 of the California Code of Regulations. These duties include, but are not limited to the following:

3.1.1.1 *Responsibilities.* It is the duty of the Contractor to complete the Work covered by his or her Contract in accordance with the approved Plans and Specifications. The Contractor in no way is relieved of any responsibility by the activities of the Architect, Engineer, Inspector or DSA in the performance of their duties.

3.1.1.2 *Performance of the Work.* The Contractor shall carefully study the approved Plans and Specifications and shall plan its schedule of operations well ahead of time. If at any time it is discovered that work is being done which is not in accordance with the approved Plans and Specifications, the Contractor shall correct the Work immediately.

3.1.2 Contractor Responsibility to Study the Plans and Specifications

All inconsistencies or timing or sequences which appear to be in error in the Plans and Specifications shall promptly be called to the attention of the Architect or, Engineer, for interpretation or correction. Local conditions which may affect the structure shall be brought to the Architect's attention at once. In no case, shall the instruction of the Architect be construed to cause work to be done which is not in conformity with the approved Plans, Specifications, change orders, construction change documents, and as required by law. (See Title 24, Section 4-343)

3.1.3 All Work Under the Direction of Inspector

Pursuant to Title 24 requirements, the Contractor shall not carry on Work except with the knowledge of the Inspector. (See Title 24 generally)

3.1.4 Contractor to Establish Timing and Protocol with Inspector

Contractor shall establish a protocol for requesting inspection with Inspector so as to not delay the Work and provide adequate time for the Inspector to perform inspection. If such a protocol is not established ahead of time, Inspector may utilize the time criteria set by Title 24 of 48 hours in advance of submitting form DSA 156 for each new area. DSA requirements under PR 13-01 specifically gives the

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Special Inspector fourteen (14) days to post to the DSA website. Contractor is responsible for delays and for failure to plan.

For some Projects, there may be a need to incrementally install certain assemblies. It is up to Contractor to identify areas and assemblies that may be constructed incrementally. Contractor must identify and establish incremental areas of construction and establish protocols with Inspector for DSA 152 approvals so they may be presented to DSA. (See PR-13 item 1.17 for further discussion)

3.1.5 Verified Reports

The Contractor shall make and submit to the office from time to time, verified reports as required in Title 24 Section 4-366. As part of the Close-Out of the Project (see Article 9.9), Contractor shall be required to execute a Form 6-C as required under Title 24 Sections 4-343.

Contractor shall fully comply with any and all reporting requirements of Education Code sections 17315, et seq., in the manner prescribed by Title 24, as applicable.

3.1.6 Contractor Responsibility

The Contractor shall be responsible to the District for acts and omissions of the Contractor's employees, Subcontractors, material and equipment suppliers, and their agents, employees, invitees, and other persons performing portions of the Work under direct or indirect contract with the Contractor or any of its Subcontractors.

3.1.7 Obligations not Changed by Architect's Actions

The Contractor shall not be relieved of obligations to perform the Work in accordance with the Contract Documents either by activities or duties of the Architect in the Architect's administration of the Contract or by tests, inspections, or approvals required or performed by persons other than the Contractor.

3.1.8 Acceptance/Approval of Work

The Contractor shall be responsible to determine when any completed portions of the Work already performed under this Contract or provided pursuant to Article 6 are suitable to receive subsequent Work thereon.

3.2 SUPERVISION

3.2.1 Full Time Supervision

Unless personally present on the Project site where the Work is being performed, the Contractor shall keep on the Work at all times during its progress a competent, English speaking construction Superintendent satisfactory to the District. The Superintendent shall be present on a full-time basis, shall be dedicated exclusively to the Project and shall not share superintendency duties with another project or job. The Superintendent shall not be replaced except with written consent of the District. The Superintendent shall represent the Contractor in its absence and shall be fully authorized to receive and fulfill any instruction from the Architect, the Inspector, the District or any other District Representative (including CM in the cases where the District has a CM representative). All Requests for Information shall be originated by the Superintendent and responses thereto shall be given to the Superintendent. No Work

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shall begin on any day by any Subcontractor or other person on the Project site until the Superintendent has arrived, or shall any Work continue during the day after the Superintendent has departed from the Project site. The Superintendent shall have authority to bind Contractor through the Superintendent's acts. The Superintendent shall represent the Contractor, and communications given to the Superintendent shall be binding on the Contractor. Before commencing the Work, Contractor shall give written notice to District (and CM representative) and Architect of the name and a Statement of Qualifications of such superintendent. Superintendent shall not be changed except with written consent of District, unless a superintendent proves to be unsatisfactory to Contractor and ceases to be in its employ, in which case, Contractor shall notify District and Architect in writing. Contractor shall provide a replacement superintendent approved by the District prior to performing additional work.

3.2.2 Staff

Notwithstanding other requirements of the Contract Documents, the Contractor and each Subcontractor shall: (1) furnish a competent and adequate staff as necessary for the proper administration, coordination, supervision, and superintendence of its portion of the Work; (2) organize the procurement of all materials and equipment so that the materials and equipment will be available at the time they are needed for the Work; and (3) keep an adequate force of skilled and fit workers on the job to complete the Work in accordance with all requirements of the Contract Documents.

3.2.3 Right to Remove

District shall have the right, but not the obligation, to require the removal from the Project of any superintendent, staff member, agent, or employee of any Contractor, Subcontractor, material or equipment supplier.

3.3 LABOR AND MATERIALS

3.3.1 Contractor to Provide

Unless otherwise provided in the Contract Documents, the Contractor shall provide and pay for labor, material, equipment, tools, construction equipment and machinery, water, heat, air conditioning, utilities, transportation, and other facilities, services and permits necessary for proper execution and completion of the Work whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

3.3.2 Quality

Unless otherwise specified, all materials and equipment to be permanently installed in the Project shall be new and shall be of the highest quality or as specifically stated in the Contract Documents. The Contractor shall, if requested, furnish satisfactory evidence as to kind and quality of all materials and equipment within ten (10) days of a written request by the District, including furnishing the District with bona fide copies of invoices for materials or services provided on the Project. All labor shall be performed by workers skilled in their respective trades, and shall be of the same or higher quality as with the standards of other school construction.

3.3.3 Replacement

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Any work, materials, or equipment, which do not conform to these requirements or the standards set forth in the Contract Documents, may be disapproved by the District, in which case, they shall be removed and replaced by the Contractor at no additional cost or extension of time to the District.

3.3.4 Discipline

The Contractor shall enforce strict discipline and good order among the Contractor's and Subcontractor's employees, and other persons carrying out the Contract. The Contractor shall not permit employment of unfit persons or persons not skilled in tasks assigned to them. As used in this subsection, "unfit" includes any person who the District concludes is improperly skilled for the task assigned to that person, who fails to comply with the requirements of this article, or who creates safety hazards which jeopardize other persons and/or property.

3.3.5 Fingerprinting (Applicable at the time Project is Occupied and, on all Projects, where Workers will come in Contact with Pupils, such as Modernization Projects)

If applicable, Contractor shall comply with the applicable provisions of Education Code section 45125.1 in a method as determined by the District. Pursuant to Education Code section 45125.1, Contractor shall either conduct criminal background checks of all employees of Contractor assigned to the Project site, and shall certify that no employees who have been convicted of serious or violent felonies, as specified in Education Code section 45125.1, will have contact with pupils, by utilizing the Certification Regarding Background Checks and the corresponding Attachment "A" as found in the Contract Documents or shall be separated by a physical barrier from students.

If it is determined that Contractor must provide certification of employees, as part of such certification, Contractor must provide the District with a list of all employees providing services pursuant to this Agreement, and designate which sites such employees will be assigned. In performing the services set forth in this Agreement, Contractor shall not utilize any employees who are not included on the above-referenced list.

At District's sole discretion, District may make a finding, as authorized under Education Code section 45125.1, that Contractor's employees will have only "limited contact" with pupils. Contractor's failure to comply with this law shall be considered a material breach of this Agreement upon where this Agreement may be terminated, at District's sole discretion, without any further compensation to Contractor.

In the case of new construction Projects where there are no students, if the Project Schedule provides for Beneficial Occupancy or portions of the Project or if the Project should be delayed, then Contractor, at no additional costs, shall meet the requirements of either fingerprinting or providing a physical barrier as required by the District.

3.3.6 Noise, Drugs, Tobacco, and Alcohol

Contractor shall take all steps necessary to insure that employees of Contractor or any of its Subcontractors' employees do not use, consume, or work under the influence of any alcohol, tobacco or illegal drugs while on the Project. Contractor shall further prevent any of its employees or its Subcontractor employees from playing any recorded music devices or radios or wearing any radio headphone devices for entertainment while working on the Project. Likewise, Contractor shall prevent its employees or Subcontractor's employees from bringing any animal onto the Project. Contractors shall not violate any written school policies.

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3.3.7 Delivery of Material

Contractor shall place orders for materials or equipment so that the Work may be completed in accordance with the Construction schedule for the Work as set forth in Article 8 of this Agreement. Contractor shall, upon demand from the Architect, furnish to the Architect documentary evidence including, but not limited to purchase orders, invoices, bills of materials, work orders and bills of lading, showing that orders have been placed. Contractor shall have a system to receive materials and to ensure that the proper materials are being delivered, including in the case of critical materials to the Project, checking the delivery against Shop Drawings and ensuring that the materials meet the requirements of not only the Plans and Specifications, but also the approved Shop Drawings and Submittals and in conformance with Contractor's plan for delivery of materials (including but not limited to Contractor's representations in the Schedules for the Project and Contractor's equipment and materials schedule under Article 3.7.2.2). Contractor shall be responsible for all costs of accepting non-conforming materials delivered to the Project given Contractor's responsibilities and system for acceptance of deliveries. Contractor shall notify Inspector and District Representative (including CM) as early as possible, in writing, of the delivery of materials for the Project. The deliveries shall include documentation identifying the shipment sufficiently so that the Inspector, Architect or District Representative (including CM) may review the materials that are received. Under no circumstances shall materials be delivered to the Project site that are meant for another Project.

3.3.8 Liens and Other Security Interests of Subcontractors and Material Suppliers

No material, supplies, or equipment for the Work shall be purchased subject to any chattel mortgage or under a conditional sale or other agreement by which an interest therein or in any part thereof is retained by seller or supplier. Contractor warrants good title to all material, supplies, and equipment installed or incorporated in Work and agrees upon completion of all Work to deliver premises, together with all improvements and appurtenances constructed or placed thereon by it, to District free from any claims, security interests, liens, or charges. Contractor further agrees that neither it nor any person, firm, or corporation furnishing any materials or labor for any Work covered by this Contract shall have any right to place a lien upon the premises or any improvement or appurtenance thereof, except that Contractor may install metering devices or other equipment of a utility company or political subdivision, title to which is commonly retained by the utility company or political subdivision. In event of installation of any such metering device or equipment, Contractor shall advise District as to its owner within five (5) days of such installation in writing, prior to making the installation.

Contractor agrees to indemnify, defend and hold the District harmless from any liens, stop notices, or assertion of security interests, including judgments and levies. If after written notice Contractor fails to address the lien, stop notice, or other security interest, the District may proceed to address the lien, stop notice or claim and seek reimbursement from Contractor.

3.3.9 Title to Materials

The title to new materials or equipment for the Work of this Contract shall remain with Contractor until incorporated in the Work of this Contract until final acceptance of the Project; no part of said materials shall be removed from its place of storage, and Contractor shall keep an accurate inventory of all said materials and equipment in a manner satisfactory to the District or its authorized representative. Responsibility for materials remains with Contractor and Contractor shall replace materials in case of loss. District similarly may pay for materials stored off site, but Contractor shall remain responsible for the materials that are stored off site.

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3.3.10 Assemblies

For all material and equipment specified or indicated in the Drawings, the Contractor shall provide all labor, materials, equipment, and services necessary, (including engineering as specifically required with Shop Drawings or Deferred Approvals) for complete assemblies and complete working systems. Incidental items not indicated on the Drawings, nor mentioned in the Specifications, that can legitimately and reasonably be inferred to belong to the Work described, or be necessary in good practice to provide a complete assembly or system, shall be furnished as though itemized in the Contract Documents in every detail. In all instances, material and equipment shall be installed in strict accordance with each manufacturer's most recent published recommendations and Specifications.

3.3.11 Noise Control

The Contractor shall be responsible for the installation of noise reducing devices on construction equipment. Contractor shall comply with the requirements of the city and county having jurisdiction with regard to noise ordinances governing construction sites and activities. Construction equipment noise is subject to the control of the Environmental Protection Agency's Noise Control Program (Part 204 of Title 40, Code of Federal Regulations). If school is in session at any point during the progress of the Project, and, in the District's reasonable discretion, the noise from such Work disrupts or disturbs the students or faculty or the normal operation of the school, at the District's request, the Contractor shall schedule the performance of all such Work around normal school hours or make other arrangements so that the Work does not cause such disruption or disturbance. There are specific periods of testing at operational schools and it is critical that Contractor control noise during periods of testing. In no event shall Contractor have a right to receive additional compensation or an extension to the Contract time as a result of any such rescheduling or the making of such arrangements. These controls shall be implemented during site preparation and construction. All noise related issues, including school operations, and noise during testing should be detailed in the Schedule provided pursuant to Article 8

3.4 WARRANTY

The Contractor warrants to the District and Architect that material and equipment furnished under the Contract will be of the highest quality and new unless otherwise required or permitted by the Contract Documents, that the Work will be free from defects not inherent in the quality required or permitted, and that the Work will conform with the requirements of the Contract Documents. Work not conforming to these requirements, including substitutions not properly approved and authorized, may be considered defective. Contractor's warranty to District includes, but is not limited to, the following representations:

3.4.1 In addition to any other warranties provided elsewhere, Contractor shall, and hereby does, warrant all Work after the date of Notice of Completion of Work by District and shall repair or replace any or all such Work, together with any other Work, which may be displaced in so doing that may prove defective in workmanship or materials within a one (1) year period from date of Final Completion which shall be no later than the final date of Punch List as noted at Article 9.11) without expense whatsoever to District, ordinary wear and tear, unusual abuse or neglect excepted. District will give notice of observed defects with reasonable promptness. Contractor shall notify District upon completion of repairs.

3.4.2 In the event of failure of Contractor to comply with above mentioned conditions within one week after being notified in writing, District is hereby authorized to proceed to have defects repaired and made good at expense of Contractor who hereby agrees to pay costs and charges therefore immediately on demand.

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3.4.3 If, in the opinion of the District, defective Work creates a dangerous condition or requires immediate correction or attention to prevent further loss to the District, the District will attempt to give the notice required by this Article. If the Contractor cannot be contacted or does not comply with the District's requirements for correction within a reasonable time as determined by the District, the District may, notwithstanding the provisions of this article, proceed to make such correction or attention which shall be charged against Contractor. Such action by the District will not relieve the Contractor of the guarantee provided in this Article or elsewhere in this Contract.

3.4.4 This Article does not in any way limit the guarantee on any items for which a longer warranty is specified or on any items for which a manufacturer gives a guarantee for a longer period. Contractor shall furnish District all appropriate guarantee or warranty certificates upon completion of the project.

3.5 TAXES

Contractor will pay all applicable Federal, State, and local taxes on all materials, labor, or services furnished by it, and all taxes arising out of its operations under the Contract Documents. District is exempt from Federal Excise Tax, and a Certificate of Exemption shall be provided upon request.

3.6 PERMITS, FEES AND NOTICES

3.6.1 Payment

The Contractor shall secure and pay for all permits and governmental fees, licenses, and inspections necessary for proper execution and completion of the Work which are necessary after execution of the Contract and are legally required by any authority having jurisdiction over the Project, except those required by the Division of the State Architect (DSA). District shall be responsible for all testing and inspection as required by the DSA on-site or within the distance limitations set forth in Article 13.5.2, unless a different mileage range is specified in the Supplemental Conditions.

3.6.1.1 *DSA Fees.* DSA policy is to charge CCD review fees for processing and approval of changes in the Plans and Specifications through the Construction Change Document process. Contractor is specifically directed to the current DSA IR A-30 which provides fee structure and charges that will be incurred for proceeding with respect to the CCD process, a process that must be followed for each change in the Plans and Specifications.

3.6.2 Compliance

The Contractor shall comply with and give notices required by any law, ordinance, rule, regulation, and lawful order of public authorities bearing on performance of the Work. Specifically, the Division of State Architect provides State oversight of the Project and enforcement of Title 24 rules and regulations. Contractor is directed to the DSA website. There will be local governmental oversight from City, County or both. Finally, Regional Water Quality Control Board, State Fire Marshall, local fire marshal, Department of Industrial Relations, Department of Labor Standards Enforcement, and Air Quality Management District (Local and State) are some of the agencies that provide oversight and may require specific permits, fees, or provide oversight over the Project. Contractor represents understanding and specialized knowledge of the rules governing school districts and Contractor shall maintain compliance over the applicable rules and will file all documents required in order to ensure compliance with State, local, and other rules that apply to the Project.

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3.6.3 Responsibility

The Contractor shall perform all Work in conformance with every law, statute, ordinance, building code, rule or regulation. The Contractor shall assume full responsibility for such Work and shall bear the attributable cost of correction or project delay.

Pursuant to Title 24 Section 4-343(b):

“Contractor shall carefully study the approved Plans and Specifications and shall plan a schedule of operations well ahead of time.... All inconsistencies or items which appear to be in error in the Plans and Specifications shall be promptly called to the attention of the architect or registered engineer, through the inspector, for interpretation or correction.”

To help Contractor plan its operations, Contractor is directed to study the current version of the DSA 152 Inspection Card Manual identifying the exact steps the Inspector is to follow in the review and sign off process for the DSA 152. The DSA 152 Inspection Card Manual provides specific detail as to the order of operations, review items and compliance items beyond the Specifications and Plans which are reviewed for DSA compliance. The most current version of this manual is located on DSA’s website.

Contractor is also specifically directed to the time periods for posting of Special Inspection Reports and Inspector Notifications under DSA PR 13-01 since the timing of Inspection is not a Governmental Entity related delay.

3.7 SUBMITTALS REQUIRED AT THE COMMENCEMENT OF THE PROJECT

3.7.1 Requirements Within Ten (10) Calendar Days

Within ten (10) calendar days after Notice to Proceed, Contractor shall submit the following:

- 3.7.1.1 Detailed Schedule of Values (See Article 9.2)
- 3.7.1.2 Submittal Listing and Schedule for Submittals
- 3.7.1.3 Critical Path Baseline Schedule (See Article 8)

3.7.2 Requirements Within Thirty-Five (35) Calendar Days

Within thirty-five (35) calendar days after Notice to Proceed, Contractor shall submit the following:

3.7.2.1 *All Submittals for the Project* except those specifically agreed upon by District and Architect, in writing, and shall be specifically incorporated into the Submittal section of the Schedule so as to not delay the Work. The agreement to allow a later Submittal does not mean that Article 3.3.7 is waived. Contractor shall order materials and ensure prices are honored and secured for the Project.

- a. Structural Steel may be included as a later Submittal than 35 days if Structural Steel is a significant portion of the Work, at least one or some of the Project is a structural steel structural system, or as specifically agreed upon by the Architect or District.

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- b. It is specifically agreed that submissions of structural steel Submittals shall not be piecemeal (unless some portion is requested separately by the District or Architect), shall provide complete designs, shall be stamped by the structural steel Subcontractor, Contractor, and structural steel Subcontractor's structural engineer at time of submission and as further addressed in Article 3.9.
- c. In no case shall the submission of structural steel Drawings delay the critical path for the schedule. If a Milestone is provided for submission of complete structural steel Shop Drawings then the date shall be no later than as set forth in the Milestone

3.7.2.2 *Exceptions to Submittal Within Thirty-Five (35) Days by Written Agreement.* A written request detailing the specific reasons for a submission later than 35 days due to complexity of design or non-critical path status of the Submittal shall be submitted at the time the Baseline Schedule is submitted. The Baseline Schedule shall not include a delayed Submittal until written agreement is provided. In addition to the request for providing a Submittal after the thirty-five (35) day period, a copy of the Contract with the Subcontractor who shall be performing the Submittal, a written statement from the Subcontractor verifying that work has commenced on the Submittal and providing Subcontractor's own schedule of Milestones and completion dates, and a corresponding Submittal designation in the Schedule as required under Article 8. Approval of a delayed Submittal shall not result in any increase in the Contract Price or result in an extension of time for the completion of the Project.

3.7.2.3 *Piecemeal Submissions of Submittals.* Piecemeal Submittals mean providing portions of Shop Drawings or Submittals as they are being completed. The submission of piecemeal Submittals results in the appearance of a submission when there is inadequate information for the Architect or Engineer to adequately review a submission. Piecemeal differs from submission of complete buildings or phases of buildings or complete assemblies. The Architect may agree to allow submission of single buildings or areas as long as the Submittals are complete.

3.8 DOCUMENTS, SAMPLES, AND COMPUTER AT THE SITE

The Contractor shall maintain at the Site for the District one current copy of the California Building Code, Titles 19 and 24 of the California Code of Regulations, any other document required by DSA, and one record copy of the Drawings, Specifications, Addenda, Change Orders, and other Modifications, in good order and marked currently to record changes and selections made during construction. In addition, the Contractor shall maintain at the Site approved Shop Drawings, Product Data, Samples, and similar required Submittals. These documents shall be available to the Architect and shall be delivered to the Architect for delivery to the District upon completion of the Work.

Contractor shall have an operational computer with internet access so Contractor can review and post documents as required for the Project, including but not limited to the filing and posting of DSA required documents for the Project.

Contractor shall be prepared to review documents posted to the DSA Project website.

3.9 SUBMITTALS INCLUDING SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES

3.9.1 Definitions

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3.9.1.1 *Deferred Approvals.* Approval of certain aspects of the construction may be deferred until the construction Contract has been awarded. To facilitate the design process, DSA grants Deferred Approval to the design and detailing of certain elements of the Project at the request of the Architect or Engineer of Record. Design elements that may be deferred may include, but are not limited to access floors, bleachers, elevator guide rails and related elevator systems, exterior wall systems - precast concrete, glass fiber reinforced concrete, etc., skylights, window wall systems, storefronts, stage rigging, and other systems as noted in the Contract Documents. (Also see Article 1.2.2.2 and 3.9.3)

3.9.1.2 *Shop Drawings.* The term “Shop Drawings” as used herein means Drawings, diagrams, equipment or product schedules, and other data, which are prepared by Contractor, Subcontractors, manufacturers, suppliers, or distributors illustrating some portion of the Work, and includes: illustrations; fabrication, erection, layout and setting Drawings; manufacturer’s standard Drawings; schedules; descriptive literature, instructions, catalogs, and brochures; performance and test data including charts; wiring and control diagrams; and all other Drawings and descriptive data pertaining to materials, equipment, piping, duct and conduit systems, and methods of construction as may be required to show that the materials, equipment, or systems and their position conform to the requirements of the Contract Documents.

3.9.1.3 *Manufactured* applies to standard units usually mass-produced, and “Fabricated” means items specifically assembled or made out of selected materials to meet individual design requirements. Shop Drawings shall: establish the actual detail of all manufactured or Fabricated items, indicate proper relation to adjoining work, amplify design details of mechanical and electrical systems and equipment in proper relation to physical spaces in the structure, and incorporate minor changes of design or construction to suit actual conditions.

3.9.1.4 *Submittals* is a term used interchangeably and sometimes refers to Shop Drawings, Product Data, and samples since all Subcontractor submissions are tracked in a Submittal Log and may include any of the noted items. However, generally, a Submittal is a manufacturer’s product information and Product Data including description, characteristics, size, physical characteristics, and requirements to prepare the jobsite for receiving of the particular manufactured item.

3.9.1.5 *Samples.* The term “samples” as used herein are physical examples furnished by Contractor to illustrate materials, equipment, or quality and includes natural materials, Fabricated items, equipment, devices, appliances, or parts thereof as called for in the Specifications, and any other samples as may be required by the Architect to determine whether the kind, quality, construction, finish, color, and other characteristics of the materials, etc., proposed by the Contractor conform to the required characteristics of the various parts of the Work. All Work shall be in accordance with the approved samples.

3.9.2 Shop Drawings.

3.9.2.1 *When Shop Drawings Are Required.* Shop Drawings are required for prefabricated components and for installation and coordination of these prefabricated components into the Project. In addition, Shop Drawings, are prepared to address the actual size and installation of components from various Subcontractors and provides an opportunity for the Contractor to coordinate and address conflicts between the subcontracting trades. In some cases, each Subcontractor or trade will provide Shop Drawings in a BIM format or other format as agreed by District.

3.9.2.2 *Purpose for Shop Drawings.* Shop Drawings are the Contractor’s manufacturer, Subcontractor, supplier, vendor or the Contractor’s detailed drawings showing particularized

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method for assembly, specifics to a manufacturer, manufacturer component installation requirements, specifics as to a manufactured item, alterations to a manufactured, a custom created item, or drawn version of more detailed information expanding on the Architect's design shown in the Contract Documents. The Shop Drawings address the appearance, performance, size, weight, characteristics and prescriptive descriptions associated with the Contractor or Contractor's Subcontractor's plan for installation or assembly based on the design in the Specifications and Contract Documents. The Shop Drawing often is more detailed than the information shown in the Contract Documents to give the Architect and Engineer the opportunity to review the fabricator's version of the product (along with particulars specific to that particular product), prior to fabrication. References to the Contract Documents, Construction Documents, Drawings, Plans, and Specifications assist the Architect and Engineer in their review of the Shop Drawings. Attachment of manufacturer's material Specifications, "catalog cut sheets," and other manufacturer's information may be provided to accompany Shop Drawings. Because Shop Drawings facilitate the Architect's and Engineer's approval of the system, they should be as clear and complete as possible so they may be reviewed by Architect or Engineer for the Project.

3.9.2.3 *Shop Drawing Requirements.* The Contractor shall obtain and submit with Shop Drawings all seismic and other calculations and all Product Data from equipment manufacturers. "Product Data" as used herein are illustrations, standard schedules, performance charts, instructions, brochures, diagrams, and other information furnished by the Contractor to illustrate a material, product, or system for some portion of the Work.

3.9.2.4 *Not a Reproduction of Architectural or Engineering Drawings.* The Shop Drawings are not a reproduction of the architectural or engineering Drawings. Instead, they must show more detail than the Construction Documents and details the fabrication and/or installation of the items to the manufacturer's production crew or Contractor's installation crews.

3.9.2.5 *Shop Drawings Engineering Requirements:* Some Shop Drawings require an engineer stamp to be affixed on the Drawings and calculations. In such cases, a current and valid engineering stamp shall be affixed by a California registered engineer. No out of State engineers shall stamp Shop Drawings. (See DSA IR A-18). In most cases, an engineer means California registered mechanical, structural, electrical or plumbing engineer. California Registered Civil Engineers will not be accepted for structural details unless specifically approved by DSA.

3.9.2.6 *DSA Approvals Required Prior to Work.* No work on a Shop Drawing that requires DSA approval may proceed until DSA approval is received. Contractor has provided DSA approval time and allowed adequate time for corrections in Contractor's Schedule as required pursuant to Article 8.

3.9.2.7 *Shop Drawing Identification.* All Shop Drawings must be properly identified with the name of the Project and dated, and accompanied by a letter of transmittal referring to the name of the Project and to the Specification section number for identification of each item clearly stating in narrative form, as well as "clouding" all qualifications, departures, or deviations from the Contract Documents. Shop Drawings, for each section of the Work shall be numbered consecutively and the numbering system shall be retained throughout all revisions. All Subcontractor submissions shall be made through the Contractor. Each drawing shall have a clear space for the stamps of Architect and Contractor.

3.9.3 Deferred Approvals

Deferred approvals shall be submitted and processed to ensure all DSA and other governmental approvals are secured so as to not delay the Project. There may be additional requirements

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for Deferred Approvals at Division 1 of the Specifications. All Deferred Approvals shall be prepared by Contractor or Contractor's agent early enough so as to not delay the Project. Contractor is aware that Title 24 California Code of Regulations Section 4-317 have specific requirements for Deferred Approval as to governing agencies and as to the Architect and Engineer for the Project. As a result, any delay associated with the time for approval by applicable agencies or by the Architect or Architect's consultants shall be Contractor's. Contractor is required to comply with inclusion of Deferred Approvals in the Schedule as required under Article 3.9.6 *DSA Approvals Required Prior to Work*. No work on a Deferred Approval item may proceed on the components until DSA approval is received. Contractor has provided DSA approval time and allowed adequate time for any DSA revisions in Contractor's Schedule as required pursuant to Article 8.

3.9.4 Submittals and Samples

3.9.4.1 *Information Required With Submittals:* Manufacturer, trade name, model or type number and quantities: Information provided must be of sufficient detail to allow Architect and Engineer to compare the submitted item with the specified products and acceptable products listed, in the Specifications and addenda.

3.9.4.2 *Description of Use and Performance Characteristics:* Information should be furnished describing the normal use and expected performance of the product. The Architect and Contractor review this information to confirm that the product is appropriate for the intended use.

3.9.4.3 *Size and Physical Characteristics:* The size and physical characteristics, such as adjustment capabilities, which is reviewed by both the Contractor and Architect. The Contractor has the most available information for comparing adjoining materials and equipment. The Contractor also needs to know the size and weight of the equipment for lifting and handling considerations.

3.9.4.4 *Finish Characteristics:* The Architect reviews the available finishes and selects the appropriate finish, if the finish was not previously specified in the documents. The Contractor should confirm that finish requirements in the Specifications are being met by the product.

3.9.4.5 *Contractor Responsible for Jobsite Dimensions:* Some material is custom-fabricated to job conditions, requiring dimensions from the jobsite. These jobsite dimensions are provided by the Contractor as part of the Contractor's responsibilities for the Project and shall be provided prior to release of the product for manufacture. Contractor shall not rely on Architect or Engineers to provide jobsite dimensions.

3.9.4.6 *Full Range of Samples Required (When Specific Items Not Specified).* Except in cases where the exact color and type of item is specified since the District is utilizing items Standardized or pre-selected by District, the full range of color, graining, texture, or other characteristics are anticipated for review in finished products, a sufficient number of samples of the specified materials shall be furnished by the Contractor to indicate the full range of characteristics which will be present in the finished products. Products delivered or erected without Submittal and approval without providing a full range of samples shall be subject to rejection. Except for range samples, and unless otherwise called for in the various sections of the Specifications or Specification Section 1, samples shall be submitted in duplicate.

3.9.4.7 *Labeling of Samples.* All samples shall be marked, tagged, or otherwise properly identified with the name of the submitting party, the name of the Project, the purpose for which the samples are submitted and the date.

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3.9.4.8 *Transmittal letter.* All samples shall be accompanied by a letter of transmittal containing similar information, together with the Specification section number.

3.9.4.9 *Labels and Instructions.* All samples of materials shall be supplied with the manufacturer's descriptive labels and application instructions. Each tag or sticker shall have clear space for the review stamps of Contractor and Architect.

3.9.4.10 *Architect's Review.* The Architect will review and, if appropriate, approve submissions and will return them to the Contractor with the Architect's stamp and signature applied thereto, indicating the timing for review and appropriate action in compliance with the Architect's (or District's) standard procedures. In the cases where a CM is hired by the District, CM may be the party that receives and performance logging and initial processing of the Samples. CM may, in some cases, reject samples that are not in conformance with Contract requirements.

3.9.5 Submittal Submission Procedure

3.9.5.1 *Transmittal Letter and Other Requirements.* All Submittals must be properly identified with the name of the Project and dated, and each lot submitted must be accompanied by a letter of transmittal referring to the name of the Project and to the Specification section number for identification of each item clearly stating in narrative form, as well as "clouding" on the submissions, all qualifications, departures, or deviations from the Contract Documents. Shop Drawings, for each section of the Work shall be numbered consecutively and the numbering system shall be retained throughout all revisions. All Subcontractor submissions shall be made through the Contractor. Each drawing shall have a clear space for the stamps of Architect and Contractor. Refer to Division 1. In the case where a CM is hired on the Project, the CM may be designated to receive the Submittals for the Project, log the Submittals, and in some cases reject Submittals that do not conform to Contract requirements. Submittal Procedures for further information.

3.9.5.2 *Copies Required.* Each Submittal shall include one (1) legible, reproducible (if electronic is available, electronic copies shall also be provided) and five (5) legible prints of each drawing or schedule, table, cut sheet, etc., including fabrication, erection, layout and setting drawings, and such other drawings as required under the various sections of the Specifications, until final acceptance thereof is obtained. Subcontractor shall submit copies, in an amount as requested by the Contractor, of: (1) manufacturers' descriptive data for materials, equipment, and fixtures, including catalog sheets showing dimensions, performance, characteristics, and capacities; (2) wiring diagrams and controls; (3) schedules; (4) all seismic calculations and other calculations; and (5) other pertinent information as required by the District or Architect. (See also Division 1)

3.9.5.3 *Corrections.* The Contractor shall make all corrections required by Architect, District or CM and shall resubmit, as required by Architect or CM, corrected copies of Shop Drawings or new samples until approved. Contractor shall direct specific attention in writing or on resubmitted Shop Drawings to revisions other than the corrections required by the Architect on previous submissions. Professional services required for more than one (1) re-review of required Submittals of Shop Drawings, Product Data, or samples are subject to charge to the Contractor pursuant to Article 4.5.

3.9.5.4 *Approval Prior to Commencement of Work.* No portion of the Work requiring a Shop Drawing or sample submission or other Submittal shall be commenced until the submission has been reviewed by Contractor and Architect (and CM, if applicable) and approved by Architect (and CM where applicable) unless specifically directed in writing by the Architect. All such portions of the Work shall be in accordance with approved Shop Drawings and samples.

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3.9.5.5 *District's Property.* All Submittals, Shop Drawings, computer disks, BIM modeling information, clash checks, schedules, annotated Specifications, samples and other Submittals shall become the District's property upon receipt by the District or Architect.

3.9.6 Schedule Requirements for Submittals

Contractor shall obtain and shall submit all required Submittals (i.e. Shop Drawings, Deferred Approvals, Samples, etc.), in accordance with Contractor's "Schedule for Submission of Shop Drawings and Samples" as required in the scheduling portion of the General Conditions at Articles 8 and the Specifications (as long as the Specifications do not conflict with General Conditions. In the case of conflict, the conflicting provision shall be controlled by the General Conditions and the remaining Specifications sections shall be interpreted as if the general conditions language is inserted) with such promptness as to cause no delay in its own Work or in that of any other contractor or subcontractor but in no event later than thirty five (35) days after the Notice to Proceed is issued except in the specific cases noted as an exception under Article 3.7.2.1. No extensions of time will be granted to Contractor or any Subcontractor because of its failure to have Shop Drawings and samples submitted in accordance with Division 1 and the Schedule. Each Subcontractor shall submit all Shop Drawings, samples, and manufacturer's descriptive data for the review of the District, the Contractor, and the Architect through the Contractor.

3.9.6.1 *Consideration of Schedule.* Contractor has considered lead times, DSA or other agency governmental review times, Architect or Engineer review times, manufacturing seasons, and specific long lead procurement concerns for all submittals for the Project.

3.9.7 General Submittal Requirements

3.9.7.1 *Contractor Submittal Representations and Coordination.* By submitting Shop Drawings, Product Data, samples, etc., the Contractor represents that it has determined and verified all materials, field measurements, catalog numbers, related field construction criteria, and other relevant data in connection with each such submission, and that it has checked, verified, and coordinated the information contained within such Submittals with the requirements of the Work and of the Contract Documents, including the construction schedule.

3.9.7.2 *Contractor Coordination.* Contractor shall stamp, sign, and date each Submittal indicating its representation that the Submittal meets all of the requirements of the Contract Documents and evidence Contractor's review through execution of the following stamp to be placed on each Shop Drawings:

"[Contractor] has reviewed and approved the field dimensions and the construction criteria, and has also made written notation regarding any information in the Shop Drawings and Submittals that does not conform to the Contract Documents. This Shop Drawing or Submittal has been coordinated with all other Shop Drawings and Submittals received to date by me as Contractor and this duty of coordination has not been delegated to Subcontractors, material suppliers, the Architect, or the Engineers on this Project.

Signature of Contractor and date

3.9.7.3 *No Deviation from Contract Documents.* The submission of the Shop Drawings, Product Data, samples, etc., shall not deviate from the *requirements* of the Contract Documents

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including detailing and design intent which is specifically outlined in Contract Documents except as specifically authorized by the Architect or through an accepted substitution pursuant to Article 3.10.4. All deviations from the Contract Documents shall be narratively described in a transmittal accompanying the Shop Drawings. However, Shop Drawings shall not be used as a means of requesting a substitution, the procedure for which is defined in Article 3.10.4, "Substitutions."

3.9.7.4 *Contractor Responsibility for Shop Drawings Conformance to Contract Documents.* Review by District and Architect shall not relieve the Contractor or any Subcontractor from its responsibility in preparing and submitting proper Shop Drawings in accordance with the Contract Documents.

3.9.7.5 *Incomplete Submittals.* Any submission, which in Architect's opinion is incomplete, contains errors, or has been checked superficially, will be returned not reviewed by the Architect for resubmission by the Contractor. Refer to Submittal Procedures of the Specifications for additional information. The Contractor shall be responsible for any related delays and shall not be the basis for any Claim.

3.9.7.6 *Shop Drawings and Submittals Shall Not Be Used as a Method to Make a Substitution.* Shop Drawings and Submittals shall not be used as a means of requesting a substitution or to make changes in the Contract Documents. If changes are made to the Contract Documents through the Shop Drawings, the Architect shall have the right to reject the Submittal. If the Architect does not note the deviation from the approved Plans and Specifications, the Contractor is still responsible for the change and the Architect or the District may require the Shop Drawings be revised to properly reflect the approved Contract Documents. The Architect or District may also require that the Contractor bear all costs under Article 4.5 and consequential damages associated with a CCD to revise Plans and Specifications to accommodate the deviation from approved Plans and Specifications.

3.9.7.7 Extent of Review. In reviewing Shop Drawings, the Architect will not verify dimensions and field conditions. The Architect will review and approve Shop Drawings, Product Data, samples, etc., for aesthetics and for conformance with the design concept of the Work and the information in the Contract Documents. The Architect's review shall neither be construed as a complete check which relieves the Contractor, Subcontractor, manufacturer, fabricator, or supplier from responsibility for any deficiency that may exist or from any departures or deviations from the requirements of the Contract Documents unless the Contractor has, in writing, called the Architect's attention to the deviations at the time of submission. The Architect's review shall not relieve the Contractor or Subcontractors from responsibility for errors of any sort in Shop Drawings or schedules, for proper fitting of the Work, coordination of the differing Subcontractor trades and Shop Drawings and Work which is not indicated on the Shop Drawings at the time of submission of Shop Drawings. Contractor and Subcontractors shall be solely responsible for any quantities which may be shown on the Submittals or Contract Documents.

3.10 SUBSTITUTIONS

3.10.1 Definition

A Substitution is a change in product, material, equipment, or method of construction from those required by the Construction Documents proposed by the Contractor. For this Project, a Substitution is subject to the filing of a Construction Substitution Request Form at the time of bid and meeting the requirements of this Article.

3.10.2 One Product Specified

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Unless the Specifications state that no substitution is permitted, whenever the Contract Documents indicate any specific article, device, equipment, product, material, fixture, patented process, form, method, or type of construction or any specific name, make, trade name, or catalog number, with or without the words “or equal,” such specification shall be deemed to be used for the purpose of facilitating description of the material, process, or article desired and shall be deemed to be followed by the words “or equal.” Subject to the requirements of properly submitting a Substitution Request for as Addressed in Article 3.10.4, the Contractor may, unless otherwise stated, offer any material, process, article, etc., which shall be materially equal or better in every respect to that so indicated or specified (“Specified Item”) and will completely accomplish the purpose of the Contract Documents.

3.10.3 Products Specified Which Are Commercially Unavailable

If the Contractor fails to make a request for substitutions for products, prior to the submission of its bid, and such products subsequently become commercially unavailable, the Contractor may request a substitution for such commercially unavailable item. The decision to grant this request is solely at the District’s discretion. The written approval of the District, consistent with the procedure for Change Orders, shall be required for the use of a proposed substitute material. The District may condition its approval of the substitution upon the delivery to District of an extended warranty or other assurances of adequate performance of the substitution as well as an equitable deduction in the Contract Price should the substituted item cost less than the Specified Item. All risks of delay due the approval of a requested substitution by the DSA, or any other governmental agency having jurisdiction, shall be on the requesting party. All additional costs, DSA review costs, all procurement and construction delays, and all costs for review by the Architect or its consultants shall be the responsibility of the Contractor and will be deducted from Contractor’s pay request.

3.10.4 Substitution Request Form

Requests for substitutions of products, materials, or processes in place of a Specified Item must be in writing on the District’s Substitution Request Form (“Request Form”) at the time of submitting bids to the District, except as provided for in Article 3.10.3.

The Request Form must be accompanied by evidence as to whether the proposed substitution:

- a. Is equal in quality/service/ability to the Specified Item;
- b. Will entail no changes in detail, construction, and scheduling of related work;
- c. Will be acceptable in consideration of the required design and artistic effect;
- d. Will provide no cost disadvantage to the District;
- e. Will require no excessive or more expensive maintenance, including adequacy and availability of replacement parts; and
- f. Will required no change of the construction schedule.

In completing the Request Form, the bidder must state, with respect to each requested substitution, whether the bidder will agree to provide the Specified Item in the event that the District denies the bidder’s request for such requested substitution. In the event that the bidder has agreed in the Request

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Form to provide the Specified Item and the District denies the bidder's requested substitution for a Specified Item, the bidder shall provide the Specified Item without any additional cost or charge to the District.

After bids are opened, the apparent lowest bidder shall provide, within five (5) days of opening such bids, any and all Drawing, Specifications, samples, performance data, calculations, and other information, as may be required to assist the Architect, CM and the District in determining whether the proposed substitution is acceptable. The burden of establishing these facts shall be upon the bidder.

After the District's receipt of such evidence by the bidder, the District will make its final decision as to whether the bidder's request for substitution for any Specified Items will be granted. The decision as to whether a proposed request for substitution is equal to a Specified Item shall be at the sole discretion of the District. Any request for substitution that is granted by the District shall be documented and processed through a Change Order. Contractor must submit a complete Submittal of the requested substitution and a Shop Drawing showing configuration, dimensions, and other critical information associated with the substitution that meets the requirements of Article 3.9. The District may condition its approval of any substitution upon delivery to the District of an extended warranty or other assurances of adequate performance of the substitution. Any and all risks of delay due to approval by the DSA or any other governmental agency having jurisdiction shall be on the bidder.

If the Architect and District accept a proposed substitution, the Contractor agrees to pay for all DSA review costs, engineering and design services, including, without limitation, compensation to the Architect and affected engineers for their required time to process such substitution through the Division of the State Architect, if required, and to make all changes and adjustments in materials or the work of all trades directly or indirectly affected by the substituted item or items at no cost to the District.

3.10.5 Substitution Requests After Bid

The District, in its sole discretion, may accept a request for substitution by the Contractor or may request Contractor substitute a specified item. Any substitutions requested after bids are opened shall be subject to the same conditions and requirements set forth in Article 3.10.4 above. If any substitutions, that in the District or Architect's determination, results in a credit to the District, the credit amount shall be agreed upon in writing, otherwise, the request for substitution shall be deemed denied.

3.11 INTEGRATION OF WORK

3.11.1 Scope

The Contractor shall be responsible for cutting, fitting, or patching to complete the Work and to make all parts fit together properly. Contractor shall be responsible for ensuring that all trades are coordinated and scheduled so as to ensure the timely and proper execution of the work. When modifying existing work or installing new Work adjacent to existing work, Contractor shall match, as closely as conditions of Site and materials will allow, the finishes, textures, and colors of the original work, refinishing existing work at no additional cost to District. All cost caused by defective or ill-timed work shall be borne by Contractor. Contractor shall be solely responsible for protecting existing work on adjacent properties and shall obtain all required permits for shoring and excavations near property lines.

3.11.2 Structural Members

New or existing structural members and elements, including reinforcing bars and seismic bracing, shall not be cut, bored, or drilled except by written authority of the Architect. Work done contrary

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to such authority is at the Contractor's risk and subject to replacement at its own expense without reimbursement under the Contract. Schedule delays resulting from Agency approvals for unauthorized work shall be the Contractor's responsibility.

3.11.3 Subsequent Removal

Permission to patch any areas or items of the Work shall not constitute a waiver of the District's or the Architect's right to require complete removal and replacement of the areas or items of the Work if, in the opinion of the Architect or the District, the patching does not satisfactorily restore quality and appearance of the Work or does not otherwise conform to the Contract Documents.

3.12 CLEANING UP

3.12.1 Contractor's Responsibility to Clean Up

Contractor at all times shall keep premises free from debris such as waste, dust, excess water, storm water runoffs, rubbish, and excess materials and equipment. Contractor shall not leave debris under, in, or about the premises, but shall promptly remove same from the premises and dispose of it in a lawful manner. Disposal receipts or dump tickets shall be furnished to the Architect within five (5) days of request.

Contractor shall remove rubbish and debris resulting from the Work on a daily basis. Contractor shall maintain the structures and Site in a clean and orderly condition at all times until acceptance of the Project by the District. Contractor shall keep its access driveways and adjacent streets, sidewalks, gutters and drains free of rubbish, debris and excess water by cleaning and removal each day. All concrete, sidewalks, and paths of travel shall be broom cleaned daily.

3.12.2 General Final Clean-Up

Upon completion of Work, Contractor shall employ experience workers or professional cleaners for final cleaning. Contractor shall clean each surface to the condition expected in a normal, commercial, building cleaning and maintenance program including, but not limited to, the performed of the following:

- a. Clean interior and exterior of buildings, including fixtures, equipment, walls, floors, ceilings, roofs, windowsills and ledges, horizontal projections, and any areas where debris has collected, so surfaces are free from foreign material or discoloration;
- b. Clean the Project site. The grounds should be cleared of any Contractor equipment, raked clean of debris and trash removed. Sweep paved areas broom clean;
- c. Repair or replace any damaged materials. Replace any chipped or broken glass;
- d. Remove any and all stains;
- e. Remove labels that aren't permanent labels;

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- f. Clean and polish all glass, plumbing fixtures, equipment, finish hardware and similar finish surfaces. Remove any glazing compounds;
- g. Remove temporary utilities, fencing, barricades, planking, sanitary facilities and similar temporary facilities from Site;
- h. Remove temporary film that remains on any hardware, doors or other surfaces; and
- i. Seal the bottom and tops of all doors.

3.12.3 Special Clean-Up.

In addition to the general cleaning, the following special cleaning shall be done at the completion of the Work in accordance with the Specifications including, but not limited to:

- a. Remove putty stains from glazing, then wash and polish glazing;
- b. Remove marks, stains, fingerprints and other soil or dirt from painted, stained or decorated work;
- c. Remove temporary protection and clean and polish floors and waxed surfaces;
- d. Clean and polish hardware and plumbing trim; remove stains, dust, dirt, plaster and paint;
- e. Wipe surfaces of mechanical and electrical equipment;
- f. Remove spots, soil, plaster and paint from tile work, and wash tile;
- g. Clean all fixtures and equipment, remove excess lubrication, clean light fixtures and lamps, polish metal surfaces;
- h. Vacuum-clean carpeted surfaces; and
- i. Remove debris from roofs, down spout and drainage system.

3.12.4 Failure to Cleanup

If the Contractor fails to clean up as provided in the Contract Documents, the District may do so, and the cost thereof shall be the responsibility of the Contractor pursuant to Article 2.2 and seek a Deductive Change Order.

3.13 ACCESS TO WORK

The Contractor shall provide the District, the Architect, Engineers and the Inspector of Record, access to the Work in preparation and progress wherever located. Contractor shall provide safe and proper facilities for such access so that District's representatives may perform their functions.

CONTRACTOR IS AWARE THAT THIS CONTRACT MAY BE SPLIT INTO SEVERAL PHASES AS ADDRESSED IN ARTICLE 6.

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3.13.1 Special Inspection, Inspections or Tests Out of State, Out of Country or Remote from Project

If Contractor has a Subcontractor or supplier that requires in plant or special inspections or inspections or tests that are out of the country, out of the state, or a distance of more than 200 miles from the Project site, the Special Inspector or Inspector shall be provided access so the special inspection or inspection may occur in the remote location. In some cases, the DSA Inspector may also require access in addition to Special Inspectors and individuals performing tests. Inspections/tests shall occur during normal work hours. (See also Article 4.3.6)

3.14 ROYALTIES AND PATENTS

3.14.1 Payment and Indemnity for Infringement

Contractor shall hold and save the District and its officers, agents, and employees, the Construction Manager, the Architect, and the Architect's consultants harmless from liability of any nature or kind, including cost and expense, for or on account of any patented or unpatented invention, process, article, or appliance manufactured or used in the performance of the Contract, including its use by the District, unless otherwise specifically provided in the Contract Documents, and unless such liability arises from the sole negligence, or active negligence, or willful misconduct of the District, the Architect, or the Architect's consultants.

3.14.2 Review

The review by the Architect of any method of construction, invention, appliance, process, article, device, or material of any kind shall be for its adequacy for the Work and shall not be an approval for the use by the Contractor in violation of any patent or other rights of any person or entity.

3.15 INDEMNIFICATION

3.15.1 Contractor

See Agreement Form. Contractor shall ensure that its contract with each of its Subcontractors contains provisions requiring the Subcontractors to defend, indemnify and hold harmless the District, Architect, Inspector, the State of California to a minimum level as set forth in this Article and consistent with the indemnity and hold harmless language in the Agreement Form.

The Contractor's and Subcontractors' obligation to defend, indemnify and hold harmless the District, Architect, Inspector, the State of California and their officers, employees, agents and independent contractors hereunder shall include, without limitation, any and all claims, damages, and costs for the following: (1) any damages or injury to or death of any person, and damage or injury to, loss (including theft), or loss of use of, any property; (2) breach of any warranty, express or implied; (3) failure of the Contractor or Subcontractors to comply with any applicable governmental law, rule, regulation, or other requirement; (4) products installed in or used in connection with the Work; and (5) any claims of violation of the Americans with Disabilities Act ("ADA")

3.16 SUBMISSION OF DAILY REPORTS

3.16.1 General

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By 10:00 a.m. on the following business day, the Contractor shall submit a Daily Report to the Inspector and copy the Architect for the previous day's Work. If there is a Construction Manager, the original Daily Report is to be provided to the Construction Manager and copies sent to the Architect and the Inspector. Daily Reports shall be prepared on forms approved by the District, together with applicable delivery tickets, listing all labor, materials, and equipment involved for that day. The District reserves the right to note inconsistencies or inaccuracies in the Daily Reports. In such cases, pertinent notes shall be entered by each party to explain points which cannot be resolved that day. Each party shall retain a signed copy of the report. Daily Reports by Subcontractors or others shall be submitted through the Contractor.

3.16.2 Labor

The Daily Report shall show names of workers, classifications, hours worked and hourly rate. The locations where work occurred shall also be identified in the Daily Report. Project superintendent expenses are not allowed.

3.16.3 Materials

The Daily Report required shall describe and list quantities of materials used and unit costs.

3.16.4 Equipment

The Daily Report required shall show type of equipment, size, identification number, and hours of operation, including loading and transportation, if applicable, and hourly/daily cost. Move-on and move-off fees shall be noted.

3.16.5 Other Services and Expenditures

Other services and expenditures shall be described in the Daily Report in detail as the District requires.

3.16.6 Failure to Submit Daily Report

If Contractor does not submit its Daily Report by 10 am the next business day, the Inspector of Record shall prepare a Daily Report addressing each of the above items. The cost for the Inspector's services to prepare the Daily Report shall be addressed through a Deductive Change Order under Article 7.7.4.

3.17 AS-BUILT DRAWINGS AND ANNOTATED SPECIFICATIONS

Throughout the duration of the Project, Contractor shall maintain on a current basis an accurate and complete set of As-Built Drawings (and Annotated Specifications) clearly showing all changes, revisions to Specifications and substitutions during construction, including, without limitation, field changes and the final location of all electrical and mechanical equipment, utility lines, ducts, outlets, structural members, walls, partitions, and other significant features. In case a Specification allows Contractor to elect one of several brands, makes, or types of material or equipment, the annotations shall show which of the allowable items the Contractor has furnished. The Contractor will update the As-Built Drawings and Annotated Specifications as often as necessary to keep them current, but no less often than weekly.

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Contractor shall update As-Built Drawings with complete information on an area of Work at or near the time when the Work is being performed and prior to any DSA 152 sign off and prior to any Work being covered.

The As-Built Drawings and Annotated Specifications shall be kept at the Site and available for review and inspection by the District and the Architect. Failure to maintain and update the As-Built Drawings is a basis to withhold Progress Payments pursuant to Article 9.6.

3.17.1 Upon Beneficial Occupancy

Contractor shall obtain and pay for reproducible Plans upon Beneficial Occupancy. Contractor shall deliver Plans to District Representative (Construction Manager if one is hired for the Project).

3.17.2 As-Builts at Completion of Work

Upon completion of the Work and prior to and as a condition precedent to Application for Retention Payment, the Contractor will provide one neatly prepared and complete set of As-Built Drawings and Annotated Specifications to the District. Contractor shall certify the As-Builts as a complete and accurate reflection of the actual construction conditions of the Work by affixing a stamp indicating the Drawings are As-Builts and certifying accuracy on the final set of As-Builts. Failure to deliver a complete As-Built set of Drawings may result in significant withholdings to ensure Work is properly documented. (See Article 9.9.2)

3.17.3 Log of Control and Survey Documentation

Contractor shall complete and maintain an accurate log or all control and survey documentation for the Project as the Work progresses. All reference and control points shall be recorded on the As-Built Drawings. The basis of elevations shall be one of the established benchmarks that must be maintained on the As-Builts.

3.17.4 Record Coordinates for Key Items

Contractor shall record, by coordinates, all utilities on-site with top of pipe elevations, major grade and alignment changes, rim, grate or top of curb and flow line elevations of all drainage structures and sewer manholes. Contractor shall update record information at or near the time when work is occurring in an area and prior to DSA 152 sign off on any category of Work and prior to covering the Work.

3.17.5 BIM As-Built Drawings

If BIM is utilized for the Project, then an electronic version of such As-Built Drawings and Annotated Specifications will be delivered to District (in an acceptable format to District).

3.18 EQUIPMENT MANUALS

Contractor shall obtain and furnish three (3) complete sets of manuals containing the manufacturers' instructions for maintenance and operation of each item of equipment and apparatus furnished under the Contract Documents and any additional data specifically requested under the various sections of the Specifications for each division of the Work. The manuals shall be arranged in logical,

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sequential order, labeled, indexed, and placed in three-ring binders. At the completion of its Work, the Contractor shall certify, by endorsement thereon, that each of the manuals is complete, accurate, and covers all of its Work. Prior to submittal of Contractor's Application for Retention Payment, and as a further condition to its approval by the Architect, each Subcontractor shall deliver the manuals, arranged in logical, sequential order, labeled, indexed, endorsed, and placed in three-ring binders, to the Contractor, who shall assemble these manuals for all divisions of the Work, review them for completeness, and submit them to the District through the Architect.

3.19 DIR REGISTRATION

Strict compliance with all DIR registration requirements in accordance with Labor Code sections 1725.5 and 1771.1 is a material obligation of the Contractor and all of its subcontractors (of any tier) under the Contract Documents. The foregoing includes, without limitation, compliance with DIR registration requirements at all times during performance of the Work by the Contractor and all of its subcontractors of any tier. The failure of the Contractor and all subcontractors of any tier to be properly registered with DIR at all times during performance of the Work is a material breach of the Contract and subject to termination for cause.

An affirmative and ongoing obligation of the Contractor under the Contract Documents is the verification that all subcontractors of any tier are at all times during performance of the Work are in full and strict compliance with the DIR registration requirements. The Contractor shall not permit or allow any subcontractor of any tier to perform any Work without the Contractor's verification that all subcontractors are in full and strict compliance with the DIR registration requirements. Any subcontractors of any tier not properly registered with DIR shall be substituted in accordance with Labor Code section 1771.1. Contractor or its subcontractors of any tier shall not be entitled to any additional costs or time arising from or in any way related to compliance with the DIR registration requirements.

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ARTICLE 4 ADMINISTRATION OF THE CONTRACT AND CLAIMS

4.1 ARCHITECT

4.1.1 Replacement of Architect

In the case of the termination of the Architect, the District may appoint an Architect or another construction professional or may perform such functions with its own licensed professional personnel. The status of the replacement Architect under the Contract Documents shall be the same as that of the former Architect.

4.2 ARCHITECT'S ADMINISTRATION OF THE CONTRACT

4.2.1 Status

Pursuant to Titles 2 of the California Code of Regulations and as required pursuant to the Field Act, Education Code 17280 et seq., the Architect will provide administration of the Contract Documents and the Work, and will be the District's representative during construction, as well as during the one (1) year period following the commencement of any warranties. The Architect will have authority to act on behalf of the District only to the extent provided in the Contract Documents.

4.2.2 Site Visits

The Architect will visit the Site at intervals necessary in the judgment of the Architect to become generally familiar with the progress and quality of the Work and to determine in general if the Work is being performed in accordance with the Contract Documents and as otherwise required by DSA.

4.2.3 Limitations of Construction Responsibility

The Architect, District and CM shall not have control over, charge of, or be responsible for construction means, methods, techniques, schedules, sequences or procedures, fabrication, procurement, shipment, delivery, receipt, installation, or for safety precautions and programs in connection with the Work, since these are solely the Contractor's responsibility under the Contract Documents. The Architect, District and CM shall not be responsible for the Contractor's, Subcontractors', material or equipment suppliers', or any other person's schedules or failure to carry out the Work in accordance with the Contract Documents. The Architect, District and CM shall not have control over or charge of acts or omissions of the Contractor, Subcontractors, their agents or employees, or any other persons or entities performing or supplying portions of the Work. The Contractor shall not be relieved of obligations to perform the Work in accordance with the Contract Documents either by activities or duties of the Architect, District or CM in the Architect, District or CM's administration of the Contract Documents, or by tests, inspections, or approvals required or performed by persons other than the Contractor.

4.2.4 Communications Facilitating Contract Administration

Except where a CM is on the Project, or as otherwise provided in the Contract Documents or when direct communications are warranted by special circumstances, the District and the Contractor shall communicate through the Architect. In the cases where a CM is hired for the Project, all communication shall be through the CM (unless otherwise directed) with copies to the District, Architect

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and Inspector. Where direct communication is necessary between the District and the Contractor, the District's communication shall be through the District's authorized designated person. The Architect and CM shall be promptly informed and shall receive copies of all written communications. Contractor shall not rely upon any communications from the District that is not from the District's Representative. Communications by and with the Architect's consultants shall be through the Architect. Communications by and with Subcontractors and material or equipment suppliers shall be through the Contractor. In the case where a CM is hired for the Project, the CM shall be the main point of contact for communication of information. Copies should be sent to the Architect, District Representative and Inspector.

4.2.5 Payment Applications

The Architect will review and make recommendations to the District regarding the amounts due the Contractor on the Certificates for Payment pursuant to Article 9.3.4 and subject to the Inspector's review, (CM review, if applicable) and Architect's observation. This review of Payment Applications is sometimes called a "Pencil Draft." Return of a Pencil Draft shall constitute the District's dispute of the Payment Application that has been submitted. Contractor shall promptly respond to Pencil Drafts or Contractor's Payment Applications may be delayed. Contractor's failure to promptly respond to a Pencil Draft shall qualify as a delay in the Prompt Payment of a Request for Payment or Request for Retention.

4.2.6 Rejection of Work

In addition to the rights, duties, and obligations of the Inspector under this Article, the Architect may recommend to the District that the District reject Work which does not conform to the Contract Documents. Whenever the Architect considers it necessary or advisable to achieve the intent of the Contract Documents, the Architect (and/or CM) may recommend to the District that the District require additional inspection or testing of the Work in accordance with Article 13.5, whether or not such Work is Fabricated, installed, or completed. District may have Non-conforming Work removed and replaced pursuant to Article 9.7. However, neither this authority of the Architect (or CM) nor a decision made in good faith either to exercise or not to exercise such authority shall give rise to a duty or responsibility of the Architect (or CM) to the Contractor, Subcontractors, material and equipment suppliers, their agents or employees, or other persons performing portions of the Work.

Contractor shall, without charge, replace or correct Work found by the District to not be in conformance to Contract requirements. Contractor shall promptly segregate and remove rejected materials from the Project site.

This section does not address a Notice of Non-Compliance and the remedies associated with a Notice of Non-Compliance which are addressed at Article 7.1.2

4.2.7 Warranties upon Completion

The Architect (and where applicable CM), in conjunction with the Inspector will conduct field reviews of the Work to determine the date of Substantial Completion and of Final Completion, shall receive and forward to the District for the District's review written warranties and related documents required by the Contract and assembled by the Contractor, and will issue a final Certificate for Payment when the Architect believes the Work has been completed in compliance with the requirements of the Contract Documents (See Article 9.11 for Close-Out). The handling by the Architect (or where applicable CM) of such warranties, maintenance manuals, or similar documents shall not diminish or transfer to the Architect any responsibilities or liabilities required by the Contract Documents of the Contractor or other entities, parties, or persons performing or supplying the Work.

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On some Projects, the District will take a phased occupancy of the Project. In those cases, the District may commence the running of warranties on the buildings, or phases that are accepted after Punch List is completed and the District has accepted Completion of the separate phase. A separate Notice of Completion may be filed for the separate building or phase of work and warranties shall commence for the separate phase only to the extent that warranties do not require coordination or connection to other buildings or other parts of the site and only if the warranted item is completed to its entirety in the segregated building or phased area.

If written warranties are not provided at the time the Punch List is nearing completion, Architect (with recommendations from the CM and Inspector) shall determine the dollar value of the warranties and shall make recommendation for withholdings necessary to effectuate the transfer of such warranties to the District for future use as part of the Punch List for the Project pursuant to Article 9.6.

Warranties are not commenced through utilizing of equipment for testing and operation as necessary to acclimate buildings or where necessary to test systems.

4.2.8 Interpretation

The Architect will interpret and decide matters concerning performance and requirements of the Contract Documents. Architect shall make clarifications as necessary to interpret the Contract Documents.

4.3 PROJECT INSPECTOR

4.3.1 General

One or more Project Inspectors employed by the District and approved by the Division of the State Architect will be assigned to the Work in accordance with the requirements of Title 24 of the California Code of Regulations. The Inspector(s) duties are as specifically defined in Title 24 Section 4-333 and 4-342 and in DSA IR A-8.

4.3.2 Inspector's Duties and DSA Noted Timelines for Inspection

All Work shall be under the observation of the Inspector. Contractor shall establish a protocol for requesting inspection with Inspector so as to not delay the Work and provide adequate time for the Inspector to perform inspection. If such a protocol is not established ahead of time, Inspector may utilize the time criteria set by Title 24 of 48 hours in advance of submitting form DSA 156 for each new area. The Inspector shall have free access to any or all parts of the Work at any time. The Contractor shall furnish the Inspector such information as may be necessary to keep the Inspector fully informed regarding progress and manner of Work and character of materials. Such observations shall not, in any way, relieve the Contractor from responsibility for full compliance with all terms and conditions of the Contract, or be construed to lessen to any degree the Contractor's responsibility for providing efficient and capable superintendence. The Inspector is not authorized to make changes in the Drawings or Specifications, nor shall the Inspector's approval of the Work and methods relieve the Contractor of responsibility for the correction of subsequently discovered defects, or from its obligation to comply with the Contract Documents.

Inspector shall electronically post DSA required documents on the DSA electronic posting website. It is the Contractor's responsibility to determine the status of posting and determine if all the

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criteria for sign off of a category of Work on the Project Inspection Card (Form DSA 152) as defined more thoroughly in the most current version of the DSA 152 manual posted on the DSA website.

Inspector may collaborate with Contractor about approval of areas that may be constructed and approved incrementally under the DSA 152 card pursuant to the guidelines of PR-13 at Article 1.17. Inspector shall work with Contractor to present incremental approval proposals to DSA.

4.3.3 Inspector's Authority to Reject or Stop Work

The Inspector shall have the authority to reject Work whenever provisions of the Contract Documents are not being complied with, and Contractor shall instruct its Subcontractors and employees accordingly. In addition, the Inspector may stop any Work that poses a probable risk of harm to persons or property. The Contractor shall instruct its employees, Subcontractors, material and equipment suppliers, etc., accordingly. The absence of any Stop Work Order or rejection of any portion of the Work shall not relieve the Contractor from any of its obligations pursuant to the Contract Documents.

4.3.4 Inspector's Facilities

Within seven (7) days after the notice to proceed, the Contractor shall provide the Inspector with the temporary facilities as required. More specific requirements for the Inspector facilities may be further described under Division 1 of the Specifications.

4.3.5 Testing Times

The District will provide inspection and testing at its cost during the normal eight (8) hour day Monday through Friday (except holidays). Work by the Contractor outside of the normal eight (8) hour day shall constitute an authorization from the Contractor to the District to provide inspection and testing as required outside of the normal eight (8) hour day. Contractor shall provide adequate time for inspections so as to not delay the Work. An advanced timing protocol may be established pursuant to Article 4.3.2. If the Contractor is behind Schedule, then it is incumbent on the Contractor to provide advance forecast through look ahead of the anticipated date for inspection so the Inspector may plan their activities so as to not delay the Project. Contractor shall reimburse District for any additional costs associated with inspection and testing (including re-inspection and re-testing) outside the normal eight-hour day and for any retests caused by the Contractor.

It is the Contractor's responsibility to request special inspections with sufficient time so all testing may be timely completed and posted so work may proceed, and the Inspector's signature is attached to the Project Inspection Card (Form 152). Specifically, timely request for special inspection under the DSA Verified Report Forms 291 (laboratory), DSA Verified Report Form 292 (Special Inspection), and DSA Verified Report 293 (geotechnical) since DSA requirements under PR 13-01 specifically gives the Special Inspections 14 days to post to the DSA website. Failure to plan and pay (if applicable) for quicker delivery of Special Inspections may be counted as Float but is not considered Governmental Delay Float under Article 8.1.4.

4.3.6 Special Inspections, Inspections or Tests Out of State, Out of Country or Remote from Project

If Contractor has a Subcontractor or supplier that requires in plant or special inspections, inspections or tests that are out of the country, out of the state or a distance of more than 200 miles from the Project Site, the District shall provide the Special Inspector or individual performing tests time for

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inspection and testing during normal work hours. Contractor, however, is responsible for the cost of travel, housing, food, out of area premiums that may be in the Inspector/Testing Agreement with District, or other expenses necessary to ensure proper inspection, special inspection or testing is provided by a DSA Certified Inspector, Special Inspector, or individual performing tests. In some cases, all three (DSA Inspector, Special Inspector, and Tester) may be required. In addition, if the DSA Certified Inspector, Special Inspector, or individual performing test has contractual travel clauses or special rates for out of town inspection, Contractor is responsible for all costs associated with the contractual travel costs in addition to all other costs. Arrangements for inspection and/or testing shall be made far enough in advance so as to not delay the Work.

4.4 STOP WORK ORDER

DSA may issue a Stop Work Order, or an Order to Comply, when either (1) the Work proceeds without DSA approval; (2) the Work proceeds without a DSA Inspector of Record, or (3) where DSA determines that the Work is not being performed in accordance with applicable rules and regulations and would compromise the structural integrity of the Project or would endanger lives. If a Stop Work Order is issued, the Work in the affected area shall cease until DSA withdraws the Stop Work Order. Pursuant to Education Code section 17307.5(b), the District shall not be held liable in any action filed against the District for any delays caused by compliance with the Stop Work Order, except to the extent that an error or omission by the District is the basis for the issuance of the Stop Work Order.

Examples of Stop Work Orders that may be issued by DSA include DSA Bulletin 07-04 and Policy 10-01, the installation of automatic fire sprinkler systems without approved Plans, covering Work that has not been approved by Inspector on DSA Project Inspection Card (Form 152).

4.5 RESPONSIBILITY FOR ADDITIONAL CHARGES INCURRED BY THE DISTRICT FOR PROFESSIONAL SERVICES

If at any time prior to the completion of the requirements under the Contract Documents, the District is required to provide or secure additional professional services (including CM, Inspection, Architect, Engineering and Special Consultant Services) for any reason by any act of the Contractor, the District may seek a Deductive Change Order for any costs incurred for any such additional services, which costs shall be deducted from the next progress payment. A Deductive Change Order shall be independent from any other District remedies and shall not be considered a waiver of any District rights or remedies. If payments then or thereafter due to the Contractor are not sufficient to cover such amounts, the Contractor shall pay the difference to the District. Additional services shall include, but shall not be limited to, the following:

- a. Services made necessary by the default of the Contractor (Article 14 or Article 2.2).
- b. Services made necessary due to the defects or deficiencies in the Work of the Contractor (Article 2.2 and Article 9.6).
- c. Spurious or frivolous RFI's issued that do not conform to the requirements of Article 7.4. Issuance of the same RFI after receiving an answer from the Architect or Engineer
- d. Review of Schedules that are provided by Contractor that do not Conform with the Requirements of Article 8.

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- e. Preparation of a CCD or ICD to correct a Contractor Deficiency, or Contractor Caused Notice of Non-Compliance (See Article 7.3).
- f. Review of Incomplete Shop Drawings or Submittals, including the submission of Piecemeal Shop Drawings or Submittals unless piecemeal Submittals are specifically agreed upon by District (See Article 3.9)
- g. Services required by failure of the Contractor to perform according to any provision of the Contract Documents.
- h. Services in connection with evaluating substitutions of products, materials, equipment, Subcontractors' proposed by the Contractor, and making subsequent revisions to Drawings, Specifications, obtaining DSA approvals, DSA costs for review of CCD's, other governmental agency review costs, and providing other documentation required (except for the situation where the specified item is no longer manufactured or available). (See Article 3.10)
- i. Services for evaluating and processing Claims or Disputes submitted by the Contractor in connection with the Work outside the established Change Order process.
- j. Services required by the failure of the Contractor to prosecute the Work in a timely manner in compliance within the specified time of completion.
- k. Services in conjunction with the testing, adjusting, balancing and start-up of equipment other than the normal amount customarily associated for the type of Work involved.
- l. Services in conjunction with more than one (1) re-review of Submittals of Shop Drawings, Product Data, samples, RFI's etc.

4.6 DISPUTES AND CLAIMS

4.6.1 Decision of Architect

"Disputes" or "Claims" as defined in Article 4.6.9.1 between District and Contractor involving money or time, including those alleging an error or omission by the Architect shall be referred initially to the Architect for action as provided in Article 4.6.2 within ten (10) days after Contractor's Article 7 request for Change is denied. If there is a CM, the CM shall receive the Dispute and may review and also assemble opinions and documents to assist the Architect. A decision by the Architect, as provided in Article 4.6.5, shall be required as a condition precedent to proceeding with remedies set forth in Article 4.6.9 as to all such matters arising prior to the date Retention Payment Application is due, regardless of whether such matters relate to execution and progress of the Work, or the extent to which the Work has reached Final Completion.

The condition precedent of an Architect decision shall be waived if: (1) the position of Architect is vacant; (2) the Architect has failed to take action required under Article 4.6.5 within the time periods required therein; or (3) the Dispute or Claim relates to a stop notice claim not arising from any extra Change Order or Immediate Change Directive for which approval has not been provided.

4.6.2 Architect's Review

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The Architect (and CM) will review the Dispute and take one or more of the following preliminary actions upon receipt of a Dispute: (1) request additional supporting data from the claimant; (2) submit a schedule to the parties indicating when the Architect expects to take action; (3) reject the Dispute in whole or in part, stating reasons for rejection; (4) recommend approval of the Dispute; or (5) suggest a compromise. The Architect may also, but is not obligated to, notify the Surety, if any, of the nature and amount of the Dispute.

4.6.2.1 *Architectural Immunity.* Architect review of Disputes and Claims shall be impartial and meant to resolve Disputes and Claims. Pursuant to the case, Huber, Hunt & Nichols, Inc. v. Moore (1977) 67 Cal.App.3d 278, the Architect is provided a quasi-judicial immunity for interpreting and deciding Disputes and Claims between the District and Contractor.

4.6.3 Documentation if Resolved

If a Dispute has been resolved, the Architect (and/or CM) will prepare a Change Order or obtain appropriate documentation to document the terms for Board approval.

4.6.4 Actions if Not Resolved

If a Dispute has not been resolved and all documentation requested pursuant to Article 4.6.2 has been provided, the Contractor shall, within ten (10) days after the Architect's initial response, assemble all the documents involved in the Dispute including copies of all back-up documentation of costs and the basis for the Dispute and take one or more of the following actions: (1) modify the initial Dispute; (2) notify the Architect that the initial Dispute stands; or (3) supplement with additional supporting data and re-submit to the Architect under Article 4.6.2.

4.6.5 Architect's Written Decision

If a Dispute has not been resolved after consideration of the foregoing and of other evidence presented by the parties or requested by the Architect, the Architect (or Architect through CM) shall provide a written decision twenty (20) days after compliance with Article 4.6.4. Upon expiration of such time period, the Architect (or Architect through CM) will render to the parties its written decision relative to the Dispute, including any change in the Contract Sum or Contract Time or both. The Architect may also request reasonable additional time to complete Architect's written decision.

If the resolution of the Dispute by the Architect is not satisfactory to the Contractor and copies of all back-up documentation of costs and the basis for the Dispute is fully articulated in a package of material that is complete, the Contractor may then submit a Claim to the District under Article 4.6.9.

4.6.6 Continuing Contract Performance

Pending final resolution of a Dispute or Claim, including, negotiation, mediation, arbitration, or litigation, the Contractor shall proceed diligently with performance of the Contract, and the District shall continue to make any undisputed payments in accordance with the Contract (less any withholdings or offsets). If the Claim is not resolved, Contractor agrees it will neither rescind the Contract nor stop the progress of the work, but Contractor's sole remedy shall be to submit such controversy to determination by a court of competent jurisdiction in the county where the Project is located, after the Project has been completed, and not before.

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4.6.6.1 *District's Option to Submit Individual Disputes to Arbitration during Claims and Disputes Process.* At the District's sole option, in order to more efficiently resolve Claims during the Project and prior to the completion of the Claims Process, pursuant to Government Code section 9201, the District may submit individual Disputes or Claims for binding arbitration and Contractor agrees to the resolution of for each individual Dispute or Claim by an Arbitrator, including resolution of time and delays. If binding arbitration is utilized for individual Disputes or Claims, such resolution is full and final as to that particular Dispute or Claim. THIS INDIVIDUAL DISPUTE ARBITRATION PROCESS IS NOT AN ARBITRATION CLAUSE AND SHALL NOT BE CONSTRUED AS AN AGREEMENT TO ARBITRATE. THIS INDIVIDUAL DISPUTES ARBITRATION PROCESS IS FOR THE SOLE PURPOSE OF STREAMLINING AND RESOLVING DISPUTES OR CLAIMS DURING CONSTRUCTION AND SHALL BE REQUESTED ON SPECIFIC INDIVIDUAL ITEMS BY THE DISTRICT PRIOR TO RETENTION PAYMENT (EVEN IF THERE ARE DEDUCTIONS MADE FROM RETENTION PAYMENT) WHICH REPRESENTS THE FINAL COMPLETION OF THE PROJECT.

- a. If there is no Retention remaining on the Project, individual Disputes initiated prior to Project Final Completion shall continue until a final disposition of the Arbitration or resolution of the individual Claim or Dispute.
- b. No Tolling. The Arbitration process shall not toll the Disputes or Claims process under Article 4.6 or the requirement to submit Claims to Court under Article 4.6.9.5.

4.6.7 Claims for Concealed Trenches or Excavations Greater Than Four Feet Below the Surface

When any excavation or trenching extends greater than four feet below the surface or if any condition involving hazardous substances are encountered:

- a. Immediately upon discovery, The Contractor shall promptly, and before the following conditions are disturbed, notify the District, by telephone and in writing, of the condition except:
 1. If such condition is a hazardous waste condition, Contractor's bid includes removal or disposal of hazardous substances. Material that the Contractor believes may be a material that is hazardous waste, as defined in Section 25117 of the Health and Safety Code, is required to be removed to a Class I, Class II, or Class III disposal site in accordance with the provisions of existing law. In such case, the notice bulletin procedures of Article 7 apply.
 2. Subsurface or latent physical conditions at the Site differing from those indicated in the Drawings, Specifications, Soils Report, and from Contractor's own investigation under Article 2.1.
 3. Unknown physical conditions at the Site of any unusual nature, different materially from those ordinarily encountered and generally recognized as inherent in Work of the character provided for in the Contract.

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- b. The District shall investigate the conditions, and if District finds that the conditions do materially so differ, do involve hazardous waste, and cause a decrease or increase in the Contractor's cost of, or the time required for, performance of any part of the Work shall issue a Change Order or Construction Change Document under the procedures described in the Contract.
- c. In the event that a dispute arises between the public entity or District and the Contractor whether the conditions materially differ, involve hazardous waste, or cause a decrease or increase in the Contractor's cost of, or time required for, performance of any part of the Work, the Contractor shall not be excused from any scheduled Completion Date provided for by the Contract, but shall proceed with all Work to be performed under the Contract. The Contractor shall retain any and all rights provided either by Contract or by law which pertain to the resolution of disputes and protests between the contracting parties.

4.6.8 Dispute Concerning Extension of Time.

If Contractor and District cannot agree upon an extension of time, whether compensable or not, then Contractor must have first completed the procedures set forth in Article 8.4. Upon completion of the procedures set forth under Article 8.4, Contractor must then comply with the requirements in this Article including those set forth under Article 4.6.9.

4.6.9 Claims Procedures

Pursuant to the remedies under Public Contract Code section 9201 and Government Code section 930.2, Contractor, through execution of this Agreement, also agrees to comply with the Claims requirements of Article 4.6 to quickly and efficiently resolve Disputes and Claims. Further, to provide a level of accuracy to the records submitted, the District shall have the right to audit books and records pursuant to Article 13.11 based on the actual costs incurred and to reduce the uncertainty in resolving Disputes and Claims with limited information.

4.6.9.1 *Procedure Applicable to All Claims*

- a. Definition of Claim: A "Claim" is where a Dispute between the parties rises to the level where backup documentation is assembled and provided to the District as a separate demand by the Contractor for: (1) a time extension, including, without limitation, for relief from damages or penalties for delay assessed by the District under the Contract; (2) payment by the District of money or damages arising from Work done by, or on behalf of, the Contractor pursuant to the Contract and payment for which is not otherwise expressly provided for or to which the Contractor is not otherwise entitled to; or (3) an amount of payment disputed by the District. If the Claim is for damages associated with a DSA Stop Work Order, the Contractor shall not be entitled to a request for Compensation, but shall be entitled to utilize Governmental Delay Float (See Article 8.1.4.1.)
- b. Filing Claim Is Not Basis to Discontinue Work: The Contractor shall promptly comply with Work under the Contract or Work requested by the District even though a written Claim has been filed. The Contractor and

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the District shall make good faith efforts to resolve any and all Claims that may arise during the performance of the Work covered by this Contract.

- c. Claim Notification: The Contractor shall within seven (7) calendar days after the written decision of the Architect, or if the time period for Architect's decision has passed under Article 4.6.5, submit a notification in writing sent by registered mail or certified mail with return receipt requested, with the District (and the District's CM) stating clearly the basis for the Claim and including all relevant and required documents. If the notification is not submitted within seven (7) days after the written decision of the Architect or the passage of time under Article 4.6.5, the Contractor shall be deemed to have waived all right to assert the Claim, and the Claim shall be denied. Claims submitted after the Retention Payment date shall also be considered null and void by the District. All Claims shall be reviewed pursuant to Articles 4.6.1 through 4.6.5.

The Formal Notification of Claim must be presented as follows:

- (1) The term "Claim" must be at the top of the page in no smaller than 20-point writing.
 - (2) All documentation submitted pursuant to Article 4.6 to the Architect shall be submitted with the "Claim."
 - (3) A stack of documents, copy of all Project documents, or the submission of random documents shall not constitute an adequate reference to supporting documentation.
 - (4) Any additional or supporting documentation that Contractor believes is relevant should be submitted at this time.
- d. Reasonable Documents to Support Claim: The Contractor shall furnish reasonable documentation to support the Claim. The Contractor shall provide all written detailed documentation which supports the Claim, including but not limited to: arguments, justifications, cost, estimates, Schedule analysis and detailed documentation. The format of the required reasonable documentation to support the Claim shall include, without limitation:
1. Cover letter.
 2. Summary of factual basis of Claim and amount of Claim.
 3. Summary of the basis of the Claim, including the specific clause and section under the Contract under which the Claim is made.
 4. Documents relating to the Claim, including:
 - a. Specifications sections in question.
 - b. Relevant portions of the Drawings

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- c. Applicable Clarifications (RFI's)
 - d. Other relevant information, including responses that were received.
 - e. Contractor Analysis of Claim merit.
 - (a) Contractor's analysis of any Subcontractor vendor Claims that are being passed through.
 - (b) Any analysis performed by outside consultants
 - (c) Any legal analysis that Contractor deems relevant
 - f. Breakdown of all costs associated with the Claim.
 - g. For Claims relating to time extensions, an analysis and supporting documentation evidencing any effect upon the critical path in conformance with the requirements of Article 8.4 chronology of events and related correspondence.
 - h. Applicable Daily Reports and logs.
 - (a) If the Daily Reports or Logs are not available, lost or destroyed, there shall be a presumption that the lost documentation was unfavorable to the Contractor. See California Civil Jury Instruction 204.
 - i. For Claims involving overhead, cost escalation, acceleration, disruption or increased costs, a full version of job costs reports organized by category of work or Schedule of Values with budget information tracked against actual costs. Any and all supporting back-up data, including the original bid (and associated original unaltered metadata).
 - (a) The metadata and bid information shall be provided confidentially and subject to a protective order to prevent dissemination to other contractors or to the public. However, the bid documentation should remain intact and available for review and inspection in case of this type of increased cost Claim.
 - (b) This data on the bid shall be made available to any District attorneys or experts and shall also be utilized as evidence for any legal proceedings.
 - (c) If the bid documentation is not available, lost or destroyed, there shall be a presumption that the lost bid documentation was unfavorable to the Contractor. See California Civil Jury Instruction 204.
- e. Certification: The Contractor (and Subcontractors, if applicable) shall submit with the Claim a certification under penalty of perjury:
- 1. That the Contractor has reviewed the Claim and that such Claim is made in good faith;

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2. Supporting data are accurate and complete to the best of the Contractor's knowledge and belief;
 3. The amount requested accurately reflects the amount of compensation for which the Contractor believes the District is liable.
 4. That the Contractor is familiar with Government Code sections 12650 et seq. and Penal Code section 72 and that false claims can lead to substantial fines and/or imprisonment.
- f. Signature of Certification: If the Contractor is not an individual, the certification shall be executed by an officer or general partner of the Contractor having overall responsibility for the conduct of the Contractor's affairs.
- g. Upon receipt of a Claim and all supporting documents as required above, the District shall conduct a reasonable review of the Claim and, within a period not to exceed 45 days, shall provide the Contractor a written statement identifying what portion of the Claim is disputed and what portion is undisputed. Upon receipt of a Claim, the District and Contractor may, by mutual agreement, extend the time period provided in this paragraph.
- h. If the District needs approval from its governing Board to provide the Contractor a written statement identifying the disputed portion and the undisputed portion of the Claim, and the governing Board does not meet within the 45 days or within the mutually agreed to extension of time following receipt of a Claim sent by registered mail or certified mail, return receipt requested, the District shall have up to three days following the next duly publicly noticed meeting of the governing Board after the 45-day period, or extension, expires to provide the Contractor a written statement identifying the disputed portion and the undisputed portion.
- i. Any payment due on an undisputed portion of the Claim shall be processed and made within 60 days after the District issues its written statement. If the District fails to issue a written statement, paragraph o below shall apply.
- j. If the Contractor disputes the District's written response, or if the District fails to respond to a Claim issued pursuant to this Article 4.6.9 within the time prescribed, the Contractor may demand in writing an informal conference to meet and confer for settlement of the issues in dispute. Upon receipt of a demand in writing sent by registered mail or certified mail, return receipt requested, the District shall schedule a meet and confer conference within 30 days for settlement of the Claim.
- k. Within 10 business days following the conclusion of the meet and confer conference, if the Claim or any portion of the Claim remains in dispute, the District shall provide the Contractor a written statement identifying the

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portion of the Claim that remains in dispute and the portion that is undisputed. Any payment due on an undisputed portion of the Claim shall be processed and made within 60 days after the District issues its written statement. Any disputed portion of the Claim, as identified by the Contractor in writing, shall be submitted to nonbinding mediation, with the District and the Contractor sharing the associated costs equally. The District and Contractor shall mutually agree to a mediator within 10 business days after the disputed portion of the Claim has been identified in writing. If the parties cannot agree upon a mediator, each party shall select a mediator and those mediators shall select a qualified neutral third party to mediate with regard to the disputed portion of the Claim. Each party shall bear the fees and costs charged by its respective mediator in connection with the selection of the neutral mediator. If mediation is unsuccessful, the parts of the Claim remaining in dispute shall be subject to applicable procedures in Article 4.6.9.5.

- l. For purposes of this Article 4.6.9, mediation includes any nonbinding process, including, but not limited to, neutral evaluation or a dispute review board, in which an independent third party or board assists the parties in dispute resolution through negotiation or by issuance of an evaluation. Any mediation utilized shall conform to the timeframes in this section.
- m. Unless otherwise agreed to by the District and the Contractor in writing, the mediation conducted pursuant to this Article 4.6.9 shall excuse any further obligation under Section 20104.4 to mediate after litigation has been commenced.
- n. This Claims process does not preclude the District from requiring arbitration of disputes under private arbitration or the Public Works Contract Arbitration Program, if mediation under this Article 4.6.9 does not resolve the parties' Claim. This Claims process does not preclude the District from submitting individual Disputes or Claims to binding arbitration pursuant to Article 4.6.9.4 below.
- o. Failure by the District to respond to a Claim from the Contractor within the time periods described in this subdivision or to otherwise meet the time requirements of this Article 4.6.9 shall result in the Claim being deemed rejected in its entirety. A Claim that is denied by reason of the District's failure to have responded to a Claim, or its failure to otherwise meet the time requirements of this Article 4.6.9, shall not constitute an adverse finding with regard to the merits of the Claim or the responsibility or qualifications of the Contractor.
- p. If a subcontractor or a lower tier subcontractor lacks legal standing to assert a Claim against a District because privity of contract does not exist, the Contractor may present to the District a Claim on behalf of a subcontractor or lower tier subcontractor. A subcontractor may request in writing, either on his or her own behalf or on behalf of a lower tier subcontractor, that the Contractor present a Claim for work which was

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performed by the subcontractor or by a lower tier subcontractor on behalf of the subcontractor. The subcontractor requesting that the Claim be presented to the District shall furnish reasonable documentation to support the Claim. Within 45 days of receipt of this written request, the Contractor shall notify the subcontractor in writing as to whether the Contractor presented the Claim to the District and, if the Contractor did not present the Claim, provide the subcontractor with a statement of the reasons for not having done so.

- q. Upon receipt of a Claim, the parties may mutually agree to waive, in writing, mediation and proceed directly to the commencement of a civil action or binding arbitration, as applicable.
- r. The Contractor's Claim shall be denied if it fails to follow the requirements of this Article.

4.6.9.2 *District (through CM or District's Agent or Attorney) May Request Additional Information.* Within thirty (30) days of receipt of the Claim and the information under this Article, the District may request in writing any additional documentation supporting the Claim or documentation relating to defenses to the Claim which the District may assert. If additional documents are required, the time in which the Claim is evaluated may be extended by a reasonable time so the Claim and additional documents may be reviewed.

4.6.9.3 *Claims Procedures in Addition to Government Code Claim.* Nothing in the Claims procedures set forth in this Article 4 of the General Conditions shall act to waive or relieve the Contractor from meeting the requirements set forth in Government Code section 900 et seq.

4.6.9.4 *Binding Arbitration of Individual Claim Issues.* To expedite resolution of Claims pursuant to Public Contract Code section 9201, at the District's sole option, the District may submit individual Claims to Arbitration prior to Retention Payment consistent with the requirements of Article 4.6.6.1.

4.6.9.5 *Resolution of Claims in Court of Competent Jurisdiction.* If Claims are not resolved under the procedure set forth and pursuant to Article 4.6.9, such Claim or controversy shall be submitted to a court in the County of the location of the Project after the Project has been completed, and not before.

4.6.9.6 *Warranties, Guarantees and Obligations.* The duties and obligations imposed by these General Conditions and the rights and remedies available hereunder to the parties hereto, and, in particular but without limitation, the warranties, guarantees and obligations imposed upon Contractor by the General Conditions and amendments thereto; and all of the rights and remedies available to District and Architect thereunder, are in addition to, and are not to be construed in any way as a limitation of, any rights and remedies available to any or all of them which are otherwise imposed or available by laws or regulations by special warranty or guarantee or by other provisions of the Contract Documents, and the provisions of this Article will be as effective as if repeated specifically in the Contract Documents in connection with each particular duty, obligation, right and remedy to which they apply.

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ARTICLE 5 SUBCONTRACTORS

5.1 DEFINITIONS

5.1.1 Subcontractual Relations Bound to Same Contract Terms at General Contractor

By appropriate agreement, written where legally required for validity, the Contractor shall require each Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound to the Contractor by terms of the Contract Documents, and to assume toward the Contractor all the same obligations and responsibilities, assumed by Contractor pursuant to the Contract Documents. Each subcontract agreement shall preserve and protect the rights of the District and the Architect under the Contract Documents with respect to the Work to be performed by the Subcontractor so that subcontracting thereof will not prejudice such rights. Where appropriate, the Contractor shall require each Subcontractor to enter into similar agreements with Sub-subcontractors. The Contractor shall make available to each proposed Subcontractor, prior to the execution of the subcontract agreement, copies of the Contract Documents to which the Subcontractor will be bound. Upon written request of the Subcontractor, the Contractor shall identify to the Subcontractor the terms and conditions of the proposed subcontract agreement, which may be at variance with the Contract Documents. Subcontractors shall similarly make copies of applicable portions of such documents available to their respective proposed Sub-subcontractors.

5.1.2 Subcontractor Licenses and DIR Registration

All Subcontractors shall be properly licensed by the California State Licensing Board. All Subcontractors (of any tier) performing any portion of the Work must comply with the Labor Code sections 1725.5 and 1771.1 and must be properly and currently registered with the California Department of Industrial Relations and qualified to perform public works pursuant to Labor Code section 1725.5 throughout the duration of the Project. No portion of the Work is permitted to be performed by a Subcontractor of any tier unless the subcontractor is properly registered with DIR. Any Subcontractors of any tier not properly registered with DIR shall be substituted in accordance with Labor Code section 1771.1.

5.1.3 Substitution of Subcontractor

Substitution of Subcontractors shall be permitted only as authorized under Public Contract Code §§ 4107 et seq. Any substitutions of Subcontractors shall not result in any increase in the Contract Price or result in the granting of any extension of time for the completion of the Project.

5.1.4 Contingent Assignment of Subcontracts and Other Contracts

Each subcontract, purchase order, vendor contract or agreement for any portion of the Work is hereby assigned by the Contractor to the District provided that:

- a. Such assignment is effective only after Termination of this Contract with the Contractor by the District as provided under Article 14 and only for those subcontracts and other contracts and agreements that the District accepts by notifying the Subcontractor or Materialman (as may be applicable) in writing; and
- b. Such assignment is subject to the prior rights of the Surety(ies) obligated under the Payment Bond and Performance Bond.

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- c. The Contractor shall include adequate provisions for this contingent assignment of subcontracts and other contracts and agreements in each such document.

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ARTICLE 6 CONSTRUCTION BY DISTRICT OR BY SEPARATE CONTRACTORS

6.1 DISTRICT'S RIGHT TO PERFORM CONSTRUCTION AND TO AWARD SEPARATE CONTRACTS

6.1.1 Separate Contracts.

6.1.1.1 District reserves the right to let other contracts in connection with this Work. Contractor shall afford other contractors' reasonable opportunity for (1) introduction and storage of their materials; (2) access to the Work; and (3) execution of their work. Contractor shall properly connect and coordinate its work with that of other Contractors.

6.1.1.2 If any part of Contractor's Work depends on proper execution or results of any other contractor, the Contractor shall inspect and within seven (7) days or less, report to Architect, in writing, any defects in such work that render it unsuitable for proper execution of Contractor's Work. Contractor will be held accountable for damages to District for that Work which it failed to inspect or should have inspected. Contractor's failure to inspect and report shall constitute its acceptance of other contractors' Work as fit and proper for reception of its Work, except as to defects which may develop in other contractors' work after execution of Contractor's work.

6.1.1.3 To ensure proper execution of its subsequent Work, Contractor shall measure and inspect Work already in place and shall at once report to the Architect in writing any discrepancy between executed Work as built and the Contract Documents.

6.1.1.4 Contractor shall ascertain to its own satisfaction the scope of the Project and nature of any other contracts that have been or may be awarded by District in prosecution of the Project and the potential impact of such Work on the Baseline Schedule or Schedule updates.

6.1.1.5 Nothing herein contained shall be interpreted as granting to Contractor the exclusive occupancy at the site of Project. Contractor shall not cause any unnecessary hindrance or delay to any other contractor working on the Project Site. If execution of any contract by the District is likely to cause interference with Contractor's performance of this Contract, once Contractor provides District timely written notice and identifies the Schedule Conflict, District shall decide which contractor shall cease work temporarily and which contractor shall continue, or whether Work can be coordinated so that contractors may proceed simultaneously.

6.1.1.6 District shall not be responsible for any damages suffered or extra costs incurred by Contractor resulting directly or indirectly from award or performance or attempted performance of any other contract or contracts at the Project necessary for the performance of the Project (examples include Electrical Utility Contractor, separate offsite contractor, a separate grading contractor, furniture installation etc.)

CONTRACTOR IS AWARE THAT THIS CONTRACT MAY BE SPLIT INTO SEVERAL PHASES BASED ON DOCUMENTATION PROVIDED WITH THIS BID OR DISCUSSED AT THE JOB WALK. CONTRACTOR HAS MADE ALLOWANCE FOR ANY DELAYS OR DAMAGES WHICH MAY ARISE FROM COORDINATION WITH CONTRACTORS REQUIRED FOR OTHER PHASES. IF ANY DELAYS SHOULD ARISE FROM ANOTHER CONTRACTOR

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WORKING ON A DIFFERENT PHASE, CONTRACTOR'S SOLE REMEDY FOR DAMAGES, INCLUDING DELAY DAMAGES, SHALL BE AGAINST THE CONTRACTOR WHO CAUSED SUCH DAMAGE AND NOT THE DISTRICT. CONTRACTOR SHALL PROVIDE ACCESS TO OTHER CONTRACTORS FOR OTHER PHASES AS NECESSARY TO PREVENT DELAYS AND DAMAGES TO OTHER CONTRACTORS WORKING ON OTHER PHASES OF CONSTRUCTION.

6.1.2 District's Right to Carry Out the Work

(See Article 2.2)

6.1.3 Designation as Contractor

When separate contracts are awarded to contractors on the Project Site, the term "Contractor" in the Contract Documents in each case shall mean the Contractor who executes each separate District/Contractor Agreement.

6.1.4 District Notice to the Contractor of Other Contractors

The Contractor shall have overall responsibility to reasonably coordinate and schedule Contractor's activities with the activities of the District's forces and of each separate contractor with the Work of the Contractor, who shall cooperate with them. The Contractor shall participate with other separate contractors and the District in reviewing their construction schedules when:

- a. Notice is provided in the Contract Documents of other scope of Work,
- b. In the case where there is known Work to be performed by other Contractors
- c. For outside contractors hired by utilities
- d. Where the Contract Document provides "Work by Others" or "By Others"
- e. Where specifically noted during the Pre-Bid Conference
- f. Where specifically noted in the Mandatory Job Walk
- g. By CO or ICD,
- h. With respect to the installation of:
 - 1. Furniture,
 - 2. Electronics and networking equipment,
 - 3. Cabling,
 - 4. Low voltage,
 - 5. Off-site work,
 - 6. Grading (when by a separate contractor),
 - 7. Environmental remediation when excluded by the Contract Documents (i.e. asbestos, lead or other hazardous waste removal)
 - 8. Deep cleaning crews,

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9. Commissioning and testing,
10. Keying and re-keying,
11. Programming

6.1.4.1 Exception where no Coordination is Required on the Part of the Contractor for Turn Key Operations. If the Contractor has specifically outlined a “Turn Key” or “Complete Delivery” of a final completed operational school in writing as part of the Baseline Schedule.

6.1.4.2 The Contractor shall make any revisions to the Baseline Schedule (or Schedule Update) and Contract Sum deemed necessary after a joint review and mutual agreement. The Baseline Schedule (or Schedule Update) shall then constitute the Schedules to be used by the Contractor, separate contractors, and the District until subsequently revised. Additionally, Contractor shall coordinate with Architect, District, and Inspector to ensure timely and proper progress of Work.

6.2 CONSTRUCTIVE OWNERSHIP OF PROJECT SITE AND MATERIAL

Upon commencement of Work, the Contractor becomes the constructive owner of the entire site, improvements, material and equipment on Project site. Contractor must ensure proper safety and storage of all materials and assumes responsibility as if Contractor was the owner of the Project site. All risk of loss or damage shall be borne by Contractor during the Work until the date of Completion. As constructive owner of the Project site, Contractor must carry adequate insurance in case of calamity and is not entitled to rely on the insurance requirements as set forth in this Agreement as being adequate coverage in case of calamity.

6.3 DISTRICT’S RIGHT TO CLEAN UP

If a dispute arises among the Contractor, separate contractors, and the District as to the responsibility under their respective contracts for maintaining the premises and surrounding area free from waste materials and rubbish as described in Article 3.12, the District may clean up and allocate the cost among those it deems responsible.

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ARTICLE 7 CHANGES IN THE WORK

7.1 CHANGES

7.1.1 No Changes Without Authorization

There shall be no change whatsoever in the Drawings, Specifications, or in the Work without an executed Change Order, Change Order Request, Immediate Change Directive, or order by the Architect for a minor change in the Work as herein provided. District shall not be liable for the cost of any extra work or any substitutions, changes, additions, omissions, or deviations from the Drawings and Specifications unless the District's Governing Board or designated representative with delegated authority (subject to Board ratification) has authorized the same and the cost thereof approved in writing by Change Order or executed Construction Change Document. No extension of time for performance of the Work shall be allowed hereunder unless claim for such extension is made at the time changes in the Work are ordered, and such time duly adjusted in writing in the Change Order. The provisions of the Contract Documents shall apply to all such changes, additions, and omissions with the same effect as if originally embodied in the Drawings and Specifications. Notwithstanding anything to the contrary in this Article 7, all Change Orders shall be prepared and issued by the Architect and shall become effective when executed by the District's Governing Board, the Architect, and the Contractor.

Should any Change Order result in an increase in the Contract Price, the cost of such Change Order shall be agreed to, in writing, in advance by Contractor and District and be subject to the monetary limitations set forth in Public Contract Code section 20118.4 (Please check with the District since there are different interpretations of the limitations of Public Contract Code section 20118.4 depending on the County the Project is located). In the event that Contractor proceeds with any change in Work without first notifying District and obtaining the Architect's and District's consent to a Change Order, Contractor waives any Claim of additional compensation for such additional work and Contractor takes the risk that a Notice of Non-Compliance may issue, a critical path Project delay may occur, and the Contractor will also be responsible for the cost of preparation and DSA CCD review fees for a corrective DSA approved Construction Change Document.

CONTRACTOR UNDERSTANDS, ACKNOWLEDGES, AND AGREES THAT THE REASON FOR THIS NOTICE REQUIREMENT IS SO THAT DISTRICT MAY HAVE AN OPPORTUNITY TO ANALYZE THE WORK AND DECIDE WHETHER THE DISTRICT SHALL PROCEED WITH THE CHANGE ORDER OR ALTER THE PROJECT SO THAT SUCH CHANGE IN WORK BECOMES UNNECESSARY AND TO AVOID THE POSSIBLE DELAYS ASSOCIATED WITH THE ISSUANCE OF A NOTICE OF NON-COMPLIANCE.

7.1.2 Notices of Non-Compliance

Contractor deviation or changes from approved Plans and Specifications may result in the issuance of a Notice of Non-Compliance (See DSA Form 154). Contractor is specifically notified that deviations from the Plans and Specifications, whether major or minor, may result in the requirement to obtain a DSA Construction Change Document to correct the Notice of Non-Compliance. (See Article 7.3.1 for Definition of CCD). In some cases, the lack of a DSA approved CCD AND verification from the Inspector that a Notice of Non-Compliance has been corrected may result in a critical path delay to the next stage of Work on the Project. Specifically, a deviation from approved Plans and Specifications may prevent

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approval of the category of Work listed in the DSA 152 Project Inspection Card. Any delays that are caused by the Contractor's deviation from approved Plans and Specifications shall be the Contractor's responsibility.

7.1.3 Architect Authority

The Architect will have authority to order minor changes in the Work that do not involve DSA Approval not involving any adjustment in the Contract Sum, or an extension of the Contract Time.

7.2 CHANGE ORDERS ("CO")

A CO is a written instrument prepared by the Architect and signed by the District (as authorized by the District's Governing Board), the Contractor, and the Architect stating their agreement upon all of the following:

- a. A description of a change in the Work;
- b. The amount of the adjustment in the Contract Sum, if any; and
- c. The extent of the adjustment in the Contract Time, if any.

A CO may be comprised of ICD's, Response to RFP's and COR's

7.3 CONSTRUCTION CHANGE DOCUMENT (CCD Category A, and CCD Category B) and IMMEDIATE CHANGE DIRECTIVE (ICD)

7.3.1 Definitions

7.3.1.1 *Construction Change Document (CCD)*. A Construction Change Document is a DSA term that is utilized to address changes to the DSA approved Plans and Specifications. There are two types of Construction Change Documents. (1) DSA approved CCD Category A for Work affecting structural, access compliance or fire/ life safety of the Project which will require a DSA approval; and, (2) CCD Category B for work NOT affecting structural safety, access compliance or fire/ life safety that will not require a DSA approval (except to confirm that no approval is required). Both CCD Category A and Category B shall be set forth in DSA Form 140 and submitted to DSA as required.

7.3.1.2 *Immediate Change Directive (ICD)*. An Immediate Change Directive is a written order to the Contractor prepared by the Architect and signed by the District (and CM if there is a CM on the Project) and the Architect, directing a change in the Work and stating a proposed basis for adjustment, if any, in the Contract Sum or Contract Time, or both. The District may by ICD, without invalidating the Contract, direct immediate changes in the Work within the general scope of the Contract consisting of additions, deletions, or other revisions within. If applicable, the Contract Sum and Contract Time will be adjusted accordingly.

In the case of an Immediate Change Directive being issued, Contractor must commence Work immediately or delays from failure to perform the ICD shall be the responsibility of Contractor and the failure to move forward with Work immediately shall also be grounds for Termination under Article 14.

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An ICD does not automatically trigger an Article 7.6 Dispute or Claim. Contractor must timely follow the procedures outlined at Article 7.6 and 4.6 where applicable.

Refer to Division 1 and Supplementary General Conditions for a copy of the proposed Immediate Change Directive form.

7.3.2 Use to Direct Change

An ICD shall be used to move work forward immediately and to avoid delay. In some cases, an ICD shall be issued in the absence of agreement on the terms of a CO, COR, or RFP. A copy of an ICD form is provided in the Supplementary General Conditions and Division 1. The anticipated not to exceed price for the Work will be inserted into the ICD. In the case of an ICD issued to correct Contractor Deficiencies or to correct a Contractor caused Notice of Non-Compliance, the ICD may be issued with \$0 and no additional time. Contractor may prepare a COR associated with the ICD pursuant to Article 7. However, Contractor shall proceed with all Work required under an Approved ICD immediately upon issuance. Failure to proceed with the Work under an ICD shall be grounds for Termination for Cause under Article 14 or take over the Work under Article 2.2.

If adequate time exists, an ICD may be subject of an RFP for pricing and determination if any time that may be required. However, if an RFP is not completed, Contractor shall immediately commence Work when an ICD is issued. If the RFP is incomplete, it may still be completed to be submitted for pricing purposes as long as the RFP is submitted within the timeline provided by the RFP, or within 10 days following issuance of the ICD.

7.3.3 ICD Issued Over a Notice of Non-Compliance or to Cover Work Subject to a DSA 152 Sign Off

In some cases, an ICD shall be for the purpose of proceeding with Work to keep the Project on Schedule and as an acknowledgement by the District that Contractor is proceeding with Work contrary to a Notice of Non-Compliance, prior to issuance of a DSA approved CCD Category A, or to direct the covering of Work which has not yet received a DSA 152 Inspection Approval to move forward.

7.3.3.1 *Contractor Compliance with all Aspects of an ICD.* Contractor is to undertake the ICD and comply with all aspects of the Work outlined in the ICD. Inspector is to inspect the Work pursuant to the ICD. Failure to follow the ICD may result in deduction of the ICD Work under Article 2.2 or Termination of the Contractor pursuant to Article 14.

7.3.3.2 *Exception in the Case of DSA Issued Stop Work Order.* Contractor must proceed with an ICD even if a CCD has not been approved by DSA except in the case of a DSA issued Stop Work Order. If a DSA Stop Work Order is issued, Contractor must stop work and wait further direction from the District.

7.3.3.3 *ICD Due to Contractor Deficiency or Contractor Caused Notice of Non-Compliance.* If an ICD is issued to correct a Contractor Deficiency or a Contractor caused notice of Non-Compliance, Contractor specifically acknowledges responsibility for all consequential damages associated with the Contractor Deficiency or Contractor caused Notice of Non-Compliance and all consequential damages and costs incurred to correct the deficiency under Article 4.5

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7.4 REQUEST FOR INFORMATION (“RFI”)

7.4.1 Definition

A RFI is a written request prepared by the Contractor requesting the Architect to provide additional information necessary to clarify or amplify an item which the Contractor believes is not clearly shown or called for in the Drawings or Specifications, or to address problems which have arisen under field conditions.

7.4.1.1 A RFI shall not be used as a vehicle to generate time extensions.

7.4.1.2 Resubmission of the same or similar RFI is not acceptable. RFI’s that are similar should be addressed in Project meetings where the requestor (Contractor, Subcontractor or vendor) is able to address the particular issue with the Architect or Engineer and a resolution addressed in the minutes.

7.4.1.3 A RFI response applicable to a specific area cannot be extended to other situations unless specifically addressed in writing within the RFI or in a separate RFI.

7.4.1.4 RFI’s should provide a proposed solution and should adequately describe the problem that has arisen.

7.4.2 Scope

The RFI shall reference all the applicable Contract Documents including Specification section, detail, page numbers, Drawing numbers, and sheet numbers, etc. The Contractor shall make suggestions and interpretations of the issue raised by the RFI. An RFI cannot modify the Contract Cost, Contract Time, or the Contract Documents.

7.4.3 Response Time

The Architect must respond to a RFI within a reasonable time after receiving such request. If the Architect’s response results in a change in the Work, then such change shall be effected by a written CO, COR RFP or ICD, if appropriate. If the Architect cannot respond to the RFI within a reasonable time, the Architect shall notify the Contractor, with a copy to the Inspector and the District, of the amount of time that will be required to respond.

7.4.4 Costs Incurred

The Contractor shall be responsible for any costs incurred for professional services as more fully set forth in Article 4.5, which shall be subject to a Deductive Change Order, if an RFI requests an interpretation or decision of a matter where the information sought is equally available to the party making such request. District, at its sole discretion, shall issue a Deductive Change Order to Contractor for all such professional services arising from this Article.

7.5 REQUEST FOR PROPOSAL (“RFP”)

7.5.1 Definition

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A RFP is a written request prepared by the Architect (and/or CM) requesting the Contractor to submit to the District and the Architect an estimate of the effect of a proposed change on the Contract Price and (if applicable) the Contract Time. If Architect issues a Bulletin, the Changed items in the Bulletin shall be addressed as an RFP and all responses shall be prepared to a Bulletin as addressed in this Article 7.5. A form RFP is included in the Division 1 documents.

7.5.2 Scope

A RFP shall contain adequate information, including any necessary Drawings and Specifications, to enable Contractor to provide the cost breakdowns required by Article 7.7. The Contractor shall not be entitled to any Additional Compensation for preparing a response to an RFP, whether ultimately accepted or not.

7.5.3 Response Time

Contractor shall respond to an RFP within ten (10) days or the time period otherwise set forth in the RFP.

7.6 CHANGE ORDER REQUEST ("COR")

7.6.1 Definition

A COR is a written request prepared by the Contractor supported by backup documentation requesting that the District and the Architect issue a CO based upon a proposed change, cost, time, or cost and time that may be incurred on the Project or arising from an RFP, ICD, or CCD.

7.6.2 Changes in Price

A COR shall include breakdowns per Article 7.7 to validate any change in Contract Price due to proposed change or Claim.

7.6.3 Changes in Time

A COR shall also include any additional time required to complete the Project only if the delay is a critical path delay. Any additional time requested shall not be the number of days to make the proposed change, but must be based upon the impact to the Project Schedule as defined in Article 8. A schedule fragnet showing the time delay must be submitted with the COR. Any changes in time will be granted only if there is an impact to the critical path. If Contractor fails to request a time extension in a COR, then the Contractor is thereafter precluded from requesting or claiming a delay.

7.7 COST OF CHANGE ORDERS

7.7.1 Scope

Within ten (10) days after a request is made for a change that impacts the Contract Sum as defined in Article 9.1, the critical path, or the Contract Time as defined in Article 8.1.1, the Contractor shall provide the District and the Architect, with a written estimate of the effect of the proposed CO upon the Contract Sum and the actual cost of construction, which shall include a complete itemized cost breakdown of all labor and material showing actual quantities, hours, unit prices, and wage rates required for the change, and the effect upon the Contract Time of such CO. Changes may be made by District by an

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appropriate written CO, or, at the District's option, such changes shall be implemented immediately upon the Contractor's receipt of an appropriate written Construction Change Document.

District may, as provided by law and without affecting the validity of this Agreement, order changes, modification, deletions and extra work by issuance of written CO or CCD from time to time during the progress of the Project, Contract Sum being adjusted accordingly. All such Work shall be executed under conditions of the original Agreement except that any extension of time caused thereby shall be adjusted at time of ordering such change. District has discretion to order changes on a "time and material" basis with adjustments to time made after Contractor has justified through documentation the impact on the critical path of the Project.

7.7.1.1 *Time and Material Charges.* If the District orders Work on a "time and material" basis, timesheets shall be signed daily by the Inspector or District Representative at or near the time the Work is actually undertaken and shall show the hours worked, and the Work actually completed. No time sheets shall be signed the next day. A copy shall be provided to the Person signing the document at the time the document is signed, but not before 10 am the following day.

7.7.2 Determination of Cost

The amount of the increase or decrease in the Contract Price from a CO or COR, if any, shall be determined in one or more of the following ways as applicable to a specific situation:

- a. **Mutual acceptance** of a lump sum properly itemized and supported by sufficient substantiating data to permit evaluation. If an agreement cannot be reached within fifteen (15) days after submission and negotiation of Contractor's proposal, Contractor may submit pursuant to Article 7.7.3. Submission of sums which have no basis in fact are at the sole risk of Contractor and may be a violation of the False Claims Act set forth under Government Code section 12650 et seq.);
 1. If the District objects to 7.7.2(a) as a method for submission due to inaccuracies in the submitted amount, overstatement of manpower or time required to perform the CO, or unreliability of the data provided, the District may either have the Architect or a professional estimator determine the cost for the CO, and the applicable time extension, or the Contractor shall utilize Article 7.7.2(d) or 7.7.3.
 2. Once the District provides a written objection to use of Article 7.7.2(a) due to unreliability of the estimated price, the Contractor shall no longer utilize mutual acceptance of a lump sum as a method for submission of CO's and shall provide a breakdown of estimated or actual costs pursuant to Article 7.7.2(d) or 7.7.3
- b. By unit prices contained in Contractor's original bid and incorporated in the Project documents or fixed by subsequent agreement between District and Contractor;
- c. Cost to be determined in a manner agreed upon by the parties and a mutually acceptable fixed or percentage fee. However, in the case of disagreement, Contractor must utilize the procedure under Article 7.7.3; or

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- d. By cost of material and labor and percentage of overhead and profit. If the value is determined by this method the following requirements shall apply:

1. *Basis for Establishing Costs*

- (1) Labor will be the cost for wages prevailing locally for each craft or type of workers at the time the extra Work is done, plus employer payments of payroll taxes and workers compensation insurance (exclude insurance costs as part of the overhead and profit mark-up), health and welfare, pension, vacation, apprenticeship funds, and other direct costs resulting from Federal, State, or local laws, as well as assessments or benefits required by lawful collective bargaining agreements. In no case shall the total labor costs exceed the applicable prevailing wage rate for that particular classification. The use of a labor classification which would increase the extra Work cost will not be permitted unless the Contractor establishes the necessity for such additional costs. Labor costs for equipment operators and helpers shall be reported only when such costs are not included in the invoice for equipment rental.
- (2) Materials shall be at invoice or lowest current price at which such materials are locally available and delivered to the Site in the quantities involved, plus sales tax, freight, and delivery. The District reserves the right to approve materials and sources of supply or to supply materials to the Contractor if necessary for the progress of the Work. No markup shall be applied to any material provided by the District.
- (3) Tool and Equipment Rental. No payment will be made for the use of tools which have a replacement value of \$250 or less.

Regardless of ownership, the rates to be used in determining equipment rental costs shall not exceed listed rates prevailing locally at equipment rental agencies or distributors at the time the Work is performed. Rates applied shall be appropriate based on actual equipment need and usage. Monthly, weekly or other extended use rates that results in the lowest cost shall be applied if equipment is used on site for extended periods.

The rental rates paid shall include the cost of fuel, oil, lubrication, supplies, small tools, necessary attachments, repairs and maintenance of any kind, depreciation, storage, insurance, and all incidentals.

Necessary loading and transportation costs for equipment used on the extra Work shall be included. If equipment is used intermittently and, when not in use, could be returned to its rental source at less expense to the District than holding it at the Work Site, it shall be returned unless the Contractor elects to keep it at the Work Site at no expense to the District.

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All equipment shall be acceptable to the Inspector, in good working condition, and suitable for the purpose for which it is to be used. Manufacturer's ratings and modifications shall be used to classify equipment, and equipment shall be powered by a unit of at least the minimum rating recommended by the manufacturer.

If tool and equipment charges are part of a Dispute or Claim, the District reserves the right to utilize actual costs for tools and equipment or a depreciation rate for equipment based on audit finding under Article 13.11 and deduct any rental charges that exceed actual or depreciated costs.

- e. Other Items. The District may authorize other items which may be required on the extra work. Such items include labor, services, material, and equipment which are different in their nature from those required by the Work, and which are of a type not ordinarily available from the Contractor or any of the Subcontractors. Invoices covering all such items in detail shall be submitted with the request for payment.
- f. Invoices. Vendors' invoices for material, equipment rental, and other expenditures shall be submitted with the COR. If the request for payment is not substantiated by invoices or other documentation, the District may establish the cost of the item involved at the lowest price which was current at the time of the Daily Report.
- g. Overhead. Overhead, including direct and indirect costs, shall be submitted with the COR and include: field overhead, home office overhead, off-site supervision, CO preparation/negotiation/research, time delays, Project interference and disruption, additional guaranty and warranty durations, on-site supervision, additional temporary protection, additional temporary utilities, additional material handling costs, liability and property damage insurance, and additional safety equipment costs.

7.7.3 Format for COR or CO's

The following format shall be used as applicable by the District and the Contractor to communicate proposed additions to the Contract. All costs submitted shall be actual costs and labor shall be unburdened labor. Refer to Division 1 for a copy of the Construction Change Order form.

	<u>EXTRA</u>	<u>CREDIT</u>
(a) Material (attach itemized quantity and unit cost plus sales tax)		
(b) Labor Not to Exceed Applicable Prevailing Wage Rates (attach itemized hours and rates)		
(c) Equipment (attach invoices)		
(d) Subtotal		

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		<u>EXTRA</u>	<u>CREDIT</u>
(e)	If Subcontractor performed work, add Subcontractor's overhead and profit to portions performed by Subcontractor, not to exceed 10% of item (d).		
(f)	Subtotal		
(g)	Contractor's Overhead and Profit: Not to exceed 10% of Item (d) if Contractor performed the work. No more than 5% of Item (d) if Subcontractor performed the work. If work was performed by Contractor and Subcontractors, portions performed by Contractor shall not exceed 10% of Item (d), and portions performed by Subcontractor shall not exceed 10% of Item (d).		
(h)	Subtotal		
(i)	Bond not to exceed one percent (1%) of Item (h)		
(k)	TOTAL		
(l)	Time/ Days		

The undersigned Contractor approves the foregoing Change Order or Immediate Change Directive as to the changes, if any, and the Contract price specified for each item and as to the extension of time allowed, if any, for completion of the entire Work on account of said Change Order or Immediate Change Directive, and agrees to furnish all labor, materials and service and perform all Work necessary to complete any additional Work specified therein, for the consideration stated herein. It is understood that said Change Order or Immediate Change Directive shall be effective when approved by the Governing Board of the District.

It is expressly understood that the value of such extra Work or changes, as determined by any of the aforementioned methods, expressly includes any and all of the Contractor's costs and expenses, both direct and indirect, resulting from additional time required on the Project or resulting from delay to the Project. Any costs, expenses, damages or time extensions not included are deemed waived.

The Contractor expressly acknowledges and agrees that any change in the Work performed shall not be deemed to constitute a delay or other basis for claiming additional compensation based on theories including, but not limited to, acceleration, suspension or disruption to the Project.

7.7.3.1 Adjustment for Time and Compensable Delay. A CO shall also include any additional time required to complete the Project. Any additional time requested shall not be the number of days to make the proposed change, but must be based upon the impact to the Project Schedule as defined

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in Article 8 of the General Contract. A schedule fragment showing the time delay must be submitted with the CO. Any changes in time will be granted only if there is an impact to the critical path. If Contractor fails to request a time extension in a CO, then the Contractor is thereafter precluded from requesting or claiming a delay.

7.7.4 Deductive Change Orders

All Deductive Change Order(s) must be prepared utilizing the form under Article 7.7.3 (a) – (d) only, setting forth the actual costs incurred. Except in the case of an Article 2.2 or 9.6 Deductive Change Order where no mark-up shall be allowed, Contractor will be allowed a maximum of 5% total profit and overhead.

For unilateral Deductive Change Orders, or where credits are due from Contractor for Allowances, Deductive Items, Inspection, Damage, DSA CCD review costs, Architect or Inspector costs for after hours or corrective services, Work removed from the Agreement under Article 2.2 or Article 9.6, there shall be no mark-up.

District may, any time after a Deductive Change Order is presented to Contractor by District for items under Article 2.2 or Article 9.6 or if there is disagreement as to the Deductive Change Order, issue a unilateral Deductive Change Order on the Project and deduct the Deductive Change Order from a Progress Payment, Final Payment, or Retention.

7.7.5 Discounts, Rebates, and Refunds

For purposes of determining the cost, if any, of any change, addition, or omission to the Work hereunder, all trade discounts, rebates, refunds, and all returns from the sale of surplus materials and equipment shall accrue and be credited to the Contractor, and the Contractor shall make provisions so that such discounts, rebates, refunds, and returns may be secured, and the amount thereof shall be allowed as a reduction of the Contractor's cost in determining the actual cost of construction for purposes of any change, addition, or omissions in the Work as provided herein. All CO's are subject to Audit under Article 13.11 for discounts, rebates and refunds.

7.7.6 Accounting Records

With respect to portions of the Work performed by CO's and CCD's on a time-and-materials, unit-cost, or similar basis, the Contractor shall keep and maintain cost-accounting records in a format consistent with accepted accounting standards and satisfactory to the District, which shall be available to the District on the same terms as any other books and records the Contractor is required to maintain under the Contract Documents.

Any time and material charges shall require Inspector's signature on time and material cards showing the hours worked and the Work actually completed. (See Article 7.7.1.1)

7.7.7 Notice Required

If the Contractor desires to initiate a Dispute or Claim for an increase in the Contract Price, or any extension in the Contract Time for completion, Contractor shall notify the applicable party responsible for addressing the Dispute or Claim pursuant to Article 4.6. No Claim or Dispute shall be considered unless made in accordance with this subparagraph. Contractor shall proceed to execute the

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Work even though the adjustment may not have been agreed upon. Any change in the Contract Price or extension of the Contract Time resulting from such Claim shall be authorized by a CO.

7.7.8 Applicability to Subcontractors

Any requirements under this Article 7 shall be equally applicable to CO's, COR's or ICD's issued to Subcontractors by the Contractor to the same extent required by the Contractor.

7.7.9 Alteration to Change Order Language

Contractor shall not alter or reserve time in COR's, CO's or ICD's. Contractor shall execute finalized CO's and proceed under Article 7.7.7 and Article 4.6 with proper notice. If Contractor intends to reserve time without an approved CPM schedule prepared pursuant to Article 8 or without submitting a fragnet showing delay to critical path, then Contractor may be prosecuted pursuant to the False Claim Act.

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ARTICLE 8 TIME AND SCHEDULE

8.1 DEFINITIONS

8.1.1 Contract Time

Contractor shall perform and reach Substantial Completion (See Article 1.1.46) within the time specified in the Agreement Form. Moreover, Contractor shall perform its Work in strict accordance with the Project Milestones in the Contract Documents and shall proceed on a properly developed and approved Baseline Schedule, which represents the Contractor's view of the practical way in which the Work will be accomplished. Note that Contract Time includes and incorporates all Float and other Baseline inclusions as noted in Article 8.3.2.1 and as otherwise specifically noted in Article 8.

8.1.2 Notice to Proceed

District may give a Notice to Proceed within ninety (90) days of the award of the bid by District. Once Contractor has received the notice to proceed, Contractor shall complete the Work in the period of time referenced in the Contract Documents.

In the event that District desires to postpone the giving of the Notice to Proceed beyond this three-month period, it is expressly understood that with reasonable notice to the Contractor, the giving of the date to proceed may be postponed by District. It is further expressly understood by Contractor, that Contractor shall not be entitled to any claim of additional compensation as a result of the postponement of the giving of the notice to proceed

If the Contractor believes that a postponement will cause a hardship to Contractor, Contractor may terminate the Contract with written notice to District within 10 days after receipt by Contractor of District's notice of postponement. It is further understood by Contractor that in the event that Contractor terminates the Contract as a result of postponement by the District, the District shall only be obligated to pay Contractor for the Work that Contractor had performed at the time of notification of postponement and the grounds for notification and hardship shall be subject to Audit pursuant to Article 13.11. Should Contractor terminate the Contract as a result of a notice of postponement, District may award the Contract to the next lowest responsible bidder.

8.1.3 Computation of Time

The term "day" as used in the Contract Documents shall mean calendar day unless otherwise specifically defined.

8.1.4 Float

Float is time the total number of days an activity may be extended or delayed without delaying the Completion Date shown in the schedule. Float will fall into three categories: (1) Rain Days; (2) Governmental Delays; and, (3) Project Float. Project Float and Rain Days are owned by the Project and may be utilized as necessary for critical path delays once the days become available for consumption (i.e. the Rain Day arrives and is not utilized since rain did not occur or Work was performed on the interior of a building). However, Governmental Delay float shall not be utilized for purposes other than to address critical path delays that arise due to approvals, Inspector approvals or verifications on governmental forms.

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8.1.4.1 *Governmental Delay Float.* It is anticipated that there will be governmental generated delays. Specific to DSA approvals, it is anticipated that no less than twelve (12) days per calendar year shall be set aside as Governmental Float to be utilized on critical path delays. A pro-rated number of days shall be calculated based on length of Contract Time. (For example, a two (2) year Contract Time shall require twenty-four (24) days of Governmental Float. If the Contract Time is 182 days, then the Contract Time shall require six (6) days of Governmental Float). This Governmental Delay float must be incorporated into the schedule and should be incorporated in each critical activity as Contractor deems fit. Specifically, major categories of Work under the DSA 152 (Project Inspection Card) should be allocated Governmental Delay Float at the Contractor's discretion. Governmental Delay Float on the Project may exceed 12 days per one (1) year period, but Contractor is required to include not be less than 12 days of Governmental Delay Float during each one (1) year period.

Contractor's failure to establish a protocol for requesting inspections is not grounds to utilize Governmental Delay Float. As noted in Article 3.1.4, 48 hours advance notice of commencing Work on a new area is required after submitting form DSA 156 and under PR 13-01 Special Inspection reports are not required to be posted until at least 14 days after the Work was inspected. Failure to plan, and pay (if applicable) for quicker delivery of Special Inspections is not Governmental Delay Float under Article 8.1.4.1. If Governmental Delay Float is not utilized, this float is carried through to other DSA 152 categories of inspection and consumed over the course of the Project

Governmental Delay Float may be utilized for a DSA Stop Work Order regardless of fault as defined under Education Code section 17307.5(b).

8.1.4.2 *Inclement Weather (Rain Days).* The Contractor will only be allowed a time extension for unusually severe weather if it results in precipitation or other conditions which in the amount, frequency, or duration is in excess of the norm at the location and time of year in question as established by NOAA weather data. No less than 22 calendar days for each calendar year for Southern California will be allotted for in the Contractor's schedule for each winter weather period or carried at the end of the schedule as Rain Float. Float for weather days in other geographical regions shall be adjusted based on NOAA weather data for the geographical location. Contractor has anticipated all the days it takes to dry out and re-prepare areas that may be affected by weather delays which extend beyond the actual weather days. The weather days shall be shown on the schedule and if not used will become float for the Project's use. The Contractor will not be allowed a day-for-day weather delay for periods noted as float in the Schedule. The Contractor is expected to work seven (7) days per week (if necessary, irrespective of inclement weather), to maintain access, and to protect the Work under construction from the effects of inclement weather. Additional days beyond the NOAA shall be considered under the same criteria that weather days are granted below.

A Rain Day shall be granted by Architect or CM if the weather prevents the Contractor from beginning Work at the usual daily starting time, or prevents the Contractor from proceeding with seventy-five (75%) of the normal labor and equipment force towards completion of the day's current controlling item on the accepted schedule for a period of at least five hours, and the crew is dismissed as a result thereof, the Architect will designate such time as unavoidable delay and grant one (1) critical path activity calendar-day extension if there is no available float for the calendar year.

8.1.4.3 *Project Float.* The Contractor may determine some activities require a lesser duration than allocated and may set aside float in the Project Schedule. There shall be no early completion. Instead, to the extent float is either addressed at the end of the Project or throughout each category of critical path work, Project float may be used as necessary during the course of the Project and allocated on a first,

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come first serve basis. However, the use of float does not extend to Governmental Delay Float, which shall only be used for Governmental Delays.

8.2 HOURS OF WORK

8.2.1 Sufficient Forces

Contractors and Subcontractors shall continuously furnish sufficient forces to ensure the prosecution of the Work in accordance with the Construction Schedule.

8.2.2 Performance During Working Hours

Work shall be performed during regular working hours as permitted by the appropriate governmental agency except that in the event of an emergency, or when required to complete the Work in accordance with job progress, Work may be performed outside of regular working hours with the advance written consent of the District and approval of any required governmental agencies.

8.2.3 Costs for After Hours Inspections

If the Work done after hours is required by the Contract Documents, a Recovery Schedule, or as a result of the Contractor's failure to plan, and inspection must be conducted outside the Inspector's regular working hours, the costs of any after hour inspections, shall be borne by the Contractor.

If the District allows the Contractor to do Work outside regular working hours for the Contractor's convenience, the costs of any inspections required outside regular working hours shall be invoiced to the Contractor by the District and a Deductive Change Order shall be issued from the next Progress Payment.

If the Contractor elects to perform Work outside the Inspector's regular working hours, costs of any inspections required outside regular working hours shall be invoiced to the Contractor by the District and a Deductive Change Order from the next Progress Payment as a Deductive Change Order.

8.3 PROGRESS AND COMPLETION

8.3.1 Time of the Essence

Time limits stated in the Contract Documents are of the essence to the Contract. By executing the Agreement, the Contractor confirms that the Contract Time is a reasonable period for performing the Work.

8.3.2 Baseline Schedule Requirements

8.3.2.1 *Timing:* Within ten (10) calendar days after Notice to Proceed, Contractor shall submit a practical schedule showing the order in which the Contractor proposes to perform the Work, and the dates on which the Contractor contemplates starting and completing the salient categories of the Work. This first schedule which outlines the Contractor's view of the practical way in which the Work will be accomplished is the Baseline Schedule. If the Contractor Fails to submit the Baseline Schedule within the ten (10) days noted, then District may withhold processing and approval of progress payments pursuant to Article 9.4 and 9.6.

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8.3.2.2 *District Review and Approval:* District, Architect and CM will review both a paper and electronic copy of Baseline Schedule and may provide comments as noted in this Article and either approve or disapprove the Baseline Schedule. All Schedules shall be prepared using an electronic scheduling program acceptable to District. All Schedules shall be delivered in an electronic format usable by the District. All logic ties and electronic information shall be included in the electronic copy of the Baseline Schedule that is delivered to the District.

8.3.2.3 *Schedule Must Be Within the Given Contract Time.* The Baseline Schedule shall not exceed time limits set forth in the Contract Documents and shall comply with all of the scheduling requirements as set forth in the Specifications and Contract Documents.

8.3.2.4 *Submittals Must Be Incorporated (See Articles 3.7 and 3.9):* Contractor shall include Submittals as line items in the Baseline Schedule as required under Article 3.7.2 and 3.9.6. Submittals shall not delay the Work, Milestones, or the Completion Date. Failure to include Submittals in the Baseline Schedule shall be deemed a material breach by the Contractor.

8.3.2.5 *Float Must Be Incorporated.* The Baseline Schedule must indicate the beginning and completion of all phases of construction and shall use the “critical path method” (commonly called CPM) for the value reporting, planning and scheduling, of all Work required under the Contract Documents. The Baseline Schedule must incorporate all Milestones in the Project and apply Governmental Float at each Milestone in the Contractor’s discretion. The Baseline Schedule shall incorporate any Schedule provided by the District as part of the bid and shall note durations that will not be adequate or should be shortened based on Contractor’s review. These changes shall be identified and incorporated into Contractor’s Baseline Schedule as long as requested changes are made within 10 days after the District chooses to move forward with the Project. Scheduling is necessary for the District’s adequate monitoring of the progress of the Work and shall be prepared in accordance with the time frame described in this Article 8. The Architect may disapprove of any Schedule or require modification to it if, in the opinion of the Architect or District, adherence to the any Schedule prepared by the Contractor will not cause the Work to be completed in accordance with the Agreement.

8.3.2.6 *No Early Completion.* Contractor shall not submit any Schedule showing early completion without indicating float time through the date set for Project completion by District. Contractor’s Baseline Schedule shall account for all days past early completion as float which belongs to the Project. Usage of float shall not entitle Contractor to any delay Claim or damages due to delay.

8.3.2.7 *Use of Schedule Provided in Bid Documents.* In some cases, the bid will include a preliminary schedule indicating Milestones and construction sequences for the Project along with general timing for the Project. The preliminary schedule is not intended to serve as the Baseline Schedule utilized for construction. It is up to the Contractor to study and develop a Baseline Schedule to address the actual durations and sequences of Work that is anticipated while maintaining the Milestones provided by the District. Contract shall obtain information from Contractor’s Subcontractors and vendors on the planning, progress, delivery of equipment, coordination, and timing of availability of Subcontractors so a practical plan of Work is fully developed and represented in the Baseline Schedule.

8.3.2.8 *Incorrect Logic, Durations, Sequences, or Critical Path.* The District may reject or indicate durations, sequences, critical path or logic are not acceptable and request changes. The electronic copy of the Baseline Schedule shall have adequate information so logic ties, duration, sequences and critical path may be reviewed electronically. Contractor is to diligently rebuild and resubmit the Baseline Schedule to represent the Contractor’s plan to complete the Work and maintain Milestones at the next progress meeting, or before the next progress meeting. If Contractor is not able to build a Baseline

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Schedule that is acceptable to the District or Architect, the District reserves the right to utilize the unapproved originally submitted Baseline Schedule (See Article 8.3.2.12) and the comments submitted to hold Contractor accountable for timely delivery of Work and maintenance of Milestones. Furthermore, Contractor's representations in the Baseline Schedule, if unacceptable, may also be used as a basis for termination of the Contract under Article 14 if Contractor fails to adequately maintain the Schedule and falls significantly behind without undertaking the efforts to either submit and follow a Recovery Schedule or fail to submit a Recovery Schedule and make no effort toward recovery on the Project.

8.3.2.9 *Contractor Responsibility Even if Schedule Issues Are Not Discovered.* Failure on the Part of the District to discover errors or omissions in any Schedules submitted shall not be construed to be an approval of the error or omission and any flawed Schedule is not grounds for a time extension.

8.3.2.9 Inclusions in Baseline Schedule. In addition to scheduling requirements set forth at Article 8.3.2, Contractor is specifically directed to include (broken out separately) in Contractor's Baseline Schedule and all Schedule updates, the following items required pursuant to these General Conditions, including but not limited to:

1. Rain Day Float (excluding inclement weather) as required under Article 8.1.4.2. For example, if the NOAA provides 22 days of Rain Days, all 22 days must be incorporated and noted in the Baseline Schedule. Further, any days required to clean-up or dry out shall be included for operations that are likely to require a clean-up or dry out period. Days that are not utilized shall be considered float owned by the Project.
2. Governmental Delay Float under Article 8.1.4.1. This Governmental Delay Float shall only be utilized for Governmental Delays and shall not be considered available float owned by the Project. This float shall only be distributed to the Project upon the completion of the Project and shall be used to offset Liquidated Damages and shall not generate compensable delays.
3. Submittal and Shop Drawing schedule under Article 3.9.
4. Deferred Approvals under Article 3.9.
5. Time for separate contractors, including furniture installation and start up activities, under Article 6.1.
6. Coordination and timing of any Drawings, approvals, notifications, permitting, connection, and testing for all utilities for the Project. (See Article 2.1.4).
7. Testing, special events, or school activities

8.3.2.10 *Failure to include Mandatory Schedule Items.* District may withhold payment pursuant to Articles 9.3, 9.4 and 9.6. In lieu of withholding payment for failure to include Mandatory Schedule Items, after the District or Architect has notified the Contractor of failure to meet the Baseline Schedule or Updated Schedule requirements and provided a written notification of this failure and provided a written notice of Schedule preparation errors, and the Contractor fails to correct the noted deficiencies or

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the Contractor does not provide an updated Baseline Schedule correcting the deficiencies, then Contractor shall not be granted an extension of time for failure to obtain necessary items and approvals under Article 8.3.2 and for the time required for failure to comply with laws, building codes, and other regulations (including Title 24 of the California Code of Regulations). Contractor shall maintain all required Article 8.3.2 Schedule items in the Baseline Schedule and indicate any days that have been used as allowed in Article 8. If Contractor fails to include all Article 8.3.2 items in its Baseline Schedule or Schedule Updates and the District either utilizes an Unapproved Schedule under Article 8.3.2.12 or does not object to the inclusion of required scheduling items, then all mandatory Schedule inclusions, including float, shall be utilized in the District's discretion. If the Contract Time is exceeded, then Contractor shall be subject to the assessment of Liquidated Damages pursuant to Article 8.4.

8.3.2.11 *Failure to Meet Requirements.* Failure of the Contractor to provide proper Schedules as required by this Article and Article 9 is a material breach of the Contract and grounds for Termination pursuant to Article 14. The District, at its sole discretion, may choose, instead, to withhold, in whole or in part, any Progress Payments or Retention amounts otherwise payable to the Contractor.

8.3.2.12 *Use of an Unapproved Baseline Schedule.* If the Baseline Schedule submitted by the Contractor is unacceptable to the District (i.e. failing to meet the requirements of Article 8.3.2) and Contractor does not incorporate or address the written comments to the Baseline Schedule and a Baseline Schedule is not approved, but due to extreme necessity, the District moves forward without an approved Baseline Schedule, Contractor shall diligently revise and meet Schedule update requirements of Article 8 and incorporate all Article 8.3.2 comments in all updates). However, for purposes of Termination pursuant to Article 14, the unapproved Baseline Schedule initially submitted shall be treated as the Baseline Schedule with durations shortened or revised to accommodate all float, all mandatory Schedule requirements under Article 8.3.2, any requirements in the Contract Documents, and all revisions by the District or Architect.

8.3.3 Update Schedules

8.3.3.1 *Updates Shall Be Based on Approved Baseline Schedule.* Except in the case where there has not been agreement as to a Baseline Schedule, the approved Baseline Schedule shall be used to build future Schedule updates. Schedule updates shall be a CPM based Schedule consistent with the Baseline Schedule requirements of 8.3.2

In the case that no Baseline has been approved, Schedule updates shall be provided monthly, and each update shall incorporate all comments and revisions noted as not complying with the requirements of Article 8.3.2. Contractor shall be held to the Article 8.3.2.12 unapproved Baseline Schedule, inclusive of all Milestones, float, comments and revisions by the District and Architect, all required Baseline Schedule Inclusions under Article 8.3.2, and any requirements in the Contract Documents.

8.3.3.2 *Schedule Updates.* Contractor shall update the approved Schedule each month to address actual start dates and durations, the percent complete on activities, actual completion dates, estimated remaining duration for the Work in progress, estimated start dates for Work scheduled to start at future times and changes in duration of Work items

8.3.3.3 *Listing of Items Causing Delays.* Schedule updates shall provide a listing of activities which are causing delay in the progress of Work and a narrative shall be provided showing a description of problem areas, anticipated delays, and impacts on the Construction Schedule. Simply stating "District Delay" or "Architect Delay" shall be an inadequate listing. Delays shall only be listed if they meet the requirements of Article 8.4.

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8.3.3.4 *Recovery Schedule.* In addition to providing a schedule update every thirty (30) days, the Contractor, if requested by the Architect or District, shall take the steps necessary to improve Contractor's progress and demonstrate to the District and Architect that the Contractor has seriously considered how the lost time, the Completion Date, or the Milestones that are required to be met within the terms of the Contract. Contractor shall immediately provide a Recovery Schedule showing how Milestones and the Completion Date will be met. In no case, shall a Recovery Schedule be provided later than ten (10) days following the request for a Recovery Schedule from the Architect or District.

- a. Failure to Provide a Recovery Schedule. Shall subject Contractor to the assessment of Liquidated Damages for failure to meet the Contract Time. Refusal or failure to provide a Recovery Schedule shall be considered a substantial failure of performance and a material breach of Contract and may result in Termination of the Contract pursuant to Article 14.
- b. Recovery Schedule Acceleration without Additional Cost. The District may require Contractor prepare a Recovery Schedule showing how the Project shall be accelerated, without any additional cost to the District. The District may order, without additional cost, the following:
 - 1. Increase the number of shifts;
 - 2. Utilize overtime to recover the approved Schedule; and/or
 - 3. Increase the days when Work occurs, including weekends, at the Project and at any manufacturer's plant.
- c. Recovery Schedule Acceleration without Additional Cost. If Contractor disputes that the Recovery Schedule acceleration shall be issued without additional costs, the Contractor shall submit concurrent with Recovery Schedule acceleration notice pursuant to Articles 8.4.3 and 8.4.4.

8.4 EXTENSIONS OF TIME - LIQUIDATED DAMAGES

8.4.1 Liquidated Damages

CONTRACTOR AND DISTRICT HEREBY AGREE THAT THE EXACT AMOUNT OF DAMAGES FOR FAILURE TO COMPLETE THE WORK WITHIN THE TIME SPECIFIED IS EXTREMELY DIFFICULT OR IMPOSSIBLE TO DETERMINE. IF THE WORK IS NOT SUBSTANTIALLY COMPLETED IN THE TIME SET FORTH IN THE AGREEMENT, IT IS UNDERSTOOD THAT THE DISTRICT WILL SUFFER DAMAGES. IT BEING IMPRACTICAL AND UNFEASIBLE TO DETERMINE THE AMOUNT OF ACTUAL DAMAGE, IT IS AGREED THE CONTRACTOR SHALL PAY TO THE DISTRICT THE AMOUNT LIQUIDATED DAMAGES SET FORTH IN THE AGREEMENT, FOR EACH CALENDAR DAY OF DELAY IN REACHING SUBSTANTIAL COMPLETION (SEE ARTICLE 1.1.46). CONTRACTOR AND ITS SURETY SHALL BE LIABLE FOR THE AMOUNT THEREOF PURSUANT TO GOVERNMENT CODE SECTION 53069.85.

8.4.2 Delay

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Except and only to the extent provided under Article 7 and Article 8, by signing the Agreement, Contractor agrees to bear the risk of delays to Completion of the Work and that Contractor's bid for the Project was made with full knowledge of this risk.

In agreeing to bear the risk of delays to complete the Work, Contractor understands that, except and only to the extent provided otherwise in Article 7 and 8, the occurrence of events that delay the Work shall not excuse Contractor from its obligation to achieve Completion of the Project within the Contract Time and shall not entitle the Contractor to an adjustment to the Contract time.

8.4.3 Excusable Delay

Contractor shall not be charged for Liquidated Damages because of any delays in completion of Work which are not the fault or negligence of Contractor or its Subcontractors, arising from Rain Float or Project Float, including acts of God, as defined in Public Contract Code section 7105, acts of enemy, epidemics and quarantine restrictions. Contractor shall within five (5) calendar days of beginning of any such delay notify District in writing of causes of delay; thereupon District shall ascertain the facts and extent of delay and grant extension of time for completing Work when, in its judgment, the findings of fact justify such an extension. Extensions of time shall apply only to that portion of Work affected by delay and shall not apply to other portions of Work not so affected. An extension of time may only be granted after proper compliance with Article 8.3 requiring preparation and submission of a properly prepared CPM schedule.

8.4.3.1 *Excusable Delay Is Not Compensable.* No extended overhead, general conditions costs, impact costs, out-of-sequence costs or any other type of compensation, by any name or characterization, shall be paid to the Contractor for any delay to any activity not designated as a critical path item on the latest approved Project schedule.

8.4.3.2 *Notification.* The Contractor shall notify the Architect in writing of any anticipated delay and its cause, in order that the Architect may take immediate steps to prevent, if possible, the occurrence or continuance of delay, and may determine whether the delay is to be considered avoidable or unavoidable, how long it continues, and to what extent the prosecution and completion of the Work might be delayed thereby.

8.4.3.3 *Extension Request.* In the event the Contractor requests an extension of Contract time for unavoidable delay, such request shall be submitted in accordance with the provisions in the Contract Documents governing changes in Work (See Article 7). When requesting time, i.e., extensions, for proposed Change Orders, they must be submitted with the proposed Change Order with full justification and documentation. If the Contractor fails to submit justification with the proposed Change Order it waives its right to a time extension at a later date. Such justification must be based on the official Contract schedule as updated at the time of occurrence of the delay or execution of Work related to any changes to the scope of Work. Blanket or general claims for extra days without specific detailed information as required herein or a blanket or general reservation of rights do not fulfill the requirements of this Article and shall be denied. The justification must include, but is not limited to, the following information:

- a. The duration of the activity relating to the changes in the Work and the resources (manpower, equipment, material, etc.) required to perform these activities within the stated duration.
- b. Logical ties to the official Baseline Schedule or Approved Updated Schedule for the proposed changes and/or delay showing the activity/activities in the schedule

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whose start or completion dates are affected by the change and/or delay. (A fragnet of any delay of over ten (10) days must be provided.)

The Contractor and District understand and expressly agree that insofar as Public Contract Code section 7102 may apply to changes in the Work or delays under this Contract, the actual delays and damages, if any, and time extensions are intended to, and shall provide, the exclusive and full method of compensation for changes in the Work and construction delays.

8.4.4 Notice by Contractor Required

The Contractor shall within five (5) calendar days of beginning of any such delay notify the District in writing of causes of delay with justification and supporting documentation. In the case of a Recovery Schedule pursuant to Article 8.3.3.4, Contractor shall submit written notice concurrent with the Recovery Schedule. District will then ascertain the facts and extent of the delay and grant an extension of time for completing the Work when, in its judgment, the findings of fact justify such an extension. Extensions of time shall apply only to that portion of the Work affected by the delay and shall not apply to other portions of the Work not so affected.

Claims relating to time extensions shall be made in accordance with applicable provisions of Article 7.

8.4.4.1 *Adjustment for Compensable Delays.* The Schedule may be adjusted for a delay if, and only if, Contractor undertakes the following:

- a. Contractor submits a timely COR or CO pursuant to the requirements of Article 7.
- b. Contractor submits a fragnet showing the critical path delay caused by the COR, CO, Changed Condition, CCD, or ICD
- c. Contractor has addressed all required float days in the fragnet.
- d. Contractor submits a complete breakdown of all costs incurred utilizing the format of Article 7.3.3

8.4.5 No Additional Compensation for Coordinating Governmental Submittals and the Resulting Work

CONTRACTOR HAS PLANNED ITS WORK AHEAD OF TIME AND IS AWARE THAT GOVERNMENTAL AGENCIES, SUCH AS THE GAS COMPANIES, ELECTRICAL UTILITY COMPANIES, WATER DISTRICTS AND OTHER AGENCIES MAY HAVE TO APPROVE CONTRACTOR PREPARED DRAWINGS OR APPROVE A PROPOSED INSTALLATION. CONTRACTOR HAS INCLUDED DELAYS AND DAMAGES WHICH MAY BE CAUSED BY SUCH AGENCIES IN CONTRACTOR'S BID AND HAS INCLUDED ADEQUATE TIME IN THE CONTRACTOR'S BASELINE SCHEDULE. FAILURE TO ADEQUATELY PLAN AND SCHEDULE IS NOT A BASIS TO USE GOVERNMENTAL DELAY FLOAT.

8.4.6 District Right to Accelerate the Work

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The District may direct the Contractor to meet schedule requirements when the Work has been delayed. The District shall compensate the Contractor for the additional costs incurred by acceleration to the extent that such costs are directly attributable to the acceleration and are incurred through no fault or negligence of the Contractor.

8.4.6.1 *Management of Acceleration.* Contractor acceleration shall not include Work that is part of the scope of Work detailed in the Plans and Specifications. Instead, the acceleration costs shall be premium or overtime and quantifiable additional work added to the Project meant to accelerate the Project. Contractor is directed to keep consistent crews on the Project so time can be tracked. If crews are circulated off the Project or crews brought in only for overtime, the District may be charged for Contract Work and not accelerated time. In such case, the District may object to the costs submitted.

8.4.6.2 *Costs for Acceleration.* Cost for Acceleration shall be supported by backup documentation, and time sheets signed by the Inspector for each day work has been performed, at or near the time when the Work was performed. A listing on the time sheet shall document all labor, materials and services utilized that day and provide areas of work, and amount of work performed. Contractor shall comply with submission requirements of Article 7.7.

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ARTICLE 9 PAYMENTS AND COMPLETION

9.1 CONTRACT SUM

The Contract Sum or Contract Price is stated in the Agreement and, including authorized adjustments, is the total amount payable by the District to the Contractor for performance of the Work under the Contract Documents.

9.2 COST BREAKDOWN

9.2.1 Required Information

Contractor shall furnish the following:

- a. Within ten (10) days after Notice to Proceed, a detailed breakdown of the Contract Price (hereinafter "Schedule of Values") for each Project, Site, building, Milestone or other meaningful method to measure the level of Project Completion as determined by the District shall be submitted as a Submittal for the Project.;
- b. Within ten (10) days after the date of the Notice to Proceed, a schedule of estimated monthly payment requests due the Contractor showing the values and construction time of the various portions of the Work to be performed by it and by its Subcontractors or material and equipment suppliers containing such supporting evidence as to its correctness as the District may require;
- c. Within ten (10) days after the date of the Notice to Proceed, address, telephone number, telecopier number, California State Contractors License number, classification and monetary value of all subcontracts for parties furnishing labor, material, or equipment for completion of the Project.

9.2.2 Information and Preparation of Schedule of Values

9.2.2.1 *Break Down of Schedule of Values.* Schedule of Values shall be broken down by Project, site, building, Milestone, or other meaningful method to measure the level of Project Completion as determined by the District.

9.2.2.2 *Based on Contractor Bid Costs.* The Schedule of Values shall be based on the costs from Contractor's bid to the District. However, the submission of the Schedule of Values shall not be front loaded so the Contractor is paid a greater value than the value of the Work actually performed and shall not shift funds from parts of the Project that are later to Work that is performed earlier.

9.2.2.3 Largest Dollar Value for Each Line Item. Identify Subcontractors and materials suppliers proposed to provide portions of Work equal to or greater than ten thousand dollars (\$10,000) or one-half of one percent (0.5%) of their Contract Price, whichever is less.

9.2.2.4 *Allowances.* Any Allowances provided for in the Contract shall be a line item in the Schedule of Values.

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9.2.2.5 *Labor and Materials Shall Be Separate.* Labor and Materials shall be broken into two separate line items unless specifically agreed in writing by the District.

9.2.3 District Approval Required

The District shall review all submissions received pursuant to Article 9.2 in a timely manner. All submissions must be approved by the District before becoming the basis of any payment.

9.3 PROGRESS PAYMENTS

9.3.1 Payments to Contractor

Unless there is a resolution indicating that the Work for the Project is substantially complex, within thirty-five (35) days after approval of the Request for Payment, Contractor shall be paid a sum equal to ninety-five percent (95%) of the value of the Work performed (as certified by Architect and Inspector and verified by Contractor) up to the last day of the previous month, less the aggregate of previous payments. The value of the Work completed shall be the Contractor's best estimate. Work completed as estimated shall be an approximation or estimate only and no mistake, inaccuracy, error or falsification in said any approved estimate shall operate to release the Contractor, or any Surety upon any bond, from damages arising from such Work, or from the District's enforcement of each and every provision of this Contract including but not limited to the Performance Bond and Payment Bond. The District shall have the right to subsequently to correct any mistake, inaccuracy, error or falsification made or otherwise set forth in any approved Request for Payment and such correction may occur in any future Payment Application or in the Retention Payment to the Contractor. No Surety upon any bond shall be relieved, released or exonerated of its obligations under this Contract or any applicable bond when the District is unable to correct an overpayment to the Contractor due to any abandonment by the Contractor or termination by the District.

The Contractor shall not be entitled to have any payment requests processed or be entitled to have any payment made for Work performed, so long as any lawful or proper direction given by the District concerning the Work, or any portion thereof, remains incomplete.

Notwithstanding anything to the contrary stated above, the Contractor may include in its Request for Payment the value of any structural steel, glue laminated beams, trusses, bleachers and other such custom-made materials prepared specifically for the Project and unique to the Project so long as all of the following requirements are satisfied:

- a. The aggregate cost of materials stored off-site shall not exceed Twenty-Five Thousand Dollars (\$25,000) at any time or as otherwise agreed to be District in writing;
- b. Title to such materials shall be vested in the District as evidenced by documentation satisfactory in form and substance to the District, including, without limitation, recorded financing statements, UCC filings and UCC searches;
- c. With each Contractor Request for Payment, the Contractor shall submit to the District a written list identifying each location where materials are stored off-site (which must be a bonded warehouse) and the value of the materials at each location. The Contractor shall procure insurance satisfactory to the District (in its

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reasonable discretion) for materials stored off-site in an amount not less than the total value thereof;

- d. The consent of any Surety shall be obtained to the extent required prior to payment for any materials stored off-site;
- e. Representatives of the District shall have the right to make inspections of the storage areas at any time; and
- f. Such materials shall be: (1) protected from diversion, destruction, theft and damage to the reasonable satisfaction of the District; (2) specifically marked for use on the Project; and (3) segregated from other materials at the storage facility.

9.3.2 Purchase of Materials and Equipment and Cost Fluctuations

The Contractor is required to order, obtain, and store materials and equipment sufficiently in advance of its Work at no additional cost or advance payment from District to assure that there will be no delays. Contractor understands that materials fluctuate in value and shall have adequately addressed market fluctuations through agreements with Contractor vendors or by other means. Contractor further understands and incorporates into Contractor's bid cost any wage rate increases during the Project for the Contractor's labor force as well as all other Subcontractor and vendor labor forces. District shall not be responsible for market fluctuations in costs or labor rate increases during the Project. Contractor further has incorporated any and all cost increases in areas of Work where there may be schedule variations so that cost increases are not passed through to the District.

9.3.3 No Waiver

No payment by District hereunder shall be interpreted so as to imply that District has inspected, approved, or accepted any part of the Work. Contractor specifically understands that Title 24 Section 4-343 which states:

"It is the duty of the contractor to complete the work covered by his or her contract in accordance with the approved Plans and Specifications therefore. The contractor in no way is relieved of any responsibility by the activities of the Architect, Engineer, Inspector or DSA in the performance of such duties... In no case, however, shall the instruction of the Architect or registered Engineer be construed to cause work to be done with is not in conformity with the approved Plans, Specifications, and change orders..."

Notwithstanding any payment, the District may enforce each and every provision of this Contract which includes, but is not limited to, the Performance Bond and Payment Bond. The District may correct any error subsequent to any payment. In no event shall the Contractor or the Surety be released or exonerated from performance under this Contract when the District overpays the Contractor based upon any mistake, inaccuracy, error or falsification in any estimate that is included in any Request for Payment.

9.3.4 Issuance of Certificate of Payment

The Architect shall, within seven (7) days after receipt of the Contractor's Application for Payment, either approve such payment or notify the Contractor in writing of the Architect's reasons for withholding approval in whole or in part as provided in Article 9.6. The review of the Contractor's

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Application for Payment by the Architect is based on the Architect's observations at the Project and the data comprising the Application for Payment that the Work has progressed to the point indicated and that, to the best of the Architect's knowledge, information, and belief, the quality of the Work is in accordance with the Contract Documents. In some cases, the Architect may act upon or rely on the evaluation of the Work by the Inspector. This review of Payment Applications is sometimes called a "Pencil Draft." District's return of a Pencil Draft shall constitute the District's dispute of the Payment Application that has been submitted. Contractor shall promptly respond to Pencil Drafts or Contractor's Payment Applications may be delayed. Contractor's failure to promptly respond to a Pencil Draft shall qualify as a delay in the prompt payment of a Request for Payment or Request for Retention. The foregoing representations are subject to: (1) an evaluation of the Work for conformance with the Contract Documents, (2) results of subsequent tests and inspections, (3) minor deviations from the Contract Documents correctable prior to completion, and (4) specific qualifications expressed by the Architect. The issuance of a Certificate for Payment will further constitute the Contractor's verified representation that the Contractor is entitled to payment in the amount certified.

9.3.5 Payment of Undisputed Contract Payments

In accordance with Public Contract Code section 7100, payments by the District to the Contractor for any and all undisputed amounts (including all Progress Payments, Final Payments or Retention Payment) is contingent upon submission of a proper and accurate Payment Application and the Contractor furnishing the District with a release of all Claims against the District related to such undisputed amounts. Disputed Contract Claims in stated amounts may be specifically excluded by the Contractor from the operation of the release. If, however, the Contractor specifically excludes any Claims, the Contractor shall provide details such as a specific number of disputed days or costs of any such exclusion in accordance with Articles 4.6 and 7.7.

9.4 APPLICATIONS FOR PROGRESS PAYMENTS

9.4.1 Procedure

9.4.1.1 *Application for Progress.* On or before the fifth (5th) day of each calendar month during the progress of the Work, Contractor shall submit to the Architect an itemized Application for Progress Payment for operations completed. Such application shall be notarized, if required, and supported by the following or such portion thereof as Architect requires:

1. The amount paid to the date of the Payment Application to the Contractor, to all its Subcontractors, and all others furnishing labor, material, or equipment for its Contract;
2. The amount being requested under the Payment Application by the Contractor on its own behalf and separately stating the amount requested on behalf of each of the Subcontractors and all others furnishing labor, material, and equipment under the Contract;
3. The balance that will be due to each of such entities after said payment is made;
4. A certification that the As-Built Drawings and Annotated Specifications are current;

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5. Itemized breakdown of Work done for the purpose of requesting partial payment;
6. An updated or approved Baseline Schedule or other Schedule updates in conformance with Article 8;
7. Failure to submit an updated Schedule for the month or any previous month;
8. The additions to and subtractions from the Contract Price and Contract Time;
9. A summary of the Retention held;
10. Material invoices, evidence of equipment purchases, rentals, and other support and details of cost as the District may require from time to time;
11. The percentage of completion of the Contractor's Work by line item;
12. An updated Schedule of Values from the preceding Application for Payment;
13. Prerequisites for Progress Payments; and
14. Any other information or documents reasonably requested by the District, Architect, Inspector or CM (if applicable).

9.4.1.2 *First Payment Request.* The following items, if applicable, must be completed before the first payment request will be accepted for processing:

1. Installation of the Project sign;
2. Receipt by Architect of Submittals;
3. Installation of field office;
4. Installation of temporary facilities and fencing;
5. Submission of documents listed in the Article 9.2 relating to Contract Price breakdown;
6. Preliminary schedule analysis, due within 10 days after Notice to Proceed;
7. Contractor's Baseline Schedule (to be CPM based in conformance with Article 8);
8. Schedule of unit prices, if applicable;
9. Submittal Schedule;
10. Copies of necessary permits;

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11. Copies of authorizations and licenses from governing authorities;
12. Initial progress report;
13. Surveyor qualifications;
14. Written acceptance of District's survey of rough grading, if applicable;
15. List of all Subcontractors, with names, license numbers, telephone numbers, and scope of work;
16. All bonds and insurance endorsements; and
17. Resumes of General Contractor's Project Manager, and if applicable, job site secretary, record documents recorder, and job site Superintendent.

9.4.1.3 *Second Payment Request.* The second payment request will not be processed until all Submittals and Shop Drawings have been accepted for review by the Architect.

9.4.1.4 *All Payment Requests.* No payment requests will be processed unless Contractor has submitted copies of the certified payroll records for the Work which correlates to the payment request and a proper CPM schedule pursuant to Article 8 is submitted.

9.4.1.5 *Final Payment Application (95%).* See Article 9.11.1

9.4.1.6 *Final Payment Application (100%).* See Article 9.11.3

9.5 STOP NOTICE CLAIMS AND WARRANTY OF TITLE

The Contractor warrants title to all Work. The Contractor further warrants that all Work is free and clear of liens, claims, security interests, stop notices, or encumbrances in favor of the Contractor, Subcontractors, material and equipment suppliers, or other persons or entities making a claim by reason of having provided labor, materials, and equipment relating to the Work. Failure to keep work free of liens, stop notices, claims, security interests or encumbrances is grounds to make a claim against Contractor's Payment and Performance Bond to immediately remedy and defend.

If a lien or stop notice of any nature should at any time be filed against the Work or any District property, by any entity which has supplied material or services at the request of the Contractor, Contractor and Contractor's Surety shall promptly, on demand by District and at Contractor's and Surety's own expense, take any and all action necessary to cause any such lien or stop notice to be released or discharged immediately therefrom.

If the Contractor fails to furnish to the District within ten (10) calendar days after written demand by the District, satisfactory evidence that a lien or stop notice has been so released, discharged, or secured, then District may discharge such indebtedness and deduct the amount required therefor, together with any and all losses, costs, damages, and attorney's fees and expense incurred or suffered by District from any sum payable to Contractor under the Contract. In addition, any liens, stop notices, claims, security interests or encumbrances shall trigger the indemnification requirements under Article 3.15 and the Agreement Form, and shall act as a trigger under Civil Code section 2778 and 2779 requiring reimbursement for any and all costs following the District's written demand has been made. Any withholdings by the District for

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stop notices in accordance with Civil Code section 9358 shall not be a basis by the Contractor to make a Claim for interest penalties under Public Contract Code sections 7107 or 20104.50.

9.6 DECISIONS TO WITHHOLD PAYMENT

9.6.1 Reasons to Withhold Payment

The District may withhold payment in whole, or in part, to the extent reasonably necessary to protect the District if, in the District's opinion, the representations to the District required by Article 9.4 cannot be made. The District may withhold payment, in whole, or in part, to such extent as may be necessary to protect the District from loss because of, but not limited to:

- a. Defective Work not remedied;
- b. Stop notices served upon the District;
- c. Liquidated Damages assessed against the Contractor;
- d. The cost of Completion of the Contract if there exists reasonable doubt that the Work can be Completed for the unpaid balance of any Contract Price or by the completion date;
- e. Damage to the District or other contractor;
- f. Unsatisfactory prosecution of the Work by the Contractor;
- g. Failure to store and properly secure materials;
- h. Failure of the Contractor to submit on a timely basis, proper and sufficient documentation required by the Contract Documents, including, without limitation, acceptable monthly progress schedules, Shop Drawings, Submittal schedules, Schedule of Values, Product Data and samples, proposed product lists, executed Change Order, Construction Change Documents, and verified reports;
- i. Failure of the Contractor to maintain As-Built Drawings;
- j. Erroneous estimates by the Contractor of the value of the Work performed, or other false statements in a Payment Application;
- k. Unauthorized deviations from the Contract Documents (including but not limited to Unresolved Notices of Deviations (DSA Form 154));
- l. Failure of the Contractor to prosecute the Work in a timely manner in compliance with established progress schedules and completion dates.
- m. Failure to properly pay prevailing wages as defined in Labor Code section 1720, et seq.;
- n. Failure to properly maintain or clean up the Site;

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- o. Payments to indemnify, defend, or hold harmless the District;
- p. Any payments due to the District including but not limited to payments for failed tests, or utilities changes or permits;
- q. Failure to submit an acceptable Baseline Schedule or any Schedule or Schedule update in accordance with Article 8;
- r. Failure to pay Subcontractor or suppliers as required by Article 9.8.1
- s. Failure to secure warranties, including the cost to pay for warranties;
- t. Failure to provide releases from material suppliers or Subcontractors when requested to do so;
- u. Items deducted pursuant to Article 2.2;
- v. Incomplete Punch List items under Article 9.9.1.1 which have gone through the Article 2.2 process; or
- w. Allowances that have not been used.

9.6.2 Reallocation of Withheld Amounts

District may, in its discretion, apply any withheld amount to payment of outstanding claims or obligations as defined in Article 9.6.1 and 9.5. In so doing, District shall make such payments on behalf of Contractor. If any payment is so made by District, then such amount shall be considered as a payment made under Contract by District to Contractor and District shall not be liable to Contractor for such payments made in good faith. Such payments may be made without prior judicial determination of claim or obligation. District will render Contractor an accounting of such funds disbursed on behalf of Contractor.

If Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents or fails to perform any provision thereof, District may, after ten (10) calendar days written notice to the Contractor and without prejudice to any other remedy make good such deficiencies. The District shall adjust the total Contract price by reducing the amount thereof by the cost of making good such deficiencies. If District deems it inexpedient to correct Work which is damaged, defective, or not done in accordance with Contract provisions, an equitable reduction in the Contract Price (of at least 150% of the estimated reasonable value of the nonconforming Work) shall be made therefor.

9.6.3 Payment After Cure

When the grounds for declining approval are removed, payment shall be made for amounts withheld because of them. No interest shall be paid on any retainage or amounts withheld due to the failure of the Contractor to perform in accordance with the terms and conditions of the Contract Documents.

9.7 NONCONFORMING WORK

Contractor shall promptly remove from premises all Work identified by District as failing to conform to the Contract whether incorporated or not. Contractor shall promptly replace and re-execute its

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own Work to comply with the Contract without additional expense to District and shall bear the expense of making good all Work of other contractors destroyed or damaged by such removal or replacement.

If Contractor does not remove such Work which has been identified by District as failing to conform to the Contract Documents within a reasonable time, fixed by written notice, District may remove it and may store the material at Contractor's expense. If Contractor does not pay expenses of such removal within ten (10) calendar days' time thereafter, District may, upon ten (10) calendar days' written notice, sell such materials at auction or at private sale and shall account for net proceeds thereof, after deducting all costs and expenses that should have been borne by Contractor.

9.8 SUBCONTRACTOR PAYMENTS

9.8.1 Payments to Subcontractors

No later than ten (10) days after receipt, or pursuant to Business and Professions Code section 7108.5, the Contractor shall pay to each Subcontractor, out of the amount paid to the Contractor on account of such Subcontractor's portion of the Work, the amount to which said Subcontractor is entitled. The Contractor shall, by appropriate agreement with each Subcontractor, require each Subcontractor to make payments to Sub-subcontractors in a similar manner.

9.8.2 No Obligation of District for Subcontractor Payment

The District shall have no obligation to pay, or to see to the payment of, money to a Subcontractor except as may otherwise be required by law.

9.8.3 Payment Not Constituting Approval or Acceptance

An approved Request for Payment, a progress payment, a Certificate of Substantial Completion, or partial or entire use or occupancy of the Project by the District shall not constitute acceptance of Work that is not in accordance with the Contract Documents.

9.8.4 Joint Checks

District shall have the right, if necessary for the protection of the District, to issue joint checks made payable to the Contractor and Subcontractors and material or equipment suppliers. The joint check payees shall be responsible for the allocation and disbursement of funds included as part of any such joint payment. In no event shall any joint check payment be construed to create any contract between the District and a Subcontractor of any tier, any obligation from the District to such Subcontractor, or rights in such Subcontractor against the District. The District may choose to issue joint checks at District's sole discretion and only after all the requirements of that particular school district and county are specifically met. Some school districts cannot issue joint checks, so the ability to issue joint checks depends on the school district and the specific circumstances.

9.9 COMPLETION OF THE WORK

9.9.1 Close-Out Procedures

9.9.1.1 *Incomplete Punch Items.* When the Contractor considers the Work Substantially Complete (See Article 1.1.46 for definition of Substantially Complete), the Contractor shall prepare and submit to the District a comprehensive list of minor items to be completed or corrected

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(hereinafter “Incomplete Punch Items” or “Punch List”). The Contractor and/or its Subcontractors shall proceed promptly to complete and correct the Incomplete Punch Items listed. Failure to include an item on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents. Contractor is aware that Title 24 Section 4-343(a) provides:

“RESPONSIBILITIES. IT IS THE DUTY OF THE CONTRACTOR TO COMPLETE THE WORK COVERED BY HIS OR HER CONTRACT IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS THEREFOR. THE CONTRACTOR IN NO WAY IS RELIEVED OF ANY RESPONSIBILITY BY THE ACTIVITIES OF THE ARCHITECT, ENGINEER, INSPECTOR OR DSA IN THE PERFORMANCE OF SUCH DUTIES.

9.9.1.2 *Punch List Is Prepared Only After the Project Is Substantially Complete.* If any of the conditions noted in Article 1.1.46 as defining Substantial Completion are not met, the Inspector, Architect or District may reject Contractor’s Incomplete Punch Items as premature. If the Architect and Inspector commence review of Incomplete Punch Items, all rights are reserved until the Project actually meets the definition of Substantially Complete. Liquidated Damages, warranties, and other contractual rights are not affected by Incomplete Punch Items unless otherwise addressed in these General Conditions.

Once the Inspector and the Architect determine the Project is Substantially Complete, a Certificate of Substantial Completion shall be issued. The Inspector and Architect shall prepare a Punch List of items which is an inspection report of the Work, if any, required in order to complete the Contract Documents and ensure compliance with the DSA Approved Plans so the Project may be Completed by the Contractor and a final DSA Close-Out is approved. When all Work for the Project is Complete, including Punch Lists and all Work complies with the approved Contract Documents and Change Orders, the Project has reached Final Completion.

9.9.1.3 *Time for Completion of Punch List.* Contractor shall only be given a period of no more than thirty (30) days to complete the Punch List for the Project. During the Punch List period, the Contractor’s Superintendent and Project Manager shall remain engaged in the Project and shall not be removed or replaced. If the Punch List is not completed at the end of the Punch List time then Contractor shall issue a valued Punch List within 5 days after the date the Punch List time ends. If Contractor does not issue such a list, the District or Architect may issue a valued Punch List to the Contractor and withhold up to 150% of the value of the Punch List Work pursuant to Article 2.2 of this Agreement.

Failure to issue a timely written request for additional time to complete Punch List shall result in the deletion of the remaining Punch List Work pursuant to Article 2.2 and the issuance of a Deductive Change Order.

- a. Extension of Time to Complete Punch List. If Contractor cannot finish the Punch List Work during the time period allotted under Article 9.9.1.3, the Contractor may make a written request for a Non-Compensable Punch List time extension accompanied by an estimate of the number of additional days it will take to complete the Punch List Work for a written consent from the District to allow continued Punch List Work. Punch List time extensions are a maximum of thirty (30) days for each request and must be accompanied by an itemized valued Punch List.
- b. If there is no valued Punch List accompanying any request or if Contractor intends to undertake Punch List without the continued support and

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supervision of its Superintendent and Project Manager (as required under Article 3.2), the District, Construction Manager or Architect may issue a valued Punch List, reject the Punch List Time Extension and deduct 150% of the valued Punch List pursuant to Article 2.2 and proceed to Close-Out the Project. Contractor shall cease work on the Project and proceed to complete Contractor's Retention Payment Application and complete the Work for the Project required pursuant to Article 9.11.3.

9.9.1.4 *District Rejection of Written Request for Punch List Time Extensions.* Following sixty (60) Days of Punch List under Article 9.9.1.3, the District has the option of rejecting Punch List Time Extension requests. The District may proceed under Article 2.2 and deduct the value of remaining Punch List Work pursuant to Article 2.2. If the District rejects the Punch List Time Extension request then Contractor shall cease Work on the Project and proceed to Final Inspection pursuant to Article 9.11.2.

9.9.1.5 *Punch List Liquidated Damages to Compensate for Added District Project Costs.* If the total time utilized for Punch List exceeds sixty (60) days [the thirty (30) day period under Article 9.9.1.3 plus an additional thirty (30) day period that has been requested in writing], and the District grants an additional written Punch List Time Extension that exceeds sixty (60) days of Punch List, then Contractor shall be charged Liquidated Damages of at least \$750 per day for continued Punch List Work to partially compensate the Inspector, Architect, and Construction Manager's extended time on the Project. This Punch List Liquidated Damage number is based on anticipated cost for an Inspector on site and additional costs for the Architect and Construction Manager to reinspect Punch List items and perform the administration of the Close-out.

Contractor received thirty (30) days without any charges for Punch List Liquidated Damages and is placed on notice pursuant to this Article 9.9.1.5 that \$750 is due for each day of Punch List that exceeds sixty (60) days at \$750, a cost much lower than typical (and actual) costs for Inspection, Architect and Construction Manager time required during Punch List. Starting at ninety (90) days of Punch List (an excessive number of days to complete Punch List), the District shall be entitled to adjust Punch List Liquidated Damages to an estimate of the actual costs incurred to oversee, monitor and inspect the Punch List. If costs exceed \$750 per day, the anticipated extended contract charges for Inspection, Architect, Construction Manager, and any other costs that will be incurred due to the extended Punch List shall be itemized and a daily rate of Punch List Liquidated Damages shall be presented in writing to the Contractor within five (5) days following the receipt of a written request for Punch List Time Extension by the Contractor that extends the Punch List time beyond ninety (90) days. This written notice of actual Punch List Liquidated Damages may be provided to the Contractor at any time following the first written request for Punch List Time extension requested under Article 9.9.1.3. The adjusted actual Punch List Liquidated Damage amount shall be applicable as Punch List Liquidated Damages commencing on the ninetieth (90th) day of Punch List.

9.9.2 Close-Out Requirements for Final Completion of the Project

- a. Utility Connections. Buildings shall be connected to water, gas, sewer, and electric services, complete and ready for use. Service connections shall be made and existing services reconnected
- b. As-Built Up to Date and Complete. The intent of this procedure is to obtain an exact "As-Built" record of the Work upon completion of the project. The following information shall be carefully and correctly drawn on the prints and all items shall

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be accurately located and dimensioned from finished surfaces of building walls on all As-Built Drawings

1. The exact location and elevations of all covered utilities, including valves, cleanouts, etc. must be shown on As-Built Drawings
2. Contractor is liable and responsible for inaccuracies in As-Built Drawings, even though they become evident at some future date.
3. Upon completion of the Work and as a condition precedent to approval of Retention Payment, Contractor shall obtain the Inspector's approval of the "As-Built" information. When completed, Contractor shall deliver corrected sepias and/or a Diskette with an electronic file in a format acceptable to the District.
4. District may withhold the cost to hire a draftsman and potholing and testing service to complete Record As-Built Drawings at substantial cost if the Contractor does not deliver a complete set of Record As-Built Drawings. This shall result in withholding of between \$10,000 to \$20,000 per building that does not have a corresponding Record As Built Drawing.

- c. Any Work not installed as originally indicated on Drawings
- d. All DSA Close-Out requirements (See DSA Certification Guide) Contractor is also specifically directed to Item 3.2 in the DSA Certification Guide and the applicable certificates for the DSA-311 form.
- e. Submission of Form 6-C. Contractor shall be required to execute a Form 6-C as required under Title 24 Sections 4-343. The Contractor understands that the filing with DSA of a Form 6-C is a requirement to obtain final DSA Approval of the construction by Contractor and utilized to verify under penalty of perjury that the Work performed by Contractor complies with the DSA approved Contract Documents. The failure to file a DSA Form 6C has two consequences. First, the Construction of the Project will not comply with the design immunity provisions of Government Code section 830.6 and exposes the District and the individual Board members to personal liability for injuries that occur on the Project.

Secondly, under DSA IR A-20, since the Project cannot be Certified by DSA, no future or further Projects will be authorized so Contractor will have essentially condemned the campus from any future modernization or addition of new classrooms through their failure to file the DSA Form 6C.

1. *Execution of the DSA Form 6-C is Mandatory.* Refusal to execute the Form 6-C, which is a Final DSA Verified Report that all Work performed complies with the DSA approved Contract Documents is a violation of Education Code section 17312 and shall be referred to the Attorney General for Prosecution.
2. *Referral to the District Attorney for Extortion.* If the Contractor's refusal to execute the DSA Form 6C is to leverage a Dispute, Claim or litigation,

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then the matter shall also be referred to the District Attorney for prosecution for extortion.

3. *Contractor shall be Responsible for All Costs to Certify the Project.* The District may certify the Project complies with Approved Plans and Specifications by utilizing the procedures under the Project Certification Guide (located at the DSA website). All costs for professionals, inspection, and testing required for an alternate Project Certification shall be the Contractor's responsibility and the District reserves its right to institute legal action against the Contractor and Contractor's Surety for all costs to certify the Project and all costs to correct Non-Compliant Work that is discovered during the Alternate Certification Process.
- f. ADA Work that must be corrected to receive DSA certification. See Article 12.2.
- g. Maintenance Manuals. At least thirty (30) days prior to final inspection, three (3) copies of complete operations and maintenance manuals, repair parts lists, service instructions for all electrical and mechanical equipment, and equipment warranties shall be submitted. All installation, operating, and maintenance information and Drawings shall be bound in 8½" x 11" binders. Provide a table of contents in front and all items shall be indexed with tabs. Each manual shall also contain a list of Subcontractors, with their addresses and the names of persons to contact in cases of emergency. Identifying labels shall provide names of manufactures, their addresses, ratings, and capacities of equipment and machinery.
 1. Maintenance manuals shall also be delivered in electronic media for the Project. Any demonstration videos shall also be provided on electronic media.
- h. Inspection Requirements. Before calling for final inspection, Contractor shall determine that the following Work has been performed:
 1. The Work has been completed;
 2. All fire/ life safety items are completed and in working order;
 3. Mechanical and electrical Work complete, fixtures in place, connected and tested;
 4. Electrical circuits scheduled in panels and disconnect switches labeled;
 5. Painting and special finishes complete;
 6. Doors complete with hardware, cleaned of protective film relieved of sticking or binding and in working order;
 7. Tops and bottoms of doors sealed;
 8. Floors waxed and polished as specified;

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9. Broken glass replaced and glass cleaned;
10. Grounds cleared of Contractor's equipment, raked clean of debris, and trash removed from Site;
11. Work cleaned, free of stains, scratches, and other foreign matter, replacement of damaged and broken material;
12. Finished and decorative work shall have marks, dirt and superfluous labels removed;
13. Final cleanup, as in Article 3.12;
14. All Work pursuant to Article 9.11.2; and
15. Furnish a letter to District stating that the District's Representative or other designated person or persons have been instructed in working characteristics of mechanical and electrical equipment.

9.9.3 Costs of Multiple Inspections

More than two (2) requests of the District to make inspections required under Article 9.9.1 shall be considered an additional service of Architect, Inspector, Engineer or other consultants shall be the Contractor's responsibility pursuant to Article 4.5 and all subsequent costs will be prepared as a Deductive Change Order.

9.10 PARTIAL OCCUPANCY OR USE

9.10.1 District's Rights

The District may occupy or use any completed or partially completed portion of the Work at any stage. The District and the Contractor shall agree in writing to the responsibilities assigned to each of them for payments, security, maintenance, heat, utilities, damage to the Work, insurance, the period for correction of the Work, and the commencement of warranties required by the Contract Documents. If District and Contractor cannot agree as to responsibilities such disagreement shall be resolved pursuant to Article 4.6. When the Contractor considers a portion complete, the Contractor shall prepare and submit a Punch List to the District as provided under Article 9.9.1.

9.10.2 Inspection Prior to Occupancy or Use

Immediately prior to such partial occupancy or use, the District, the Contractor, and the Architect shall jointly inspect the area to be occupied or portion of the Work to be used in order to determine and record the condition of the Work.

9.10.3 No Waiver

Unless otherwise agreed upon, partial occupancy or use of a portion or portions of the Work shall not constitute acceptance of Work not complying with the requirements of the Contract Documents.

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9.11 COMPLETION AND FINAL PAYMENT

9.11.1 Final Payment (95%)

The following items must be completed before the Final Payment Application will be accepted for processing at Substantial Completion of the Project:

- a. Inspector sign-off of each item in the DSA 152 Project Inspection Card;
- b. The Project has reached the Punch List items under Article 9.9.1.2 and the Project has been determined to be Substantially Complete under Article 1.1.46;
- c. Removal of temporary facilities and services;
- d. Testing, adjusting and balance records are complete;
- e. Removal of surplus materials, rubbish, and similar elements;
- f. Changeover of door locks;
- g. Deductive items pursuant to Article 9.6 and Article 2.2; and
- h. Completion and submission of all final Change Orders for the Project.

9.11.2 Final Inspection (Punch List Completion)

Contractor shall comply with Punch List procedures under Article 9.9.1.1, and maintain the presence of Project Superintendent and Project Manager (not replacement project superintendent or project manager) until the Punch List is complete to ensure proper and timely completion of the Punch List. Under no circumstances shall Contractor demobilize its forces prior to completion of the Punch List.

Upon completion of the Work under Article 9.9.1, the Contractor shall notify the District and Architect, who shall again inspect such Work. If the Architect and the District find the Work contained in the Punch List acceptable under the Contract Documents, the Work shall have reached Final Completion. Architect shall notify Contractor, who shall then submit to the Architect its Application for Retention Payment. This Application for Retention Payment shall contain any deductions under Article 9.6, including but not limited to incomplete Punch List items under Article 9.9.1.

Upon receipt and approval of Application for Retention Payment, the Architect shall issue a Form 6 stating that to the best of its knowledge, information, and belief, and on the basis of its observations, inspections, and all other data accumulated or received by the Architect in connection with the Work, such Work has been completed in accordance with the Contract Documents. The District shall thereupon inspect such Work and either accept the Work as complete or notify the Architect and the Contractor in writing of reasons why the Work is not complete. Upon acceptance of the Work of the Contractor as fully complete (which, absent unusual circumstances, will occur when the Punch List items have been satisfactorily completed), the District shall record a Notice of Completion with the County Recorder, and the Contractor shall, upon receipt of payment from the District, pay the amounts due Subcontractors.

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If the Architect and the District find that the Work contained in the Punch List is unacceptable, then Contractor shall issue a valued Punch List within 5 days after the date the Punch List time ends. If Contractor does not issue such a list, the District or Architect may issue a valued Punch List to the Contractor and withhold up to 150% of the value of the Punch List Work pursuant to Article 2.2 of this Agreement.

9.11.3 Retainage (100% Billing for the Entire Project)

The retainage, less any amounts disputed by the District or which the District has the right to withhold pursuant to the Contract Documents (including but not limited to incomplete Punch List items under Article 9.9.1), shall be paid after approval by the District of the Application for Retention Payment, after the satisfaction of the conditions set forth in Article 9, the Final Inspection under Article 9.11.2 is completed, and after thirty-five (35) days after the acceptance of the Work and recording of the Notice of Completion by District. No interest shall be paid on any retainage, or on any amounts withheld due to a failure of the Contractor to perform, in accordance with the terms and conditions of the Contract Documents, except as provided to the contrary in any escrow agreement between the District and the Contractor.

- a. Procedures for Application for Retention Payment. The following conditions must be fulfilled prior to release of Retention Payment:
 1. A full and final waiver or release of all stop notices in connection with the Work shall be submitted by Contractor, including a release of stop notice in recordable form, together with (to the extent permitted by law) a copy of the full and final release of all Stop Notice rights.
 2. The Contractor shall have made all corrections, including all Punch List Items, to the Work which are required to remedy any defects therein, to obtain compliance with the Contract Documents or any requirements of applicable codes and ordinances, or to fulfill any of the orders or directions of District required under the Contract Documents.
 3. Each Subcontractor shall have delivered to the Contractor all written guarantees, warranties, applications, releases from the Surety and warranty bonds (if applicable) required by the Contract Documents for its portion of the Work.
 4. Contractor must have completed all requirements set forth in Article 9.9
 5. Contractor must have issued a Form 6C for the Project.
 6. The Contractor shall have delivered to the District all manuals and materials required by the Contract Documents.
 7. The Contractor shall have completed final clean up as required by Article 3.12

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8. Contractor shall have all deductive items under Article 9.6 and Article 2.2 submitted as part of the Retention Payment.

9.11.4 Recording of a Notice of Completion After Punch List Period and Final Inspection.

When the Work, or designated portion thereof, is complete or the District has completed the Article 9.6 and/or the Article 2.2 process, whichever occurs first, the District will file either a Notice of Completion or a Notice of Completion noting valued Punch List items. Valued Punch List items will be deducted from the Retention Payment.

During the time when Work is being performed on the Punch List, the Project does not meet the definition of "Complete" under Public Contract Code section 7107(c)(1) even if there is "beneficial occupancy" of the Project since that has been no "cessation of labor" on the Project. Completion of Punch List under this Article is not "testing, startup, or commissioning by the public entity or its agent." In other words, the continuing Punch List Work is Contractor labor on the Project until each and every item of Punch List Work is complete or the time periods under Article 9.9.1 have expired.

9.11.5 Warranties

Warranties required by the Contract Documents shall commence on the date of Completion of the entire Work. Warranty periods DO NOT commence at Substantial Completion or when a particular Subcontractor work is complete. No additional charges, extras, Change Orders, or Claims may be sought for warranties commencing from the Notice of Completion.

District shall have the right to utilize equipment, test, and operate as necessary for acclimation, or testing without voiding or starting warranties. Taking beneficial occupancy shall not start warranties except in the case where the District agrees, in writing, that warranties shall commence running or where the District is taking phased occupancy of specific buildings or areas and completes separate Punch Lists as further addressed in Article 4.2.7.

9.11.6 Time for Submission of Application for Final Payment and Retention Payment (Unilateral Processing of Final and Retention Payment Application).

If Contractor submits a Final Payment Application which fails to include deductive items under Article 9.6, the District or Architect shall note this defective request for Final Payment Application. The Contractor shall be notified that specific deductive items shall be included in the Final Payment Application. If Contractor either continues to submit the Final Payment Application without deductive items under Article 9.6, or a period of 14 calendar days passes after Contractor is provided written notice of deductive items for inclusion in Final Payment Application, then District may either alter the Final Payment Application and recalculate the math on the Final Payment Application to address the Article 9.6 deductive items or process a unilateral Final Payment Application.

9.11.7 Unilateral Release of Retention

After the recordation of the Notice of Completion, or within sixty (60) days following the completion of the Punch List or the expiration of the time for completion of Punch List under Article 9.9.1, if Contractor does not make an Application for Release of Retention, the District may unilaterally release retention less any deducts under Article 9.6 and/or Article 2.2, withholds due to stop notices, or withholdings due to other defective Work on the Project. District may also choose to unilaterally release Retention after deduction of 150% of any disputed items, which may also include items under Article 9.6

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and 2.2. If a deduction pursuant to Article 9.6 is made from Retention, a letter deducting specific valued items shall be considered a notice of Default under the terms of the Escrow Agreement.

9.12 SUBSTITUTION OF SECURITIES

The District will permit the substitution of securities in accordance with the provisions of Public Contract Code section 22300 as set forth in the form contained in the Bid Documents.

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ARTICLE 10 PROTECTION OF PERSONS AND PROPERTY

10.1 SAFETY PRECAUTIONS AND PROGRAMS

10.1.1 Contractor Responsibility

The Contractor shall be responsible for all damages to persons or property that occur as a result of its fault or negligence in connection with the prosecution of this Contract and shall take all necessary measures and be responsible for the proper care and protection of all materials delivered and Work performed until completion and final acceptance by the District. All Work shall be solely at the Contractor's risk, with the exception of damage to the Work caused by "acts of God" as defined in Public Contract Code section 7105(b)(2).

Contractor shall take, and require Subcontractor to take, all necessary precautions for safety of workers on the Work and shall comply with all applicable federal, state, local and other safety laws, standards, orders, rules, regulations, and building codes to prevent accidents or injury to persons on, about, or adjacent to premises where Work is being performed and to provide a safe and healthful place of employment. In addition to meeting all requirements of OSHA, Cal-OSHA, state, and local codes, Contractor shall furnish, erect and properly maintain at all times, as directed by District or Architect or required by conditions and progress of Work, all necessary safety devices, safeguards, construction canopies, signs, audible devices for protection of the blind, safety rails, belts and nets, barriers, lights, and watchmen for protection of workers and the public, and shall post danger signs warning against hazards created by such features in the course of construction. Contractor shall designate a responsible member of its organization on the Work, whose duty shall be to post information regarding protection and obligations of workers and other notices required under occupational safety and health laws, to comply with reporting and other occupational safety requirements, and to protect the life, safety and health of workers. The name and position of person so designated shall be reported to District by Contractor. Contractor shall correct any violations of safety laws, rules, orders, standards, or regulations. Upon the issuance of a citation or notice of violation by the Division of Occupational Safety and Health, such violation shall be corrected promptly.

10.1.2 Subcontractor Responsibility

Contractor shall require that Subcontractors participate in, and enforce, the safety and loss prevention programs established by the Contractor for the Project, which will cover all Work performed by the Contractor and its Subcontractors. Each Subcontractor shall designate a responsible member of its organization whose duties shall include loss and accident prevention, and who shall have the responsibility and full authority to enforce the program. This person shall attend meetings with the representatives of the various Subcontractors employed to ensure that all employees understand and comply with the programs.

10.1.3 Cooperation

All Subcontractors and material or equipment suppliers shall cooperate fully with Contractor, the District, and all insurance carriers and loss prevention engineers.

10.1.4 Accident Reports

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Subcontractors shall immediately, within two (2) days, report in writing to the Contractor all accidents whatsoever arising out of, or in connection with, the performance of the Work, whether on or off the Site, which caused death, personal injury, or property damage, giving full details and statements of witnesses. In addition, if death or serious injuries or serious damages are caused, the accident shall be reported within four (4) days by telephone or messenger. Contractor shall thereafter immediately, within two (2) days, report the facts in writing to the District and the Architect giving full details of the accident.

10.1.5 First-Aid Supplies at Site

The Contractor will provide and maintain at the Site first-aid supplies which complies with the current Occupational Safety and Health Regulations.

10.1.6 Material Safety Data Sheets and Compliance with Proposition 65

Contractor is required to have material safety data sheets available in a readily accessible place at the job site for any material requiring a material safety data sheet per the Federal "hazard communication" standard, or employees' "right-to-know law." The Contractor is also required to properly label any substance brought into the job site, and require that any person working with the material, or within the general area of the material, is informed of the hazards of the substance and follows proper handling and protection procedures.

Contractor is required to comply with the provisions of California Health and Safety Code section 25249, et seq., which requires the posting and giving of notice to persons who may be exposed to any chemical known to the State of California to cause cancer. The Contractor agrees to familiarize itself with the provisions of this Section, and to comply fully with its requirements.

10.1.7 Non-Utilization of Asbestos Material

NO ASBESTOS OR ASBESTOS-CONTAINING PRODUCTS SHALL BE USED IN THIS CONSTRUCTION OR IN ANY TOOLS, DEVICES, CLOTHING, OR EQUIPMENT USED TO EFFECT THIS CONSTRUCTION.

Asbestos and/or asbestos-containing products shall be defined as all items containing, but not limited to, chrysotile, amosite, anthophyllite, tremolite, and antinolite.

Any or all material containing greater than one-tenth of one percent (>.1%) asbestos shall be defined as asbestos-containing material.

All Work or materials found to contain asbestos or Work or material installed with asbestos-containing equipment will be immediately rejected and this Work will be removed at no additional cost to the District.

Decontamination and removal of Work found to contain asbestos or Work installed with asbestos-containing equipment shall be done only under supervision of a qualified consultant, knowledgeable in the field of asbestos abatement and accredited by the Environmental Protection Agency.

The asbestos removal contractor shall be an EPA accredited contractor qualified in the removal of asbestos and shall be chosen and approved by the asbestos consultant, who shall have sole discretion and final determination in this matter.

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The asbestos consultant shall be chosen and approved by the District, who shall have sole discretion and final determination in this matter.

The Work will not be accepted until asbestos contamination is reduced to levels deemed acceptable by the asbestos consultant.

Interface of Work under this Contract with Work containing asbestos shall be executed by the Contractor at his risk and at his discretion, with full knowledge of the currently accepted standards, hazards, risks, and liabilities associated with asbestos work and asbestos-containing products. By execution of this Contract, the Contractor acknowledges the above and agrees to hold harmless District and its assigns for all asbestos liability which may be associated with this work and agrees to instruct his employees with respect to the above-mentioned standards, hazards, risks, and liabilities.

10.2 SAFETY OF PERSONS AND PROPERTY

10.2.1 The Contractor

The Contractor shall take reasonable precautions for the safety of, and shall provide reasonable protection to prevent damage, injury, or loss to:

- a. Employees on the Work and other persons who may be affected thereby;
- b. The Work, material, and equipment to be incorporated therein, whether in storage on or off the Site, under the care, custody, or control of the Contractor or the Contractor's Subcontractors or Sub-subcontractors; and
- c. Other property at the Site or adjacent thereto such as trees, shrubs, lawns, walks, pavement, roadways, structures, and utilities not designated for removal, relocation, or replacement in the course of construction.

Contractor is constructive owner of Project site as more fully discussed in Article 6.2.

10.2.2 Contractor Notices

The Contractor shall give notices and comply with applicable laws, ordinances, rules, regulations, and lawful orders of public authorities bearing on the safety of persons or property or their protection from damage, injury, or loss.

10.2.3 Safety Barriers and Safeguards

The Contractor shall erect and maintain, as required by existing conditions and performance of the Contract, reasonable safeguards for safety and protection, including posting danger signs and other warnings against hazards, promulgating safety regulations, and notifying owners and users of adjacent sites and utilities.

10.2.4 Use or Storage of Hazardous Material

When use or storage of explosives, other hazardous materials or equipment, or unusual methods are necessary for execution of the Work, the Contractor shall exercise utmost care and carry on such activities under supervision of properly qualified personnel. The Contractor shall notify the District

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any time that explosives or hazardous materials are expected to be stored on Site. Location of storage shall be coordinated with the District and local fire authorities.

10.2.5 Protection of Work

The Contractor and Subcontractors shall continuously protect the Work, the District's property, and the property of others, from damage, injury, or loss arising in connection with operations under the Contract Documents. The Contractor and Subcontractors, at their own expense, shall make good any such damage, injury, or loss, except such as may be solely due to, or caused by, agents or employees of the District.

The Contractor, at Contractor's expense, will remove all mud, water, or other elements as may be required for the proper protection and prosecution of its Work.

Contractor shall take adequate precautions to protect existing roads, sidewalks, curbs, pavements, utilities, adjoining property and structures (including, without limitation, protection from settlement or loss of lateral support), and to avoid damage thereto, and repair any damage thereto caused by construction operations. All permits, licenses, or inspection fees required for such repair Work shall be obtained and paid for by Contractor.

10.2.6 Requirements for Existing Sites

Contractor shall (unless waived by the District in writing):

- a. When performing construction on existing sites, become informed and take into specific account the maturity of the students on the Site; and perform Work which may interfere with school routine before or after school hours, enclose working area with a substantial barricade, and arrange Work to cause a minimum amount of inconvenience and danger to students and faculty in their regular school activities. The Contractor shall comply with Specifications and directives of the District regarding the timing of certain construction activities in order to avoid unnecessary interference with school functioning.
- b. Avoid performing any Work that will disturb students during testing.
- c. Provide substantial barricades around any shrubs or trees indicated to be preserved.
- d. Deliver materials to building area over route designated by Architect.
- e. Take preventive measures to eliminate objectionable dust, noise, or other disturbances.
- f. Confine apparatus, the storage of materials, and the operations of workers to limits indicated by law, ordinances, permits or directions of Architect; and not interfere with the Work or unreasonably encumber premises or overload any structure with materials; and enforce all instructions of District and Architect regarding signs, advertising, fires, and smoking and require that all workers comply with all regulations while on the Project site.

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- g. Take care to prevent disturbing or covering any survey markers, monuments, or other devices marking property boundaries or corners. If such markers are disturbed by accident, they shall be replaced by an approved land surveyor or civil engineer and all maps and records required therefrom shall be filed with county and local authorities, at no cost to the District. All filing and plan check fees shall be paid by Contractor.
- h. Provide District on request with Contractor's written safety program and safety plan for each site.

10.2.7 Shoring and Structural Loading

The Contractor shall not impose structural loading upon any part of the Work under construction or upon existing construction on or adjacent to the Site in excess of safe limits, or loading such as to result in damage to the structural, architectural, mechanical, electrical, or other components of the Work. The design of all temporary construction equipment and appliances used in construction of the Work and not a permanent part thereof, including, without limitation, hoisting equipment, cribbing, shoring, and temporary bracing of structural steel, is the sole responsibility of the Contractor. All such items shall conform with the requirements of governing codes and all laws, ordinances, rules, regulations, and orders of all authorities having jurisdiction. The Contractor shall take special precautions, such as shoring of masonry walls and temporary tie bracing of structural steel Work, to prevent possible wind damage during construction of the Work. The installation of such bracing or shoring shall not damage the Work in place or the Work installed by others. Any damage which does occur shall be promptly repaired by the Contractor at no cost to the District.

10.2.8 Conformance within Established Limits

The Contractor and Subcontractors shall confine their construction equipment, the storage of materials, and the operations of workers to the limits indicated by laws, ordinances, permits, and the limits established by the District or the Contractor, and shall not unreasonably encumber the premises with construction equipment or materials.

10.2.9 Subcontractor Enforcement of Rules

Subcontractors shall enforce the District's and the Contractor's instructions, laws, and regulations regarding signs, advertisements, fires, smoking, the presence of liquor, and the presence of firearms by any person at the Site.

10.2.10 Site Access

The Contractor and the Subcontractors shall use only those ingress and egress routes designated by the District, observe the boundaries of the Site designated by the District, park only in those areas designated by the District, which areas may be on or off the Site, and comply with any parking control program established by the District, such as furnishing license plate information and placing identifying stickers on vehicles.

10.2.11 Security Services.

The Contractor shall be responsible for providing security services for the Site as needed for the protection of the Site and as determined in the District's sole discretion.

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10.3 EMERGENCIES

10.3.1 Emergency Action

In an emergency affecting the safety of persons or property, the Contractor shall take any action necessary, at the Contractor's discretion, to prevent threatened damage, injury, or loss. Additional compensation or extension of time claimed by the Contractor on account of an emergency shall be determined as provided in Article 7.

10.3.2 Accident Reports

The Contractor shall promptly report in writing to the District all accidents arising out of or in connection with the Work, which caused death, personal injury, or property damage, giving full details and statements of any witnesses in conformance with Article 10.1.4. In addition, if death, serious personal injuries, or serious property damages are caused, the accident shall be reported in accordance with Article 10.1.4, immediately by telephone or messenger to the District.

10.4 HAZARDOUS MATERIALS

10.4.1 Discovery of Hazardous Materials

In the event the Contractor encounters or suspects the presence on the job site of material reasonably believed to be asbestos, polychlorinated biphenyl (PCB), or any other material defined as being hazardous by § 25249.5 of the California Health and Safety Code, which has not been rendered harmless, the Contractor shall immediately stop Work in the area affected and report the condition to the District and the Architect in writing, whether or not such material was generated by the Contractor or the District. The Work in the affected area shall not thereafter be resumed, except by written agreement of the District and the Contractor, if in fact the material is asbestos, polychlorinated biphenyl (PCB), or other hazardous material, and has not been rendered harmless. The Work in the affected area shall be resumed only in the absence of asbestos, polychlorinated biphenyl (PCB), or other hazardous material, or when it has been rendered harmless by written agreement of the District and the Contractor.

10.4.2 Hazardous Material Work Limitations

In the event that the presence of hazardous materials is suspected or discovered on the Site (except in cases where asbestos and other hazardous material Work in the Contractor's responsibility), the District shall retain an independent testing laboratory to determine the nature of the material encountered and whether corrective measures or remedial action is required. The Contractor shall not be required pursuant to Article 7 to perform without consent any Work in the affected area of the Site relating to asbestos, polychlorinated biphenyl (PCB), or other hazardous material, until any known or suspected hazardous material has been removed, or rendered harmless, or determined to be harmless by District, as certified by an independent testing laboratory and approved by the appropriate government agency.

10.4.3 Indemnification by Contractor for Hazardous Material Caused by Contractor

In the event the hazardous materials on the Project Site is caused by the Contractor, the Contractor shall pay for all costs of testing and remediation, if any, and shall compensate the District for any additional costs incurred as a result of Contractor's generation of hazardous material on the Project Site. In addition, the Contractor shall defend, indemnify and hold harmless District and its agents, officers,

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and employees from and against any and all claims, damages, losses, costs and expenses incurred in connection with, arising out of, or relating to, the presence of hazardous material on the Project Site.

10.4.4 Terms of Hazardous Material Provision

The terms of this Hazardous Material provision shall survive the completion of the Work and/or any termination of this Contract.

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ARTICLE 11 INSURANCE AND BONDS

11.1 CONTRACTOR'S LIABILITY INSURANCE

11.1.1 Insurance Requirements

Before the commencement of the Work, the Contractor shall purchase from and maintain in a company or companies lawfully authorized to do business in California with a financial rating of at least an A-VIII status as rated in the most recent edition of Best's Insurance Reports or as amended by the Supplementary General Conditions, such insurance as will protect the District from claims set forth below, which may arise out of or result from the Contractor's Work under the Contract and for which the Contractor may be legally liable, whether such Work are by the Contractor, by a Subcontractor, by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable. Any required insurance shall not contain any exclusion that applies to the type of work performed by the Contractor under the Contract Documents.

- a. Claims for damages because of bodily injury, sickness, disease, or death of any person District would require indemnification and coverage for employee claim;
- b. Claims for damages insured by usual personal injury liability coverage, which are sustained by a person as a result of an offense directly or indirectly related to employment of such person by the Contractor or by another person;
- c. Claims for damages because of injury or destruction of tangible property, including loss of use resulting therefrom, arising from operations under the Contract Documents;
- d. Claims for damages because of bodily injury, death of a person, or property damage arising out of the ownership, maintenance, or use of a motor vehicle, all mobile equipment, and vehicles moving under their own power and engaged in the Work;
- e. Claims involving contractual liability applicable to the Contractor's obligations under the Contract Documents, including liability assumed by and the indemnity and defense obligations of the Contractor and the Subcontractors; and
- f. Claims involving Completed Operations, Independent Contractors' coverage, and Broad Form property damage, without any exclusions for collapse, explosion, demolition, underground coverage, and excavating. (XCU)
- g. Claims involving sudden or accidental discharge of contaminants or pollutants.

11.1.2 Specific Insurance Requirements

Contractor shall take out and maintain and shall require all Subcontractors, if any, whether primary or secondary, to take out and maintain:

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Comprehensive General Liability Insurance with a combined single limit per occurrence of not less than \$2,000,000.00 or Commercial General Liability Insurance which provides limits of not less than:

- (a) Per occurrence (combined single limit) \$2,000,000.00
.....
- (b) Project Specific Aggregate (for this Project only) \$2,000,000.00
.....
- (c) Products and Completed Operations (aggregate) \$2,000,000.00
.....
- (d) Personal and Advertising Injury Limit \$1,000,000.00
.....

Insurance Covering Special Hazards

The following Special hazards shall be covered by riders or riders to above mentioned public liability insurance or property damage insurance policy or policies of insurance, in amounts as follows:

- (a) Automotive and truck where operated in amounts \$1,000,000.00
.....
- (b) Material Hoist where used in amounts \$1,000,000.00
.....
- (c) Explosion, Collapse and Underground
(XCU coverage) \$1,000,000.00
.....
- (d) Hazardous Materials \$1,000,000.00
.....

In addition, provide Excess Liability Insurance coverage in the amount of Four Million Dollars (\$4,000,000.00).

11.1.3 Subcontractor Insurance Requirements

The Contractor shall require its Subcontractors to take out and maintain public liability insurance and property damage insurance required under Article 11.1 in like amounts. A “claims made” or modified “occurrence” policy shall not satisfy the requirements of Article 11.1 without prior written approval of the District.

11.1.4 Additional Insured Endorsement Requirements

The Contractor shall name, on any policy of insurance required under Article 11.1, the District, CM, Architect, Inspector, the State of California, their officers, employees, agents, volunteers and independent contractors as additional insureds. Subcontractors shall name the Contractor, the District,

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Architect, Inspector, the State of California, their officers, employees, agents, volunteers and independent contractors as additional insureds. The Additional Insured Endorsement included on all such insurance policies shall be an ISO CG 20 10 (04/13), or an ISO CG 20 38 (04/13), or their equivalent as determined by the District in its sole discretion, and must state that coverage is afforded the additional insured with respect to claims arising out of operations performed by or on behalf of the insured. If the additional insureds have other insurance which is applicable to the loss, such other insurance shall be on an excess or contingent basis. The insurance provided by the Contractor pursuant to 11.1 must be designated in the policy as primary to any insurance obtained by the District. The amount of the insurer's liability shall not be reduced by the existence of such other insurance.

11.2 WORKERS' COMPENSATION INSURANCE

During the term of this Contract, the Contractor shall provide workers' compensation and employer's liability insurance for all of the Contractor's employees engaged in Work under this Contract on or at the Site of the Project and, in case any of the Contractor's Work is subcontracted, the Contractor shall require the Subcontractor to provide workers' compensation insurance for all the Subcontractor's employees engaged in Work under the subcontract. Any class of employee or employees not covered by a Subcontractor's insurance shall be covered by the Contractor's insurance. In case any class of employees engaged in Work under this Contract on or at the Site of the Project is not protected under the Workers' Compensation laws, the Contractor shall provide or cause a Subcontractor to provide insurance coverage for the protection of those employees not otherwise protected. The Contractor shall file with the District certificates of insurance as required under Article 11.6 and in compliance with Labor Code § 3700.

Workers' compensation limits as required by the Labor Code, but not less than \$1,000,000 and employers' liability limits of \$1,000,000 per accident for bodily injury or disease.

11.3 BUILDER'S RISK/ "ALL RISK" INSURANCE

11.3.1 Course-of-Construction Insurance Requirements

The Contractor, during the progress of the Work and until final acceptance of the Work by District upon completion of the entire Contract, shall maintain Builder's Risk, Course of Construction or similar first party property coverage issued on a replacement cost value basis consistent with the total replacement cost of all insurable Work and the Project included within the Contract Documents. Coverage is to insure against all risks of accidental direct physical loss, and must include, by the basic grant of coverage or by endorsement, the perils of vandalism, malicious mischief (both without any limitation regarding vacancy or occupancy), fire, sprinkler leakage, civil authority, sonic boom, earthquake, flood, collapse, wind, lightning, smoke and riot. The coverage must include debris removal, demolition, increased costs due to enforcement of building ordinance and law in the repair and replacement of damage and undamaged portions of the property, and reasonable costs for the Architect's and engineering services and expenses required as a result of any insured loss upon the Work and Project which is the subject of the Contract Documents, including completed Work and Work in progress, to the full insurable value thereof. Such insurance shall include the District and the Architect as additional named insureds, and any other person with an insurable interest as designated by the District.

The Contractor shall submit to the District for its approval all items deemed to be uninsurable. The risk of the damage to the Work due to the perils covered by the "Builder's Risk/All Risk" Insurance, as well as any other hazard which might result in damage to the Work, is that of the Contractor and the Surety, and no Claims for such loss or damage shall be recognized by the District nor will such loss or damage excuse the complete and satisfactory performance of the Contract by the Contractor.

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11.4 FIRE INSURANCE

Before the commencement of the Work, the Contractor shall procure, maintain, and cause to be maintained at the Contractor's expense, fire insurance on all Work subject to loss or damage by fire. The amount of fire insurance shall be sufficient to protect the Project against loss or damage in full until the Work is accepted by the District. This requirement may be waived upon confirmation by the District that such coverage is provided under the Builder's Risk Insurance being provided.

11.5 AUTOMOBILE LIABILITY

11.5.1 The District, Architect and Construction Manager, Inspectors, their directors, officers, employees, agents and volunteers shall be covered as additional insureds with respect to the ownership, operation, maintenance, use, loading or unloading of any auto owned, leased, hired or borrowed by the Contractor or for which the Contractor is responsible. Such insurance coverage shall be primary and non-contributory insurance as respects the District, Architect, Construction Manager, Project Inspector, their directors, officers, employees, agents and volunteers, or if excess, shall stand in an unbroken chain of coverage excess of the Contractor's scheduled underlying coverage. Any insurance or self-insurance maintained by the District, Architect, Construction Manager, Project Inspector, their directors, officers, employees, agents and volunteers shall be excess of the Contractor's insurance and shall not be called upon to contribute with it. The insurer shall agree to waive all rights of subrogation against the District, Architect, Construction Manager, Project Inspector, their directors, officers, employees, agents and volunteers for losses paid under the terms of the insurance policy that arise from Work performed by the Contractor.

11.5.2 Insurance Services Office Business Auto Coverage Form Number CA 0001, Code 1 (any auto) is required. Comprehensive Automobile Liability insurance to include all autos, owned, non-owned, and hired, with limits of \$1,000,000 per accident for bodily injury and property damage.

11.6 OTHER INSURANCE

The Contractor shall provide all other insurance required to be maintained under applicable laws, ordinances, rules, and regulations.

11.7 PROOF OF INSURANCE

The Contractor shall not commence Work nor shall it allow any Subcontractor to commence Work under this Contract until all required insurance and certificates have been obtained and delivered in duplicate to the District for approval subject to the following requirements:

a. Certificates and insurance policies shall include the following clause:

"This policy and any coverage shall not be suspended, voided, non-renewed, canceled, or reduced in required limits of liability or amounts of insurance or coverage until notice has been mailed via certified mail to the District. Date of cancellation or reduction may not be less than thirty (30) days after the date of mailing notice."

b. Certificates of insurance shall state in particular those insured, the extent of insurance, location and operation to which the insurance applies, the expiration date, and cancellation and reduction notices.

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- c. Certificates of insurance shall clearly state that the District and the Architect are named as additional insureds under the policy described and that such insurance policy shall be primary to any insurance or self-insurance maintained by District.
- d. The Contractor and its Subcontractors shall produce a certified copy of any insurance policy required under this Section upon written request of the District.

11.8 COMPLIANCE

In the event of the failure of Contractor to furnish and maintain any insurance required by this Article 11, the Contractor shall be in default under the Contract. Compliance by Contractor with the requirement to carry insurance and furnish certificates or policies evidencing the same shall not relieve the Contractor from liability assumed under any provision of the Contract Documents, including, without limitation, the obligation to defend and indemnify the District and the Architect.

11.9 WAIVER OF SUBROGATION

Contractor waives (to the extent permitted by law) any right to recover against the District for damages to the Work, any part thereof, or any and all claims arising by reason of any of the foregoing, but only to the extent that such damages and/or claims are covered by property insurance and only to the extent of such coverage (which shall exclude deductible amounts) by insurance actually carried by the District.

The provisions of this Article are intended to restrict each party to recovery against insurance carriers only to the extent of such coverage and waive fully and for the benefit of each, any rights and/or claims which might give rise to a right of subrogation in any insurance carrier. The District and the Contractor shall each obtain in all policies of insurance carried by either of them, a waiver by the insurance companies thereunder of all rights of recovery by way of subrogation for any damages or claims covered by the insurance.

11.10 PERFORMANCE AND PAYMENT BONDS

11.10.1 Bond Requirements

Unless otherwise specified in the Supplemental Conditions, prior to commencing any portion of the Work, the Contractor shall furnish separate Payment and Performance Bonds for its portion of the Work which shall cover 100% faithful performance of and payment of all obligations arising under the Contract Documents and/or guaranteeing the payment in full of all claims for labor performed and materials supplied for the Work. All bonds shall be provided by a corporate Surety authorized and admitted to transact business in California as sureties.

To the extent, if any, that the Contract Price is increased in accordance with the Contract Documents, the Contractor shall, upon request of the District, cause the amount of the bonds to be increased accordingly and shall promptly deliver satisfactory evidence of such increase to the District. To the extent available, the bonds shall further provide that no change or alteration of the Contract Documents (including, without limitation, an increase in the Contract Price, as referred to above), extensions of time, or modifications of the time, terms, or conditions of payment to the Contractor will release the Surety. If the Contractor fails to furnish the required bonds, the District may terminate the Contract for cause.

11.10.2 Surety Qualification

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Only bonds executed by admitted Surety insurers as defined in Code of Civil Procedure § 995.120 shall be accepted. Surety must be a California-admitted Surety and listed by the U.S. Treasury with a bonding capacity in excess of the Project cost.

11.10.3 Alternate Surety Qualifications

If a California-admitted Surety insurer issuing bonds does not meet these requirements, the insurer will be considered qualified if it is in conformance with § 995.660 of the California Code of Civil Procedure and proof of such is provided to the District.

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ARTICLE 12 UNCOVERING AND CORRECTION OF WORK

12.1 COMPLIANCE WITH TITLE 24 INSTALLATION REQUIREMENTS

Contractor is aware of the requirements governing Contractor's Work under title 24 Section 4-343 which provides, in pertinent part:

4-343. Duties of the Contractor.

(a) **Responsibilities.** It is the duty of the contractor to complete the Work covered by his or her contract in accordance with the approved Plans and Specifications therefore. The contractor in no way is relieved of any responsibility by the activities of the architect, engineer, Inspector or DSA in the performance of such duties.

(b) **Performance of the Work.** The contractor shall carefully study the approved Plans and Specifications and shall plan a schedule of operations well ahead of time. If at any time it is discovered that Work is being done which is not in accordance with the approved Plans and Specifications, the contractor shall correct the Work immediately. All inconsistencies or items which appear to be in error in the Plans and Specifications shall be promptly called to the attention of the architect or registered engineer, through the Inspector, for interpretation or correction. In no case, however, shall the instruction of the architect or registered engineer be construed to cause Work to be done which is not in conformity with the approved Plans, Specifications, and Change Orders. The contractor must notify the Project Inspector, in advance, of the commencement of construction of each and every aspect of the Work.

12.1.1 Issuance of Notices of Non-Compliance

The Inspector may issue a Notice of Non-Compliance on the Project indicating deviation from Plans and Specifications. It is Contractor's responsibility to correct all deviations from the approved Plans and Specifications unless the District has issued an Immediate Change Directive. In such case, the Contractor shall proceed with the Work with the understandings of the District as set forth in the ICD and as specifically noted in Article 7.3.

12.2 SPECIAL NOTICE OF AMERICAN'S WITH DISABILITIES ACT

Some of the requirements in the Plans and Specifications are meant to comply with the Americans with Disabilities Act ("ADA"). The requirements of the ADA are technical in nature and may appear to be minor in nature (i.e. whether a walkway or ramp has a 2% cross-slope). Contractor is warned that even the slightest deviation from the specific requirements from the ADA is considered a Civil Rights violation and subjects the District to fines of three times actual damages sustained by a handicap individual or up to \$4,000 per violation and attorney's fees required to enforce the ADA violation. As a result of the significant liability and exposure associated with ADA aspects of the Contract, Contractor shall take special care to meet all ADA requirements detailed in the Plans and Specifications. Failure to comply with ADA rules that results in a Notice of Non-Compliance shall be repaired to meet ADA requirements promptly. In addition, any ADA violations that are not identified by Inspector or Architect that are later identified shall be repaired and charged back to the Contractor through a Deductive Change Order.

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12.2.1 Indemnification of ADA Claims

Contractor shall indemnify, hold harmless and defend the District from ADA claims arising from the failure to comply with the Plans and Specifications. Further, any withholdings for ADA violations under Article 9.6 shall include potential redesign costs and an accelerated repair costs due to the potential for ADA claims arising from DSA posting of ADA violations on the Project.

12.3 UNCOVERING OF WORK

12.3.1 Uncovering Work for Required Inspections

Work shall not be covered without the Inspector's review and the Architect's knowledge that the Work conforms with the requirements of the approved Plans and Specifications (except in the case of an ICD under Article 7.3). Inspector must be timely notified of inspections and of new areas so Work can be inspected at least 48 hours before opening a new area (For example, see DSA Form 156 for Commencement/Completion of Work Notification which requires "at least 48 hours" advance notification of a new area). An Inspector must comply with DSA protocols for signing each category or phase of Work under DSA Form 152 (in compliance with the Form 152 Manual) or a Notice of Deviation (DSA Form 154) will be issued requiring the Work that was not inspected be uncovered for inspection. Thus, if a portion of the Work is covered without inspection or Architect approval, is subject to a Notice of Non-Compliance for being undertaken without inspection, or otherwise not in compliance with the Contract Documents, after issuance of a Written Notice of Non-Compliance (Form 154) or a written notice to uncover Work, Contractor shall promptly uncover all Work (which includes furnishing all necessary facilities, labor, and material) for the Inspector's or the Architect's observation and such Work shall be replaced at the Contractor's expense without change in the Contract Sum or Time.

12.3.2 Costs for Inspections Not Required

If a portion of the Work has been covered is believed to be Non-Conforming to the Plans and Specifications, even if the Form 152 for the category of Work has been signed by the Inspector, the Inspector or the Architect may request to see such Work, and it shall be promptly uncovered by the Contractor. If such Work is in accordance with the Contract Documents, costs of uncover and replacement shall, by appropriate Change Order and shall, be charged to the District. If such Work is not in accordance with Contract Documents, the Contractor shall be responsible for all costs to uncover the Work, delays incurred to uncover the Work, and Contractor shall pay all costs to correct the Non-Conforming construction condition unless the condition was caused by the District or a separate contractor, in which event the District shall be responsible for payment of such costs to the Contractor.

12.4 CORRECTION OF WORK

12.4.1 Correction of Rejected Work

The Contractor shall promptly correct the Work rejected by the Inspector or the District upon recommendation of the Architect as failing to conform to the requirements of the Contract Documents, whether observed before or after Completion and whether or not Fabricated, installed, or completed. The Contractor shall bear costs of correcting the rejected Work, including cost for delays that may be incurred by Contractor or Subcontractors, the cost for additional testing, inspections, and compensation for the Inspector's or the Architect's services and expenses made necessary thereby (including costs for preparing a CCD, DSA CCD review fees, and additional inspection and special inspection costs).

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12.4.2 One-Year Warranty Corrections

If, within one (1) year after the date of Completion of the Work or a designated portion thereof, or after the date for commencement of warranties established under Article 9.9.1, or by the terms of an applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor shall correct it promptly after receipt of written notice from the District to do so unless the District has previously given the Contractor a written acceptance of such condition. This period of one (1) year shall be extended with respect to portions of the Work first performed after Completion by the period of time between Completion and the actual performance of the Work. This obligation under this Article 12.4.2 shall survive acceptance of the Work under the Contract and termination of the Contract. The District shall give such notice promptly after discovery of the condition.

12.4.3 District's Rights if Contractor Fails to Correct

If the Contractor fails to correct nonconforming Work within a reasonable time, the District may correct the Work and seek a Deductive Change Order, pursuant to Article 9.6 or Article 2.2.

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ARTICLE 13 MISCELLANEOUS PROVISIONS

13.1 GOVERNING LAW

The Contract shall be governed by the law of the place where the Project is located.

13.2 SUCCESSORS AND ASSIGNS

The District and the Contractor respectively bind themselves, their partners, successors, assigns, and legal representatives to the other party hereto and to partners, successors, assigns, and legal representatives of such other party in respect to covenants, agreements, and obligations contained in the Contract Documents. Neither party to the Contract shall assign the Contract as a whole without written consent of the other. If either party attempts to make such an assignment without such consent, that party shall nevertheless remain legally responsible for all obligations under the Contract.

13.3 WRITTEN NOTICE

In the absence of specific notice requirements in the Contract Documents, written notice shall be deemed to have been duly served if delivered in person to the individual, member of the firm or entity, or to an officer of the corporation for which it was intended, or if delivered at or sent by registered or certified mail to the last business address known to the party giving notice.

13.4 RIGHTS AND REMEDIES

13.4.1 Duties and Obligations Cumulative

Duties and obligations imposed by the Contract Documents and rights and remedies available thereunder shall be in addition to and not a limitation of duties, obligations, rights, and remedies otherwise imposed or available by law.

13.4.2 No Waiver

No action or failure to act by the Inspector, the District, or the Architect shall constitute a waiver of a right or duty afforded them under the Contract Documents, nor shall such action or failure to act constitute approval of or acquiescence in a breach thereunder, except as may be specifically agreed in writing.

13.5 TESTS AND INSPECTIONS

13.5.1 Compliance

Tests, inspections, and approvals of portions of the Work required by the Contract Documents will comply with Division 1, Title 24, and with all other laws, ordinances, rules, regulations, or orders of public authorities having jurisdiction.

13.5.2 Independent Testing Laboratory

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The District will select and pay an independent testing laboratory to conduct all tests and inspections. Selection of the materials required to be tested shall be made by the laboratory or the District's representative and not by the Contractor. See Articles 3.13.1 and 4.3.6 regarding costs or expenses of inspection or testing outside of the Project Site.

13.5.3 Advance Notice to Inspector

The Contractor shall notify the Inspector a sufficient time in advance of its readiness for required observation or inspection so that the Inspector may arrange for same. The Contractor shall notify the Inspector a sufficient time in advance of the manufacture of material to be supplied under the Contract Documents which must, by terms of the Contract Documents, be tested in order that the Inspector may arrange for the testing of the material at the source of supply.

13.5.4 Testing Off-Site

Any material shipped by the Contractor from the source of supply, prior to having satisfactorily passed such testing and inspection or prior to the receipt of notice from said Inspector that such testing and inspection will not be required, shall not be incorporated in the Work.

13.5.5 Additional Testing or Inspection

If the Inspector, the Architect, the District, or public authority having jurisdiction determines that portions of the Work require additional testing, inspection, or approval not included under Article 13.5.1, the Inspector will, upon written authorization from the District, make arrangements for such additional testing, inspection, or approval. The District shall bear such costs except as provided in Articles 13.5.6 and 13.5.7.

13.5.6 Costs for Retesting

If such procedures for testing, inspection, or approval under Articles 13.5.1 and 13.5.2 reveal failure of the portions of the Work to comply with requirements established by the Contract Documents, the Contractor shall bear all costs arising from such failure, including those of re-testing, re-inspection, or re-approval, including, but not limited to, compensation for the Architect's services and expenses. Any such costs shall be paid by the District, invoiced to the Contractor, and deducted from the next Progress Payment.

13.5.7 Costs for Premature Test

In the event the Contractor requests any test or inspection for the Project and is not completely ready for the inspection, the Contractor shall be invoiced by the District for all costs and expenses resulting from that testing or inspection, including, but not limited to, the Inspector's and Architect's fees and expenses, and the amount of the invoice shall be deducted from the next Progress Payment.

13.6 TRENCH EXCAVATION

13.6.1 Trenches Greater Than Five Feet

Pursuant to Labor Code section 6705, if the Contract Price exceeds \$25,000 and involves the excavation of any trench or trenches five (5) feet or more in depth, the Contractor shall, in advance of

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excavation, submit to the District or a registered civil or structural engineer employed by the District or Architect, a detailed plan showing the design of shoring for protection from the hazard of caving ground during the excavation of such trench or trenches.

13.6.2 Excavation Safety

If such plan varies from the Shoring System Standards established by the Construction Safety Orders, the plan shall be prepared by a registered civil or structural engineer, but in no case shall such plan be less effective than that required by the Construction Safety Orders. No excavation of such trench or trenches shall be commenced until said plan has been accepted by the District or by the person to whom authority to accept has been delegated by the District.

13.6.3 No Tort Liability of District

Pursuant to Labor Code § 6705, nothing in this Article shall impose tort liability upon the District or any of its employees.

13.6.4 No Excavation without Permits

The Contractor shall not commence any excavation Work until it has secured all necessary permits including the required CAL OSHA excavation/shoring permit. Any permits shall be prominently displayed on the Site prior to the commencement of any excavation.

13.7 WAGE RATES, TRAVEL, AND SUBSISTENCE

13.7.1 Wage Rates

Pursuant to the provisions of Article 2 (commencing at § 1720), Chapter 1, Part 7, Division 2, of the Labor Code, the District has obtained the general prevailing rate of per diem wages and the general prevailing rate for holiday and overtime work in the locality in which this public works project is to be performed for each craft, classification, or type of worker needed for this Project from the Director of the Department of Industrial Relations (“Director”). These rates are on file at the administrative office of the District and are also available from the Director of the Department of Industrial Relations. Copies will be made available to any interested party on request. The Contractor shall post a copy of such wage rates at appropriate, conspicuous, weatherproof points at the Site.

Any worker employed to perform Work on the Project, but such Work is not covered by any classification listed in the published general prevailing wage rate determinations or per diem wages determined by the Director of the Department of Industrial Relations, shall be paid not less than the minimum rate of wages specified therein for the classification which most nearly corresponds to the employment of such person in such classification.

13.7.2 Holiday and Overtime Pay

Holiday and overtime work, when permitted by law, shall be paid for at the rate set forth in the prevailing wage rate determinations issued by the Director of the Department of Industrial Relations or at least one and one-half (1½) times the specified basic rate of per diem wages, plus employer payments, unless otherwise specified in the Contract Documents or authorized by law.

13.7.3 Wage Rates Not Affected by Subcontracts

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The Contractor shall pay and shall cause to be paid each worker engaged in the execution of the Work on the Project not less than the general prevailing rate of per diem wages determined by the Director, regardless of any contractual relationship which may be alleged to exist between the Contractor or any Subcontractor and such workers.

13.7.4 Per Diem Wages

The Contractor shall pay and shall cause to be paid to each worker needed to execute the Work on the Project per diem wages including, but not limited to, employer payments for health and welfare, pensions, vacation, travel time and subsistence pay as provided for in Labor Code §1773.1.

13.7.5 Forfeiture and Payments

Pursuant to Labor Code §1775, the Contractor shall forfeit to the District, not more than Two Hundred Dollars (\$200.00) for each calendar day, or portion thereof, for each worker paid less than the prevailing wages rates as determined by the Director of the Department of Industrial Relations, for the work or craft in which the worker is employed for any Work done under the Agreement by the Contractor or by any Subcontractor under it. The amount of the penalty shall be determined by the Labor Commissioner and shall be based on consideration of: (1) whether the Contractor or Subcontractor's failure to pay the correct rate of per diem wages was a good faith mistake and, if so, the error was promptly and voluntarily correct upon being brought to the attention of the Contractor or Subcontractor; and (2) whether the Contractor or Subcontractor has a prior record of failing to meet its prevailing wage obligations.

13.7.6 Monitoring and Enforcement by Labor Commissioner

Monitoring and enforcement of the prevailing wage laws and related requirements will be performed by the Labor Commissioner/ Department of Labor Standards Enforcement (DLSE). The Contractor and all subcontractors shall be required to furnish, at least monthly, certified payroll records directly to the Labor Commissioner in accordance with Labor Code section 1771.4. All payroll records shall be furnished in a format required by the Labor Commissioner. The Contractor and all subcontractors must sign up for, and utilize, the Labor Commissioner's electronic certified payroll records submission system. The District will have direct and immediate access to all CPRs for the Project that are submitted through the Labor Commissioner's system. The District can use this information for any appropriate purpose, including monitoring compliance, identifying suspected violations, and responding to Public Records Act requests.

The Labor Commissioner/ DLSE may conduct various compliance monitoring and enforcement activities including, but not limited to, confirming the accuracy of payroll records, conducting worker interviews, conducting audits, requiring submission of itemized statements prepared in accordance with Labor Code section 226, and conducting random in-person inspections of the Project site ("On-Site Visits"). On-Site Visits may include inspections of records, inspections of the Work site and observation of work activities, interviews of workers and others involved with the Project, and any other activities deemed necessary by the Labor Commissioner/DLSE to ensure compliance with prevailing wage requirements. The Labor Commissioner/DLSE shall have free access to any construction site or other place of labor and may obtain any information or statistics pertaining to the lawful duties of the Labor Commissioner/DLSE.

Any lawful activities conducted or any requests made by the Labor Commissioner/DLSE shall not be the basis for any delays, claims, costs, damages or liability of any kind against the District by the Contractor. Contractor and all subcontractors shall cooperate and comply with any lawful requests by

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the Labor Commissioner/ DLSE. The failure of the Labor Commissioner, DLSE, or any other entity related to the Department of Industrial Relations to comply with any requirement imposed by the California Code of Regulations, Title 8, Chapter 8 shall not of itself constitute a defense to the failure to pay prevailing wages or to comply with any other obligation imposed by Division 2, Part 7, Chapter 1 of the Labor Code.

Prior to commencing any Work on the Project, the Contractor shall post the required notice/poster required under the California Code of Regulations and Labor Code section 1771.4 in both English and Spanish at a conspicuous, weatherproof area at the Project site. The required notice/poster is available on the Labor Commissioner's website.

13.8 RECORDS OF WAGES PAID

13.8.1 Payroll Records

- a. Pursuant to §1776 of the Labor Code, the Contractor and each Subcontractor shall keep an accurate payroll record showing the name, address, social security number, work classification and straight time and overtime hours worked each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker or other employee employed by him or her in connection with the Project.

All payroll records as specified in Labor Code §1776 of the Contractor and all Subcontractors shall be certified and furnished directly to the Labor Commissioner in accordance with Labor Code §1771.4(a)(3) on a monthly basis (or more frequently if required by the District or the Labor Commissioner) and in a format prescribed by the Labor Commissioner. Payroll records as specified in Labor Code §1776 shall be certified and submitted to the District with each application for payment. All payroll records shall be available for inspection at all reasonable hours at the principal office of the Contractor on the following basis:

1. A certified copy of an employee's payroll record shall be made available for inspection or furnished to the employee or his or her authorized representative on request.
2. A certified copy of all payroll records shall be made available for inspection or furnished upon request to a representative of District, the Division of Labor Standards Enforcement or the Division of Apprenticeship Standards of the Department of Industrial Relations.
3. A certified copy of all payroll records shall be made available upon request by the public for inspection or for copies thereof. However, a request by the public shall be made through the District, the Division of Apprenticeship Standards or the Division of Labor Standards Enforcement. If the requested payroll records have not been provided pursuant to Paragraph (2) above, the requesting party shall, prior to being provided the records, reimburse the costs, according to law for the preparation by the Contractor, Subcontractor(s), and the entity through which the request was made. The public shall not be given access to such records at the principal office of the Contractor.

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- b. The certified payroll records shall be on forms provided by the Division of Labor Standards Enforcement or shall contain the same information as the forms provided by the Division of Labor Standards Enforcement.
- c. The Contractor or Subcontractor(s) shall file a certified copy of all payroll records with the entity that requested such records within 10 calendar days after receipt of a written request.
- d. Any copy of records made available for inspection as copies and furnished upon request to the public or any public agency by the District, the Division of Apprenticeship Standards or the Division of Labor Standards Enforcement shall be marked or obliterated to prevent disclosure of an individual's name, address and social security number. The name and address of the Contractor awarded the Contract or the Subcontractor(s) performing the Contract shall not be marked or obliterated. Any copy of records made available for inspection by, or furnished to, a joint labor-management committee established pursuant to the federal Labor Management Cooperation Act of 1978 (Section 175a of Title 29 of the United States Code) shall be marked or obliterated only to prevent disclosure of an individual's name and social security number. Notwithstanding any other provision of law, agencies that are included in the Joint Enforcement Strike Force on the Underground Economy established pursuant to Section 329 of the Unemployment Insurance Code and other law enforcement agencies investigating violations of law shall, upon request, be provided non-redacted copies of certified payroll records.
- e. The Contractor shall inform the District of the location of all payroll records, including the street address, city and county, and shall, within five working days, provide a notice of a change of location and address.
- f. The Contractor or Subcontractor(s) shall have 10 calendar days in which to comply subsequent to receipt of a written notice requesting payroll records. In the event that the Contractor or Subcontractor(s) fails to comply within the 10-day period, the Contractor or Subcontractor(s) shall, as a penalty to the District, forfeit One Hundred Dollars (\$100.00) for each calendar day, or portion thereof, for each worker, until strict compliance is effectuated. Upon the request of the Division of Apprenticeship Standards or the Division of Labor Standards Enforcement, these penalties shall be withheld from progress payments then due.

Responsibility for compliance with this Article shall rest upon the Contractor.

13.8.2 Withholding of Contract Payments & Penalties

The District may withhold or delay contract payments to the Contractor and/or any Subcontractor if:

- a. The required prevailing rate of per diem wages determined by the Director of the Department of Industrial Relations is not paid to all workers employed on the Project; or

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- b. The Contractor or Subcontractor(s) fail to submit all required certified payroll records with each application for payment, but not less than once per month; or
- c. The Contractor or Subcontractor(s) submit incomplete or inadequate payroll records; or
- d. The Contractor or Subcontractor(s) fail to comply with the Labor Code requirements concerning apprentices; or
- e. The Contractor or Subcontractor(s) fail to comply with any applicable state laws governing workers on public works projects.

13.9 APPRENTICES

13.9.1 Apprentice Wages and Definitions

All apprentices employed by the Contractor to perform services under the Contract shall be paid the standard wage paid to apprentices under the regulations of the craft or trade for which he or she is employed, and as determined by the Director of the Department of Industrial Relations, and shall be employed only at the craft or trade to which he or she is registered. Only apprentices, as defined in §3077 of the Labor Code, who are in training under apprenticeship standards that have been approved by the Chief of the Division of Apprenticeship Standards and who are parties to written apprenticeship agreements under Chapter 4 (commencing with §3070) of Division 3, are eligible to be employed under this Contract. The employment and training of each apprentice shall be in accordance with the apprenticeship standards and apprentice agreements under which he or she is training, or in accordance with the rules and regulations of the California Apprenticeship Council.

13.9.2 Employment of Apprentices

Contractor agrees to comply with the requirements of Labor Code §1777.5. The Contractor awarded the Project, or any Subcontractor under him or her, when performing any of the Work under the Contract or subcontract, employs workers in any apprenticeable craft or trade, the Contractor and Subcontractor shall employ apprentices in the ratio set forth in Labor Code §1777.5. The Contractor or any Subcontractor must apply to any apprenticeship program in the craft or trade that can provide apprentices to the Project site for a certificate approving the contractor or subcontractor under the apprenticeship standards for the employment and training of apprentices in the area or industry affected. However, the decision of the apprenticeship program to approve or deny a certificate shall be subject to review by the Administrator of Apprenticeship. The apprenticeship program or programs, upon approving the Contractor or Subcontractor, shall arrange for the dispatch of apprentices to the Contractor or Subcontractor upon the Contractor's or Subcontractor's request. "Apprenticeable craft or trade" as used in this Article means a craft or trade determined as an apprenticeable occupation in accordance with the rules and regulations prescribed by the California Apprenticeship Council. The ratio of work performed by apprentices to journeyman employed in a particular craft or trade on the Project shall be in accordance with Labor Code §1777.5.

13.9.3 Submission of Contract Information

Prior to commencing Work on the Project, the Contractor and Subcontractors shall submit contract award information to the applicable apprenticeship program(s) that can supply apprentices to the Project and make the request for the dispatch of apprentices in accordance with the Labor Code. The

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information submitted shall include an estimate of journeyman hours to be performed under the Contract, the number of apprentices proposed to be employed, and the approximate dates the apprentices would be employed. A copy of this information shall also be submitted to the District if requested. Within 60 days after concluding Work on the Project, the Contractor and Subcontractors shall submit to the District, if requested, and to the apprenticeship program a verified statement of the journeyman and apprentice hours performed on the Project.

13.9.4 Apprentice Fund

The Contractor or any Subcontractor under him or her, who, in performing any of the Work under the Contract, employs journeymen or apprentices in any apprenticeable craft or trade shall contribute to the California Apprenticeship Council the same amount that the Director determines is the prevailing amount of apprenticeship training contributions in the area of the Project. The Contractor and Subcontractors may take as a credit for payments to the California Apprenticeship Council any amounts paid by the Contractor or Subcontractor to an approved apprenticeship program that can supply apprentices to the Project. The Contractor and Subcontractors may add the amount of the contributions in computing his or her bid for the Contract.

13.9.5 Prime Contractor Compliance

The responsibility of compliance with Article 13 and §1777.5 of the Labor Code for all apprenticeable occupations is with the Prime Contractor. Any Contractor or Subcontractor that knowingly violates the provisions of this Article or Labor Code §1777.5 shall be subject to the penalties set forth in Labor Code §1777.7.

13.10 ASSIGNMENT OF ANTITRUST CLAIMS

13.10.1 Application

Pursuant to Government Code § 4551, in entering into a public works contract or a subcontract to supply goods, services, or materials pursuant to a public works contract, the Contractor or Subcontractor offers and agrees to assign to the District all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act, (15 U.S.C. § 15) or under the Cartwright Act (Chapter 2 [commencing with § 16700] of Part 2 of Division 7 of the Business and Professions Code), arising from the purchase of goods, services, or materials pursuant to the public works contract or the subcontract. This assignment shall be made and become effective at the time the awarding body tenders Retention Payment to the Contractor, without further acknowledgment by the parties. If the District receives, either through judgment or settlement, a monetary recovery for a cause of action assigned under Chapter 11 (commencing with § 4550) of Division 5 of Title 1 of the Government Code, the assignor shall be entitled to receive reimbursement for actual legal costs incurred and may, upon demand, recover from the District any portion of the recovery, including treble damages, attributable to overcharges that were paid by the assignor but were not paid by the District as part of the bid price, less the expenses incurred in obtaining that portion of the recovery.

13.10.2 Assignment of Claim

Upon demand in writing by the assignor, the District shall, within one (1) year from such demand, reassign the cause of action assigned pursuant to this Article if the assignor has been or may have been injured by the violation of law for which the cause of action arose and the District has not been injured thereby or the District declines to file a court action for the cause of action.

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13.11 STATE AND DISTRICT CONDUCTED AUDITS

Pursuant to and in accordance with the provisions of Government Code § 10532, or any amendments thereto, all books, records, and files of the District, the Contractor, or any Subcontractor connected with the performance of this Contract involving the expenditure of state funds in excess of Ten Thousand Dollars (\$10,000.00), including, but not limited to, the administration thereof, shall be subject to the examination and audit of the Office of the Auditor General of the State of California for a period of five (5) years after Retention Payment is made or a Notice of Completion is Recorded, whichever occurs first. Contractor shall preserve and cause to be preserved such books, records, hard drives, electronic media, and files for the audit period.

Pursuant to the remedies under Public Contract Code section 9201 and Government Code section 930.2, Contractor, through execution of this Agreement, also agrees the District shall have the right to review and audit, upon reasonable notice, the books and records of the Contractor concerning any monies associated with the Project. The purpose of this “Audit” is to quickly and efficiently resolve Disputes or Claims based on the actual costs incurred and to reduce the uncertainty in resolving Disputes or Claims with limited information. The District shall perform any audits at its own cost and any such audit shall be performed by an independent auditor, having no direct or indirect relationship with the functions or activities being audited or with the business conducted by the Contractor or District. In the event the independent auditor determines that Change Orders, response to Request for Proposals, Disputes, Claims, or other requests for payment are in error, or have has any other concerns or questions, the Auditor shall report the results of the Audit findings to the District and provide a copy to the Contractor after giving the District Board the opportunity for at least 10 days review. If the Contractor disputes the findings of the independent auditor, such dispute shall be handled in the manner set forth under Article 4.6.2.

If Contractor having agreed to the terms of this Contract fails to produce books or records requested by Auditor, such failure to produce books or records that were required to be preserved for audit, it shall be presumed that the information contained in the withheld books or records were unfavorable to the Contractor and the Auditor shall note this refusal in the results of the Audit findings for further evaluation by the District and the District’s Board. The refusal to release records that are concerning monies associated with the Project may be used as a grounds to debar the Contractor under Article 15 for failure to preserve records under Article 13.11 and the failure to produce required audit records may also be used as a grounds for a negative finding against the Contractor depending on the significance of the records that are withheld by Contractor. Failure to produce job cost data tied to job cost categories and budgets shall be presumed an intentional failure to produce key audit records. Similarly, failure to produce Daily Reports (prepared at or near the time of the Work actually took place (See Article 3.16) shall be presumed an intentional failure to produce key audited records.

If Contractor is seeking costs for inefficiency, home office overhead, or unanticipated increased costs due to delays or acceleration, Contractor shall also produce copies of the original bid tabulation utilized in submitting Contractor’s bid for the Project. This document shall be considered confidential and shall not be subject to disclosure through a Public Records Act and shall not be distributed to anyone other than the District and the District’s counsel. This bid tabulation shall only be used in litigation, arbitration, evaluation of Claims or Disputes, Audit, and trial. If the records for the bid tabulation are kept on a computer, the Contractor shall also produce all metadata (in native format) that accompanies the bid tabulation for inspection to prove the authenticity of the underlying bid tabulation. Failure to produce the bid tabulation for review of inefficiency, home office overhead, or unanticipated increased costs due to delays or accelerations shall be considered material evidence that the bid tabulation was not favorable to the Contractor. This evidence shall be entered as a jury instruction for trial that the bid

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tabulation was not produced and the bid tabulation information was unfavorable to the Contractor. The evidence may also be used in debarment proceedings, and noted as an exception to an Audit finding(s).

Upon notification of Contractor concerning the results of the audit and a reasonable time has passed for Contractor to respond to the Audit findings and if either there is no Dispute of the Audit findings under Article 4.6 or if the result after utilizing the Disputes Clause confirms the Audit findings, the District may seek reimbursement for overstated Disputes, Claims, or Change Orders and may also undertake debarment proceedings under Article 15 of these General Conditions.

13.12 STORM WATER POLLUTION PREVENTION

13.12.1 Application

This Section addresses the preparation, implementation and monitoring of a Storm Water Pollution Prevention Plan (SWPPP) for the purpose of preventing the discharge of pollutants from the construction site. This includes the elimination of pollution discharges such as improper dumping, spills or leakage from storage tanks or transfer areas. The District will not issue a Notice to Proceed until Contractor has prepared by a qualified individual and obtained approval of the Permit Registration Documents ("PRDs") that include a Notice of Intent, Construction Risk Calculation, Site Map, SWPPP, Annual Fee and any additional required documents from all applicable Local Governing Agencies including the Regional Water Quality Control Board. The Contractor shall also secure a certification that the Project has met all of the conditions of the General Construction Activity Storm Water Permit (GCASP) and comply with all applicable local, state and federal regulations governing storm water pollution prevention.

13.12.2 References and Materials

- California Stormwater Quality Association New Development and Redevelopment Best Management Practice Handbook
- 2009 California Stormwater Quality Association Construction BMP Handbook.
- State Water Resources Control Board (2009). Order 2009-0009-DWQ, NPDES General Permit No. CAS000002: Waste Discharge Requirements for Discharges of Storm Water Runoff Associated with Construction and Land Disturbing Activities. Available on-line at:
- http://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.shtml. - Use materials of a class, grade and type needed to meet the performance described in the BMP Handbook.

13.12.3 Preparation and Approval

The Contractor shall prepare by a qualified individual the PRDs that include a Notice of Intent, Construction Risk Calculation, Site Map, SWPPP, Annual Fee and any additional required documents. The Contractor's Qualified SWPPP Developer ("QSD") shall prepare the Storm Water Pollution Prevention Plan (SWPPP) as required to comply with storm water pollution regulations for project sites with storm water discharges associated with construction activity such as clearing or demolition, grading, excavation and other land disturbances. The SWPPP shall apply to all areas that are directly related to construction activity, including but not limited to staging areas, storage yards, material borrow areas, and access roads.

GENERAL CONDITIONS

13.12.3.1 The Contractor shall prepare and submit to the Local Governing Agencies and the District the SWPPP for review and approval if the project sites, new or existing, with land disturbance of 1 or more acres (or less than 1 acres if part of a common plan of development); the construction activity that results in land surface disturbances of less than one acre is part of a larger common plan of development or sale of one or more acres of disturbed land surface; or the construction activity associated with Linear Underground/Overhead Projects ("LUPs") including, but not limited to, those activities necessary for the installation of underground and overhead linear facilities (e.g., conduits, substructures, pipelines, towers, poles, cables, wires, connectors, switching, regulating and transforming equipment and associated ancillary facilities) and include, but are not limited to, underground utility mark-out, potholing, concrete and asphalt cutting and removal, trenching, excavation, boring and drilling, access road and pole/tower pad and cable/wire pull station, substation construction, substructure installation, construction of tower footings and/or foundations, pole and tower installations, pipeline installations, welding, concrete and/or pavement repair or replacement, and stockpile/borrow locations.

13.12.3.2 The Contractor shall also pay annual renewal fee(s) until the contract is completed and make all such checks payable to the State Water Resources Control Board. The Notice of Intent must be submitted at least two weeks prior to the commencement of construction activities.

13.12.3.3 The Contractor shall prepare the SWPPP by following the format in Sections 2, 3, 4 and Appendices A through F of the California Stormwater BMP Handbook - Construction, January 2009 edition, published by the California Stormwater Quality Association. The publication is available from:

California Stormwater
Quality Association
P.O. Box 2105
Menlo Park, CA 94026-2105
Phone: (650) 366-1042
E-mail: info@casqa.org

or

<https://www.casqa.org/store/products/tabid/154/p-167-construction-handbookportal-initial-subscription.aspx>

13.12.3.4 Where land disturbance is less than 1 acre, any BMPs indicated in the BMP Handbook needed to prevent or minimize storm water pollution shall be implemented at no extra cost to the District.

13.12.3.5 Within two weeks after Award of Contract by the District, the Contractor shall submit to the District's Civil Engineer one copy of the PRDs including the SWPPP for review. After the District's approval, the Contractor shall provide approved copies of the SWPPP as follows: one copy each to the Project Inspector, Construction Manager, Architect, Commissioned Architect and District's Civil Engineer.

13.12.4 Implementation

The Contractor shall implement the Storm Water Pollution Prevention Plan by doing the following:

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- a. Obtain a Waste Discharger Identification (WDID) number from the SWRCB before beginning construction. This number will be issued once your PRDs are administratively accepted and fee is received.
- b. Keep the SWPPP, REAPs, monitoring data on the construction site.
- c. Employ a Qualified SWPPP Practitioner (QSP) to implement the SWPPP during construction and develop Rain Event Action Plans ("REAPs").
- d. Install, inspect, maintain and monitor BMPs required by the General Permit.
- e. Install perimeter controls prior to starting other construction work at the site.
- f. Contain on-site storm water at the jobsite. Do not drain on-site water directly into the storm drain.
- g. Implement the SWPPP.
- h. Provide SWPPP and BMP implementation training for those responsible for implementing the SWPPP.
- i. Designate trained personnel for the proper implementation of the SWPPP.
- j. Conduct monitoring, as required, and assess compliance with the Numeric Action Levels (NALs) or Numeric Effluent Limitations (NELs) appropriate to your project.
- k. Report monitoring data:
 1. Maintain a paper or electronic copy of all required records for three years from the date generated or date submitted, whichever is last. These records must be available at the construction site until construction is completed.
 2. Have a QSD revise the SWPPP as needed to reflect the phases of construction and to suit changing site conditions and instances when properly installed systems are ineffective.
 3. Assist the District with entering any necessary data or information into the Stormwater Multi-Application and Reporting System ("SMARTS") system.
- l. At the end of Construction Contract:
 1. Submit Notice of Termination (NOT) into the SMARTS when construction is complete and conditions of termination listed in the NOT have been satisfied. A copy of the NOT can be found at: http://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.shtml.

GENERAL CONDITIONS

2. Leave in place storm water pollution prevention controls needed for post-construction storm water management and remove those that are not needed as determined by the District. Thereafter, left-in-place controls will be maintained by the District.
3. Provide Site Monitoring Reports, SWPPP revisions, Compliance Certifications and related documents to the District. Post-construction storm water operation and management plan as mentioned in the compliance certifications are considered to be in place at the end of the Construction Contract.

13.12.5 Monitoring

The Contractor shall conduct examination of storm water pollution prevention controls as required by the State Water Resources Control Board (2009). Order 2009-0009-DWQ, NPDES General Permit No. CAS000002: Waste Discharge Requirements for Discharges of Storm Water Runoff Associated with Construction and Land Disturbing Activities. This includes properly qualified personnel performing all required monitoring, testing, inspections and monitoring. The Contractor shall also conduct examination of storm water pollution prevention controls, as well as before and after each storm event in compliance with the State Water Resources Control Board Order No. 2009-0009-DWQ, National Pollutant Discharge Elimination System General Permit No. CAS000002, Waste Discharge Requirements for Discharges of Storm Water Runoff Associated with Construction and Land Disturbance Activities (General Permit) (SWRCB, 2009).and at least once each 24-hour period during extended storm events to identify BMP effectiveness and implement repairs or BMP changes as soon as feasible. All maintenance related to a storm event should be completed within 48 hours of the storm event. The Contractor shall also prepare and maintain, at the jobsite, a log of each inspection using Site Monitoring Report forms.

13.12.6 Liabilities and Penalties

- a. Review of the SWPPP and inspection logs by the District shall not relieve the Contractor from liabilities arising from non-compliance with storm water pollution regulations.
- b. Payment of penalties for non-compliance by the Contractor shall be the sole responsibility of the Contractor and will not be reimbursed by the District.
- c. Compliance with the Clean Water Act pertaining to construction activity is the sole responsibility of the Contractor. For any fine(s) levied against the District due to non-compliance by the Contractor, the District will deduct from the final payment due the Contractor the total amount of the fine(s) levied on the District, plus legal and associated costs.
- d. The Contractor shall submit to the District a completed NOI for change of information (Construction Site Information and Material Handling/Management Practices).

GENERAL CONDITIONS

ARTICLE 14 TERMINATION OR SUSPENSION OF THE CONTRACT

14.1 TERMINATION BY THE CONTRACTOR FOR CAUSE

14.1.1 Grounds for Termination

The Contractor may terminate the Contract if the Work is stopped for a period of thirty (30) consecutive days through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, their agents or employees, or any other persons performing portions of the Work for whom the Contractor is contractually responsible, for only the following reasons:

- a. Issuance of an order of a court or other public authority having jurisdiction; or
- b. An act of the United State or California government, such as a declaration of national emergency.

14.1.2 Notice of Termination

If one of the above reasons exists, the Contractor may, upon written notice of seven (7) additional days to the District, terminate the Contract and recover from the District payment for Work executed and for reasonable costs verified by the Architect with respect to materials, equipment, tools, construction equipment, and machinery, including reasonable overhead, profit, and damages.

14.2 TERMINATION BY THE DISTRICT FOR CAUSE

14.2.1 Grounds for Termination

The District may terminate the Contractor and/or this Contract for the following reasons:

- a. Persistently or repeatedly refuses or fails to supply enough properly skilled workers or proper materials;
- b. Persistently or repeatedly is absent, without excuse, from the job site;
- c. Fails to make payment to Subcontractors, suppliers, materialmen, etc.;
- d. Persistently disregards laws, ordinances, rules, regulations, or orders of a public authority having jurisdiction;
- e. Fails to provide a schedule or fails or refuses to update schedules required under the Contract;
- f. Falls behind on the Project and refuses or fails to undertake a Recovery Schedule;
- g. If the Contractor has been debarred from performing Work
- h. Becomes bankrupt or insolvent, including the filing of a general assignment for the benefit of creditors; or

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- i. Otherwise is in substantial breach of a provision of the Contract Documents.

14.2.2 Notification of Termination

When any of the above reasons exist, the District may, without prejudice to any other rights or remedies of the District and after giving the Contractor and the Contractor's Surety written notice of seven (7) days, terminate the Contractor and/or this Contract and may, subject to any prior rights of the Surety:

- a. Take possession of the Project and of all material, equipment, tools, and construction equipment and machinery thereon owned by the Contractor;
- b. Accept assignment of Subcontracts. Contractor acknowledges and agrees that if the District (in its sole and absolute discretion) decides to takeover completion of the Project, the Contractor agrees to immediately assign all subcontracts to the District which the District has chosen to accept;
- c. Complete the Work by any reasonable method the District may deem expedient, including contracting with a replacement contractor or contractors; and,
- d. Agree to accept a takeover and completion arrangement with Surety that is acceptable to the District Board.

14.2.3 Takeover and Completion of Work after Termination for Cause

A Termination for Cause is an urgent matter which requires immediate remediation since Project Work is open and incomplete, the site is subject to vandalism and theft, the Project site is considered a public nuisance, and there is a possibility of injury and deterioration of the Project Work and materials. Thus, the District shall be entitled to enter a takeover contract to either remediate the unfinished condition or complete the Work for this Project.

14.2.4 Payments Withheld

If the District terminates the Contract for one of the reasons stated in Article 14.2.1, the Contractor shall not be entitled to receive further payment until the Work is complete. All costs associated with the termination and completion of the Project shall be the responsibility of the Contractor and/or its Surety.

14.2.5 Payments upon Completion

If the unpaid balance of the Contract Sum exceeds costs of completing the Work, including compensation for professional services and expenses made necessary thereby, such excess shall be paid to the Contractor. If such costs exceed the unpaid balance, the Contractor and its Surety shall pay the difference to the District. The amount to be paid to the Contractor, or District, as the case may be, shall be certified by the Architect upon application. This payment obligation shall survive completion of the Contract.

14.3 TERMINATION OF CONTRACT BY DISTRICT (CONTRACTOR NOT AT FAULT)

14.3.1 Termination for Convenience

GENERAL CONDITIONS

District may terminate the Contract upon fifteen (15) calendar days of written notice to the Contractor and use any reasonable method the District deems expedient to complete the Project, including contracting with replacement contractor or contractors, if it is found that reasons beyond the control of either the District or Contractor make it impossible or against the District's interest to complete the Project. In such a case, the Contractor shall have no Claims against the District except for: (1) the actual cost for approved labor, materials, and services performed in accordance with the Contract Documents which have not otherwise been previously paid for and which are supported and documented through timesheets, invoices, receipts, or otherwise; and (2) profit and overhead of ten percent (10%) of the approved costs in item (1); and (3) termination cost of five percent (5%) of the approved costs in item (1). Contractor acknowledges and agrees that if the District (in its sole and absolute discretion) decides to takeover completion of the Project, the Contractor agrees to immediately assign all subcontracts to the District which the District has chosen to accept.

14.3.2 Non-Appropriation of Funds/ Insufficient Funds

In the event that sufficient funds are not appropriated to complete the Project or the District determines that sufficient funds are not available to complete the Project, District may terminate or suspend the completion of the Project at any time by giving written notice to the Contractor. In the event that the District exercises this option, the District shall pay for any and all work and materials completed or delivered onto the site for which value is received, and the value of any and all work then in progress and orders actually placed which cannot be canceled up to the date of notice of termination. The value of work and materials not otherwise already paid for by the District up to the time of termination under this Paragraph shall include a factor of fifteen percent (15%) for the Contractor's overhead and profit and there shall be no other costs or expenses paid to Contractor. All work, materials and orders paid for pursuant to this provision shall become the property of the District. District may, without cause, order Contractor in writing to suspend, delay or interrupt the Project in whole or in part for such period of time as District may determine. Adjustment shall be made for increases in the cost of performance of the Agreement caused by suspense, delay or interruption.

14.4 REMEDIES OTHER THAN TERMINATION

If a default occurs, the District may, without prejudice to any other right or remedy, including, without limitation, its right to terminate the Contract pursuant to Article 14.2, do any of the following:

- a. Permit the Contractor to continue under this Contract, but make good such deficiencies or complete the Contract by whatever method the District may deem expedient, and the cost and expense thereof shall be deducted from the Contract Price or paid by the Contractor to the District on demand;
- b. If the workmanship performed by the Contractor is faulty or defective materials are provided, erected or installed, then the District may order the Contractor to remove the faulty workmanship or defective materials and to replace the same with work or materials that conform to the Contract Documents, in which event the Contractor, at its sole costs and expense, shall proceed in accordance with the District's order and complete the same within the time period given by the District in its notice to the Contractor; or
- c. Initiate procedures to declare the Contractor a non-responsible bidder for a period of two (2) to five (5) years thereafter.

GENERAL CONDITIONS

All amounts expended by the District in connection with the exercise of its rights hereunder shall accrue interest from the date expended until paid to the District at the maximum legal rate. The District may retain or withhold any such amounts from the Contract Price. If the Contractor is ordered to replace any faulty workmanship or defective materials pursuant to Paragraph (b) above, the Contractor shall replace the same with new work or materials approved by the Architect and the District, and, at its own cost, shall repair or replace, in a manner and to the extent the Architect and the District shall direct, all Work or material that is damaged, injured or destroyed by the removal of said faulty workmanship or defective material, or by the replacement of the same with acceptable work or materials. In no event shall anything in this Article be deemed to constitute a waiver by the District of any other rights or remedies that it may have at law or in equity, it being acknowledged and agreed by the Contractor that the remedies set forth in this Article are in addition to, and not in lieu of, any other rights or remedies that the District may have at law or in equity.

GENERAL CONDITIONS

ARTICLE 15 DEBARMENT

15.1 DEBARMENT MEANS THERE HAS BEEN A FINDING THAT THE CONTRACTOR IS NOT RESPONSIBLE.

During the course of the Project, or if it is determined through Change Orders, Claims, or Audit that a Contractor is not responsible, the District may, in addition to other remedies provided in the Contract, debar the Contractor from bidding or proposing on, or being awarded, and/or performing work on District contracts for a specified period of time, which generally will not exceed five (5) years, but may exceed five (5) years or be permanent if the circumstances warrant such debarment. In addition to the debarment proceeding, a finding that a Contractor is to be debarred shall result in the termination of any or all existing Contracts the Contractor may have with the District.

15.2 BOARD FINDING

The District may debar a Contractor if the Board, or the Board's delegate, in its discretion, finds the Contractor has done any of the following:

15.2.1 Intentionally or with reckless disregard, violated any term of the Contract with the District

15.2.2 Committed an acts or omission which reflects on the Contractor's quality, fitness or capacity to perform Work for the District;

15.2.3 Committed an act or offense which indicates a lack of business integrity or business honesty; or,

15.2.4 Made or submitted a false claim against the District or any other public entity.

15.3 HEARING AND PRESENTATION OF EVIDENCE

If there is evidence that the Contractor may be subject to debarment, the District shall notify the Contractor in writing of the evidence which is the basis for the proposed debarment and shall advise the Contractor of the scheduled date for a debarment hearing before the District Board or its delegated designee.

The District Board, or designee, shall conduct a hearing where evidence on the proposed debarment is presented. The Contractor or the Contractor's representative shall be given an opportunity to submit evidence at the hearing. The Contractor shall be provided an adequate amount of time to prepare and object to evidence presented. A tentative proposed decision shall be issued as a tentative decision and the District shall be entitled to modify, deny or adopt the proposed decision. The proposed decision shall contain a recommendation regarding whether the Contractor should be debarred, and, if so, the appropriate length of time of the debarment. The Contractor and the District shall be provided an opportunity to object to the tentative proposed decision for a period of 15 days. If additional evidence is presented, the District shall evaluate this evidence and either issue an amended ruling, issue the same ruling, or call a further hearing.

If a Contractor has been debarred for a period of longer than five (5) years, that Contractor may after the debarment has been in effect for at least five (5) years, submit a written request for review of the debarment determination to reduce the period of debarment or terminate the debarment. The District may,

GENERAL CONDITIONS

in its discretion, reduce the period of debarment or terminate the debarment if it finds that the Contractor has adequately demonstrated one or more of the following: (1) elimination of the grounds for which the debarment was imposed; (2) a bona fide change in ownership or management; (3) material evidence discovered after debarment was imposed; or (4) any other reason that is in the best interests of the District.

The District will consider a request for review of a debarment determination only where: (1) the Contractor has been debarred for a period longer than five (5) years; (2) the debarment has been in effect for at least five (5) years; and (3) the request is in writing, states one or more of the grounds for reduction of the debarment period or termination of the debarment, and includes supporting documentation. Upon receiving an appropriate request, the District will provide notice of the hearing on the request. At the hearing, the District shall review evidence on the proposed reduction of debarment period. This hearing shall be conducted and the request for review decided by the District pursuant to the same procedures as for a debarment hearing.

The District's proposed decision shall contain a recommendation on the request to reduce the period of debarment or terminate the debarment.

The terms shall also apply to Subcontractors of Contractor.

SUPPLEMENTARY GENERAL CONDITIONS

The following supplements modify the General Conditions. Where a portion of the General Conditions is modified and or deleted by these Supplementary Conditions, the unaltered portions of the General Conditions shall remain in effect.

SUPPLEMENTARY GENERAL CONDITIONS

Division 1 Forms

IMMEDIATE CONSTRUCTION CHANGE DIRECTIVE NO.

PROJECT: _____

TO: _____

You are hereby directed to provide the extra work necessary to comply with this ICD.

DESCRIPTION OF CHANGE: _____

COST (This cost shall not be exceeded): _____

TIME FOR COMPLETION: _____

NOTE:

Pursuant to Article 7.3.1.2 An Immediate Change Directive is a written order to the Contractor prepared by the Architect and signed by the District (and CM if there is a CM on the Project) and the Architect, directing a change in the Work and stating a proposed basis for adjustment, if any, in the Contract Sum or Contract Time, or both. The District may by ICD, without invalidating the Contract, direct immediate changes in the Work within the general scope of the Contract consisting of additions, deletions, or other revisions within. If applicable, the Contract Sum and Contract Time will be adjusted accordingly. CONTRACTOR SHALL PROCEED WITH WORK SET FORTH IN THIS ICD IMMEDIATELY UPON RECEIPT OR THE DISTRICT MAY EITHER HOLD THE CONTRACTOR IN EITHER PARTIAL DEFAULT PURSUANT TO ARTICLE 2.2 OR TOTAL DEFAULT PURSUANT TO ARTICLE 14.

Architect

District

SUPPLEMENTARY GENERAL CONDITIONS

CERTIFICATE OF SUBSTANTIAL COMPLETION

PROJECT: _____

TO: _____

As the Architect for the Project described above, the Project has reached Substantial Completion. Substantial Completion is not reached unless and until each of the following three (3) conditions have been met: (1) all contractually required items have been installed with the exception of only minor and Incomplete Punch Items (See Article 9.9 of the General Conditions); (2) All Fire/Life Safety Systems have been installed, and are working and signed off on the DSA Form 152 Inspection Card, all building systems including mechanical, electrical and plumbing are all functioning; and (3) the Project is fit for occupancy and its intended use

I certify that the Project has reached Substantial Completion as defined above on the following date:
_____.

Architect

SECTION 011100
SUMMARY OF WORK

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes:

1. Project information.
2. Work covered by Contract Documents.
3. Access to site.
4. Coordination with occupants.
5. Work restrictions.
6. Specification and drawing conventions.

- B. Related Sections:

1. Division 01 Section "Temporary Facilities and Controls" for limitations and procedures governing temporary use of Owner's facilities.

1.3 PROJECT INFORMATION

- A. Project Identification:

Selma HS | Pool Modernization
3125 Wright St.
Selma, CA

Architect's Project Number: **23-12828**

- B. Owner:

Selma Unified School District
3036 Thompson Ave.
Selma, CA

Telephone: **559 898 6500**
Contact: **Edward Gomes**

- C. Architect:

TETER, LLP
7535 North Palm Avenue, Suite 201
Fresno, California 93711

Telephone 559.437.0887
Contact: **Tony Pavone**

1.4 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Work of the Project is defined by the Contract Documents and consists of the following:
 - 1. This Project consist of modernizations to pool and pool equipment building indicated in the drawings. The work also includes improvements to student and staff toilet rooms, and associated site accessibility improvements.
- B. Type of Contract: Project will be constructed under a single prime contract.

1.5 ACCESS TO SITE

- A. General: Contractor shall have limited use of Project site for construction operations as indicated on Drawings by the Contract limits and as indicated by requirements of this Section.
- B. Use of Site: Limit use of Project site to work in areas indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.
 - 1. Driveways, Walkways and Entrances: Keep driveways, loading areas, and entrances serving premises clear and available to Owner, Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials.
 - a. Schedule deliveries to minimize use of driveways and entrances by construction operations.
 - b. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.
- C. Condition of Existing Building: Maintain portions of existing building affected by construction operations in a weathertight condition throughout construction period. Repair damage caused by construction operations.

1.6 COORDINATION WITH OCCUPANTS

- A. Full Owner Occupancy: Owner will occupy site and existing adjacent building(s) during entire construction period. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's day-to-day operations. Maintain existing exits unless otherwise indicated.

1. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from Owner and approval of authorities having jurisdiction.
 2. Notify the Owner not less than 72 hours in advance of activities that will affect Owner's operations.
- B. Owner Limited Occupancy of Completed Areas of Construction: Owner reserves the right to occupy and to place and install equipment in completed portions of the Work, prior to Substantial Completion of the Work, provided such occupancy does not interfere with completion of the Work. Such placement of equipment and limited occupancy shall not constitute acceptance of the total Work.
1. Architect will prepare a Certificate of Substantial Completion for each specific portion of the Work to be occupied prior to Owner acceptance of the completed Work.
 2. Obtain a Certificate of Occupancy from authorities having jurisdiction before limited Owner occupancy.
 3. Before limited Owner occupancy, mechanical and electrical systems shall be fully operational, and required tests and inspections shall be successfully completed. On occupancy, Owner will operate and maintain mechanical and electrical systems serving occupied portions of Work.
 4. On occupancy, Owner will assume responsibility for maintenance and custodial service for occupied portions of Work.

1.7 WORK RESTRICTIONS

- A. Work Restrictions, General: Comply with restrictions on construction operations.
1. Comply with limitations on use of public streets and other requirements of authorities having jurisdiction.
- B. On-Site Work Hours: Limit work in the existing building to normal business working hours of 7:00 a.m. to 5:00 p.m., Monday through Friday, except as otherwise indicated.
1. Submit a written request to the Architect for work hours outside of the indicted on-site hours; request subject to review by the Owner.
- C. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after providing temporary utility services according to requirements indicated:
1. Notify Architect and Owner not less than 2 days in advance of proposed utility interruptions.
 2. Obtain Architect's and Owner's written permission before proceeding with utility interruptions.
- D. Noise, Vibration, and Odors: Coordinate operations that may result in high levels of noise and vibration, odors, or other disruption to Owner occupancy with Owner.

1. Notify Architect and Owner not less than 2 days in advance of proposed disruptive operations.
 2. Obtain Architect's and Owner's written permission before proceeding with disruptive operations.
- E. Controlled Substances: Use of tobacco products and other controlled substances on Project site is not permitted.

1.8 SPECIFICATION AND DRAWING CONVENTIONS

- A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
 2. Specification requirements are to be performed with by Contractor unless specifically stated otherwise.
- B. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.
- C. Drawing Coordination: Requirements for materials and products identified on Drawings are described in detail in the Specifications. One or more of the following are used on Drawings to identify materials and products:
1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.
 2. Abbreviations: Materials and products are identified by abbreviations scheduled on Drawings.
 3. Keynoting: Materials and products are identified by reference keynotes.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 011103
ADDENDA

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative requirements for Addenda issued prior to bid opening.
- B. Related Requirements:
 - 1. Division 00 Sections as applicable to contract requirements and modifications.
 - 2. Division 01 Section "Substitution Procedures" for administrative procedures for handling requests for substitutions made after the Contract award.
 - 3. Division 01 Section "Contract Modification Procedures" for changes to the Contract Documents after award of the Contract.

1.3 NOTICE TO BIDDERS

- A. Addenda will be issued to registered plan holders for changes to the drawings and specifications during the bidding period prior to the bid opening. Addenda shall serve to clarify, revise, and supersede information in the Project Manual, Drawings, and previously issued Addenda. Portions of the Addenda affecting the Contract Documents will be incorporated into the Contract by enumeration of the Addendum in the Owner/Contractor Agreement.
- B. The Bidder shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form.

1.4 GOVERNING AGENCY REVIEW AND APPROVAL

- A. Addenda shall be submitted to the Authority having Jurisdiction (AHJ) by the project Architect and shall be approved by the AHJ in order to be officially incorporated into the construction documents.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 011105
USE OF ARCHITECT'S ELECTRONIC FILES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes Administrative and procedural requirements for use of Architect's electronic Contract Document drawing files.
- B. Related Sections:
 - 1. Division 01 Section "Project Management and Coordination."
 - 2. Division 01 Section "Submittal Procedures."
 - 3. Division 01 Section "Project Record Drawings."

1.3 USE OF ARCHITECT'S ELECTRONIC FILES

- A. Architect may make available to Contractor digital data files of Architect's Drawings for use in preparing shop drawings, coordination drawings, and project record drawings.
 - 1. Electronic files will be available without charge.
 - 2. Architect makes no representations as to the accuracy or completeness of digital data files as they relate to Drawings.
 - 3. Files will be supplied digitally via email or FTP site and will be in PDF, DWG, or similar common format.
 - 4. Waiver of Liability: Contractor, Subcontractors, and Suppliers of this Project shall each execute a waiver of liability for each use of the Architects electronic files.
 - a. Waiver of Liability form shall be submitted to the Architect at the time or request for use of Architect's electronic data files.
 - b. Waiver of Liability form shall be the "ELECTRONIC DATA FILE DISTRIBUTION WAIVER OF LIABILITY FORM" included at the end of this Specification Section.
 - c. The use of the electronic files shall only be used for this Project and for the identified purposes noted in the Waiver of Liability form.
 - 1) Each entity shall be responsible for complying with the restrictions of the Liability Waiver form.
 - 2) Electronic Contract Document drawing files received from the architect shall not be duplicated without written permission of the Architect.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

(Electronic Data File Distribution Waiver of Liability included on the following page)



TETER
ARCHITECTS ENGINEERS CONNECTED

ELECTRONIC DATA FILE DISTRIBUTION WAIVER OF LIABILITY

TETER, INC
7535 North Palm, Suite 201
Fresno, California 93711

Project: _____

Intended Use: _____

Any electronic data, files or information provided under this Agreement are the property of the above listed Professionals and consultants (Team). It is understood and agreed that the information contained in these electronic data file shall not be copied or duplicated for any use other than the project for which they were created. It is understood by the undersigned that compatibility of this electronic media with other systems is not guaranteed, and conversion to other systems is done at the user's own risk.

The user hereby agrees and recognizes that designs, plans and data stored on electronic media including, but not limited to, computer disk and magnetic tape, may be subject to undetectable alteration and/or uncontrollable deterioration. It is agreed by the undersigned that the Team shall not be liable for the completeness or accuracy of any material provided on electronic media.

The undersigned agrees to defend, hold harmless and indemnify the Team and its officers, directors, employees, agents and consultants for any and all claims, losses, costs or damage whatsoever arising out of, resulting from, or in any way related to the use of electronic data files provided hereunder, whether that use is authorized or unauthorized. The user further agrees to defend, indemnify and hold harmless the Team its officers, directors, employees, agents and consultants from any and all claims, damages, losses, expenses and injuries arising out of the modification of the electronic data files by the user or by anyone obtaining said files through or from the user.

The Team bears no responsibility for the information in the electronic data files once it leaves the offices of **TETER, INC.** The undersigned understands that the electronic data files are subject to applicable copyright laws of the United States and agrees to be bound by same. Upon our receipt of this agreement duly executed by an Officer of your firm you may request the Data files.

Name (Print/Sign): _____ Date: _____

Firm: _____

Phone and email: _____

Name (Print/Sign): _____ Date: _____

Firm: _____

Phone and email: _____

Name (Print/Sign): _____ Date: _____

Firm: _____

Phone and email: _____

SECTION 012113
CONTINGENCY ALLOWANCES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements governing contingency allowances.
- B. Related Requirements:
 - 1. Division 01 Section "Contract Modification Procedures" for procedures for submitting and handling Proposal Requests and Change Orders.

1.3 CONTINGENCY ALLOWANCES

- A. Contingency Allowance: A dollar amount included in the Contract Sum, for use at the Owner's discretion for Owner's purposes, and only by Change Order that indicates the amount to be charged to the allowance.
- B. Change Orders authorizing use of funds from the contingency allowance will include Contractor's related costs and reasonable overhead and profit.
- C. At Project closeout, credit unused amounts remaining in the contingency allowance to Owner by Change Order.
- D. Lump Sum Contingency Allowance: Include a contingency allowance of \$100,000 for use according to Owner's written instructions.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used).

END OF SECTION

SECTION 012500
SUBSTITUTION PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for substitutions.
- B. Related Sections:
 - 1. Division 00 Section "Instructions to Bidders" and other Division 00 Sections as applicable to substitution requests prior to submission of bids.
 - 2. Division 01 Section "DSA Hourly Fee Services" for DSA hourly fee services for review of changes to DSA approved Construction Documents.
 - 3. Division 01 Section "Contract Modification Procedures" for changes to DSA approved Construction Documents."
 - 4. Division 01 Section "Product Requirements" for requirements for submitting comparable product submittals for products by listed manufacturers.
 - 5. Divisions 02 through 33 Sections for specific requirements and limitations for substitutions.

1.3 DEFINITIONS

- A. Substitutions: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents.
 - 1. Substitutions for Cause: Changes proposed by Contractor that are required due to changed Project conditions, such as unavailability of product, regulatory changes, or unavailability of required warranty terms.
 - 2. Substitutions for Convenience: Changes proposed by Contractor that are not required in order to meet other Project requirements but may offer advantage to the Owner.

1.4 REGULATORY REQUIREMENTS

- A. Division of the State Architect (DSA) Review and Approval: Substitutions resulting in changes to DSA approved Construction Documents may be considered a change requiring DSA review and approval and submission of a DSA Construction Change Document (CCD) form by the Architect.
 - 1. DSA Construction Change Documents shall be as specified in Division 01 Section "Contract Modification Procedures."
 - 2. DSA Hourly Fee Services for review of CCD's shall be as specified in Division 01 Section "DSA Hourly Fee Services."

1.5 SUBMITTALS

- A. Substitution Requests: Submit documentation identifying product or fabrication or installation method to be replaced. Include Specification Section number and title, and Drawing numbers and titles.
 - 1. Substitution Request Form: Use form provided at the end of this Section.
 - 2. Documentation: Show compliance with requirements for substitutions and the following, as applicable:
 - a. Statement indicating why specified product or fabrication or installation cannot be provided, if applicable.
 - b. Coordination information, including a list of changes or modifications needed to other parts of the Work and to construction performed by Owner and separate contractors that will be necessary to accommodate proposed substitution.
 - c. Detailed comparison of significant qualities of proposed substitution with those of the Work specified. Include annotated copy of applicable specification section. Significant qualities may include attributes such as performance, weight, size, durability, visual effect, sustainable design characteristics, warranties, and specific features and requirements indicated. Indicate deviations, if any, from the Work specified.
 - d. Product Data, including drawings and descriptions of products and fabrication and installation procedures.
 - e. Samples, where applicable or requested.
 - f. Certificates and qualification data, where applicable or requested.
 - g. List of similar installations for completed projects with project names and addresses and names and addresses of architects and owners.
 - h. Material test reports from a qualified testing agency indicating and interpreting test results for compliance with requirements indicated.
 - i. Research reports evidencing compliance with building code in effect for Project, from ICC-ES.
 - j. Detailed comparison of Contractor's construction schedule using proposed substitution with products specified for the Work, including effect on the overall Contract Time. If specified product or method of construction cannot be provided within the Contract Time, include letter from

- manufacturer, on manufacturer's letterhead, stating date of receipt of purchase order, lack of availability, or delays in delivery.
- k. Cost information, including a proposal of change, if any, in the Contract Sum.
 - l. Contractor's certification that proposed substitution complies with requirements in the Contract Documents except as indicated in substitution request, is compatible with related materials, and is appropriate for applications indicated.
 - m. Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of failure of proposed substitution to produce indicated results.
3. Architect's Action: If necessary, Architect will request additional information or documentation for evaluation within 7 days of receipt of a request for substitution. Architect will notify Contractor of acceptance or rejection of proposed substitution within 15 days of receipt of request, or 7 days of receipt of additional information or documentation, whichever is later. Architect will not act on any Post-Bid Substitutions until 7 days following the submission of the Schedule of Values per Division 01 Section "Payment Procedures."
- a. Forms of Acceptance:
 - 1) Substitutions Prior to Bid: Addenda will be issued for substitutions accepted prior to bid.
 - 2) Substitutions After Award of Contract: Change Order, Construction Change Directive, or Architect's Supplemental Instructions for minor changes in the Work.
 - b. Use product specified if Architect does not issue a decision on use of a proposed substitution within time allocated.

1.6 QUALITY ASSURANCE

- A. Compatibility of Substitutions: Investigate and document compatibility of proposed substitution with related products and materials. Engage qualified testing agency to perform compatibility tests recommended by manufacturers.

1.7 PROCEDURES

- A. Coordination: Revise or adjust affected work as necessary to integrate work of the approved substitutions.

PART 2 - PRODUCTS

2.1 SUBSTITUTIONS

- A. Substitutions After Award of Contract: The Contractor after award of the Contract, as allowed by the General Conditions, may submit materials and methods to be considered for substitutions.
1. The following are not considered to be substitutions:
 - a. Revisions to the Contract Documents requested by the Owner or Architect.
 - b. Specified options of products and construction methods included in the Contract Documents.
 - c. The Contractor's compliance with governing regulations and orders issued by governing authorities.
- B. Substitutions for Cause: Submit requests for substitution immediately upon discovery of need for change, but not later than 21 days prior to time required for preparation and review of related submittals.
1. Conditions: Architect will consider Contractor's request for substitution when the following conditions are satisfied. If the following conditions are not satisfied, Architect will return requests without action, except to record noncompliance with these requirements:
 - a. Requested substitution is consistent with the Contract Documents and will produce indicated results.
 - b. Substitution request is fully documented and properly submitted.
 - c. Requested substitution will not adversely affect Contractor's construction schedule.
 - d. Requested substitution has received necessary approvals of authorities having jurisdiction.
 - e. Requested substitution is compatible with other portions of the Work.
 - f. Requested substitution has been coordinated with other portions of the Work.
 - g. Requested substitution provides specified warranty.
 - h. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.
- C. Substitutions for Convenience: Architect will consider requests for substitution if received within 60 days after the Notice to Proceed. Requests received after that time may be considered or rejected at discretion of Architect.
1. Conditions: Architect will consider Contractor's request for substitution when the following conditions are satisfied. If the following conditions are not satisfied, Architect will return requests without action, except to record noncompliance with these requirements:

- a. Requested substitution offers Owner a substantial advantage in cost, time, energy conservation, or other considerations, after deducting additional responsibilities Owner must assume. Owner's additional responsibilities may include compensation to Architect for redesign and evaluation services, increased cost of other construction by Owner, and similar considerations.
- b. Requested substitution does not require extensive revisions to the Contract Documents.
- c. Requested substitution is consistent with the Contract Documents and will produce indicated results.
- d. Substitution request is fully documented and properly submitted.
- e. Requested substitution will not adversely affect Contractor's construction schedule.
- f. Requested substitution has received necessary approvals of authorities having jurisdiction.
- g. Requested substitution is compatible with other portions of the Work.
- h. Requested substitution has been coordinated with other portions of the Work.
- i. Requested substitution provides specified warranty.
- j. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.

PART 3 - EXECUTION (Not Used)

END OF SECTION

(Substitution Request Form included on the following page)



TETER, LLP

ARCHITECTS ENGINEERS CONNECTED

SUBSTITUTION REQUEST FORM

FOR: Eric White ES | Toilet room Modernization

We hereby submit for your consideration the following product instead of the specified item for the above project:

SECTION	PARAGRAPH	SPECIFIED ITEM
_____	_____	_____

Proposed Substitution: _____

Attach complete technical data, including laboratory tests, if applicable.

Include complete information on changes to Drawings and/or Specifications which proposed substitution will require for its proposed installation.

Fill in the blanks below:

A. Does the substitution affect dimension on Drawings:

B. Will the undersigned pay for changes to the building design, including engineering and detailing costs caused by the requested substitution?

C. What affect does substitution have on other trades?

D. Difference between proposed substitution and specified item?

E. Manufacturer's guarantees of the proposed and specified items are:

_____ Same _____ Different (explain on attachment)

F. Cost difference between proposed substitution and specified item - savings to Owner?

The undersigned states that the function, appearance and quality are equivalent or superior to the specified item and will be at no additional cost to the Owner.

Submitted to the Architect by:

Signature: _____

Firm: _____

Address: _____

Date: _____

Telephone: _____

Remarks: _____

For Use by Design Consultant

Accepted _____

Accepted as Noted _____

Not Accepted _____

Received Too Late _____

By: _____

Date: _____

SECTION 012600
CONTRACT MODIFICATION PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.
- B. Division of the State Architect (DSA) Interpretation of Regulations IR A-6 "Construction Change Document Submittal and Approval Process," latest edition (This document is available on DSA's website).

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for handling and processing Contract modifications including the following:
 - 1. Governing Agency requirements.
 - 2. Architect's Supplemental Instructions.
 - 3. Architect's Change Directive.
 - 4. Proposal Requests.
 - 5. Change Orders.
- B. Related Requirements:
 - 1. Division 00 Sections as applicable to contract requirements and modifications.
 - 2. Division 01 Section "Substitution Procedures" for administrative procedures for handling requests for substitutions made after the Contract award.
 - 3. Division 01 Section "DSA Hourly Fee Services" for fees charged by DSA for changes to the Construction Documents.

1.3 DEFINITIONS

- A. Contract Modification: A change to the Contract Agreement between the Owner and the Contractor affecting the Contract Documents, the Contract Time, and/or the Contract Amount.
- B. Change Order (CO): A document defining Contract Modifications. Change Orders shall be issued by the Architect and shall be signed by the Architect, Owner, and Contractor.
- C. Construction Change Document (CCD): A form required by DSA for documentation of changes to the DSA approved Construction Documents.

- D. Architect's Change Directive (ACD): A form utilized by the Architect directing the Contractor to proceed with a change that may or may not require DSA approval.
- E. Architect's Supplemental Instruction (ASI): For minor changes in the Work not involving adjustment to the Contract Sum or the Contract Time, the Architect will issue Architect's Supplemental Instructions authorizing such changes.

1.4 CHANGES TO GOVERNING AGENCY APPROVED CONSTRUCTION DOCUMENTS

- A. Governing Agency Review and Approval: Changes to the Construction Documents are subject to review and approval by the authorities having jurisdiction.

1.5 CHANGES TO DSA APPROVED CONSTRUCTION DOCUMENTS

- A. Division of the State Architect: For projects under the jurisdiction of the Division of the State Architect (DSA), Changes to the Construction Documents shall be reviewed and approved by DSA. Changes to the Construction Documents shall be submitted to DSA by the Architect, submittals for changes shall include DSA Form 140 "Application for Submittal of Post-Approval Document."
- B. DSA Hourly Fee Services: Changes to DSA approved Construction Documents shall be reviewed by DSA and shall be subject to DSA Hourly Fee Services. Charges will be made to the Owner by DSA.
 - 1. Where changes to DSA approved Construction Documents are the result of actions by the Contractor, the Contractor shall be liable for DSA Hourly Fee Services as described in Division 01 Section "DSA Hourly Fee Services."

1.6 ARCHITECT'S SUPPLEMENTAL INSTRUCTION

- A. Architect's Supplemental Instruction (ASI): For minor changes in the Work not involving adjustment to the Contract Sum or the Contract Time, the Architect will issue Architect's Supplemental Instructions authorizing such changes.
 - 1. Architect's Supplemental Instructions affecting changes to the Construction Documents shall be subject to governing agency review and approval, and shall be accompanied by appropriate DSA CCD documentation.
 - 2. Contractor's Response:
 - a. Contractor shall perform the work indicated in the Architect's Supplemental Instruction without adjustment to the Contract Sum or the Contract Time.
 - b. If the Contractor determines that an adjustment to the Contract Sum or the Contract Time is necessary due to the Architect's Supplemental Instruction, the Contractor shall respond to the Architect's Supplemental Instruction as if it were an Architect/Owner initiated Proposal Request.

1.7 ARCHITECT'S CHANGE DIRECTIVE

- A. Architect's Change Directive (ACD): Architect may issue an Architect's Change Directive on Architect's standard form to instruct Contractor to proceed with a change in the Work for subsequent inclusion in a Change Order.
 - 1. Architect's Change Directive contains a complete description of change in the Work. It also designates method to be followed to determine change in the Contract Sum or the Contract Time.
 - 2. Architect's Change Directives affecting structural, fire/life safety, and/or access compliance shall be accompanied by appropriate approved DSA CCD documentation.
 - 3. Architect's Change Directive shall be issued by the Architect and shall be signed by the Architect.
- B. Documentation by Contractor: Maintain detailed records on a time and material basis of work required by the Architect's Change Directive.
 - 1. After completion of change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.

1.8 PROPOSAL REQUESTS

- A. General: Proposal Requests allow the Contractor to respond to proposed changes in the Work that involve an adjustment to the Contract Sum or the Contract Time. Proposal Requests are not instructions to stop work in progress or execute proposed changes. Upon Owner's approval of a Proposal Request, Architect will issue a Change Order instructing the Contractor to proceed with the proposed changes (Refer to Part 1 Article "Change Order Procedures").
- B. Architect/Owner-Initiated Proposal Requests: Architect will issue a detailed description of proposed changes in the Work that may require adjustment to the Contract Sum or the Contract Time. If necessary, the description will include supplemental or revised Drawings and Specifications.
 - 1. Contractor's Response: Within time specified in Proposal Request, or not more than 7 days after receipt of Proposal Request when not otherwise specified, submit a quotation estimating cost adjustments to the Contract Sum and the Contract Time necessary to execute the change.
 - a. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
 - b. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
 - c. Include costs of labor and supervision directly attributable to the change.
 - d. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.

- e. Quotation Form: Use forms acceptable to Architect.
- C. Contractor-Initiated Proposals: If conditions require modifications to the Contract, Contractor may initiate a claim by submitting a request for a change to Architect. Architect will not act on any Contractor Initiated Proposals until 7 days following the submission of the Schedule of Values per Division 01 Section "Payment Procedures."
- 1. Include a statement outlining reasons for the change and the effect of the change on the Work. Provide a complete description of the proposed change. Indicate the effect of the proposed change on the Contract Sum and the Contract Time.
 - 2. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
 - 3. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
 - 4. Include costs of labor and supervision directly attributable to the change.
 - 5. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.
 - 6. Comply with requirements in Division 01 Section "Substitution Procedures" if the proposed change requires substitution of one product or system for product or system specified.
 - 7. Proposal Request Form: Use form acceptable to Architect.
- D. Architect's Response: Within 7 days after receipt of Contractor's response to Architect/Owner initiated Proposal Request or Contractor's Proposal, Architect will:
- 1. Issue a Change Order for accepted proposals.
 - 2. Notify the Contractor of unaccepted proposals.
 - 3. Issue an Architect's Change Directive where changes are necessary for the progress of the Work and changes to the Contract Sum and the Contract Time are in dispute.

1.9 ADMINISTRATIVE CHANGE ORDERS

- A. Allowance Adjustment: See Division 01 Section "Allowances" (if applicable) for administrative procedures for preparation of Change Order Proposal for adjusting the Contract Sum to reflect actual costs of allowances.

1.10 CHANGE ORDER PROCEDURES

- A. On Owner's approval of a Proposal Request, Architect will issue a Change Order for signatures of Owner and Contractor on form provided by Architect.
 - 1. Change Orders affecting changes to the Construction Documents shall be subject to governing agency review and approval, and shall be accompanied by appropriate DSA CCD documentation.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 012605
DSA HOURLY FEE SERVICES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.
- B. Division of the State Architect (DSA) Interpretive Regulation IR A-30 "DSA Hourly Fee Services" latest edition (Document is available on DSA's website under "Publications;" Interpretive Regulations (IRs); A- Administrative; IR-30).

<https://www.dgs.ca.gov/dsa/>

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for DSA Hourly Fee Services associated with changes to DSA approved Construction Documents.
- B. Related Requirements:
 - 1. Division 00 Sections as applicable to contract requirements and modifications.
 - 2. Division 01 Section "Addenda."
 - 3. Division 01 Section "Substitution Procedures."
 - 4. Division 01 Section "Contract Modification Procedures."
 - 5. Division 01 Section "Payment Procedures."
 - 6. Division 01 Section "Submittal Procedures."
 - 7. Division 01 Section "Product Requirements."

1.3 DSA HOURLY FEE SERVICES

- A. General: Changes to DSA approved Construction Documents shall be documented by the use of DSA Construction Change Document (CCD) forms. CCD forms shall be submitted to DSA by the Architect.
 - 1. Refer to Division 01 Section "Contract Modification Procedures" for additional information regarding DSA CCD's.
- B. DSA Hourly Fee Services: Changes to DSA approved Construction Documents shall be reviewed by DSA and shall be subject to DSA Hourly Fee Services for review at a rate established by DSA IR A-30. Charges will be made to the Owner by DSA.
 - 1. Hourly Rate: Rate per hour as established by DSA IR A-30, latest edition.

- C. Bidder's Responsibility: Prior to bidding, where a bidder's request for substitution or similar action results in a change requiring DSA Hourly Fee Services, bidder shall submit a deposit to the Architect for reimbursement for DSA Hourly Fee Services. The deposit amount shall be established by the Architect, a minimum of one hour of DSA Hourly Fee Services (hourly rate as established by DSA IR A-30) will not be refundable. Deposits shall be made payable to the Owner.
- D. Contractor's Responsibility: When a contractor's action results in a change requiring DSA Hourly Fee Services, charges by DSA to the Owner will be deducted from the Contract Sum and the Architect will issue a Change Order on a quarterly basis to adjust the Contract Sum.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 012613
REQUEST FOR INFORMATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative provisions for preparation, submittal and response to Contractor's Request for Information (RFI's) during construction of project.

1.3 DEFINITIONS

- A. RFI, Request for Information: Request from Contractor seeking information required by or clarification of the Contract Documents.

1.4 SUBMITTALS

- A. RFI Submittals: Submit RFI's via email as PDF electronic files; include attachments in PDF electronic file format.

1.5 REQUESTS FOR INFORMATION (RFIs)

- A. General: Immediately on discovery of the need for additional information or interpretation of the Contract Documents, Contractor shall prepare and submit an RFI in the form specified.
 - 1. Architect will return without response those RFIs submitted to Architect by other entities controlled by Contractor.
 - 2. Coordinate and submit RFIs in a prompt manner so as to avoid delays in Contractor's work or work of subcontractors.

- B. Content of the RFI: Include a detailed, legible description of item needing information or interpretation and the following:
1. Project name.
 2. Project number.
 3. Date.
 4. Name of Contractor.
 5. Name of Architect
 6. RFI number, numbered sequentially.
 7. RFI subject.
 8. Specification Section number and title and related paragraphs, as appropriate.
 9. Drawing number and detail references, as appropriate.
 10. Field dimensions and conditions, as appropriate.
 11. Contractor's suggested resolution. If Contractor's solution(s) impacts the Contract Time or the Contract Sum, Contractor shall state impact in the RFI.
 12. Contractor's signature.
 13. Attachments: Include sketches, descriptions, measurements, photos, Product Data, Shop Drawings, coordination drawings, and other information necessary to fully describe items needing interpretation.
 - a. Include dimensions, thicknesses, structural grid references, and details of affected materials, assemblies, and attachments on attached sketches.
- C. RFI Form: Use RFI form included at end of this Section or form acceptable to Architect. Upon request from the Contractor, the form at the end of this section will be made available in WORD format from the Architect.
- D. Architect's Action: Architect will review each RFI, determine action required, and respond.
1. Allow 10 working days for Architect's response for each RFI. RFIs received by Architect after 1:00 p.m. will be considered as received the following working day.
 2. Architect will not act on any RFI's until 7 days following the submission of the Schedule of Values per Division 01 Section "Payment Procedures."
 3. The following RFIs will be returned without action:
 - a. Requests for approval of submittals.
 - b. Requests for approval of substitutions.
 - c. Requests for approval of Contractor's means and methods.
 - d. Requests for coordination information already indicated in the Contract Documents.
 - e. Requests for adjustments in the Contract Time or the Contract Sum.
 - f. Requests for interpretation of Architect's actions on submittals.
 - g. Incomplete RFIs or inaccurately prepared RFIs.
 4. Architect's action may include a request for additional information, in which case Architect's time for response will date from time of receipt of additional information.
 5. Architect's action on RFIs that may result in a change to the Contract Time or the Contract Sum may be eligible for Contractor to submit Change Proposal according to Division 01 Section "Contract Modification Procedures."

- a. If Contractor believes the RFI response warrants change in the Contract Time or the Contract Sum, notify Architect in writing within 10 days of receipt of the RFI response.
6. Distribution: The Architect shall distribute one electronic copy of each completed RFI review to the Contractor and the Owner.
- E. Regulatory Requirements: Architect's responses that modify the Contract Documents affecting Structural Safety, Fire and Life Safety, and/or Access Compliance shall be submitted to the Division of the State Architect for review and approval.
 1. Changes to DSA approved Construction Documents shall be as specified in Division 01 Section "Contract Modification Procedures."
- F. RFI Log: Prepare, maintain, and submit a tabular log of RFIs organized by the sequential RFI number. Submit log weekly unless otherwise directed in writing by Architect. Include the following:
 1. Project name.
 2. Name and address of Contractor.
 3. Name and address of Architect.
 4. RFI number including RFIs that were returned without action or withdrawn.
 5. RFI description.
 6. Date the RFI was submitted.
 7. Date Architect's response was received.
- G. On receipt of Architect's action, update the RFI log and immediately distribute the RFI response to affected parties. Review response and notify Architect within 7 days if Contractor disagrees with response.
- H. Contractor's Expense for RFI's: Architect will review and respond to legitimate RFI's at no additional cost to the Contractor. RFI's determined by the Architect to be flagrant or unnecessary will have the expense for the Architect's time paid by the Owner with the amount being deducted from the Contract Sum. The expense will be based on an hourly rate in accordance with the Architect's standard hourly rate schedule in effect at the time the work is performed with a minimum of one hour for each flagrant or unnecessary RFI.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

(REQUEST FOR INFORMATION form included on the following page)

**TETER**

ARCHITECTS ENGINEERS CONNECTED

REQUEST FOR INFORMATION

Project:

Project Title**TETER Project No.**

123 Street Address

City, State, Zip

Client Project No.

DSA File No.

DSA Appl No.

Date:

Request for Information No. _____

☐ Deviation from Contract Docs☐ Correction of Non-Compliant Work

From:

Name**Company Name**

To:

Name*Title or Department***TETER**

123 Street Address

City, State, Zip

Drawing: _____

Detail No. _____

Specification: _____

Addendum: _____

Respond by:

Priority

(Low) 1 2 3 4 5 (High)

Subject: _____

Information Requested:

Contractor's Recommendation:

Probable Cost Effect: _____ Probable Time Effect: _____

Architect's Response:

Disclaimer

The work shall be carried out in accordance with the above supplemental instructions pursuant the Contract Documents, without change in the Contract Sum or Contract Time. Proceeding with the Work, according to these instructions, indicates your acknowledgement that there will be no change in the Contract Sum or Contract Time. If the Contractor considers that this response requires a change in the Contract Sum or Contract Time, the Contractor shall not proceed with this Work and shall promptly submit an item proposal.

SECTION 012900
PAYMENT PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section specifies administrative and procedural requirements necessary to prepare and process Applications for Payment.
- B. Related Sections:
 - 1. Division 01 Section "Contract Modification Procedures" for administrative procedures for handling changes to the Contract.
 - 2. Division 01 Section "Construction Progress Documentation" for administrative requirements governing the preparation and submittal of the Contractor's construction schedule.
 - 3. Division 01 Section "Submittal Procedures" for administrative requirements governing the preparation and submittal of the submittal schedule.

1.3 DEFINITIONS

- A. Schedule of Values: A statement furnished by Contractor allocating portions of the Contract Sum to various portions of the Work and used as the basis for reviewing Contractor's Applications for Payment.

1.4 SCHEDULE OF VALUES

- A. Coordination: Coordinate preparation of the Schedule of Values with preparation of Contractor's construction schedule.
 - 1. Coordinate line items in the schedule of values with other required administrative forms and schedules, including the following:
 - a. Application for Payment forms with continuation sheets.
 - b. Submittal schedule.
 - c. Items required to be indicated as separate activities in Contractor's construction schedule.

2. Submit the Schedule of Values to Architect at earliest possible date but no later than 7 days before the date scheduled for submittal of initial Applications for Payment.
 - a. Architect will not act on any RFI's, Post-Bid Substitutions, and/or changes to the project scope, cost, or schedule until 7 days following the submission of the Schedule of Values.
 3. Subschedules for Phased Work: Where the Work is separated into phases requiring separately phased payments, provide subschedules showing values correlated with each phase of payment.
- B. Format and Content: Use the Project Manual table of contents as a guide to establish line items for the schedule of values. Provide at least one line item for each Specification Section.
1. Identification: Include the following Project identification on the schedule of values:
 - a. Project name and location.
 - b. Name of Architect.
 - c. Architect's project number.
 - d. Contractor's name and address.
 - e. Date of submittal.
 2. Arrange the schedule of values in tabular form with separate columns to indicate the following for each item listed:
 - a. Related Specification Section or Division.
 - b. Description of the Work.
 - c. Name of subcontractor.
 - d. Name of manufacturer or fabricator.
 - e. Name of supplier.
 - f. Change Orders (numbers) that affect value.
 - g. Dollar value of the following, as a percentage of the Contract Sum to nearest one-hundredth percent, adjusted to total 100 percent.
 - 1) Labor.
 - 2) Materials.
 - 3) Equipment.
 3. Provide a breakdown of the Contract Sum in enough detail to facilitate continued evaluation of Applications for Payment and progress reports. Coordinate with the Project Manual table of contents. Provide multiple line items for principal subcontract amounts in excess of 5 percent of Contract Sum.
 - a. Include separate line items under Contractor and principal subcontracts for project closeout requirements in an amount totaling 5 percent of the Contract Sum and subcontract amount.
 4. Round amounts to nearest whole dollar; total shall equal the Contract Sum.

5. Provide a separate line item in the schedule of values for each part of the Work where Applications for Payment may include materials or equipment purchased or fabricated and stored, but not yet installed.
 - a. Differentiate between items stored on-site and items stored off-site. If required, include evidence of insurance.
6. Provide separate line items in the schedule of values for initial cost of materials, for each subsequent stage of completion, and for total installed value of that part of the Work.
7. Each item in the schedule of values and Applications for Payment shall be complete. Include total cost and proportionate share of general overhead and profit for each item.
 - a. Temporary facilities and other major cost items that are not direct cost of actual work-in-place may be shown either as separate line items in the schedule of values or distributed as general overhead expense, at Contractor's option.
8. Schedule Updating: Update and resubmit the schedule of values before the next Applications for Payment when Change Orders or Construction Change Directives result in a change in the Contract Sum.

1.5 APPLICATIONS FOR PAYMENT

- A. Each Application for Payment following the initial Application for Payment shall be consistent with previous applications and payments as certified by Architect and paid for by Owner.
 1. Initial Application for Payment, Application for Payment at time of Substantial Completion, and final Application for Payment involve additional requirements.
- B. Payment Application Times: The date for each progress payment application shall be as indicated in the Agreement between Owner and Contractor. The period of construction work covered by each Application for Payment is the period indicated in the Agreement.
 1. If dates and periods are not indicated in the Agreement between Owner and Contractor at time of bidding, the date for Application for Payment shall be established by the Owner to correspond with the Owner's administrative procedures in order to allow for processing and approval of Application for Payment. The period of construction work covered by each Application for Payment shall be one month.
 2. Submit draft copy of Application for Payment 7 days prior to due date for review by Architect.
- C. Application for Payment Forms: Use forms acceptable to Architect and Owner for Applications for Payment. Submit forms for approval with initial submittal of schedule of values.

- D. Application Preparation: Complete every entry on form. Notarize and execute by a person authorized to sign legal documents on behalf of Contractor. Architect will return incomplete applications without action.
1. Entries shall match data on the schedule of values and Contractor's construction schedule. Use updated schedules if revisions were made.
 2. Include amounts for work completed following previous Application for Payment, whether or not payment has been received. Include only amounts for work completed at time of Application for Payment.
 3. Include amounts of Change Orders and Construction Change Directives issued before last day of construction period covered by application.
 4. Indicate separate amounts for work being carried out under Owner-requested project acceleration.
- E. Stored Materials: Include in Application for Payment amounts applied for materials or equipment purchased or fabricated and stored, but not yet installed. Differentiate between items stored on-site and items stored off-site.
1. Provide certificate of insurance, evidence of transfer of title to Owner, and consent of surety to payment, for stored materials.
 2. Provide supporting documentation that verifies amount requested, such as paid invoices. Match amount requested with amounts indicated on documentation; do not include overhead and profit on stored materials.
 3. Provide summary documentation for stored materials indicating the following:
 - a. Materials previously stored and included in previous Applications for Payment.
 - b. Work completed for this Application utilizing previously stored materials.
 - c. Additional materials stored with this Application.
 - d. Total materials remaining stored, including materials with this Application.
- F. Transmittal: Submit 6 signed and notarized original copies of each Application for Payment to Architect by a method ensuring receipt within 24 hours. One copy shall include waivers of lien and similar attachments if required.
1. Transmit each copy with a transmittal form listing attachments and recording appropriate information about application.
- G. Waivers of Mechanic's Lien: With each Application for Payment, submit waivers of mechanic's liens from subcontractors, sub-subcontractors, and suppliers for construction period covered by the previous application.
1. Submit partial waivers on each item for amount requested in previous application, after deduction for retainage, on each item.
 2. When an application shows completion of an item, submit conditional final or full waivers.
 3. Owner reserves the right to designate which entities involved in the Work must submit waivers.
 4. Submit final Application for Payment with or preceded by conditional final waivers from every entity involved with performance of the Work covered by the application who is lawfully entitled to a lien.

5. Waiver Forms: Submit waivers of lien on forms, executed in a manner acceptable to Owner.
- H. Initial Application for Payment: Administrative actions and submittals that must precede or coincide with submittal of first Application for Payment include the following:
1. List of subcontractors.
 2. Schedule of values.
 3. Contractor's construction schedule (preliminary if not final).
 4. Submittal schedule (preliminary if not final).
 5. List of Contractor's staff assignments.
 6. Copies of authorizations and licenses from authorities having jurisdiction for performance of the Work.
 7. Initial progress report.
 8. Report of preconstruction conference.
- I. Application for Payment at Substantial Completion: After issuance of the Certificate of Substantial Completion, submit an Application for Payment showing 100 percent completion for portions of the Work claimed as substantially complete.
1. Include documentation supporting claim that the Work is substantially complete and a statement showing an accounting of changes to the Contract Sum.
 2. This application shall reflect Certificates of Partial Substantial Completion issued previously for Owner occupancy of designated portions of the Work.
- J. Final Payment Application: After completing Project closeout requirements, submit final Application for Payment with releases and supporting documentation not previously submitted and accepted, including, but not limited, to the following:
1. Evidence of completion of Project closeout requirements.
 2. Updated final statement, accounting for final changes to the Contract Sum.
 3. Evidence that claims have been settled.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 013113
PROJECT MANAGEMENT AND COORDINATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative provisions for coordinating construction operations on Project including, but not limited to, the following:
 - 1. General project coordination procedures.
 - 2. Administrative and supervisory personnel.
 - 3. Coordination drawings.
- B. Related Sections:
 - 1. Division 01 Section "Construction Progress Documentation" for preparing and submitting Contractor's construction schedule.
 - 2. Division 01 Section "Execution" for procedures for coordinating general installation and field-engineering services, including establishment of benchmarks and control points.
 - 3. Division 01 Section "Closeout Procedures" for coordinating closeout of the Contract.

1.3 SUBMITTALS

- A. List of Key Personnel Names: Within 14 calendar days of starting construction operations, submit a list of key personnel assignments, including superintendent and other personnel in attendance at Project site. Identify individuals and their duties and responsibilities; list addresses and telephone numbers, including home, office, and cellular telephone numbers and email addresses. Provide names, addresses, and telephone numbers of individuals assigned as alternates in the absence of individuals assigned to Project.
 - 1. Post copies of list in project meeting room, in temporary field office, and by each temporary telephone. Keep list current at all times.
- B. Coordination Drawings:
 - 1. Initial Submittal: Submit 3 printed copies of each coordination drawing for each condition where Coordination Drawings are required.
 - 2. Project Closeout:

- a. Submit 3 printed "Record" copies of each coordination drawing for each condition where Coordination Drawings are required.
- b. Submit "Record" electronic coordination drawing files.

1.4 COORDINATION PROCEDURES

- A. Coordination: Coordinate construction operations included in different Sections of the Specifications to ensure efficient and orderly installation of each part of the Work. Coordinate construction operations, included in different Sections, that depend on each other for proper installation, connection, and operation.
 - 1. Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation.
 - 2. Coordinate installation of different components to ensure maximum performance and accessibility for required maintenance, service, and repair.
 - 3. Make adequate provisions to accommodate items scheduled for later installation.
- B. Prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as required notices, reports, and list of attendees at meetings.
 - 1. Prepare similar memoranda for Owner and separate contractors if coordination of their Work is required.
- C. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities to avoid conflicts and to ensure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:
 - 1. Preparation of Contractor's construction schedule.
 - 2. Preparation of the schedule of values.
 - 3. Installation and removal of temporary facilities and controls.
 - 4. Delivery and processing of submittals.
 - 5. Progress meetings.
 - 6. Preinstallation conferences.
 - 7. Startup and adjustment of systems.
 - 8. Project closeout activities.
- D. Conservation: Coordinate construction activities to ensure that operations are carried out with consideration given to conservation of energy, water, and materials. Coordinate use of temporary utilities to minimize waste.
 - 1. Salvage materials and equipment involved in performance of, but not actually incorporated into, the Work. Refer to other Sections for disposition of salvaged materials that are designated as Owner's property.

PART 2 - PRODUCTS

2.1 COORDINATION DRAWINGS

- A. Coordination Drawings, General: Prepare coordination drawings in accordance with requirements in individual Sections, where installation is not completely shown on Shop Drawings, where limited space availability necessitates coordination, or if coordination is required to facilitate integration of products and materials fabricated or installed by more than one entity. Coordination Drawings shall include the work of multiple trades on the same drawing. Prepare Coordination Drawings in addition to Shop Drawings required in individual Sections.
1. Content: Project-specific information, drawn accurately to a scale large enough to indicate and resolve conflicts. Do not base coordination drawings on standard printed data. Include the following information, as applicable:
 - a. Use applicable Drawings as a basis for preparation of coordination drawings. Prepare sections, elevations, and details as needed to describe relationship of various systems and components.
 - b. Coordinate the addition of trade-specific information to the coordination drawings by multiple contractors in a sequence that best provides for coordination of the information and resolution of conflicts between installed components before submitting for review.
 - c. Indicate functional and spatial relationships of components of architectural, structural, civil, mechanical, and electrical systems.
 - d. Indicate space requirements for routine maintenance and for anticipated replacement of components during the life of the installation.
 - e. Show location and size of access doors required for access to concealed dampers, valves, and other controls.
 - f. Indicate required installation sequences.
 - g. Indicate dimensions shown on the Drawings. Specifically note dimensions that appear to be in conflict with submitted equipment and minimum clearance requirements. Provide alternate sketches to Architect indicating proposed resolution of such conflicts. Minor dimension changes and difficult installations will not be considered changes to the Contract.
- B. Coordination Drawings, Required: Coordination drawings shall include plans, elevations, sections, and details of the Work for each trade as required to adequately represent the work. Clearly indicate and identify conflicts between components for review by Architect. Provide Coordination Drawings as follows:
1. Overhead Work and Work Above Finished Ceilings: Include subframing for support of ceiling and wall systems, conduit and piping runs, plumbing, mechanical, and electrical equipment, and related Work. Locate components to accommodate layout of light fixtures indicated on Drawings. Show the work of each trade including, but not limited to, pipe runs, mechanical ductwork, cable trays, conduit runs, and bracing and supports.

- a. Indicate locations of all dampers, valves, cleanouts and other devices requiring human access for maintenance and repair. Where access panels are required, show locations and indicate size.
 - b. Show the height above finish floor each item, demonstrating sufficient space for installation and maintenance. Indicate sizes of ducts, piping and similar items.
 - c. Layout of work shall be done in such a manner to avoid conflicts between the work of different trades, finish ceiling heights, soffits, light fixtures or other finish work at ceilings and soffits.
 - d. Should unavoidable conflicts occur that affect finish ceiling and soffit heights, methods of installations, methods of construction or means of accessibility, the contractor shall clearly identify each location for review by the Architect.
- 2. Equipment Rooms and Outdoor Service Yards: Show work above and below grade including mechanical, plumbing, fire protection, fire alarm, and electrical equipment, and related supports, accessories, and utility connections. Include the following information:
 - a. Equipment: Show equipment and locations, utility connections, and working and service clearances.
 - b. Utilities: Show above and below grade utilities; indicate heights and below grade elevations, sizes of piping and conduit, dimensions between utilities and between utilities and other obstructions including concrete footings for other work. Show locations of all shut-off and isolation valves, cleanouts, filters, and other devices requiring human access for maintenance and repair.
 - c. Enclosures: Show limits of enclosure including walls, doors, fences, and gates; confirm door and gate access width for equipment.
 - d. Dimensions: Indicate dimensions as appropriate to insure adequate clearance will be provided for installation, service, and operation of equipment; include horizontal and vertical dimensions between utilities to insure clearance for installation of utilities. Include vertical dimension(s) of equipment and distances to overhead obstructions where applicable.
- 3. Roof Mounted Equipment: Show equipment that will be located on the roof, include the following:
 - a. Equipment locations and horizontal distances between equipment.
 - b. Locations of roof penetrations, sizes of penetrations, and indicate the horizontal distance between penetrations and roof mounted equipment.
 - c. Pipe and conduit runs including locations and type(s) of supports.
 - d. Distance between all roof mounted equipment and roof drainage features. Equipment shall be located so as to not obstruct roof drainage; provide at least 24 inches between equipment platforms and valleys formed by the intersection of roof planes and crickets.
- 4. Underground Site Utilities and Utilities Below Slabs on Grade within Building Areas: Where underground utilities cross other utilities, penetrate footings, underground structures or other obstructions; show the work that will be placed underground; include the following information:

- a. Indicate types and sizes of utility piping and elevations below grade.
 - b. Show footings and other underground structures; where unavoidable conflicts occur between underground structures/footings and utilities, indicate depths below grade and clearly identify locations for sleeving for review by Architect.
- C. Preparation: Prepare coordination drawings electronically using same digital data software program, version, and operating system as the Architect's original Drawings (DWG files).
 - 1. Submittal Format:
 - a. Electronic Format: Submit electronic drawing files using Portable Data File (PDF) format.
 - b. Printed Format: Submit plotted drawings on opaque bond paper not of at least 8.5 inches by 11 inches and not larger than 24 inches by 36 inches.
 - 2. Architect will furnish Contractor digital data files of base drawings as appropriate for use in preparing coordination digital data files.
 - a. Architect makes no representations as to the accuracy or completeness of digital data files as they relate to the Drawings.
 - b. Digital Data Software Program: The Drawings are available in DWG format.
 - c. Contractor shall execute a data licensing agreement in the form of an Agreement form acceptable to the Owner and Architect.
- D. Review: Architect will review coordination drawings to confirm that the Work is being coordinated, but not for the details of the coordination, which are the Contractor's responsibility. If the Architect determines that the coordination drawings are not being prepared in sufficient scope or detail, or are otherwise deficient, the Architect will so inform the Contractor, who shall make changes as directed and resubmit.
- E. Resolution of conflicts occurring in the Work after Coordination Drawings have been prepared shall be the responsibility of the Contractor. Contractor shall bear all costs associated with resolution of conflicts including additional contract time, architectural and engineering services fees, and loss of use to the Owner.

PART 3 - EXECUTION

3.1 GENERAL COORDINATION PROVISIONS

- A. Examination of Conditions: Require the Installer of each major component to examine both the substrate and conditions under which Work is to be performed. Do not proceed until unsatisfactory conditions have been corrected in an acceptable manner.

3.2 CLEANING AND PROTECTION

- A. Clean and protect construction in progress and adjoining materials in place, during handling and installation. Apply protective covering where required to assure protection from damage or deterioration at Substantial Completion.
- B. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period.
- C. Limiting Exposures: Supervise construction operations to assure that no part of the construction, completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period.

END OF SECTION

SECTION 013119
PROJECT MEETINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative provisions for project meetings, including, but not limited to, the following:
 - 1. Preconstruction conferences.
 - 2. Preinstallation conferences.
 - 3. Progress meetings.
 - 4. Project Closeout Conference.
- B. Related requirements include but are not limited to the following:
 - 1. Division 01 Sections as applicable to project management.

1.3 PRECONSTRUCTION CONFERENCE

- A. Preconstruction Conference: Schedule a preconstruction conference before starting construction at the project site, at a time convenient to the Owner, Inspector of Record, and the Architect, but no later than 14 days after execution of the Agreement. Hold the conference at the Project Site or another convenient location. Owner and Architect to conduct the meeting to review responsibilities and personnel assignments.
- B. Attendees: Authorized representatives of the Owner, Architect, and their consultants; the Contractor and its superintendent shall attend the conference. Major subcontractors and other concerned parties shall be invited to attend the conference, but attendance is not mandatory. Participants at the conference shall be familiar with the Project and authorized to conclude matters relating to the Work.
- C. Agenda: Discuss items of significance that could affect progress, including but not limited to the following:
 - 1. Tentative construction schedule.
 - 2. Critical work sequencing and long-lead items.
 - 3. Designation of key personnel and their duties.
 - 4. Lines of communication.
 - 5. Procedures for processing field decisions and Change Orders.
 - 6. Procedures for processing Applications for Payment.

7. Procedures for RFI's.
8. Procedures for testing and inspection.
9. Submittal procedures.
10. Sustainability requirements including construction waste management and disposal.
11. Preparation of record documents.
12. Use of the premises.
13. Work restrictions and working hours.
14. Temporary facilities and controls.
15. Parking availability.
16. Office, work, and storage areas.
17. Equipment deliveries and priorities.
18. Safety procedures and first aid.
19. Security.
20. Housekeeping.
21. Owner's alcohol, drug and tobacco policy.

- D. Minutes: Contractor shall record significant discussions and agreements achieved. Distribute the meeting minutes to everyone concerned, including Owner, Inspector of Record, and Architect, within three days of the meeting.

1.4 PREINSTALLATION CONFERENCES

- A. Preinstallation Conferences: Conduct a preinstallation conference at the Project Site before each construction activity that requires coordination with other construction.
- B. Attendees: Installers and representatives of manufacturers and fabricators involved in or affected by the installation, and its coordination or integration with other materials and installations that have preceded or will follow, shall attend the meeting. Advise the Owner, Inspector of Record, and Architect of scheduled meeting dates.
- C. Agenda: Review the progress of other construction activities and preparations for the particular activity under consideration at each preinstallation conference, including requirements for the following:
1. Contract Documents.
 2. Options.
 3. Related RFI's, Proposal Requests, and Change Orders.
 4. Purchases.
 5. Deliveries.
 6. Submittals.
 7. Sustainability requirements.
 8. Possible conflicts.
 9. Compatibility problems.
 10. Time schedules.
 11. Weather limitations.
 12. Manufacturer's written instructions.
 13. Warranty requirements.
 14. Compatibility of materials.
 15. Acceptability of substrates.

16. Temporary facilities.
 17. Space and access limitations.
 18. Regulations of authorities having jurisdiction.
 19. Safety.
 20. Testing and inspecting requirements.
 21. Required performance results.
 22. Recording requirements.
 23. Protection.
 24. Record significant conference discussions, agreements, disagreements, including corrective measures and actions.
 25. Promptly distribute minutes of the meeting to each party present and to other parties requiring information, including the Owner and the Architect.
 26. Do not proceed with the installation if the conference cannot be successfully concluded. Initiate whatever actions are necessary to resolve impediments to performance of Work and reconvene the conference at the earliest feasible date.
- D. Minutes: Contractor shall record significant discussions and agreements achieved. Distribute the meeting minutes to everyone concerned, including Owner, Inspector of Record, and Architect, within three days of the meeting.

1.5 PROGRESS MEETINGS

- A. Progress Meetings: Conduct progress meetings at the Project Site at regular intervals to be established by the Architect, Inspector of Record, Contractor, and Owner.
1. Coordinate dates of meetings with preparation of the payment request.
- B. Attendees: In addition to representatives of the Owner and Architect, each subcontractor, supplier, and other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be represented at these meetings. All participants at the conference shall be familiar with the Project and authorized to conclude matters relating to the Work.
- C. Agenda: Review and correct or approve minutes of the previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to the status of the Project. Review proposed percentages of work completed for current months progress payment.
1. Contractor's Construction Schedule: Review progress since the last meeting. Determine whether each activity is on time, ahead of schedule, or behind schedule, in relation to Contractor's construction schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether schedule revisions are required to ensure that current and subsequent activities will be completed within the Contract Time.

2. Review the present and future needs of each entity present, including the following:

- a. Interface requirements.
- b. Sequence of operation.
- c. Status of submittals.
- d. Status of Sustainability documentation.
- e. Deliveries.
- f. Off-site fabrication.
- g. Access.
- h. Site utilization.
- i. Temporary facilities and services.
- j. Status of correction of deficient items.
- k. Field observations.
- l. Status of RFI's, Proposal Requests, and Change Orders.
- m. Progress cleaning.
- n. Quality and work standards.
- o. Documentation of information for payment requests.
- p. Request for Information

D. Minutes: Contractor shall record significant discussions and agreements achieved. Distribute the meeting minutes to everyone concerned, including Owner, Inspector of Record, and Architect, within three days of the meeting.

E. Schedule Updating: Revise the Contractor's Construction Schedule after each progress meeting where revisions to the schedule have been made or recognized. Issue the revised schedule to the Owner, the Architect, and all other parties involved in the project. Failure to revise and keep current the Contractor's construction schedule may be grounds for returning Application for Payment unreviewed.

1.6 PROJECT CLOSEOUT CONFERENCE

A. Project Closeout Conference: Conduct a project closeout conference, at a time convenient to Owner and Architect, but not less than 90 days prior to the scheduled date of Substantial Completion. Conduct the conference to review requirements and responsibilities related to Project closeout.

B. Attendees: Authorized representatives of Owner, Architect and their consultants; Contractor and its superintendent. Participants at the meeting shall be familiar with Project and authorized to conclude matters relating to the Work.

C. Agenda: Discuss items of significance that could affect or delay Project closeout, including the following:

1. Preparation of record documents.
2. Procedures required prior to inspection for Substantial Completion and for final inspection for acceptance.
3. Submittal of written warranties.
4. Requirements for completing Sustainability documentation.
5. Requirements for preparing operations and maintenance data.

6. Requirements for delivery of material samples, attic stock, and spare parts.
 7. Requirements for demonstration and training.
 8. Preparation of Contractor's punch list.
 9. Procedures for processing Applications for Payment at Substantial Completion and for final payment.
 10. Submittal procedures.
 11. Responsibility for removing temporary facilities and controls.
- D. Minutes: Contractor shall record significant discussions and agreements achieved. Distribute the meeting minutes to everyone concerned, including Owner, Inspector of Record, and Architect, within three days of the meeting.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 013200
CONSTRUCTION PROGRESS DOCUMENTATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for documenting the progress of construction during performance of the Work, including the following:
 - 1. Contractor's construction schedule.
 - 2. Special reports.
- B. Related Sections include but are not limited to the following:
 - 1. Division 01 Section "Submittal Procedures" for submitting schedules and reports.
 - 2. Division 01 Section "Quality and Testing Requirements" for submitting a schedule of tests and inspections.

1.3 DEFINITIONS

- A. Activity: A discrete part of a project that can be identified for planning, scheduling, monitoring, and controlling the construction project. Activities included in a construction schedule consume time and resources.
 - 1. Critical Activity: An activity on the critical path that must start and finish on the planned early start and finish times.
 - 2. Predecessor Activity: An activity that precedes another activity in the network.
 - 3. Successor Activity: An activity that follows another activity in the network.
- B. CPM: Critical path method, which is a method of planning and scheduling a construction project where activities are arranged based on activity relationships. Network calculations determine when activities can be performed and the critical path of the Project.
- C. Critical Path: The longest connected chain of interdependent activities through the network schedule that establishes the minimum overall Project duration and contains no float.
- D. Event: The starting or ending point of an activity.
- E. Float: The measure of leeway in starting and completing an activity.

1. Float time is not for the exclusive use or benefit of either Owner or Contractor, but is a jointly owned, expiring Project resource available to both parties as needed to meet schedule milestones and Contract completion date.
 2. Free float is the amount of time an activity can be delayed without adversely affecting the early start of the successor activity.
 3. Total float is the measure of leeway in starting or completing an activity without adversely affecting the planned Project completion date.
- F. Milestone: An activity, which occurs in an instant and thus has no time duration, a key or critical point in time for reference or measurement.

1.4 SUBMITTALS

- A. Format for Submittals: Submit required submittals in the following format:
1. Working electronic copy of schedule file, where indicated.
 2. PDF electronic file.
- B. Startup Network Diagram: Of size required to display entire network for entire construction period. Show logic ties for activities.
- C. Contractor's Construction Schedule: Initial schedule, of size required to display entire schedule for entire construction period.
1. Submit electronic copy of schedule labeled to comply with requirements for submittals. Include type of schedule (initial or updated) and date on label.
- D. Construction Schedule Updating Reports: Submit with Applications for Payment.
- E. Special Reports: Submit at time of unusual event.

1.5 QUALITY ASSURANCE

- A. Prescheduling Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Meetings." Review methods and procedures related to the preliminary construction schedule and Contractor's construction schedule, including, but not limited to, the following:
1. Discuss constraints, including phasing work stages area separations interim milestones and partial Owner occupancy.
 2. Review delivery dates for Owner-furnished products.
 3. Review schedule for work of Owner's separate contracts.
 4. Review submittal requirements and procedures.
 5. Review time required for review of submittals and resubmittals.
 6. Review requirements for tests and inspections by independent testing and inspecting agencies.
 7. Review time required for Project closeout and Owner startup procedures, including commissioning activities.
 8. Review and finalize list of construction activities to be included in schedule.
 9. Review procedures for updating schedule.

1.6 COORDINATION

- A. Coordinate preparation and processing of schedules with performance of construction activities and with scheduling of separate contractors.
- B. Coordinate Contractor's construction schedule with the submittal schedule and other required schedules.
 - 1. Secure time commitments for performing critical elements of the Work from entities involved.
 - 2. Coordinate each construction activity in the network with other activities and schedule them in proper sequence.

PART 2 - PRODUCTS

2.1 CONTRACTOR'S CONSTRUCTION SCHEDULE, GENERAL

- A. Time Frame: Extend schedule from date established for the Notice to Proceed to date of final completion.
 - 1. Contract completion date shall not be changed by submission of a schedule that shows an early completion date, unless specifically authorized by Change Order.
- B. Activities: Treat each story or separate area as a separate numbered activity for each main element of the Work. Comply with the following:
 - 1. Activity Duration: Define activities so no activity is longer than 20 days, unless specifically allowed by Architect.
 - 2. Procurement Activities: Include procurement process activities for the following long lead items and major items, requiring a cycle of more than 60 days, as separate activities in schedule. Procurement cycle activities include, but are not limited to, submittals, approvals, purchasing, fabrication, and delivery.
 - 3. Submittal Review Time: Include review and resubmittal times indicated in Division 01 Section "Submittal Procedures" in schedule. Coordinate submittal review times in Contractor's construction schedule with submittal schedule.
 - 4. Startup and Testing Time: Include no fewer than 15 days for startup and testing.
 - 5. Completion: Indicate completion in advance of date established for completion, and allow time for Architect's administrative procedures necessary for certification of completion.
 - 6. Punch List and Final Completion: Include not more than 30 days for completion of punch list items and final completion.
- C. Constraints: Include constraints and work restrictions indicated in the Contract Documents and as follows in schedule, and show how the sequence of the Work is affected.
 - 1. Phasing: Arrange list of activities on schedule by phase.
 - 2. Work by Owner: Include a separate activity for each portion of the Work performed by Owner.

3. Products Ordered in Advance: Include a separate activity for each product. Include delivery date indicated in Division 01 Section "Summary." Delivery dates indicated stipulate the earliest possible delivery date.
 4. Owner-Furnished Products: Include a separate activity for each product. Include delivery date indicated in Division 01 Section "Summary." Delivery dates indicated stipulate the earliest possible delivery date.
 5. Work Restrictions: Show the effect of the following items on the schedule:
 - a. Coordination with existing construction.
 - b. Limitations of continued occupancies.
 - c. Uninterruptible services.
 - d. Partial occupancy before Substantial Completion.
 - e. Use of premises restrictions.
 - f. Provisions for future construction.
 - g. Seasonal variations.
 - h. Environmental control.
 6. Work Stages: Indicate important stages of construction for each major portion of the Work, including, but not limited to, the following:
 - a. Submittals.
 - b. Purchases.
 - c. Mockups.
 - d. Fabrication.
 - e. Sample testing.
 - f. Deliveries.
 - g. Installation.
 - h. Tests and inspections.
 - i. Adjusting.
 - j. Curing.
 - k. Startup and placement into final use and operation.
 7. Construction Areas: Identify each major area of construction for each major portion of the Work. Indicate where each construction activity within a major area must be sequenced or integrated with other construction activities to provide for the following:
 - a. Structural completion.
 - b. Temporary enclosure and space conditioning.
 - c. Permanent space enclosure.
 - d. Completion of mechanical installation.
 - e. Completion of electrical installation.
 - f. Substantial Completion.
- D. Milestones: Include milestones indicated in the Contract Documents in schedule, including, but not limited to, the Notice to Proceed, Substantial Completion, and final completion.
- E. Contract Modifications: For each proposed contract modification and concurrent with its submission, prepare a time-impact analysis to demonstrate the effect of the proposed change on the overall project schedule.

- F. Upcoming Work Summary: Prepare summary report indicating activities scheduled to occur or commence prior to submittal of next schedule update. Summarize the following issues:
1. Unresolved issues.
 2. Unanswered Requests for Information.
 3. Rejected or unreturned submittals.
 4. Notations on returned submittals.
 5. Pending modifications affecting the Work and Contract Time.
- G. Recovery Schedule: When periodic update indicates the Work is 14 or more calendar days behind the current approved schedule, submit a separate recovery schedule indicating means by which Contractor intends to regain compliance with the schedule. Indicate changes to working hours, working days, crew sizes, and equipment required to achieve compliance, and date by which recovery will be accomplished.
- H. Computer Scheduling Software: Prepare schedules using current version of a program that has been developed specifically to manage construction schedules.

2.2 CONTRACTOR'S CONSTRUCTION SCHEDULE (CPM SCHEDULE)

- A. General: Prepare network diagrams using AON (activity-on-node) format.
- B. CPM Schedule: Prepare Contractor's construction schedule using a time-scaled CPM network analysis diagram for the Work.
1. Develop network diagram in sufficient time to submit CPM schedule so it can be accepted for use no later than 30 days after date established for the Notice to Proceed.
 - a. Failure to include any work item required for performance of this Contract shall not excuse Contractor from completing all work within applicable completion dates, regardless of Architect's approval of the schedule.
 2. Conduct educational workshops to train and inform key Project personnel, including subcontractors' personnel, in proper methods of providing data and using CPM schedule information.
 3. Establish procedures for monitoring and updating CPM schedule and for reporting progress. Coordinate procedures with progress meeting and payment request dates.
 4. Use "one workday" as the unit of time for individual activities. Indicate nonworking days and holidays incorporated into the schedule in order to coordinate with the Contract Time.
- C. CPM Schedule Preparation: Prepare a list of all activities required to complete the Work. Prepare a skeleton network to identify probable critical paths.
1. Activities: Indicate the estimated time duration, sequence requirements, and relationship of each activity in relation to other activities. Include estimated time frames for the following activities:

- a. Preparation and processing of submittals.
 - b. Mobilization and demobilization.
 - c. Purchase of materials.
 - d. Delivery.
 - e. Fabrication.
 - f. Utility interruptions.
 - g. Installation.
 - h. Work by Owner that may affect or be affected by Contractor's activities.
 - i. Testing
 - j. Commissioning.
 - k. Punch list and final completion.
 - l. Activities occurring following final completion.
- 2. Critical Path Activities: Identify critical path activities, including those for interim completion dates. Scheduled start and completion dates shall be consistent with Contract milestone dates.
- 3. Processing: Process data to produce output data on a computer-drawn, time-scaled network. Revise data, reorganize activity sequences, and reproduce as often as necessary to produce the CPM schedule within the limitations of the Contract Time.
- 4. Format: Mark the critical path. Locate the critical path near center of network; locate paths with most float near the edges.
 - a. Subnetworks on separate sheets are permissible for activities clearly off the critical path.
- D. Contract Modifications: For each proposed contract modification and concurrent with its submission, prepare a time-impact analysis using a network fragment to demonstrate the effect of the proposed change on the overall project schedule.
- E. Initial Issue of Schedule: Prepare initial network diagram from a sorted activity list indicating straight "early start-total float." Identify critical activities. Prepare tabulated reports showing the following:
 - 1. Contractor or subcontractor and the Work or activity.
 - 2. Description of activity.
 - 3. Main events of activity.
 - 4. Immediate preceding and succeeding activities.
 - 5. Early and late start dates.
 - 6. Early and late finish dates.
 - 7. Activity duration in workdays.
 - 8. Total float or slack time.
 - 9. Average size of workforce.
- F. Schedule Updating: Concurrent with making revisions to schedule, prepare tabulated reports showing the following:
 - 1. Identification of activities that have changed.
 - 2. Changes in early and late start dates.
 - 3. Changes in early and late finish dates.
 - 4. Changes in activity durations in workdays.

5. Changes in the critical path.
6. Changes in total float or slack time.
7. Changes in the Contract Time.

2.3 SPECIAL REPORTS

- A. Reporting Unusual Events: When an event of an unusual and significant nature occurs at Project site, whether or not related directly to the Work, prepare and submit a special report. List chain of events, persons participating, response by Contractor's personnel, evaluation of results or effects, and similar pertinent information. Advise Owner in advance when these events are known or predictable.
 1. Submit special reports directly to Owner within one day of an occurrence. Distribute copies of report to parties affected by the occurrence.
- B. Field Condition Reports: Immediately on discovery of a difference between field conditions and the Contract Documents, prepare a detailed report. Submit with a request for information. Include a detailed description of the differing conditions, together with recommendations for changing the Contract Documents.

PART 3 - EXECUTION

3.1 CONTRACTOR'S CONSTRUCTION SCHEDULE

- A. Contractor's Construction Schedule Updating: At progress meetings, update schedule to reflect actual construction progress and activities. Issue schedule one week before each regularly scheduled progress meeting.
 1. Revise schedule immediately after each meeting or other activity where revisions have been recognized or made. Issue updated schedule concurrently with the report of each such meeting.
 2. Include a report with updated schedule that indicates every change, including, but not limited to, changes in logic, durations, actual starts and finishes, and activity durations.
 3. As the Work progresses, indicate final completion percentage for each activity.
- B. Distribution: Distribute copies of approved schedule to Architect, Owner, Inspector of Record, separate contractors, testing and inspecting agencies, and other parties identified by Contractor with a need-to-know schedule responsibility.
 1. Post copies in Project meeting rooms and temporary field offices.
 2. When revisions are made, distribute updated schedules to the same parties and post in the same locations. Delete parties from distribution when they have completed their assigned portion of the Work and are no longer involved in performance of construction activities.

END OF SECTION

SECTION 013233
PHOTOGRAPHIC DOCUMENTATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for the following:
 - 1. Preconstruction photographs.
 - 2. Concealed Work photographs.
 - 3. Periodic construction photographs.
- B. Related Sections:
 - 1. Division 02 Section "Selective Demolition" for photographic documentation before building demolition operations commence.

1.3 SUBMITTALS

- A. Digital Photographs: Submit image files at monthly intervals coinciding with the cutoff date associated with each Application for Payment.
 - 1. Submit photos by uploading to Project FTP site. Include copy of key plan indicating each photograph's location and direction.
 - 2. Identification: Provide the following information with each image description:
 - a. Date photograph was taken.
 - b. Description of location, vantage point, and direction.
 - c. Unique sequential identifier keyed to accompanying key plan.
 - 3. Key Plan: Include key plan of Project site and/or building(s) indicating location and direction of each photograph or group of photographs. Include same information as corresponding photographic documentation.

1.4 PHOTOGRAPHIC FORMATS AND MEDIA

- A. Digital Photographs: Provide color images in JPG format, produced by a digital camera with minimum sensor size of 12 megapixels, and at an image resolution of not less than 3200 by 2400 pixels. Use flash in low light levels or backlit conditions.

- B. Digital Images: Submit digital media as originally recorded in the digital camera, without alteration, manipulation, editing, or modifications using image-editing software.
- C. File Names: Name media files with location or area photograph was taken, date, and sequential numbering suffix.

1.5 CONSTRUCTION PHOTOGRAPHS

- A. General: Take photographs with maximum depth of field and in focus.
- B. Key Plan: Maintain key plan with each set of construction photographs that identifies each photographic location.
- C. Preconstruction Photographs: Before commencement of the Work, take photographs of Project site and adjacent areas, including existing items to remain during construction, from different vantage points, as necessary to record preconstruction conditions.
 - 1. Take additional photographs as needed to record settlement or cracking of existing adjacent structures, pavements, and improvements.
- D. Periodic Construction Photographs: Take photographs to record construction progress at not greater than bi-weekly intervals with the cutoff date associated with each Application for Payment. Select vantage points to show status of construction and progress since last photographs were taken.
- E. Concealed Work Photographs: Before proceeding with installing work that will conceal other work, take photographs sufficient in number, with annotated descriptions, to record nature and location of concealed Work, including, but not limited to, the following:
 - 1. Underground utilities.
 - 2. Underslab services.
 - 3. Piping.
 - 4. Electrical conduit.
 - 5. Waterproofing and weather-resistant barriers.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 013300
SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

- 1. Submittal schedule requirements.
- 2. Administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other submittals.
- 3. Cost for multiple resubmittals.

B. Related Sections:

- 1. Division 01 Section "Payment Procedures" for submitting Applications for Payment and the schedule of values.
- 2. Division 01 Section "Project Management and Coordination" for submitting coordination drawings.
- 3. Division 01 Section "Construction Progress Documentation" for submitting schedules and reports, including Contractor's construction schedule.
- 4. Division 01 Section "Photographic Documentation" for submitting preconstruction photographs, periodic construction photographs, and final completion construction photographs.
- 5. Division 01 Section "Quality and Testing Requirements" for submitting test and inspection reports, and schedule of tests and inspections.
- 6. Division 01 Section "Closeout Procedures" for submitting closeout submittals and maintenance material submittals.
- 7. Division 01 Section "Operation and Maintenance Data" for submitting operation and maintenance manuals.
- 8. Division 01 Section "Project Record Drawings" for submitting record Drawings.
- 9. Division 01 Section "Demonstration and Training" for submitting video recordings of demonstration of equipment and training of Owner's personnel.

1.3 SUBMITTAL SCHEDULE

- A. Submittal Schedule: Submit as a submittal, a list of submittals arranged in chronological order by dates required by construction schedule. Include time required for review, ordering, manufacturing, fabrication, and delivery when establishing dates. Include additional time required for making corrections or modifications to submittals

noted by the Architect and additional time for handling and reviewing submittals required by those corrections.

1. Coordinate submittal schedule with list of subcontracts, the schedule of values, and Contractor's construction schedule.
2. Initial Submittal: Submit concurrently with start-up construction schedule. Include submittals required during the first 60 days of construction. List those submittals required to maintain orderly progress of the Work and those required early because of long lead time for manufacture or fabrication.
3. Final Submittal: Submit concurrently with the first complete submittal of Contractor's construction schedule.
 - a. Submit revised submittal schedule to reflect changes in current status and timing for submittals.
4. Format: Arrange the following information in a tabular format:
 - a. Scheduled date for first submittal.
 - b. Specification Section number and title.
 - c. Name of subcontractor.
 - d. Description of the Work covered.
 - e. Scheduled date for Architect's final release or approval.
 - f. Scheduled dates for purchasing.
 - g. Scheduled date of fabrication.
 - h. Scheduled dates for installation.
 - i. Activity or event number.

1.4 SUBMITTAL FORMAT AND PROCEDURES

- A. General: Prepare and submit submittals required by individual Specification Sections.
 1. Architect will not review submittals received from Contractor that do not have Contractor's review and approval.
 2. Architect will not review submittals received from sources other than the Contractor.
- B. Electronic Digital Submittals: Prepare submittals as PDF package unless otherwise indicated, incorporate complete information into each PDF file, name PDF file with submittal number, and transmit submittal package to Architect via email.
 1. Paper Submittals: Where paper submittals are requested, necessary, or required in lieu of electronic submittals, prepare submittals in paper form and deliver to Architect. Transmit each paper submittal using transmittal form. Comply with the following:
 - a. Place a permanent label or title block on each submittal item for identification; include name of firm or entity that prepared submittal.
 - b. Provide a space approximately 6 by 8 inches on label or beside title block to record Contractor's review and approval markings and action taken by Architect.

- c. Number of Copies: Submit not less than three paper copies of each submittal unless otherwise indicated. Architect will return two copies.
 - d. Transmittal for Submittals: Assemble each submittal individually and appropriately for transmittal and handling. Transmit each submittal using transmittal form.
- C. Submittal Cover Page Information: Include the following information on the submittal cover page for each submittal:
 - 1. Project name.
 - 2. Date.
 - 3. Name of Architect.
 - 4. Name of Contractor.
 - 5. Name of firm or entity that prepared submittal.
 - 6. Names of subcontractor, manufacturer, and supplier.
 - 7. Unique submittal number, including revision identifier. Include Specification Section number with sequential alphanumeric identifier and alphanumeric suffix for resubmittals.
 - 8. Number and title of Specification Section, with paragraph number and generic name for each of multiple items.
 - 9. Drawing number and detail references, as appropriate.
 - 10. Indication of full or partial submittal.
 - 11. Location(s) where product is to be installed, as appropriate.
 - 12. Other necessary identification.
 - 13. Remarks.
 - 14. Signature of transmitter.
 - 15. Contractor's review/approval stamp of size required by contractor, approximately 3 inches by 3 inches, on or beside title block to record Contractor's review and approval.
 - 16. Space for Architect's review stamp of not less than 4 inches wide by 3-1/2 inches high on or beside title block to record Architect's review stamp and action taken by Architect.
- D. Product Options:
 - 1. Clearly identify options requiring selection by Architect.
 - 2. Clearly identify product options required to comply with the Contract Documents.
- E. Deviations and Additional Information: On each submittal, clearly indicate deviations from requirements in the Contract Documents, including minor variations and limitations; include relevant additional information and revisions, other than those requested by Architect on previous submittals. Indicate by highlighting on each submittal or noting on attached separate sheet.
- F. Field Conditions: Indicate field conditions where applicable to the work associated with the submittal.

- G. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
 2. Submit all submittal items required for each Specification Section concurrently unless partial submittals for portions of the Work are indicated on approved submittal schedule.
 3. Submit action submittals and informational submittals required by the same Specification Section as separate packages under separate transmittals.
 4. Coordinate timing of submitting submittals for related parts of the Work specified in different Sections so processing will not be delayed because of need to review related submittals concurrently for coordination.
 - a. Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
- H. Processing Time: Allow time for submittal review, including time for resubmittals, as follows. Time for review shall commence on Architect's receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.
1. Initial Review: Allow 14 calendar days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. Architect will advise Contractor when a submittal being processed must be delayed for coordination.
 2. Intermediate Review: If intermediate submittal is necessary, process it in same manner as initial submittal.
 3. Resubmittal Review: Allow 14 calendar days for review of each resubmittal.
 4. Sequential Review: Where sequential review of submittals by Architect's consultants, Owner, or other parties is indicated, allow 21 calendar days for initial review of each submittal.
 5. Concurrent Consultant Review: Where the Contract Documents indicate that submittals may be transmitted simultaneously to Architect and to Architect's consultants, allow 14 calendar days for review of each submittal. Submittal will be returned to Architect before being returned to Contractor.
 - a. Submit one copy of submittal to concurrent reviewer in addition to specified number of copies to Architect.
- I. Resubmittals: Make resubmittals in same form and number of copies as initial submittal.
1. Note date and content of previous submittal.
 2. Note date and content of revision in label or title block and clearly indicate extent of revision.
 3. Resubmit submittals until they are marked with approval notation from Architect's action stamp.

- J. Distribution: Furnish copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Show distribution on transmittal forms.
- K. Use for Construction: Retain complete copies of submittals on Project site. Use only final submittals that are marked with acceptable notation from Architect's action stamp.

1.5 SUBMITTAL REQUIREMENTS

- A. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.
 - 1. If information must be specially prepared for submittal because standard published data are unsuitable for use, submit as Shop Drawings, not as Product Data.
 - 2. Mark each copy of each submittal to show which products and options are applicable.
 - 3. Include the following information, as applicable:
 - a. Manufacturer's catalog cuts.
 - b. Manufacturer's product specifications.
 - c. Standard color charts.
 - d. Statement of compliance with specified referenced standards.
 - e. Testing by recognized testing agency.
 - f. Application of testing agency labels and seals.
 - g. Notation of coordination requirements.
 - h. Availability and delivery time information.
 - 4. For equipment, include the following in addition to the above, as applicable:
 - a. Wiring diagrams that show factory-installed wiring.
 - b. Printed performance curves.
 - c. Operational range diagrams.
 - d. Clearances required to other construction, if not indicated on accompanying Shop Drawings.
 - 5. Submit Product Data before Shop Drawings, and before or concurrently with Samples.
- B. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data.
 - 1. Preparation: Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:
 - a. Identification of products.
 - b. Schedules.
 - c. Compliance with specified standards.
 - d. Notation of coordination requirements.

- e. Notation of dimensions established by field measurement.
 - f. Relationship and attachment to adjoining construction clearly indicated.
 - g. Seal and signature of professional engineer if specified.
 - 2. Drawing Sheet Size: Except for templates, patterns, and similar full-size Drawings, prepare Shop Drawings on sheets at least 8-1/2 by 11 inches, but no larger than 30 by 42 inches.
 - 3. Submit Shop Drawings in PDF format unless otherwise indicated.
- C. Samples: Submit Samples for review of kind, color, pattern, and texture for a check of these characteristics with other materials.
- 1. Transmit Samples that contain multiple, related components such as accessories together in one submittal package.
 - 2. Identification: Permanently attach label on unexposed side of Samples that includes the following:
 - a. Project name and submittal number.
 - b. Generic description of Sample.
 - c. Product name and name of manufacturer.
 - d. Sample source.
 - e. Number and title of applicable Specification Section.
 - f. Specification paragraph number and generic name of each item.
 - 3. Submit samples in PDF format unless physical samples are required.
 - 4. Disposition: Maintain sets of approved Samples at Project site, available for quality-control comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with each set.
 - a. Samples that may be incorporated into the Work are indicated in individual Specification Sections. Such Samples must be in an undamaged condition at time of use.
 - b. Samples not incorporated into the Work, or otherwise designated as Owner's property, are the property of Contractor.
 - 5. Samples for Initial Selection: Submit manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns available.
 - a. Number of Samples: Submit one full set of available choices where color, pattern, texture, or similar characteristics are required to be selected from manufacturer's product line. Architect will return submittal with options selected.
 - 6. Samples for Verification: Submit full-size units or Samples of size indicated, prepared from same material to be used for the Work, cured and finished in manner specified, and physically identical with material or product proposed for use, and that show full range of color and texture variations expected. Samples include, but are not limited to, the following: partial sections of manufactured or fabricated components; small cuts or containers of materials; complete units of

repetitively used materials; swatches showing color, texture, and pattern; color range sets; and components used for independent testing and inspection.

- a. Number of Samples: Submit three (3) sets of Samples. Architect will retain two (2) Sample sets; remainder will be returned.
 - 1) Submit a single Sample where assembly details, workmanship, fabrication techniques, connections, operation, and other similar characteristics are to be demonstrated.
 - 2) If variation in color, pattern, texture, or other characteristic is inherent in material or product represented by a Sample, submit at least three (3) sets of paired units that show approximate limits of variations.
- D. Product Schedule: As required in individual Specification Sections, prepare a written summary indicating types of products required for the Work and their intended location. Include the following information in tabular form:
 1. Type of product. Include unique identifier for each product indicated in the Contract Documents or assigned by Contractor if none is indicated.
 2. Manufacturer and product name, and model number if applicable.
 3. Number and name of room or space.
 4. Location within room or space.
- E. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person. Include lists of completed projects with project names and addresses, contact information of architects and owners, and other information specified.
- F. Design Data: Prepare and submit written and graphic information indicating compliance with indicated performance and design criteria in individual Specification Sections. Include list of assumptions and summary of loads. Include load diagrams if applicable. Provide name and version of software, if any, used for calculations. Number each page of submittal.
- G. Certificates:
 1. Certificates and Certifications Submittals: Submit a statement that includes signature of entity responsible for preparing certification. Certificates and certifications shall be signed by an officer or other individual authorized to sign documents on behalf of that entity. Provide a notarized signature where indicated.
 2. Installer Certificates: Submit written statements on manufacturer's letterhead certifying that Installer complies with requirements in the Contract Documents and, where required, is authorized by manufacturer for this specific Project.
 3. Manufacturer Certificates: Submit written statements on manufacturer's letterhead certifying that manufacturer complies with requirements in the Contract Documents. Include evidence of manufacturing experience where required.
 4. Material Certificates: Submit written statements on manufacturer's letterhead certifying that material complies with requirements in the Contract Documents.

5. Product Certificates: Submit written statements on manufacturer's letterhead certifying that product complies with requirements in the Contract Documents.
6. Welding Certificates: Prepare written certification that welding procedures and personnel comply with requirements in the Contract Documents. Submit record of Welding Procedure Specification and Procedure Qualification Record on AWS forms. Include names of firms and personnel certified.

H. Test and Research Reports:

1. Compatibility Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of compatibility tests performed before installation of product. Include written recommendations for primers and substrate preparation needed for adhesion.
2. Field Test Reports: Submit written reports indicating and interpreting results of field tests performed either during installation of product or after product is installed in its final location, for compliance with requirements in the Contract Documents.
3. Material Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting test results of material for compliance with requirements in the Contract Documents.
4. Preconstruction Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of tests performed before installation of product, for compliance with performance requirements in the Contract Documents.
5. Product Test Reports: Submit written reports indicating that current product produced by manufacturer complies with requirements in the Contract Documents. Base reports on evaluation of tests performed by manufacturer and witnessed by a qualified testing agency, or on comprehensive tests performed by a qualified testing agency.
6. Research Reports: Submit written evidence, from a model code organization acceptable to authorities having jurisdiction, that product complies with building code in effect for Project. Include the following information:
 - a. Name of evaluation organization.
 - b. Date of evaluation.
 - c. Time period when report is in effect.
 - d. Product and manufacturers' names.
 - e. Description of product.
 - f. Test procedures and results.
 - g. Limitations of use.

1.6 DELEGATED-DESIGN SERVICES

- A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated.
 1. If criteria indicated are insufficient to perform services or certification required, submit a written request for additional information to Architect.

- B. Delegated-Design Services Certification: In addition to Shop Drawings, Product Data, and other required submittals, submit digitally signed PDF file(s) of certificate, signed and sealed by the responsible design professional, for each product and system specifically assigned to Contractor to be designed or certified by a design professional.
 - 1. Indicate that products and systems comply with performance and design criteria in the Contract Documents. Include list of codes, loads, and other factors used in performing these services.

1.7 CONTRACTOR'S REVIEW

- A. Contractor's Review of Submittals: Contractor shall review each submittal and check for completeness, coordination with other Work of the Contract, and compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Architect.
- B. Contractor's Approval: Indicate Contractor's approval for each submittal with a uniform approval stamp. Include name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.
 - 1. Architect will not review submittals received from Contractor that do not have Contractor's review and approval.
 - 2. Contractor's approval shall certify the following actions by the Contractor:
 - a. Field measurements have been determined, verified, and indicated on submittal.
 - b. Field conditions have been verified and coordinated with Work associated with the submittal.
 - c. The Work associated with the submittal is in conformance with the Contract Documents.
 - d. Work being performed by various subcontractors and trades is coordinated with Work associated with the submittal including work being performed by others for the Owner.
 - e. Deviations from the Contract Documents are identified and notes.

1.8 ARCHITECT'S REVIEW

- A. Architect's Review and Action: Architect will review each submittal, indicate corrections or revisions required, mark with an action stamp indicating one of the following actions, and return it.
 - 1. Reviewed: Final unrestricted release, work may proceed, provided it complies with the Contract Documents.
 - 2. Furnish as Corrected: Final but restricted release, work may proceed, provided written confirmation is delivered to Architect by Contractor that installed work complied with notations and corrections on submittal and with Contract Documents.

3. Revise and Resubmit: Returned for resubmittal, do not proceed with work. Revise submittal in accordance with notations thereon, and resubmit without delay to obtain an acceptable action marking. Do not allow submittals with this marking (or unmarked submittals where a marking is required) to be used in connection with performance of the Work.
 4. Rejected: Submittal content varies from the Contract Documents and is not acceptable for use on the Project, do not proceed with work. Revise submittal in accordance with notations thereon, and resubmit without delay to obtain an acceptable action marking. Do not allow submittals with this marking (or unmarked submittals where a marking is required) to be used in connection with performance of the Work.
- B. Non-conforming Submittals: The following are considered non-confirming submittals and will not be reviewed by the Architect.
1. Architect will not review submittals received from Contractor that do not have Contractor's review and approval.
 2. Architect will not review submittals received from sources other than the Contractor.
 3. Partial submittals are not acceptable, will be considered nonresponsive, and will be returned without review.
 4. Incomplete submittals are not acceptable, will be considered nonresponsive, and will be returned without review.
- C. Submittals not required by the Contract Documents may not be reviewed and may be discarded.

1.9 COST FOR MULTIPLE RESUBMITTALS

- A. Contractor's initial submittal and one resubmittal are included in the Architect's Construction Administration services to the Owner. Architect's services for review of subsequent resubmittals will be charged to the Owner at the Architect's current billing rate, and the Owner will deduct the charges from the Contract Amount by a change order.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 014000
QUALITY AND TESTING REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for quality assurance and quality control including but not limited to the following:
 - 1. General quality requirements.
 - 2. Reports and documents.
 - 3. Contractor's responsibilities in regard to testing and inspections.
 - 4. Inspector of Record (IOR).
 - 5. Testing Agency.
 - 6. Governing agency testing and inspection requirements.
- B. Testing and inspecting services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with the Contract Document requirements.
 - 1. Specific quality-assurance and control requirements for individual construction activities are specified in the Sections that specify those activities. Requirements in those Sections may also cover production of standard products.
 - 2. Specified tests, inspections, and related actions do not limit Contractor's other quality-assurance and control procedures that facilitate compliance with the Contract Document requirements.
 - 3. Requirements for Contractor to provide quality-assurance and control services required by Architect, Owner, or authorities having jurisdiction are not limited by provisions of this Section.
- C. Related Requirements:
 - 1. Divisions 02 through 33 Sections for specific test and inspection requirements.
- D. DSA Testing and Inspection Requirements for School Construction: The following requirements are per the Division of the State Architect (DSA); requirements indicated below may be repeated elsewhere in this Section or in other Sections of the Project Manual, where conflicts occur, the most stringent condition shall apply.
 - 1. Tests:

- a. The owner will select an independent testing laboratory, approved by DSA, to conduct the tests. Selection of the material required to be tests shall be by the laboratory or the Owner's representative and not by the Contractor.
 - b. The Contractor shall notify the Owner's representative a sufficient time in advance of the manufacture of material to be supplied by him under the Contract Documents, which must by terms of the Contract be tested, in order that the Owner may arrange for the testing of same at the source of supply.
 - c. Any material shipped by the Contractor from the source of supply prior to having satisfactorily passed such testing and inspection or prior to the receipt of notice from said representative that such testing and inspection will not be required shall not be incorporated in the job.
 - d. The Owner will pay testing laboratory costs for all tests and inspections, but may be reimbursed by the Contractor for such costs under the Contract documents.
2. Tests Reports: One copy of all test reports shall be forwarded to the Division of the State Architect by the testing agency. Such reports shall include all the tests made, regardless of whether such tests indicate that the material is satisfactory or unsatisfactory. Samples taken but not tested shall also be reported. Records of special sampling operations as required shall also be reported. The reports shall show that the material or materials were sampled and tested in accordance with the requirements of Title 24 and with the approved specifications. Test reports shall show the specified design strength. They shall also state defiantly whether or not the material or materials tested comply with requirements.
3. Verification of Test Reports: Each testing agency shall submit to the Division of the State Architect a verified report in duplicate covering all the tests which are required to be made by that agency during the progress of the project. Such report shall be furnished each time that work on the project is suspended, covering the tests up to that time, and at the completion of the project, covering all tests.
4. Inspection by the Owner:
 - a. The Owner and his representatives shall at all times have access for the purpose of inspection to all parts of the work and to the shops wherein the work is in preparation, and the Contractor shall at all times maintain proper facilities and provide safe access for such inspection.
 - b. The Owner shall have the right to reject materials and workmanship which are defective, or to require their correction. Rejected workmanship shall be satisfactorily corrected and rejected materials shall be removed from the premises without charge to the Owner. If the Contractor does no correct such rejected work within a reasonable time, fixed by written notice, the Owner may correct same and charge expense to the Contractor.
 - c. Should it be considered necessary or advisable by the Owner at any time before final acceptance of the entire work to make an examination of the work already completed by removing or tearing out the same, the Contractor shall on request promptly furnish all necessary facilities, labor and materials. If such work is found to be defective in any respect due to the fault of the Contractor or his subcontractor, he shall defray all expenses of such examinations and of satisfactory reconstruction. If however, such work is found to meet the requirements of the Contract, the additional cost

of labor and material necessarily involved in the examination and replacement shall be allowed the Contractor.

5. Inspector – Owner’s:

- a. An Inspector employed by the Owner, and approved by DSA, in accordance with the requirements of the California Code of Regulations, Title 24 will be assigned to the work. His duties are specifically defined in Title 24, Part I, Sec. 4-342.
- b. The work of construction in all stages of progress shall be subject to the personal continuous observation of the Inspector. He shall have free access to any or all parts of the work at any time. The Contractor shall furnish the Inspector reasonable facilities for obtaining such information as may be necessary to keep him fully informed respecting the progress and manner of the work and the character of materials. Inspection of the work shall not relieve the Contractor from any obligation to fulfill this contract.

6. Inspector – Owner – Field Office: The Contractor shall provide for the use of the Owner’s Inspector a temporary office to be located as directed by the Inspector and to be maintained until removal is authorized by the Owner. This office shall of substantial water proof construction with adequate natural light and ventilation by means of stock design windows. The door shall have a lock. A table satisfactory for the study of plans and two chairs shall be provided by the Contractor. The Contractor shall provide and pay for adequate electric lights, private local telephone service with a loud exterior bell, and adequate heat for this field office until the completion of the Contract.

1.3 DEFINITIONS

- A. Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of the Work to guard against defects and deficiencies and substantiate that proposed construction will comply with requirements.
- B. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of the Work to evaluate that actual products incorporated into the Work and completed construction comply with requirements. Services do not include contract enforcement activities performed by Architect.
- C. Preconstruction Testing: Tests and inspections performed specifically for Project before products and materials are incorporated into the Work, to verify performance or compliance with specified criteria.
- D. Product Testing: Tests and inspections that are performed by an NRTL, an NVLAP, or a testing agency qualified to conduct product testing and acceptable to authorities having jurisdiction, to establish product performance and compliance with specified requirements.
- E. Source Quality-Control Testing: Tests and inspections that are performed at the source, e.g., plant, mill, factory, or shop.

- F. Field Quality-Control Testing: Tests and inspections that are performed on-site for installation of the Work and for completed Work.
- G. Testing Agency: An entity engaged to perform specific tests, inspections, or both. Testing laboratory shall mean the same as testing agency.
- H. Installer/Applicator/Erector: Contractor or another entity engaged by Contractor as an employee, Subcontractor, or Sub-subcontractor, to perform a particular construction operation, including installation, erection, application, and similar operations.
 - 1. Use of trade-specific terminology in referring to a trade or entity does not require that certain construction activities be performed by accredited or unionized individuals, or that requirements specified apply exclusively to specific trade(s).
- I. Experienced: When used with an entity or individual, "experienced" means having successfully completed a minimum of 5 previous projects similar in nature, size, and extent to this Project; being familiar with special requirements indicated; and having complied with requirements of authorities having jurisdiction.

1.4 CONFLICTING REQUIREMENTS

- A. Referenced Standards: If compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer conflicting requirements that are different, but apparently equal, to Architect for a decision before proceeding.
- B. Minimum Quantity or Quality Levels: The quantity or quality level shown or specified shall be the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate, for the context of requirements. Refer uncertainties to Architect for a decision before proceeding.

1.5 REPORTS AND DOCUMENTS

- A. Test and Inspection Reports: Prepare and submit certified written reports specified in other Sections. Reports shall be prepared by the person performing the testing and inspecting. Include the following:
 - 1. Date of issue.
 - 2. Project title and number.
 - 3. Name, address, and telephone number of testing agency.
 - 4. Dates and locations of samples and tests or inspections.
 - 5. Names of individuals making tests and inspections.
 - 6. Description of the Work and test and inspection method.
 - 7. Identification of product and Specification Section.
 - 8. Complete test or inspection data.
 - 9. Test and inspection results and an interpretation of test results.

10. Record of temperature and weather conditions at time of sample taking and testing and inspecting.
 11. Comments or professional opinion on whether tested or inspected Work complies with the Contract Document requirements.
 12. Name and signature of laboratory inspector.
 13. Recommendations on retesting and reinspecting.
- B. Governing Agency Verified Reports: Complete and submit Verified Reports as required by the Division of the State Architect and the 2022 California Administrative Code, Section 4-336. Reports are required to be completed by Architect, Architect's consulting Engineers, Owner's Inspector of Record, Contractor, and Testing Agency.
1. Form:
 - a. DSA form DSA-6C for Contractor.
 - b. DSA form DSA-6PI for Project Inspector.
 - c. DSA form DSA-6A/E for Architect and Architect's consulting Engineers.
- C. Manufacturer's Technical Representative's Field Reports: Provide written report documenting tests and inspections specified in other Sections. Reports shall be prepared by Manufacturer's technical representative performing the testing and inspecting. Include the following:
1. Name, address, and telephone number of technical representative making report.
 2. Statement on condition of substrates and their acceptability for installation of product.
 3. Statement that products at Project site comply with requirements.
 4. Summary of installation procedures being followed, whether they comply with requirements and, if not, what corrective action was taken.
 5. Results of operational and other tests and a statement of whether observed performance complies with requirements.
 6. Statement whether conditions, products, and installation will affect warranty.
 7. Other required items indicated in individual Specification Sections.
- D. Factory-Authorized Service Representative's Reports: Provide written report documenting tests and inspections specified in other Sections. Reports shall be prepared by Factory-authorized service representative performing the testing and inspecting. Include the following:
1. Name, address, and telephone number of factory-authorized service representative making report.
 2. Statement that equipment complies with requirements.
 3. Results of operational and other tests and a statement of whether observed performance complies with requirements.
 4. Statement whether conditions, products, and installation will affect warranty.
 5. Other required items indicated in individual Specification Sections.
- E. Permits, Licenses, and Certificates: For Owner's records, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, correspondence, records, and similar

documents, established for compliance with standards and regulations bearing on performance of the Work.

1.6 QUALITY ASSURANCE

- A. General: Qualifications paragraphs in this article establish the minimum qualification levels required; individual Specification Sections specify additional requirements.
- B. Manufacturer Qualifications: A firm experienced in manufacturing products or systems similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
- C. Fabricator Qualifications: A firm experienced in producing products similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
- D. Installer Qualifications: A firm or individual experienced in installing, erecting, or assembling work similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance.
- E. Professional Engineer Qualifications: A professional engineer who is legally licensed to practice in the state where Project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of the system, assembly, or product that are similar in material, design, and extent to those indicated for this Project.
- F. Testing Agency Qualifications: An NRTL, an NVLAP, or an independent agency with the experience and capability to conduct testing and inspecting indicated, as documented according to ASTM E 329; and with additional qualifications specified in individual Sections; and, where required by authorities having jurisdiction, that is acceptable to authorities.
 - 1. NRTL: A nationally recognized testing laboratory according to 29 CFR 1910.7.
 - 2. NVLAP: A testing agency accredited according to NIST's National Voluntary Laboratory Accreditation Program.
- G. Manufacturer's Technical Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to observe and inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.
- H. Factory-Authorized Service Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.
- I. Preconstruction Testing: Where testing agency is indicated to perform preconstruction testing for compliance with specified requirements for performance and test methods, comply with the following:

1. Contractor responsibilities include the following:
 - a. Provide test specimens representative of proposed products and construction.
 - b. Submit specimens in a timely manner with sufficient time for testing and analyzing results to prevent delaying the Work.
 - c. Provide sizes and configurations of test assemblies, mockups, and laboratory mockups to adequately demonstrate capability of products to comply with performance requirements.
 - d. Build site-assembled test assemblies and mockups using installers who will perform same tasks for Project.
 - e. Build laboratory mockups at testing facility using personnel, products, and methods of construction indicated for the completed Work.
 - f. When testing is complete, remove test specimens, assemblies, and mockups; do not reuse products on Project.
2. Testing Agency Responsibilities: Submit a written report of each test, inspection, and similar quality-assurance service to Architect, with copy to Contractor. Interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from the Contract Documents.

1.7 INSPECTOR OF RECORD

- A. General: Owner will employ an Inspector of Record (IOR) for continuous inspection of the Work. Inspector of Record shall be acceptable to Architect and approved by the Division of the State Architect.
 1. Inspector of Record shall act under the direction of the Architect and shall be subject to supervision by a representative of the Division of the State Architect.
- B. Qualifications for Inspector of Record: Qualifications for the Inspector of Record shall be as stated in the California Code of Regulations, Title 24, Part 1, 2022 California Administrative Code, Section 4-333.1. Inspector of Record shall be DSA certified under one of the following classes:
 1. Class 1: May inspect any project.
 2. Class 2: May inspect any project except a project containing one or more new large structures with a primary lateral load resisting system of steel, masonry, or concrete.
 3. Class 3: May inspect projects containing alterations to approved buildings, site placement of relocatable buildings, and construction of minor structures.
 4. Class 4: May inspect site placement of relocatable buildings and associated site work.
- C. Duties of the Inspector of Record: Duties of the Inspector of Record shall be as stated in the California Code of Regulations, Title 24, Part 1, 2022 California Administrative Code, Sections 4-333(b) and 4-342, and include the following:
 1. Provide continuous inspection of the work.

2. Maintain files and records of approved plans and specifications including addenda and change orders.
3. Prepare semi-monthly reports of the progress of the work and submit copies to the Architect and the Division of the State Architect.
4. Notify the Division of the State Architect at the following times:
 - a. At the start of construction of the project or restart of construction if work has suspended for a period of 2 or more weeks.
 - b. At least 48 hours in advance of the time when foundation trenches will be complete, ready for footing forms.
 - c. At least 48 hours in advance of the first placement of foundation concrete and 24 hours in advance of any subsequent or significant concrete placement.
 - d. When all work on the project has been suspended for a period of more than 2 weeks.
5. Prepare and maintain records of certain phases of construction including but not limited to the following:
 - a. Concrete placing operations. Show date and time of placing concrete and the time and date of removal of forms in each portion of the structure.
 - b. Welding operations. The record shall include identification marks of welders, lists of defective welds, and manner of correction of defects.
6. Notify the Contractor, in writing, of any deviations from the approved construction documents.
7. Prepare and submit IOR's Verified Report as required by DSA.

1.8 TESTING AGENCY

- A. General: Where quality-control services are indicated as Owner's responsibility, Owner will engage a qualified testing agency to conduct tests and inspections required by authorities having jurisdiction. Testing agency shall be acceptable to Architect and the Division of the State Architect. Requirements for tests and testing agency shall be as stated in the California Code of Regulations, Title 24, Part 1, 2022 California Administrative Code, Section 4-335.
 1. Costs for testing agency services will be paid by the Owner.
 2. Costs for retesting and reinspecting construction that replaces or is necessitated by work that failed to comply with the Contract Documents will be paid by the Owner and the amount will be deducted from the Contract Sum by Change Order.
- B. Testing Agency Responsibilities: Cooperate with Architect and Contractor in performance of duties. Provide qualified personnel to perform required tests and inspections.
 1. Perform testing as required by the Contract Documents.
 2. Determine the location from which test samples will be taken and in which in-situ tests are conducted.

3. Taking all test specimens.
4. Prepare written reports of tests and inspections, and submit reports of each test, inspection, and similar quality-control service to Architect, Division of the State Architect, and Contractor.
5. Interpreting tests and inspections and stating in each report whether tested and inspected work complies with or deviates from the Contract Documents.
6. Notify Architect and Contractor promptly of irregularities or deficiencies observed in the Work during performance of its services.
7. Verifying that manufacturer maintains detailed fabrication and quality-control procedures and reviews the completeness and adequacy of those procedures to perform the Work.
8. Retesting and reinspecting corrected work.
9. Do not release, revoke, alter, or increase the Contract Document requirements or approve or accept any portion of the Work.
10. Do not perform any duties of Contractor.

1.9 CONTRACTOR REQUIREMENTS

- A. Contractor Responsibilities: Tests and inspections not explicitly assigned to Owner are Contractor's responsibility. Perform additional quality-control activities required to verify that the Work complies with requirements, whether specified or not.
 1. Unless otherwise indicated, provide quality-control services specified and those required by authorities having jurisdiction. Perform quality-control services required of Contractor by authorities having jurisdiction, whether specified or not.
 2. Where services are indicated as Contractor's responsibility, engage a qualified testing agency to perform these quality-control services.
 - a. Contractor shall not employ same entity engaged by Owner, unless agreed to in writing by Owner.
 3. Notify testing agencies at least 24 hours in advance of time when Work that requires testing or inspecting will be performed.
 4. Where quality-control services are indicated as Contractor's responsibility, submit a certified written report, in duplicate, of each quality-control service.
 5. Testing and inspecting requested by Contractor and not required by the Contract Documents are Contractor's responsibility.
 6. Submit additional copies of each written report directly to authorities having jurisdiction, when they so direct.
 7. Cooperate with agencies performing required tests, inspections, and similar quality-control services, and provide reasonable auxiliary services as requested. Notify agency sufficiently in advance of operations to permit assignment of personnel. Provide the following:
 - a. Access to the Work.
 - b. Incidental labor and facilities necessary to facilitate tests and inspections.
 - c. Adequate quantities of representative samples of materials that require testing and inspecting. Assist agency in obtaining samples.
 - d. Facilities for storage and field curing of test samples.

- e. Preliminary design mix proposed for use for material mixes that require control by testing agency.
 - f. Security and protection for samples and for testing and inspecting equipment at Project site.
- 8. Coordinate sequence of activities to accommodate required quality-assurance and control services with a minimum of delay and to avoid necessity of removing and replacing construction to accommodate testing and inspecting.
 - a. Schedule times for tests, inspections, obtaining samples, and similar activities.
- B. Manufacturer's Field Services: Where indicated, engage a factory-authorized service representative to inspect field-assembled components and equipment installation, including service connections. Report results in writing as specified in Division 01 Section "Submittal Procedures."
- C. Manufacturer's Technical Services: Where indicated, engage a manufacturer's technical representative to observe and inspect the Work. Manufacturer's technical representative's services include participation in preinstallation conferences, examination of substrates and conditions, verification of materials, observation of Installer activities, inspection of completed portions of the Work, and submittal of written reports.

1.10 TESTS AND INSPECTIONS

- A. Structural Tests and Inspections shall be as specified in Division 02 through 33 Sections for specific materials and as required by form DSA-103 which lists tests and inspections required by DSA as applicable to Project conditions.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 TEST AND INSPECTION LOG

- A. Test and Inspection Log: Prepare a record of tests and inspections. Include the following:
 - 1. Date test or inspection was conducted.
 - 2. Description of the Work tested or inspected.
 - 3. Date test or inspection results were transmitted to Architect.
 - 4. Identification of testing agency or special inspector conducting test or inspection.
- B. Maintain log at Project site. Post changes and revisions as they occur. Provide access to test and inspection log for Architect's reference during normal working hours.

3.2 REPAIR AND PROTECTION

- A. General: On completion of testing, inspecting, sample taking, and similar services, repair damaged construction and restore substrates and finishes.
 - 1. Provide materials and comply with installation requirements specified in other Specification Sections or matching existing substrates and finishes. Restore patched areas and extend restoration into adjoining areas with durable seams that are as invisible as possible. Comply with the Contract Document requirements for cutting and patching in Division 01 Section "Execution."
- B. Protect construction exposed by or for quality-control service activities.
- C. Repair and protection are Contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

END OF SECTION

SECTION 014200 REFERENCES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 DEFINITIONS

- A. General: Basic Contract definitions are included in the Conditions of the Contract.
- B. "Approved": When used to convey Architect's action on Contractor's submittals, applications, and requests, "approved" is limited to Architect's duties and responsibilities as stated in the Conditions of the Contract. Architect's approval does not release the Contractor from the responsibility to fulfill Contract requirements.
- C. "Directed": A command or instruction by Architect. Other terms including "requested," "authorized," "selected," "required," and "permitted" have the same meaning as "directed."
- D. "Indicated": Requirements expressed by graphic representations or in written form on Drawings, in Specifications, and in other Contract Documents. Other terms including "shown," "noted," "scheduled," and "specified" have the same meaning as "indicated."
- E. "Regulations": Laws, ordinances, statutes, and lawful orders issued by authorities having jurisdiction, and rules, conventions, and agreements within the construction industry that control performance of the Work.
- F. "Furnish": Supply and deliver to Project site, ready for unloading, unpacking, assembly, installation, and similar operations.
- G. "Install": Unload, temporarily store, unpack, assemble, erect, place, anchor, apply, work to dimension, finish, cure, protect, clean, and similar operations at Project site.
- H. "Provide": Furnish and install, complete and ready for the intended use.
- I. "Project Site": Space available for performing construction activities. The extent of Project site is shown on Drawings and may or may not be identical with the description of the land on which Project is to be built.

1.3 INDUSTRY STANDARDS

- A. Applicability of Standards: Unless the Contract Documents include more stringent requirements, applicable construction industry standards have the same force and

effect as if bound or copied directly into the Contract Documents to the extent referenced. Such standards are made a part of the Contract Documents by reference.

- B. Publication Dates: Comply with standards in effect as of date of the Contract Documents unless otherwise indicated.
- C. Copies of Standards: Each entity engaged in construction on Project should be familiar with industry standards applicable to its construction activity. Copies of applicable standards are not bound with the Contract Documents.
 - 1. Where copies of standards are needed to perform a required construction activity, obtain copies directly from publication source.

1.4 ABBREVIATIONS AND ACRONYMS

- A. Industry Organizations: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities in the following list. This information is subject to change and is believed to be accurate as of the date of the Contract Documents.

- 1. AABC - Associated Air Balance Council; www.aabc.com.
- 2. AAMA - American Architectural Manufacturers Association; www.aamanet.org.
- 3. AAPFCO - Association of American Plant Food Control Officials; www.aapfco.org.
- 4. AASHTO - American Association of State Highway and Transportation Officials; www.transportation.org.
- 5. AATCC - American Association of Textile Chemists and Colorists; www.aatcc.org.
- 6. ABMA - American Bearing Manufacturers Association; www.americanbearings.org.
- 7. ABMA - American Boiler Manufacturers Association; www.abma.com.
- 8. ACI - American Concrete Institute; (Formerly: ACI International); www.abma.com.
- 9. ACPA - American Concrete Pipe Association; www.concrete-pipe.org.
- 10. AEIC - Association of Edison Illuminating Companies, Inc. (The); www.aeic.org.
- 11. AF&PA - American Forest & Paper Association; www.afandpa.org.
- 12. AGA - American Gas Association; www.aga.org.
- 13. AHAM - Association of Home Appliance Manufacturers; www.aham.org.
- 14. AHRI - Air-Conditioning, Heating, and Refrigeration Institute (The); www.ahrinet.org.
- 15. AI - Asphalt Institute; www.asphaltinstitute.org.
- 16. AIA - American Institute of Architects (The); www.aia.org.
- 17. AISC - American Institute of Steel Construction; www.aisc.org.
- 18. AISI - American Iron and Steel Institute; www.steel.org.
- 19. AITC - American Institute of Timber Construction; www.aitc-glulam.org.
- 20. AMCA - Air Movement and Control Association International, Inc.; www.amca.org.
- 21. ANSI - American National Standards Institute; www.ansi.org.
- 22. AOSA - Association of Official Seed Analysts, Inc.; www.aosaseed.com.
- 23. APA - APA - The Engineered Wood Association; www.apawood.org.

24. APA - Architectural Precast Association; www.archprecast.org.
25. API - American Petroleum Institute; www.api.org.
26. ARI - Air-Conditioning & Refrigeration Institute; (See AHRI).
27. ARI - American Refrigeration Institute; (See AHRI).
28. ARMA - Asphalt Roofing Manufacturers Association; www.asphaltroofing.org.
29. ASCE - American Society of Civil Engineers; www.asce.org.
30. ASCE/SEI - American Society of Civil Engineers/Structural Engineering Institute; (See ASCE).
31. ASHRAE - American Society of Heating, Refrigerating and Air-Conditioning Engineers; www.ashrae.org.
32. ASME - ASME International; (American Society of Mechanical Engineers); www.asme.org.
33. ASSE - American Society of Safety Engineers (The); www.asse.org.
34. ASSE - American Society of Sanitary Engineering; www.asse-plumbing.org.
35. ASTM - ASTM International; www.astm.org.
36. ATIS - Alliance for Telecommunications Industry Solutions; www.atis.org.
37. AWEA - American Wind Energy Association; www.awea.org.
38. AWI - Architectural Woodwork Institute; www.awinet.org.
39. AWMAC - Architectural Woodwork Manufacturers Association of Canada; www.awmac.com.
40. AWPA - American Wood Protection Association; www.awpa.com.
41. AWS - American Welding Society; www.aws.org.
42. AWWA - American Water Works Association; www.awwa.org.
43. BHMA - Builders Hardware Manufacturers Association; www.buildershardware.com.
44. BIA - Brick Industry Association (The); www.gobrick.com.
45. BICSI - BICSI, Inc.; www.bicsi.org.
46. BIFMA - BIFMA International; (Business and Institutional Furniture Manufacturer's Association); www.bifma.org.
47. BISSC - Baking Industry Sanitation Standards Committee; www.bissc.org.
48. BWF - Badminton World Federation; (Formerly: International Badminton Federation); www.bissc.org.
49. CDA - Copper Development Association; www.copper.org.
50. CEA - Canadian Electricity Association; www.electricity.ca.
51. CEA - Consumer Electronics Association; www.ce.org.
52. CFFA - Chemical Fabrics and Film Association, Inc.; www.chemicalfabricsandfilm.com.
53. CFSEI - Cold-Formed Steel Engineers Institute; www.cfsei.org.
54. CGA - Compressed Gas Association; www.cganet.com.
55. CIMA - Cellulose Insulation Manufacturers Association; www.cellulose.org.
56. CISCA - Ceilings & Interior Systems Construction Association; www.cisca.org.
57. CISPI - Cast Iron Soil Pipe Institute; www.cispi.org.
58. CLFMI - Chain Link Fence Manufacturers Institute; www.chainlinkinfo.org.
59. CPA - Composite Panel Association; www.pbmdf.com.
60. CRI - Carpet and Rug Institute (The); www.carpet-rug.org.
61. CRRC - Cool Roof Rating Council; www.coolroofs.org.
62. CRSI - Concrete Reinforcing Steel Institute; www.crsi.org.
63. CSA - Canadian Standards Association; www.csa.ca.
64. CSA - CSA International; (Formerly: IAS - International Approval Services); www.csa-international.org.
65. CSI - Construction Specifications Institute (The); www.csinet.org.

66. CSSB - Cedar Shake & Shingle Bureau; www.cedarbureau.org.
67. CTI - Cooling Technology Institute; (Formerly: Cooling Tower Institute); www.cti.org.
68. CWC - Composite Wood Council; (See CPA).
69. DASMA - Door and Access Systems Manufacturers Association; www.dasma.com.
70. DHI - Door and Hardware Institute; www.dhi.org.
71. ECA - Electronic Components Association; (See ECIA).
72. ECAMA - Electronic Components Assemblies & Materials Association; (See ECIA).
73. ECIA - Electronic Components Industry Association; www.eciaonline.org.
74. EIA - Electronic Industries Alliance; (See TIA).
75. EIMA - EIFS Industry Members Association; www.eima.com.
76. EJMA - Expansion Joint Manufacturers Association, Inc.; www.ejma.org.
77. ESD - ESD Association; (Electrostatic Discharge Association); www.esda.org.
78. ESTA - Entertainment Services and Technology Association; (See PLASA).
79. EVO - Efficiency Valuation Organization; www.evo-world.org.
80. FCI - Fluid Controls Institute; www.fluidcontrolsinstitute.org.
81. FIBA - Federation Internationale de Basketball; (The International Basketball Federation); www.fiba.com.
82. FIVB - Federation Internationale de Volleyball; (The International Volleyball Federation); www.fivb.org.
83. FM Approvals - FM Approvals LLC; www.fmglobal.com.
84. FM Global - FM Global; (Formerly: FMG - FM Global); www.fmglobal.com.
85. FRSA - Florida Roofing, Sheet Metal & Air Conditioning Contractors Association, Inc.; www.floridarroof.com.
86. FSA - Fluid Sealing Association; www.fluidsealing.com.
87. FSC - Forest Stewardship Council U.S.; www.fscus.org.
88. GA - Gypsum Association; www.gypsum.org.
89. GANA - Glass Association of North America; www.glasswebsite.com.
90. GS - Green Seal; www.greenseal.org.
91. HI - Hydraulic Institute; www.pumps.org.
92. HI/GAMA - Hydronics Institute/Gas Appliance Manufacturers Association; (See AHRI).
93. HMMA - Hollow Metal Manufacturers Association; (See NAAMM).
94. HPVA - Hardwood Plywood & Veneer Association; www.hpva.org.
95. HPW - H. P. White Laboratory, Inc.; www.hpwhite.com.
96. IAPSC - International Association of Professional Security Consultants; www.iapsc.org.
97. IAS - International Accreditation Service; www.iasonline.org.
98. IAS - International Approval Services; (See CSA).
99. ICBO - International Conference of Building Officials; (See ICC).
100. ICC - International Code Council; www.iccsafe.org.
101. ICEA - Insulated Cable Engineers Association, Inc.; www.icea.net.
102. ICPA - International Cast Polymer Alliance; www.icpa-hq.org.
103. ICRI - International Concrete Repair Institute, Inc.; www.icri.org.
104. IEC - International Electrotechnical Commission; www.iec.ch.
105. IEEE - Institute of Electrical and Electronics Engineers, Inc. (The); www.ieee.org.
106. IES - Illuminating Engineering Society; (Formerly: Illuminating Engineering Society of North America); www.ies.org.
107. IESNA - Illuminating Engineering Society of North America; (See IES).

108. IEST - Institute of Environmental Sciences and Technology; www.iest.org.
109. IGMA - Insulating Glass Manufacturers Alliance; www.igmaonline.org.
110. IGSHPA - International Ground Source Heat Pump Association; www.igshpa.okstate.edu.
111. ILI - Indiana Limestone Institute of America, Inc.; www.ili.ai.com.
112. Intertek - Intertek Group; (Formerly: ETL SEMCO; Intertek Testing Service NA); www.intertek.com.
113. ISA - International Society of Automation (The); (Formerly: Instrumentation, Systems, and Automation Society); www.isa.org.
114. ISAS - Instrumentation, Systems, and Automation Society (The); (See ISA).
115. ISFA - International Surface Fabricators Association; (Formerly: International Solid Surface Fabricators Association); www.isfanow.org.
116. ISO - International Organization for Standardization; www.iso.org.
117. ISSFA - International Solid Surface Fabricators Association; (See ISFA).
118. ITU - International Telecommunication Union; www.itu.int/home.
119. KCMA - Kitchen Cabinet Manufacturers Association; www.kcma.org.
120. LMA - Laminating Materials Association; (See CPA).
121. LPI - Lightning Protection Institute; www.lightning.org.
122. MBMA - Metal Building Manufacturers Association; www.mbma.com.
123. MCA - Metal Construction Association; www.metalconstruction.org.
124. MFMA - Maple Flooring Manufacturers Association, Inc.; www.maplefloor.org.
125. MFMA - Metal Framing Manufacturers Association, Inc.; www.metalframingmfg.org.
126. MHIA - Material Handling Industry of America; www.mhia.org.
127. MIA - Marble Institute of America; www.marble-institute.com.
128. MMPA - Moulding & Millwork Producers Association; www.wmmpa.com.
129. MPI - Master Painters Institute; www.paintinfo.com.
130. MSS - Manufacturers Standardization Society of The Valve and Fittings Industry Inc.; www.mss-hq.org.
131. NAAMM - National Association of Architectural Metal Manufacturers; www.naamm.org.
132. NACE - NACE International; (National Association of Corrosion Engineers International); www.nace.org.
133. NADCA - National Air Duct Cleaners Association; www.nadca.com.
134. NAIMA - North American Insulation Manufacturers Association; www.naima.org.
135. NBGQA - National Building Granite Quarries Association, Inc.; www.nbgqa.com.
136. NBI - New Buildings Institute; www.newbuildings.org.
137. NCAA - National Collegiate Athletic Association (The); www.ncaa.org.
138. NCMA - National Concrete Masonry Association; www.ncma.org.
139. NEBB - National Environmental Balancing Bureau; www.nebb.org.
140. NECA - National Electrical Contractors Association; www.necanet.org.
141. NeLMA - Northeastern Lumber Manufacturers Association; www.nelma.org.
142. NEMA - National Electrical Manufacturers Association; www.nema.org.
143. NETA - InterNational Electrical Testing Association; www.netaworld.org.
144. NFHS - National Federation of State High School Associations; www.nfhs.org.
145. NFPA - National Fire Protection Association; www.nfpa.org.
146. NFPA - NFPA International; (See NFPA).
147. NFRC - National Fenestration Rating Council; www.nfrc.org.
148. NHLA - National Hardwood Lumber Association; www.nhla.com.
149. NLGA - National Lumber Grades Authority; www.nlga.org.
150. NOFMA - National Oak Flooring Manufacturers Association; (See NWFA).

151. NOMMA - National Ornamental & Miscellaneous Metals Association; www.nomma.org.
152. NRCA - National Roofing Contractors Association; www.nrca.net.
153. NRMCA - National Ready Mixed Concrete Association; www.nrmca.org.
154. NSF - NSF International; www.nsf.org.
155. NSPE - National Society of Professional Engineers; www.nspe.org.
156. NSSGA - National Stone, Sand & Gravel Association; www.nssga.org.
157. NTMA - National Terrazzo & Mosaic Association, Inc. (The); www.ntma.com.
158. NWFA - National Wood Flooring Association; www.nwfa.org.
159. PCI - Precast/Prestressed Concrete Institute; www.pci.org.
160. PDI - Plumbing & Drainage Institute; www.pdionline.org.
161. PLASA - PLASA; (Formerly: ESTA - Entertainment Services and Technology Association); www.plasa.org.
162. RCSC - Research Council on Structural Connections; www.boltcouncil.org.
163. RFCI - Resilient Floor Covering Institute; www.rfci.com.
164. RIS - Redwood Inspection Service; www.redwoodinspection.com.
165. SAE - SAE International; www.sae.org.
166. SCTE - Society of Cable Telecommunications Engineers; www.scte.org.
167. SDI - Steel Deck Institute; www.sdi.org.
168. SDI - Steel Door Institute; www.steeldoor.org.
169. SEFA - Scientific Equipment and Furniture Association (The); www.sefalabs.com.
170. SEI/ASCE - Structural Engineering Institute/American Society of Civil Engineers; (See ASCE).
171. SIA - Security Industry Association; www.siaonline.org.
172. SJI - Steel Joist Institute; www.steeljoist.org.
173. SMA - Screen Manufacturers Association; www.smainfo.org.
174. SMACNA - Sheet Metal and Air Conditioning Contractors' National Association; www.smacna.org.
175. SMPTE - Society of Motion Picture and Television Engineers; www.smpte.org.
176. SPFA - Spray Polyurethane Foam Alliance; www.sprayfoam.org.
177. SPIB - Southern Pine Inspection Bureau; www.spib.org.
178. SPRI - Single Ply Roofing Industry; www.spri.org.
179. SRCC - Solar Rating & Certification Corporation; www.solar-rating.org.
180. SSINA - Specialty Steel Industry of North America; www.ssina.com.
181. SSPC - SSPC: The Society for Protective Coatings; www.sspc.org.
182. STI - Steel Tank Institute; www.steeltank.com.
183. SWI - Steel Window Institute; www.steelwindows.com.
184. SWPA - Submersible Wastewater Pump Association; www.swpa.org.
185. TCA - Tilt-Up Concrete Association; www.tilt-up.org.
186. TCNA - Tile Council of North America, Inc.; www.tileusa.com.
187. TEMA - Tubular Exchanger Manufacturers Association, Inc.; www.tema.org.
188. TIA - Telecommunications Industry Association (The); (Formerly: TIA/EIA - Telecommunications Industry Association/Electronic Industries Alliance); www.tiaonline.org.
189. TIA/EIA - Telecommunications Industry Association/Electronic Industries Alliance; (See TIA).
190. TMS - The Masonry Society; www.masonrysociety.org.
191. TPI - Truss Plate Institute; www.tpinst.org.
192. TPI - Turfgrass Producers International; www.turfgrasssod.org.
193. TRI - Tile Roofing Institute; www.tilerroofing.org.

194. UL - Underwriters Laboratories Inc.; www.ul.com.
195. UNI - Uni-Bell PVC Pipe Association; www.uni-bell.org.
196. USAV - USA Volleyball; www.usavolleyball.org.
197. USGBC - U.S. Green Building Council; www.usgbc.org.
198. USITT - United States Institute for Theatre Technology, Inc.; www.usitt.org.
199. WASTEC - Waste Equipment Technology Association; www.wastec.org.
200. WCLIB - West Coast Lumber Inspection Bureau; www.wclib.org.
201. WCMA - Window Covering Manufacturers Association; www.wcmanet.org.
202. WDMA - Window & Door Manufacturers Association; www.wdma.com.
203. WI - Woodwork Institute; www.wicnet.org.
204. WSRCA - Western States Roofing Contractors Association; www.wsrca.com.
205. WWPA - Western Wood Products Association; www.wwpa.org.

B. Code Agencies: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities in the following list. This information is believed to be accurate as of the date of the Contract Documents.

1. DIN - Deutsches Institut für Normung e.V.; www.din.de.
2. IAPMO - International Association of Plumbing and Mechanical Officials; www.iapmo.org.
3. ICC - International Code Council; www.iccsafe.org.
4. ICC-ES - ICC Evaluation Service, LLC; www.icc-es.org.

C. Federal Government Agencies: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities in the following list. Information is subject to change and is up to date as of the date of the Contract Documents.

1. COE - Army Corps of Engineers; www.usace.army.mil.
2. CPSC - Consumer Product Safety Commission; www.cpsc.gov.
3. DOC - Department of Commerce; National Institute of Standards and Technology; www.nist.gov.
4. DOD - Department of Defense; www.quicksearch.dla.mil.
5. DOE - Department of Energy; www.energy.gov.
6. EPA - Environmental Protection Agency; www.epa.gov.
7. FAA - Federal Aviation Administration; www.faa.gov.
8. FG - Federal Government Publications; www.gpo.gov.
9. GSA - General Services Administration; www.gsa.gov.
10. HUD - Department of Housing and Urban Development; www.hud.gov.
11. LBL - Lawrence Berkeley National Laboratory; Environmental Energy Technologies Division; www.eetd.lbl.gov.
12. OSHA - Occupational Safety & Health Administration; www.osha.gov.
13. SD - Department of State; www.state.gov.
14. TRB - Transportation Research Board; National Cooperative Highway Research Program; The National Academies; www.trb.org.
15. USDA - Department of Agriculture; Agriculture Research Service; U.S. Salinity Laboratory; www.ars.usda.gov.
16. USDA - Department of Agriculture; Rural Utilities Service; www.usda.gov.
17. USDJ - Department of Justice; Office of Justice Programs; National Institute of Justice; www.ojp.usdoj.gov.

18. USP - U.S. Pharmacopeial Convention; www.usp.org.
19. USPS - United States Postal Service; www.usps.com.

D. Standards and Regulations: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the standards and regulations in the following list. This information is subject to change and is believed to be accurate as of the date of the Contract Documents.

1. CFR - Code of Federal Regulations; Available from Government Printing Office; www.gpo.gov/fdsys.
2. DOD - Department of Defense; Military Specifications and Standards; Available from DLA Document Services; www.quicksearch.dla.mil.
3. DSCC - Defense Supply Center Columbus; (See FS).
4. FED-STD - Federal Standard; (See FS).
5. FS - Federal Specification; Available from DLA Document Services; www.quicksearch.dla.mil.
 - a. Available from Defense Standardization Program; www.dsp.dla.mil.
 - b. Available from General Services Administration; www.gsa.gov.
 - c. Available from National Institute of Building Sciences/Whole Building Design Guide; www.wbdg.org/ccb.
6. MILSPEC - Military Specification and Standards; (See DOD).
7. USAB - United States Access Board; www.access-board.gov.
8. USATBCB - U.S. Architectural & Transportation Barriers Compliance Board; (See USAB).

E. State Government Agencies: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities in the following list. This information is subject to change and is believed to be accurate as of the date of the Contract Documents.

1. CBHF; State of California; Department of Consumer Affairs; Bureau of Electronic and Appliance Repair, Home Furnishings and Thermal Insulation; www.bearhfti.ca.gov.
2. CCR; California Code of Regulations; Office of Administrative Law; California Title 24 Energy Code; www.calregs.com.
3. CDHS; California Department of Health Services; (See CDPH).
4. CDPH; California Department of Public Health; Indoor Air Quality Program; www.cal-iaq.org.
5. CPUC; California Public Utilities Commission; www.cpuc.ca.gov.
6. SCAQMD; South Coast Air Quality Management District; www.aqmd.gov.
7. TFS; Texas A&M Forest Service; Sustainable Forestry and Economic Development; www.txforestservice.tamu.edu.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 015000
TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes requirements for temporary utilities, support facilities, and security and protection facilities.
- B. Related Requirements:
 - 1. Division 01 Section "Summary" for work restrictions and limitations on utility interruptions.
 - 2. Division 01 Section "Fire Safety During Construction" for fire safety requirements during construction.

1.3 USE CHARGES

- A. General: Installation, removal, and use charges for temporary facilities shall be included in the Contract Sum unless otherwise indicated. Allow other entities to use temporary services and facilities without cost, including, but not limited to Owner, Architect, testing agencies, and authorities having jurisdiction.
- B. Water Service from Existing System: Water from Owner's existing water system is available for use; provide connections and extensions of services as required for construction operations.
 - 1. Water service is available for use without metering and without payment of use charges.
- C. Electric Power Service from Existing System: Electric power from Owner's existing system is available for use; provide connections and extensions of services as required for construction operations.
 - 1. Electric power service is available for use without metering and without payment of use charges.

1.4 QUALITY ASSURANCE

- A. Electric Service: Comply with NECA, NEMA, and UL standards and regulations for temporary electric service. Install service to comply with CEC.
- B. Tests and Inspections: Arrange for authorities having jurisdiction to test and inspect each temporary utility before use. Obtain required certifications and permits.

1.5 REGULATORY REQUIREMENTS

- A. Regulatory Requirements: Comply with industry standards and applicable laws and regulations of authorities having jurisdiction including, but not limited to, the following:
 - 1. California Code of Regulations, Title 24, California Code requirements as applicable to the project.
 - 2. Health and safety regulations.
 - 3. Utility company regulations.
 - 4. Police, fire department, and rescue squad rules.
 - 5. Environmental protection regulations.
 - 6. Comply with NFPA 241 "Standard for Safeguarding Construction, Alterations, and Demolition Operations," ANSI A10 Series standards for "Safety Requirements for Construction and Demolition," and NECA Electrical Design Library "Temporary Electrical Facilities."

1.6 PROJECT CONDITIONS

- A. Temporary Use of Permanent Facilities: Engage Installer of each permanent service to assume responsibility for operation, maintenance, and protection of each permanent service during its use as a construction facility before Owner's acceptance, regardless of previously assigned responsibilities.
- B. Conditions of Use: Keep temporary services and facilities clean and neat in appearance. Operate in a safe and efficient manner. Relocate temporary services and facilities as the Work progresses. Do not overload facilities or permit them to interfere with progress. Take necessary fire-prevention measures. Do not allow hazardous, dangerous, or unsanitary conditions, or public nuisances to develop or persist on-site.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. General: Materials for temporary facilities shall be acceptable to Architect, Owner, and Authorities having Jurisdiction (AHJ), shall be appropriate for intended use, and shall comply with governing codes and regulations.
- B. Portable Chain-Link Fencing: Minimum 2-inch, 0.148-inch thick, galvanized-steel, chain-link fabric fencing; minimum 6 feet high with galvanized-steel pipe posts. Provide concrete or galvanized-steel bases for supporting posts.

- C. Fencing Windscreen: Polyester fabric scrim with grommets for attachment to chain link fence, size and color as acceptable to, or required by, authorities having jurisdiction.
- D. Polyethylene Sheet: Reinforced, fire-resistive sheet, 10-mil minimum thickness, with flame-spread rating of 15 or less per ASTM E 84 and passing NFPA 701 Test Method 2.

2.2 TEMPORARY FIELD OFFICE FACILITIES

- A. Field Offices, General: Prefabricated or mobile units having weatherproof exteriors, lockable doors and windows, and with serviceable finishes, temperature controls, and foundations adequate for normal loading.
- B. Contractor's Field Office: Of sufficient size to accommodate needs of Contractor, Owner, Architect, construction personnel office activities, and to accommodate Project meetings specified in other Division 01 Sections. Keep office clean and orderly. Furnish and equip offices as follows:
 - 1. Furniture necessary for use and storage of Project documents including file cabinets, plan tables, plan racks, and bookcases.
 - 2. Conference room or area of sufficient size to accommodate meetings of 10 individuals; furnish with conference table, chairs, and 4-foot square tack and marker boards.
 - 3. Electrical power service, 120-VAC, with no fewer than one duplex receptacle on each wall.
 - 4. Heating and cooling equipment necessary to maintain a uniform indoor temperature of 68 to 78 deg F.
 - 5. Lighting fixtures capable of maintaining average illumination of 20 fc at desk height.
 - 6. Communication Service and Equipment: Equip field office with phone and internet services and equipment adequate for project conditions and for use by Contractor, Architect, and Owner to access Project electronic documents and maintain electronic communications.
 - a. Provide superintendent with cellular telephone or portable two-way radio for use when away from field office.
 - b. Equip office with not less than the following:
 - 1) Desktop computer with capabilities compatible with Architect's requirements. Provide external hard drive backup.
 - 2) Printer/Copier/Scanner: Single or multiple units as needed to accommodate color printing, photocopying, and scanning.
- C. Inspector of Record Field Office: Contractor shall provide temporary office facilities for the Owner's Inspector of Record (IOR). Temporary facilities shall be of sufficient size to accommodate the needs of the IOR and associated project records. IOR facilities shall be provided with its own lockable exterior access, if interconnected with Contractor's facilities, a lockable door, controlled from the IOR side, shall be provided between the spaces. Furnish and equip office as follows:

1. Plan/layout table, 30 by 72 inches minimum.
2. File cabinets having a total capacity of not less than eight (8) legal size file drawers.
3. Open shelving/book case, 48 inches minimum in total shelving width.
4. Desk and Chair.
5. Plan rack.
6. Internet service.
7. Heating and cooling equipment necessary to maintain a uniform indoor temperature of 68 to 78 deg F.
8. Lighting fixtures capable of maintaining average illumination of 20 fc at desk height.

2.3 TEMPORARY STORAGE FACILITIES

- A. Storage and Fabrication Sheds: Provide sheds sized, furnished, and equipped to accommodate materials and equipment for construction operations.
1. Store combustible materials apart from buildings.

2.4 TEMPORARY SANITARY FACILITIES

- A. Sanitary Facilities: Provide temporary toilets, wash facilities, and drinking water for use by construction and related administrative personnel. Comply with requirements of authorities having jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities. Temporary toilets shall be self-contained, single-occupant units of the chemical, aerated recirculation type; provide units properly vented and fully enclosed with a glass-fiber-reinforced polyester shell or similar nonabsorbent material. Use of Owner's sanitary facilities is not permitted.
1. Accessible Sanitary Facilities: Sanitary facilities serving support facilities such as offices, meeting rooms, plan rooms, and serving personnel not directly associated with the actual processes of construction shall be accessible for a person using a wheelchair and shall comply with CBC Section 11B-213 (Ref. CBC 11B-201.4).

2.5 EQUIPMENT

- A. Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.
1. Comply with NFPA 10 and NFPA 241 for classification, extinguishing agent, and size required by location and class of fire exposure.
- B. HVAC Equipment: Unless Owner authorizes use of permanent HVAC system, provide vented, self-contained, liquid-propane-gas heaters with individual space thermostatic control.

1. Use of gasoline-burning space heaters, open-flame heaters, or salamander-type heating units is prohibited.
2. Heating Units: Listed and labeled for type of fuel being consumed, by a qualified testing agency acceptable to authorities having jurisdiction, and marked for intended location and application.
3. Permanent HVAC System: If Owner authorizes use of permanent HVAC system for temporary use during construction, provide filter with MERV of 8 at each return-air grille in system and remove at end of construction and clean HVAC system as required in Division 01 Section "Closeout Procedures."

PART 3 - EXECUTION

3.1 TEMPORARY FACILITIES, GENERAL

- A. Conservation: Coordinate construction and use of temporary facilities with consideration given to conservation of energy, water, and materials. Coordinate use of temporary utilities to minimize waste.

3.2 INSTALLATION, GENERAL

- A. Locate facilities at locations directed by the Owner where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work.
- B. Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.

3.3 TEMPORARY UTILITIES AND BUILDING HVAC

- A. General: Install temporary service or connect to existing service.
 1. Arrange with utility company, Owner, and existing users for time when service can be interrupted, if necessary, to make connections for temporary services.
- B. Sewers and Drainage: Provide temporary utilities to remove effluent lawfully.
 1. Connect temporary sewers to private or municipal system as indicated on Drawings and as directed by authorities having jurisdiction.
- C. Water Service: Install water service and distribution piping in sizes and pressures adequate for construction.
 1. Existing Water Service: Where connection to Owner's existing water service is available and allowed, clean and maintain water service facilities in a condition acceptable to Owner. At Substantial Completion, restore these facilities to condition existing before initial use.

- D. Heating and Cooling: Provide temporary heating and cooling required by construction activities for curing or drying of completed installations or for protecting installed construction from adverse effects of low temperatures or high humidity. Select equipment that will not have a harmful effect on completed installations or elements being installed.
 - 1. Provide temporary dehumidification systems when required to reduce ambient and substrate moisture levels to level required to allow installation or application of finishes and their proper curing or drying.
- E. Isolation of Work Areas in Occupied Facilities: Prevent dust, fumes, and odors from entering occupied areas.
 - 1. Maintain dust partitions during the Work. Use vacuum collection attachments on dust-producing equipment. Isolate limited work within occupied areas using portable dust-containment devices.
 - 2. Perform daily construction cleanup and final cleanup using approved, HEPA-filter-equipped vacuum equipment.
- F. Ventilation and Humidity Control: Provide temporary ventilation required by construction activities for curing or drying of completed installations or for protecting installed construction from adverse effects of high humidity. Select equipment that will not have a harmful effect on completed installations or elements being installed. Coordinate ventilation requirements to produce ambient condition required and minimize energy consumption.
 - 1. Provide dehumidification systems when required to reduce substrate moisture levels to level required to allow installation or application of finishes.
- G. Electric Power Service: Provide electric power service and distribution system of sufficient size, capacity, and power characteristics required for construction operations.
 - 1. Where temporary power service is required, install electric power service overhead unless otherwise indicated.
 - 2. Where Owner's existing power service is available, connect temporary service to Owner's existing power source, as directed by Owner, maintain equipment in a condition acceptable to Owner.
- H. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction operations, observations, inspections, and traffic conditions.
 - 1. Install and operate temporary lighting that fulfills security and protection requirements without operating entire system.
- I. Telephone Service: Provide temporary telephone service of sufficient size, capacity, and power characteristics required for construction operations in common-use facilities for use by all construction personnel. Install WiFi cell phone access equipment for each field office.

1. Post a list of important telephone numbers at a conspicuous location, include the following:
 - a. Police and fire departments.
 - b. Ambulance service.
 - c. Contractor's home office.
 - d. Contractor's emergency after-hours telephone number.
 - e. Architect's office.
 - f. Engineers' offices.
 - g. Owner's office.
 - h. Principal subcontractors' field and home offices.

3.4 SUPPORT FACILITIES INSTALLATION

- A. General: Locate storage containers, and other temporary construction and support facilities for easy access in the areas designated and approved by the Architect and Owner. Comply with the following:
 1. Do not locate temporary offices, shops, and sheds within 30 feet of building lines.
 2. Maintain support facilities until Architect schedules Substantial Completion inspection. Remove before Substantial Completion. Personnel remaining after Substantial Completion will be permitted to use permanent facilities, under conditions acceptable to Owner.
- B. Traffic Controls: Comply with requirements of authorities having jurisdiction.
 1. Protect existing site improvements to remain including curbs, pavement, and utilities.
 2. Maintain access for fire-fighting equipment and access to fire hydrants.
- C. Parking: Parking areas for construction personnel shall be at location(s) as directed by Owner.
- D. Dewatering: Comply with requirements of authorities having jurisdiction. Maintain Project site, excavations, and construction free of water.
 1. Dispose of rainwater in a lawful manner that will not result in flooding Project or adjoining properties or endanger permanent Work or temporary facilities.
- E. Project Signs: Provide Project signs as indicated. Unauthorized signs are not permitted.
 1. Identification Signs: Provide Project identification signs as indicated on Drawings.
 2. Project Address Sign: Provide temporary project address sign as required by Authority having Jurisdiction.
 3. Temporary Signs: Provide other signs as indicated and as required to inform public and individuals seeking entrance to Project.
 - a. Provide temporary, directional signs for construction personnel and visitors.

4. Maintain and touchup signs so they are legible at all times.
- F. Waste Disposal Facilities: Provide waste-collection containers in sizes adequate to handle waste from construction operations.
1. Comply with requirements of the following:
 - a. Authorities having jurisdiction.
 - b. Division 01 Section "Execution" for progress cleaning.
 - c. Division 01 Section "Construction Waste Management and Disposal."
 2. Collect waste from construction areas and elsewhere daily. Comply with requirements of NFPA 241 for removal of combustible waste material and debris. Enforce requirements strictly. Do not hold materials more than 7 days during normal weather or 3 days when the temperature is expected to rise above 80 deg F. Handle hazardous, dangerous, or unsanitary waste materials separately from other waste by containerizing properly. Dispose of material lawfully.
- G. Lifts and Hoists: Provide facilities necessary for hoisting materials and personnel.
1. Truck cranes and similar devices used for hoisting materials are considered "tools and equipment" and not temporary facilities.

3.5 SECURITY AND PROTECTION FACILITIES INSTALLATION

- A. Protection of Existing Facilities: Protect existing vegetation, equipment, structures, utilities, and other improvements at Project site and on adjacent properties, except those indicated to be removed or altered. Repair damage to existing facilities.
- B. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction as required to comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
1. Comply with work restrictions specified in Division 01 Section "Summary."
- C. Temporary Erosion and Sedimentation Control: Provide measures to prevent soil erosion and discharge of soil-bearing water runoff and airborne dust to undisturbed areas and to adjacent properties and walkways, according to requirements erosion and sedimentation-control Drawings, EPA Construction General Permit, or authorities having jurisdiction, whichever is more stringent.
1. Verify that flows of water redirected from construction areas or generated by construction activity do not enter or cross tree or plant-protection zones.
 2. Inspect, repair, and maintain erosion and sedimentation-control measures during construction until permanent vegetation has been established.
 3. Clean, repair, and restore adjoining properties and roads affected by erosion and sedimentation from Project site during the course of Project.
 4. Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.

- D. Stormwater Control: Comply with requirements of authorities having jurisdiction. Provide barriers in and around excavations and subgrade construction to prevent flooding by runoff of stormwater from heavy rains.
- E. Tree and Plant Protection: Install temporary fencing located as indicated or outside the drip line of trees to protect vegetation from damage from construction operations. Protect tree root systems from damage, flooding, and erosion.
- F. Pest Control: Engage pest-control service to recommend practices to minimize attraction and harboring of rodents, roaches, and other pests and to perform extermination and control procedures at regular intervals so Project will be free of pests and their residues at Substantial Completion. Perform control operations lawfully, using environmentally safe materials.
- G. Security Enclosure Fence and Lockup: Before construction operations begin, furnish and install project enclosure fence in a manner that will prevent people and animals from easily entering the site except by entrance gates. Provide lockable entrances to prevent unauthorized entrance, vandalism, theft, and similar violations of security. Lock entrances at end of each work day.
 - 1. Extent of Fence: As required to enclose entire Project site or portion determined sufficient to accommodate construction operations.
- H. Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.
- I. Temporary Egress: Maintain temporary egress from existing occupied facilities as indicated and as required by authorities having jurisdiction.
- J. Temporary Enclosures: Provide temporary enclosures for protection of construction, in progress and completed, from exposure, foul weather, other construction operations, and similar activities. Provide temporary weathertight enclosure for building exterior.
 - 1. Where heating or cooling is needed and permanent enclosure is incomplete, insulate temporary enclosures.
- K. Temporary Fire Protection: Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241; manage fire-prevention program.
 - 1. Prohibit smoking in construction areas. Comply with additional limits on smoking specified in other Sections.
 - 2. Supervise welding operations, combustion-type temporary heating units, and similar sources of fire ignition according to requirements of authorities having jurisdiction.
 - 3. Develop and supervise an overall fire-prevention and protection program for personnel at Project site. Review needs with local fire department and establish procedures to be followed. Instruct personnel in methods and procedures. Post warnings and information.

3.6 MOISTURE AND MOLD CONTROL

- A. General: Avoid trapping water in finished work. Document visible signs of mold that may appear during construction.
- B. Exposed Construction Phase: Before installation of weather barriers, when materials are subject to wetting and exposure and to airborne mold spores, protect as follows:
 - 1. Protect porous materials from water damage.
 - 2. Protect stored and installed material from flowing or standing water.
 - 3. Keep porous and organic materials from coming into prolonged contact with concrete.
 - 4. Remove standing water from decks.
 - 5. Keep deck openings covered or dammed.
- C. Partially Enclosed Construction Phase: After installation of weather barriers but before full enclosure and conditioning of building, when installed materials are still subject to infiltration of moisture and ambient mold spores, protect as follows:
 - 1. Do not load or install drywall or other porous materials or components, or items with high organic content, into partially enclosed building.
 - 2. Keep interior spaces reasonably clean and protected from water damage.
 - 3. Periodically collect and remove waste containing cellulose or other organic matter.
 - 4. Discard or replace water-damaged material.
 - 5. Do not install material that is wet.
 - 6. Discard, replace, or clean stored or installed material that begins to grow mold.
 - 7. Perform work in a sequence that allows any wet materials adequate time to dry before enclosing the material in drywall or other interior finishes.
- D. Controlled Construction Phase of Construction: After completing and sealing of the building enclosure but prior to the full operation of permanent HVAC systems, maintain as follows:
 - 1. Control moisture and humidity inside building by maintaining effective dry-in conditions.
 - 2. Use temporary or permanent HVAC system to control humidity within ranges specified for installed and stored materials.
 - 3. Comply with manufacturer's written instructions for temperature, relative humidity, and exposure to water limits.
 - a. Hygroscopic materials that may support mold growth, including wood and gypsum-based products, that become wet during the course of construction and remain wet for 48 hours are considered defective and require replacing.
 - b. Measure moisture content of materials that have been exposed to moisture during construction operations or after installation. Record readings beginning at time of exposure and continuing daily for 48 hours. Identify materials containing moisture levels higher than allowed. Report findings in writing to Architect.

- c. Remove materials that cannot be completely restored to their manufactured moisture level within 48hours.

3.7 OPERATION, TERMINATION, AND REMOVAL

- A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.
- B. Maintenance: Maintain facilities in good operating condition until removal.
 - 1. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation, and similar facilities on a 24-hour basis where required to achieve indicated results and to avoid possibility of damage.
- C. Temporary Facility Changeover: Do not change over from using temporary security and protection facilities to permanent facilities until Substantial Completion.
- D. Termination and Removal: Remove each temporary facility when need for its service has ended, when it has been replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.
 - 1. Materials and facilities that constitute temporary facilities are property of Contractor. Owner reserves right to take possession of Project identification signs.
 - 2. during construction period. Comply with final cleaning requirements specified in Division 01 Section "Closeout Procedures."

END OF SECTION

SECTION 015116
FIRE SAFETY DURING CONSTRUCTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes requirements for fire safety during construction and demolition.
- B. Related Sections:
 - 1. Division 01 Section "Temporary Facilities and Controls" for additional facilities, requirements, and procedures required during construction.

1.3 SUBMITTALS

- A. Fire-Safety Program: Show compliance with requirements of NFPA 241 and authorities having jurisdiction. Indicate Contractor personnel responsible for management of fire-prevention program.

1.4 REGULATORY REQUIREMENTS

- A. Regulatory Requirements: Comply with applicable provisions of the following:
 - 1. NFPA 241.
 - 2. California Fire Code, 2022 Edition, Chapter 33 "Fire Safety During Construction and Demolition" and the 2022 Editions of the following California Codes as Referenced by the California Fire Code:
 - a. California Building Code (CBC).
 - b. California Mechanical Code (CMC).
 - c. California Plumbing Code (CPC).
 - d. California Electrical Code (CEC).
- B. Temporary Heating Equipment (CFC 3303):
 - 1. General: Temporary heating devices shall be listed and labeled in accordance with the California Mechanical Code. Installation, maintenance and use of temporary heating devices shall be in accordance with the terms of the listing.

2. LP-Gas heaters: Heating devices shall be temporary, self-contained, liquid-propane-gas heaters with individual space thermostatic control. Fuel supplies for liquefied petroleum gas fired heaters shall comply with the California Fire Code, Chapter 61 Liquefied Petroleum Gases, and the California Mechanical Code.
3. Refueling: Refueling operations for liquid fueled equipment or appliances shall be conducted in accordance with the California Fire Code, Section 5705. The equipment or appliance shall be allowed to cool prior to refueling.
4. Installation: Clearance to combustibles from temporary heating devices shall be maintained in accordance with the labeled equipment. When in operation, temporary heating devices shall be fixed in place and protected from damage, dislodgement or overturning in accordance with the manufacturer's instructions.
5. Supervision: The use of temporary heating devices shall be supervised and maintained only by competent personnel.
6. Use of gasoline-burning space heaters, open-flame heaters, or salamander-type heating units is prohibited.

C. Precautions Against Fire (CFC 3304):

1. Smoking: Smoking shall not be allowed on the project site.
2. Combustible Debris, Rubbish and Waste:
 - a. Combustible debris, rubbish and waste shall not be accumulated within buildings.
 - b. Combustible debris, rubbish and waste material shall be removed from buildings at the end of each shift of work.
 - c. Rubbish containers with a capacity exceeding 5.33 cubic feet (40 gallons) used for temporary storage of combustible debris, rubbish and waste materials, shall have tight fitting or self-closing lids. Such containers shall be constructed entirely of materials that are non-combustible or materials that meet a peak rate of heat release not exceeding 300 kW/m² when tested in accordance with ASTM E 1354 at an incident heat flux of 50 kW/m² in the horizontal orientation.
 - d. Materials susceptible to spontaneous ignition, such as oily rags, shall be stored in a listed disposal container.
3. Burning: Burning of materials shall not be allowed on the project site.
4. Fire Watch: Where required by the fire code official, a fire watch shall be provided for building demolition and for building construction during working hours that is hazardous in nature, such as temporary heating or hot work.
 - a. Trained personnel shall be provided to serve as an on-site fire watch. Fire watch personnel shall be provided with not less than one approved means for notification of the fire department, and the sole duty of such personnel shall be to perform constant patrols and watch for the occurrence of fire. The combination of fire watch duties and site security is acceptable. Fire watch personnel shall be trained in the use of portable fire extinguishers.
 - b. The fire watch personnel shall keep a record of all time periods of duty, including a log entry each time the site was patrolled, and each time a structure under construction was entered and inspected. The records and log entries shall be made available for review by the fire code official upon request.

5. Cutting and Welding: Welding, cutting, open torches, and other hot work operations and equipment shall comply with California Fire Code, Chapter 35 "Welding and Other Hot Work."
6. Temporary Wiring for Electrical Power: Temporary wiring for electrical power and lighting installations used in connection with the construction, alteration or demolition of buildings, structures, equipment or similar activities shall comply with the California Electrical Code.

D. Flammable and Combustible Liquids (CFC 3305):

1. Storage of Flammable and Combustible Liquids: Storage of flammable and combustible liquids shall be in accordance with the California Fire Code, Section 5704.
2. Class I and Class II Liquids: Storage, use, and handling of flammable and combustible liquids at construction sites shall be in accordance with the California Fire Code, Section 5706.2. Ventilation shall be provided for operations involving the application of materials containing flammable solvents.
3. Housekeeping: Flammable and combustible liquid storage areas shall be maintained clear of combustible vegetation and waste materials. Such storage areas shall not be used for the storage of combustible materials.
4. Precautions Against Fire: Sources of ignition and smoking shall be prohibited in flammable and combustible liquid storage areas. Signs shall be posted in accordance the California Fire Code, Section 310.
5. Handling at Point of Final Use: Class I and Class II liquids shall be kept in approved safety containers.
6. Leakage and Spills: Leaking vessels shall be immediately repaired or taken out of service and spills shall be cleaned up and disposed of properly.

E. Flammable Gases (CFC 3306):

1. Storage and Handling: Storage and handling of flammable gasses shall comply with the California Fire Code, Chapter 58 "Flammable Gases and Flammable Cryogenic Fluids."
2. Cleaning with Flammable Gases: Flammable gases shall not be used to clean or remove debris from piping open to the atmosphere.

F. Explosive Materials (CFC 3307): Explosive materials shall not be allowed.

G. Owner's Responsibility for Fire Protection (CFC 3308)

1. Program Development: The Contractor shall be responsible for the development, implementation and maintenance of a written plan establishing a fire prevention program at the project site applicable throughout all phases of the construction.
2. Program Superintendent: The Contractor shall a person to be the Fire Prevention Program Superintendent who shall be responsible for the fire prevention program and ensure that it is carried out through completion of the project. The fire prevention program superintendent shall have the authority to enforce the provisions of the California Fire Code, Chapter 33, and other provisions as necessary to secure the intent of the California Fire Code, Chapter 33. Where guard service is provided in accordance with NFPA 241, the superintendent shall be responsible for the guard service.

3. Prefire Plans: The fire prevention program superintendent shall develop and maintain an approved prefire plan in cooperation with the fire chief. The fire chief and the fire code official shall be notified of changes affecting the utilization of information contained in such prefire plans.
4. Training: Training of responsible personnel in the use of fire protection equipment shall be the responsibility of the fire prevention program superintendent. Records of training shall be kept and made a part of the written plan for the fire prevention program.
5. Fire Protection Devices: The fire prevention program superintendent shall determine that all fire protection equipment is maintained and serviced in accordance with the California Fire Code. The quantity and type of fire protection equipment shall be approved. Fire protection equipment shall be inspected in accordance with the fire prevention program.
6. Hot Work Operations: The fire prevention program superintendent shall be responsible for supervising the permit system for hot work operations in accordance with the California Fire Code, Chapter 35.
7. Impairment of Fire Protection Systems: Impairments to any fire protection system shall be in accordance with the California Fire Code, Section 901.
 - a. Smoke detectors and smoke alarms located in an area where airborne construction dust is expected shall be covered to prevent exposure to dust or shall be temporarily removed. smoke detectors and alarms that were removed shall be replaced upon conclusion of dust producing work. Smoke detectors and smoke alarms that were covered shall be inspected and cleaned, as necessary, upon conclusion of dust producing work.
8. Temporary Covering of Fire Protection Devices: Temporary coverings placed on or over fire protection devices to protect them from damage during construction processes shall be immediately removed upon the completion of the construction processes in the room or area in which the devices are installed.

H. Fire Reporting (CFC 3309)

1. Emergency Telephone: Emergency telephone facilities with ready access shall be provided in an approved location at the construction site, or an approved equivalent means of communication shall be provided. The street address of the construction site and the emergency telephone number of the fire department shall be posted adjacent to the telephone. Alternatively, where an equivalent means of communication has been approved, the site address and fire department emergency telephone number shall be posted at the main entrance to the site, in guard shacks, and in the construction site office.

I. Access for Fire Fighting (CFC 3310):

1. Required Access: Approved vehicle access for firefighting shall be provided to all construction or demolition sites. Vehicle access shall be provided to within 100 feet of temporary or permanent fire department connections. Vehicle access shall be provided by either temporary or permanent roads capable of supporting vehicle loading under all weather conditions. Vehicle access shall be maintained until permanent fire apparatus access roads are available.

2. Key Boxes: Key boxes shall be provided as required by the California Fire Code, Chapter 5 "Fire Service Features."

J. Means of Egress (CFC 3311):

1. Stairways Required: (Requirements not applicable to buildings less than 50 feet in height or less than four stories).
2. Means of Egress: Required means of egress and required accessible means of egress shall be maintained during construction and demolition, remodeling or alterations and additions to any building unless an approved temporary means of egress system is provided.

K. Water Supply for Fire Protection (CFC 3312):

1. Water Supply for Fire Protection: An approved water supply for fire protection, either temporary or permanent, shall be made available as soon as combustible material arrives on site.

L. Standpipes (CFC 3313):

1. Where Required: In buildings required to have standpipes by California Fire Code Section 905.3.1, not less than one standpipe shall be provided for use during construction. Such standpipes shall be installed prior to construction exceeding 40 feet in height above the lowest level of fire department vehicle access. Such standpipes shall be provided with fire department hose connections at locations adjacent to stairways complying with California Fire Code Section 3311.11. As construction progresses, such standpipes shall be extended to within one floor of the highest point of construction having secured decking or flooring.
2. Buildings Being Demolished: Where a building is being demolished and a standpipe is existing within such a building, such standpipe shall be maintained in an operable condition so as to be available for use by the fire department. Such standpipe shall be demolished with the building but shall not be demolished more than one floor below the floor being demolished.
3. Detailed Requirements: Standpipes shall be installed in accordance with the provisions of California Fire Code Section 905.
 - a. Standpipes shall be either temporary or permanent in nature, and with or without a water supply, provided that such standpipes comply with the requirements of California Fire Code Section 905 as to capacity, outlets and materials.

M. Automatic Sprinkler System (CFC 3314):

1. Completion Before Occupancy: In buildings where an automatic sprinkler system is required by the California Fire Code or California Building Code, it shall be unlawful to occupy any portion of a building or structure until the automatic sprinkler system installation has been tested and approved, except as provided in California Fire Code Section 105.3.4.

2. Operation of Valves: In buildings where an automatic sprinkler system is provided, operation of sprinkler control valves shall be allowed only by properly authorized personnel and shall be accompanied by notification of duly designated parties. Where the sprinkler protection is being regularly turned off and on to facilitate connection of newly completed segments, the sprinkler control valves shall be checked at the end of each work period to ascertain that protection is in service.

N. Portable Fire Extinguishers (CFC 3315):

1. Portable Fire Extinguishers: Structures under construction, alteration or demolition shall be provided with not less than one approved portable fire extinguisher in accordance with the California Fire Code, Section 906 and sized for not less than ordinary hazard, as follows:
 - a. At each stairway on all floor levels where combustible materials have accumulated.
 - b. In every storage and construction shed.
 - c. Additional portable fire extinguishers shall be provided where special hazards exist including, but not limited to, the storage and use of flammable and combustible liquids.

O. Motorized Construction Equipment (CFC 3316):

1. Conditions of Use: Internal combustion powered construction equipment shall be used in accordance with all of the following conditions:
 - a. Equipment shall be located so that exhausts do not discharge against combustible material.
 - b. Exhausts shall be piped to the outside of the building.
 - c. Equipment shall not be refueled while in operation.
 - d. Fuel for equipment shall be stored in approved areas outside of the building.

P. Safeguarding Roofing Operations (CFC 3317):

1. General: Roofing operations utilizing heat producing systems or other ignition sources shall be conducted in accordance with California Fire Code Sections 3317.2 and 3317.3, and Chapter 35.
2. Asphalt and Tar Kettles: Asphalt and tar kettles shall be operated in accordance with the California Fire Code, Section 303.
3. Fire Extinguishers for Roofing Operations: Fire extinguishers shall comply with the California Fire Code, Section 906. There shall be not less than one multi-purpose portable fire extinguisher with a minimum 3-A 40-B:C rating on the roof being covered or repaired.

PART 2 - PRODUCTS

2.1 TEMPORARY EQUIPMENT, GENERAL

- A. Temporary Equipment: Temporary equipment shall comply with requirements of Division 01 Section "Temporary Facilities and Controls," and shall comply with the requirements of this Section.

PART 3 - EXECUTION

- A. Fire Safety Observation, Procedures, and Features: Provide fire safety observation activities, procedures, and features as required and in compliance with regulatory requirements.

END OF SECTION

SECTION 016000
PRODUCT REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for selection of products for use in Project; product delivery, storage, and handling; manufacturers' standard warranties on products; special warranties; and comparable products.
- B. Related Requirements:
 - 1. Division 01 Section "Substitution Procedures" for requests for substitutions.

1.3 DEFINITIONS

- A. Products: Items obtained for incorporating into the Work, whether purchased for Project or taken from previously purchased stock. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent.
 - 1. Named Products: Items identified by manufacturer's product name, including make or model number or other designation shown or listed in manufacturer's published product literature, which is current as of date of the Contract Documents.
 - 2. New Products: Items that have not previously been incorporated into another project or facility. Products salvaged or recycled from other projects are not considered new products.
 - 3. Comparable Products: Products of a listed manufacturer that are demonstrated to meet or exceed the indicated qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics that equal or exceed those of specified 'Basis of Design' product.
- B. Basis-of-Design Product Specification: A specification in which a specific manufacturer's product is named and accompanied by the words "basis-of-design," including make or model number or other designation, to establish the significant qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics for purposes of evaluating comparable products of additional manufacturers named in the specification.

1.4 SUBMITTALS

- A. Product Submittals: Comply with requirements in Division 01 Section "Submittal Procedures" and submittal requirements of Division 02 through 33 Sections to show compliance with product requirements.

1.5 QUALITY ASSURANCE

- A. Compatibility of Options: If Contractor is given option of selecting between two or more products for use on Project, select product compatible with products previously selected, even if previously selected products were also options.

1.6 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, and handle products using means and methods that will prevent damage, deterioration, and loss, including theft and vandalism. Comply with manufacturer's written instructions.
- B. Delivery and Handling:
 - 1. Schedule delivery to minimize long-term storage at Project site and to prevent overcrowding of construction spaces.
 - 2. Coordinate delivery with installation time to ensure minimum holding time for items that are flammable, hazardous, easily damaged, or sensitive to deterioration, theft, and other losses.
 - 3. Deliver products to Project site in an undamaged condition in manufacturer's original sealed container or other packaging system, complete with labels and instructions for handling, storing, unpacking, protecting, and installing.
 - 4. Inspect products on delivery to determine compliance with the Contract Documents and to determine that products are undamaged and properly protected.
- C. Storage:
 - 1. Store products to allow for inspection and measurement of quantity or counting of units.
 - 2. Store materials in a manner that will not endanger Project structure.
 - 3. Store products that are subject to damage by the elements, under cover in a weathertight enclosure above ground, with ventilation adequate to prevent condensation.
 - 4. Protect foam plastic from exposure to sunlight, except to extent necessary for period of installation and concealment.
 - 5. Comply with product manufacturer's written instructions for temperature, humidity, ventilation, and weather-protection requirements for storage.
 - 6. Protect stored products from damage and liquids from freezing.

1.7 PRODUCT WARRANTIES

- A. Warranties specified in other Sections shall be in addition to, and run concurrent with, other warranties required by the Contract Documents. Manufacturer's disclaimers and limitations on product warranties do not relieve Contractor of obligations under requirements of the Contract Documents.
 - 1. Manufacturer's Warranty: Written warranty furnished by individual manufacturer for a particular product and specifically endorsed by manufacturer to Owner.
 - 2. Special Warranty: Written warranty required by the Contract Documents to provide specific rights for Owner.
- B. Special Warranties: Prepare a written document that contains appropriate terms and identification, ready for execution.
 - 1. Manufacturer's Standard Form: Modified to include Project-specific information and properly executed.
 - 2. Specified Form: When specified forms are included with the Specifications, prepare a written document using indicated form properly executed.
 - 3. See Divisions 02 through 33 Sections for specific content requirements and particular requirements for submitting special warranties.
- C. Warranty Submittals: Comply with requirements in Division 01 Section "Closeout Procedures."

PART 2 - PRODUCTS

2.1 PRODUCT SELECTION PROCEDURES

- A. General Product Requirements: Provide products that comply with the Contract Documents, are undamaged and, unless otherwise indicated, are new at time of installation.
 - 1. Provide products complete with accessories, trim, finish, fasteners, and other items needed for a complete installation and indicated use and effect.
 - 2. Standard Products: If available, and unless custom products or nonstandard options are specified, provide standard products of types that have been produced and used successfully in similar situations on other projects.
 - 3. Owner reserves the right to limit selection to products with warranties not in conflict with requirements of the Contract Documents.
 - 4. Where products are accompanied by the term "as selected," Architect will make selection.
 - 5. Descriptive, performance, and reference standard requirements in the Specifications establish salient characteristics of products.

B. Product Selection Procedures:

1. Restricted List: Where Specifications include the phrase "provide one of the following" or similar phrase and lists 2 or more manufacturers and/or products, provide one of the products indicated. Comply with requirements in Division 01 Section "Substitution Procedures" for consideration of an unnamed manufacturer or product.
 2. Non-restricted List: Where Specifications include the phrase "includes, but are not limited to the following" or similar phrase, provide one of the products indicated or an unnamed product that complies with requirements indicated.
 3. Basis of Design: Where Specifications include the phrase "Basis of Design" and lists a named manufacturer and product, provide the product indicated.
 - a. Where a "Comparable" product of listed manufacturers is indicated following a "Basis of Design" manufacturer/product, a comparable product of one of the listed manufacturers may be provided in lieu of the basis of design manufacturer/product subject to compliance with product requirements and the following:
 - 1) Evidence that the proposed product:
 - a) Does not require revisions to the Contract Documents.
 - b) Is consistent with the Contract Documents and will produce the indicated results.
 - c) Is compatible with other portions of the Work.
 - 2) Detailed comparison of significant qualities of proposed product with those named in the Specifications. Significant qualities include attributes such as performance, weight, size, durability, visual effect, and specific features and requirements indicated.
 - 3) Evidence that proposed product provides specified warranty.
 - b. Where no "Comparable" manufacturers/products are indicated following a "Basis of Design" manufacturer/product, comply with requirements in Division 01 Section "Substitution Procedures" for consideration of an unnamed manufacturer or product.
- C. Visual Matching Specification: Where Specifications require "match Architect's sample", provide a product that complies with requirements and matches Architect's sample. Architect's decision will be final on whether a proposed product matches.
1. If no product available within specified category matches and complies with other specified requirements, comply with requirements in Division 01 Section "Substitution Procedures" for proposal of product.
- D. Visual Selection Specification: Where Specifications include the phrase "as selected by Architect from manufacturer's full range" or similar phrase, select a product that complies with requirements. Architect will select color, gloss, pattern, density, or texture from manufacturer's product line that includes both standard and premium items.

PART 3 - EXECUTION

3.1 PRODUCT INSTALLATION

- A. General: Install products in accordance with Drawings, Specifications, and product manufacturer's written installation instructions. Installation shall include examination of conditions and preparations necessary for proper installation.

END OF SECTION

SECTION 017300
EXECUTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes general administrative and procedural requirements governing execution of the Work including, but not limited to, the following:
 - 1. Installation of the Work.
 - 2. Cutting, patching and repairing.
 - 3. Progress cleaning.
 - 4. Starting and adjusting.
 - 5. Protection of installed construction.
 - 6. Correction of the Work.
- B. Related Requirements:
 - 1. Division 01 Section "Summary of Work" for limits on use of Project site.
 - 2. Division 01 Section "Submittal Procedures" for submitting surveys.
 - 3. Division 02 Section "Selective Demolition" for demolition and removal of selected portions of the building.

1.3 DEFINITIONS

- A. Accessible Route: A continuous unobstructed path connecting accessible elements and spaces of an accessible site, building or facility that can be negotiated by a person with a disability using a wheelchair, and that is also safe for and usable by persons with other disabilities. Interior accessible routes may include corridors, hallways, floors, ramps, elevators and lifts. Exterior accessible routes may include accessible parking stalls and access aisles, curb ramps, crosswalks at vehicular ways, walks, ramps and lifts.
- B. Cutting: Removal of in-place construction necessary to permit installation or performance of other work.
- C. Patching: Fitting and repair work required to restore construction to original conditions after installation of other work.

1.4 SUBMITTALS

- A. Surveys: Submit survey of accessible route improvements stamped and signed by land surveyor or professional engineer certifying that elevations and slopes of improvements comply with disabled access requirements.
 - 1. Survey shall be a separate submittal and shall also be included in the Project Record Documents.

1.5 QUALITY ASSURANCE

- A. Surveyor Qualifications: A professional engineer or land surveyor who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing land-surveying services of the kind indicated.
- B. Cutting and Patching: Comply with requirements for and limitations on cutting and patching of construction elements.
 - 1. Structural Elements: When cutting of structural elements must be performed, notify Architect of locations and details of cutting and await directions from Architect before proceeding. Shore, brace, and support structural elements during cutting and patching. Do not cut and patch structural elements in a manner that could change their load-carrying capacity or increase deflection.
 - 2. Operational Elements: Do not cut and patch operating elements and related components in a manner that results in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or safety. Operational elements include the following:
 - a. Primary operational systems and equipment.
 - b. Fire separation assemblies.
 - c. Air or smoke barriers.
 - d. Fire-suppression systems.
 - e. Mechanical systems piping and ducts.
 - f. Control systems.
 - g. Communication systems.
 - h. Fire-detection and alarm systems.
 - i. Conveying systems.
 - j. Electrical wiring systems.
 - k. Operating systems of special construction.
 - 3. Other Construction Elements: Do not cut and patch other construction elements or components in a manner that could change their load-carrying capacity, that results in reducing their capacity to perform as intended, or that results in increased maintenance or decreased operational life or safety. Other construction elements include but are not limited to the following:
 - a. Water, moisture, or vapor barriers.
 - b. Membranes and flashings.
 - c. Sprayed fire-resistive material.

- d. Equipment supports.
 - e. Piping, ductwork, vessels, and equipment.
- 4. Visual Elements: Cut and patch construction in a manner that results in no visual evidence of cutting and patching. Do not cut and patch exposed construction in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.
- C. Manufacturer's Installation Instructions: Obtain and maintain on-site manufacturer's written recommendations and instructions for installation of products and equipment.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. General: Comply with requirements specified in Division 02 through 33 Sections.
- B. In-Place Materials: Use materials for patching identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible.
 - 1. If identical materials are unavailable or cannot be used, use materials that, when installed, will provide a match acceptable to Architect for the visual and functional performance of in-place materials.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Existing Conditions: The existence and location of underground and other utilities and construction indicated as existing are not guaranteed. Before beginning sitework, investigate and verify the existence and location of underground utilities, and other construction affecting the Work.
 - 1. Before construction, verify the location and invert elevation at points of connection of sanitary sewer, storm sewer, and water-service piping; underground electrical services, and other utilities.
 - 2. Furnish location data for work related to Project that must be performed by public utilities serving Project site.
- B. Examination and Acceptance of Conditions: Before proceeding with each component of the Work, examine substrates, areas, and conditions, with Installer or Applicator present where indicated, for compliance with requirements for installation tolerances and other conditions affecting performance. Record observations.
 - 1. Examine roughing-in for mechanical and electrical systems to verify actual locations of connections before equipment and fixture installation.

2. Examine walls, floors, and roofs for suitable conditions where products and systems are to be installed.
 3. Verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.
- C. Written Report: Where a written report listing conditions detrimental to performance of the Work is required by other Sections, include the following:
1. Description of the Work.
 2. List of detrimental conditions, including substrates.
 3. List of unacceptable installation tolerances.
 4. Recommended corrections.
- D. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Existing Utility Information: Furnish information to local utility and Owner that is necessary to adjust, move, or relocate existing utility structures, utility poles, lines, services, or other utility appurtenances located in or affected by construction. Coordinate with authorities having jurisdiction.
- B. Field Measurements: Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
- C. Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Drawings.
- D. Review of Contract Documents and Field Conditions: Immediately on discovery of the need for clarification of the Contract Documents caused by differing field conditions outside the control of Contractor, submit a request for information to Architect according to requirements in Division 01 Section "Request for Information."

3.3 INSTALLATION

- A. General: Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.
1. Make vertical work plumb and make horizontal work level.
 2. Where space is limited, install components to maximize space available for maintenance and ease of removal for replacement.
 3. Conceal pipes, ducts, and wiring in finished areas unless otherwise indicated.
 4. Maintain minimum headroom clearance of 96 inches in occupied spaces and 90 inches in unoccupied spaces.

- B. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.
- C. Install products at the time and under conditions that will ensure the best possible results. Maintain conditions required for product performance until Substantial Completion.
- D. Conduct construction operations so no part of the Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy.
- E. Sequence the Work and allow adequate clearances to accommodate movement of construction items on site and placement in permanent locations.
- F. Tools and Equipment: Do not use tools or equipment that produce harmful noise levels.
- G. Templates: Obtain and distribute to the parties involved templates for work specified to be factory prepared and field installed. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing products to comply with indicated requirements.
- H. Attachment: Provide blocking and attachment plates and anchors and fasteners of adequate size and number to securely anchor each component in place, accurately located and aligned with other portions of the Work. Where size and type of attachments are not indicated, verify size and type required for load conditions.
 - 1. Mounting Heights: Where mounting heights are not indicated, mount components at heights directed by Architect.
 - 2. Allow for building movement, including thermal expansion and contraction.
 - 3. Coordinate installation of anchorages. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.
- I. Joints: Make joints of uniform width. Where joint locations in exposed work are not indicated, arrange joints for the best visual effect. Fit exposed connections together to form hairline joints.
- J. Hazardous Materials: Use products, cleaners, and installation materials that are not considered hazardous.

3.4 CUTTING, PATCHING, AND REPAIRING

- A. Cutting, Patching and Repairing, General: Employ skilled workers to perform cutting, patching, and/or repairing. Proceed with cutting, patching, and repairing at the earliest feasible time, and complete without delay.

1. Cut in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition.
- B. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during installation or cutting and patching operations, by methods and with materials so as not to void existing warranties.
- C. Temporary Support: Provide temporary support of work to be cut.
- D. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.
- E. Adjacent Occupied Areas: Where interference with use of adjoining areas or interruption of free passage to adjoining areas is unavoidable, coordinate cutting and patching according to requirements in Division 01 Section "Summary."
- F. Existing Utility Services and Mechanical/Electrical Systems: Where existing services/systems are required to be removed, relocated, or abandoned, bypass such services/systems before cutting to prevent interruption to occupied areas.
- G. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with original Installer's written recommendations.
 1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots neatly to minimum size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
 2. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.
 3. Concrete and Masonry: Cut using a cutting machine, such as an abrasive saw or a diamond-core drill.
 4. Excavating and Backfilling: Comply with requirements in applicable Division 31 Sections where required by cutting and patching operations.
 5. Mechanical and Electrical Services: Cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after cutting.
 6. Proceed with patching after construction operations requiring cutting are complete.
- H. Patching and Repairing: Patch and repair construction by grinding, filling, leveling, refinishing, closing up, and similar operations following performance of other work. Provide materials and comply with installation requirements specified in other Sections, where applicable.
 1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate physical integrity of installation.

2. Exposed Finishes: Restore exposed finishes of patched and repaired areas and extend finish restoration into retained adjoining construction in a manner that will minimize evidence of patching and refinishing.
 - a. Clean piping, conduit, and similar features before applying paint or other finishing materials.
 - b. Restore damaged pipe covering to its original condition.
3. Floors and Walls: Where walls or partitions that are removed extend one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform finish, color, texture, and appearance. Remove in-place floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.
 - a. Where patching occurs in a painted surface, prepare substrate and apply primer and intermediate paint coats appropriate for substrate over the patch, and apply final paint coat over entire unbroken surface containing the patch. Provide additional coats until patch blends with adjacent surfaces.
 - b. Where finishes have been removed, patch and repair substrates to receive new finishes; substrates shall be prepared to comply with requirements of manufacturer of final finish material.
4. Ceilings: Patch, repair, or rehang in-place ceilings as necessary to provide an even-plane surface of uniform appearance.
5. Exterior Building Enclosure: Patch components in a manner that restores enclosure to a weathertight condition and ensures thermal and moisture integrity of building enclosure.
- I. Cleaning: Clean areas and spaces where cutting and patching are performed. Remove paint, mortar, oils, putty, and similar materials from adjacent finished surfaces.

3.5 OWNER-INSTALLED PRODUCTS

- A. Site Access: Provide access to Project site for Owner's construction personnel.
- B. Coordination: Coordinate construction and operations of the Work with work performed by Owner's construction personnel.
 1. Construction Schedule: Inform Owner of Contractor's preferred construction schedule for Owner's portion of the Work. Adjust construction schedule based on a mutually agreeable timetable. Notify Owner if changes to schedule are required due to differences in actual construction progress.
 2. Preinstallation Conferences: Include Owner's construction personnel at preinstallation conferences covering portions of the Work that are to receive Owner's work. Attend preinstallation conferences conducted by Owner's construction personnel if portions of the Work depend on Owner's construction.

3.6 PROGRESS CLEANING

- A. General: Clean Project site and work areas daily, including common areas. Enforce requirements strictly. Dispose of materials lawfully.
 - 1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.
 - 2. Do not hold waste materials more than seven days during normal weather or three days if the temperature is expected to rise above 80 deg F.
 - 3. Containerize hazardous and unsanitary waste materials separately from other waste. Mark containers appropriately and dispose of legally, according to regulations.
 - a. Use containers intended for holding waste materials of type to be stored.
- B. Site: Maintain Project site free of waste materials and debris.
- C. Work Areas: Clean areas where work is in progress to the level of cleanliness necessary for proper execution of the Work.
 - 1. Remove liquid spills promptly.
 - 2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.
- D. Installed Work: Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed surfaces.
- E. Concealed Spaces: Remove debris from concealed spaces before enclosing the space.
- F. Exposed Surfaces in Finished Areas: Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.
- G. Waste Disposal: Do not bury or burn waste materials on-site. Do not wash waste materials down sewers or into waterways. Comply with waste disposal requirements in Division 01 Section "Construction Waste Management and Disposal."
- H. During handling and installation, clean and protect construction in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.
- I. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period. Adjust and lubricate operable components to ensure operability without damaging effects.

- J. Limiting Exposures: Supervise construction operations to assure that no part of the construction, completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period.

3.7 STARTING AND ADJUSTING

- A. Start equipment and operating components to confirm proper operation. Remove malfunctioning units, replace with new units, and retest.
- B. Adjust equipment for proper operation. Adjust operating components for proper operation without binding.
- C. Test each piece of equipment to verify proper operation. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
- D. Manufacturer's Field Service: Comply with qualification requirements in Division 01 Section "Quality Requirements."

3.8 PROTECTION OF INSTALLED CONSTRUCTION

- A. Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.
- B. Comply with manufacturer's written instructions for temperature and relative humidity.

END OF SECTION

SECTION 017419
CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for the following:
 - 1. Salvaging nonhazardous construction and demolition waste.
 - 2. Recycling nonhazardous construction and demolition waste.
 - 3. Disposing of nonhazardous construction and demolition waste.
- B. Related Requirements:
 - 1. Division 02 Section "Selective Demolition" for disposition of waste resulting from partial demolition of buildings, structures, and site improvements.

1.3 DEFINITIONS

- A. Construction Waste: Building and site improvement materials and other solid waste resulting from construction, remodeling, renovation, or repair operations. Construction waste includes packaging.
- B. Demolition Waste: Building and site improvement materials resulting from demolition or selective demolition operations.
- C. Disposal: Removal off-site of demolition and construction waste and subsequent sale, recycling, reuse, or deposit in landfill or incinerator acceptable to authorities having jurisdiction.
- D. Recycle: Recovery of demolition or construction waste for subsequent processing in preparation for reuse.
- E. Salvage: Recovery of demolition or construction waste and subsequent sale or reuse in another facility.
- F. Salvage and Reuse: Recovery of demolition or construction waste and subsequent incorporation into the Work.

1.4 MATERIALS OWNERSHIP

- A. Unless otherwise indicated, demolition and construction waste becomes property of Contractor.

1.5 ACTION SUBMITTALS

- A. Waste Management Plan: Submit Waste Management Plan within 30 days of date established for the Notice to Proceed indicating method of compliance with the California Green Building Standards Code.

1.6 INFORMATIONAL SUBMITTALS

- A. Waste Reduction Progress Reports: Concurrent with each Application for Payment, submit report. Use separate forms for construction waste and demolition waste. Include the following information:
 - 1. Material category.
 - 2. Generation point of waste.
 - 3. Total quantity of waste in tons.
 - 4. Quantity of waste salvaged, both estimated and actual in tons.
 - 5. Quantity of waste recycled, both estimated and actual in tons.
 - 6. Total quantity of waste recovered (salvaged plus recycled) in tons.
 - 7. Total quantity of waste recovered (salvaged plus recycled) as a percentage of total waste.
- B. Waste Reduction Calculations: Before request for Substantial Completion, submit calculated end-of-Project rates for salvage, recycling, and disposal as a percentage of total waste generated by the Work.
- C. Records of Donations: Indicate receipt and acceptance of salvageable waste donated to individuals and organizations. Indicate whether organization is tax exempt.
- D. Records of Sales: Indicate receipt and acceptance of salvageable waste sold to individuals and organizations. Indicate whether organization is tax exempt.
- E. Recycling and Processing Facility Records: Indicate receipt and acceptance of recyclable waste by recycling and processing facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.
- F. Landfill and Incinerator Disposal Records: Indicate receipt and acceptance of waste by landfills and incinerator facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.
- G. Qualification Data: For waste management coordinator.

1.7 QUALITY ASSURANCE

- A. Waste Management Coordinator Qualifications: Experienced firm, or individual employee assigned by the General Contractor, with a record of successful waste management coordination of projects with similar requirements. Individual of firm, or Contractor's employee, shall be a LEED-Accredited Professional, certified by the USGBC, as waste management coordinator.
- B. Regulatory Requirements: Comply with transportation and disposal regulations of authorities having jurisdiction.
- C. Waste Management Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination." Review methods and procedures related to waste management including, but not limited to, the following:
 - 1. Review and discuss waste management plan including responsibilities of waste management coordinator.
 - 2. Review requirements for documenting quantities of each type of waste and its disposition.
 - 3. Review and finalize procedures for materials separation and verify availability of containers and bins needed to avoid delays.
 - 4. Review procedures for periodic waste collection and transportation to recycling and disposal facilities.
 - 5. Review waste management requirements for each trade.

1.8 WASTE MANAGEMENT PLAN/REGULATORY REQUIREMENTS

- A. Construction Waste Management, General: Recycle and/or salvage for reuse a minimum of 65 percent of the non-hazardous construction and demolition waste in accordance with one of the following 2022 California Green Standards Code (GBSC) Sections, or meet a local construction and demolition waste management ordinance, whichever is more stringent:
 - 1. Construction Waste Management Plan (GBSC Section 5.408.1.1): Where a local jurisdiction does not have a construction and demolition waste management ordinance that is more stringent, provide Waste Management Plan that:
 - a. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
 - b. Determines if construction and demolition waste materials will be sorted on-site (source separated) or bulk mixed (single stream).
 - c. Identifies diversion facilities where construction and demolition waste material collected will be taken.
 - d. Specifies the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.
 - 2. Waste Management Company (GBSC Section 5.408.1.2): Utilize a waste management company that can provide verifiable documentation that the

percentage of construction and demolition waste material diverted from the landfill complies with CGBSC Section 5.408.1.

- a. Exception 1: Excavated soil and land-clearing debris.
 - b. Exception 2: Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
 - c. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.
3. Waste Stream Reduction Alternative (GBSC Section 5.408.1.3): The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65 percent minimum requirement as approved by the enforcing agency.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 PLAN IMPLEMENTATION

- A. General: Implement approved waste management procedures. Provide handling, containers, storage, signage, transportation, and other items as required to implement waste management procedures during the entire duration of the Contract.
 1. Comply with operation, termination, and removal requirements in Division 01 Section "Temporary Facilities and Controls."
- B. Waste Management Coordinator: Engage a waste management coordinator to be responsible for implementing, monitoring, and reporting status of waste management work plan.
- C. Training: Train workers, subcontractors, and suppliers on proper waste management procedures, as appropriate for the Work.
 1. Distribute waste management procedures to everyone concerned within three days of submittal return.
 2. Distribute waste management procedures to entities when they first begin work on-site. Review procedures and locations established for salvage, recycling, and disposal.
- D. Site Access and Temporary Controls: Conduct waste management operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
 1. Designate and label specific areas on Project site necessary for separating materials that are to be salvaged, recycled, reused, donated, and sold.

2. Comply with Division 01 Section "Temporary Facilities and Controls" for controlling dust and dirt, environmental protection, and noise control.

3.2 SALVAGING DEMOLITION WASTE

- A. General: Contract Documents identify items to be salvaged for reinstallation and items to be salvaged to the Owner; items indicated to be removed become the Contractor's property, Contractor may salvage removed items and offer for sale and/or donation.
- B. Salvaged Items for Reuse/Reinstallion in the Work: Salvage items for reuse and handle as follows:
 1. Clean salvaged items.
 2. Pack or crate items after cleaning. Identify contents of containers with label indicating elements, date of removal, quantity, and location where removed.
 3. Store items in a secure area until installation.
 4. Protect items from damage during transport and storage.
 5. Install salvaged items to comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make items functional for use indicated.
- C. Salvaged Items to Owner: Salvage items for Owner's use and handle as follows:
 1. Clean salvaged items.
 2. Pack or crate items after cleaning. Identify contents of containers with label indicating elements, date of removal, quantity, and location where removed.
 3. Store items in a secure area until delivery to Owner.
 4. Transport items to Owner's storage area designated by Owner.
 5. Protect items from damage during transport and storage.
- D. Salvaged Items for Sale and/or Donation: Not permitted on Project site.
- E. Salvaged Items for Reinstallation or Owner's Use:
 1. Doors and Hardware: Brace open end of door frames. Except for removing door closers, leave door hardware attached to doors.
 2. Equipment: Drain tanks, piping, and fixtures. Seal openings with caps or plugs. Protect equipment from exposure to weather.
 3. Plumbing Fixtures: Separate by type and size.
 4. Lighting Fixtures: Separate lamps by type and protect from breakage.
 5. Electrical Devices: Separate switches, receptacles, switchgear, transformers, meters, panelboards, circuit breakers, and other devices by type.

3.3 RECYCLING DEMOLITION AND CONSTRUCTION WASTE, GENERAL

- A. General: Recycle paper and beverage containers used by on-site workers.

- B. Recycling Receivers and Processors: Refer to local county websites for the county in which the Project is located for listings of available recycling receivers and processors, and materials accepted.
- C. Recycling Incentives: Revenues, savings, rebates, tax credits, and other incentives received for recycling waste materials shall accrue to Contractor.
- D. Preparation of Waste: Prepare and maintain recyclable waste materials according to recycling or reuse facility requirements. Maintain materials free of dirt, adhesives, solvents, petroleum contamination, and other substances deleterious to the recycling process.
- E. Procedures: Separate recyclable waste from other waste materials, trash, and debris. Separate recyclable waste by type at Project site to the maximum extent practical according to approved construction waste management plan.
 - 1. Provide appropriately marked containers or bins for controlling recyclable waste until removed from Project site. Include list of acceptable and unacceptable materials at each container and bin.
 - a. Inspect containers and bins for contamination and remove contaminated materials if found.
 - 2. Stockpile processed materials on-site without intermixing with other materials. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
 - 3. Stockpile materials away from construction area. Do not store within drip line of remaining trees.
 - 4. Store components off the ground and protect from the weather.
 - 5. Remove recyclable waste from Owner's property and transport to recycling receiver or processor.

3.4 RECYCLING DEMOLITION WASTE

- A. Concrete: Remove reinforcement and other metals from concrete and sort with other metals.
- B. Wood Materials: Sort and stack members according to size, type, and length. Separate lumber, engineered wood products, panel products, and treated wood materials.
- C. Metals: Separate metals by type.
 - 1. Structural Steel: Stack members according to size, type of member, and length.
 - 2. Remove and dispose of bolts, nuts, washers, and other rough hardware.
- D. Gypsum Board: Stack large clean pieces on wood pallets or in container and store in a dry location. Remove edge trim and sort with other metals. Remove and dispose of fasteners.

- E. Metal Piping: Reduce piping to straight lengths and store by type and size. Separate supports, hangers, valves, sprinklers, and other components by type and size.
- F. Metal Conduit: Reduce conduit to straight lengths and store by type and size.

3.5 RECYCLING CONSTRUCTION WASTE

- A. Packaging:
 - 1. Cardboard and Boxes: Break down packaging into flat sheets. Bundle and store in a dry location.
 - 2. Polystyrene Packaging: Separate and bag materials.
 - 3. Wood Pallets: As much as possible, require deliveries using pallets to remove pallets from Project site. For pallets that remain on-site, break down pallets into component wood pieces and comply with requirements for recycling wood.
 - 4. Crates: Break down crates into component wood pieces and comply with requirements for recycling wood.
- B. Wood Materials:
 - 1. Clean Cut-Offs of Lumber: Grind or chip into small pieces.
 - 2. Clean Sawdust: Bag sawdust that does not contain painted or treated wood.
 - a. Comply with requirements in Division 32 Sections as applicable to planting for use of clean sawdust as organic mulch.
- C. Gypsum Board: Stack large clean pieces on wood pallets or in container and store in a dry location.

3.6 DISPOSAL OF WASTE

- A. General: Except for items or materials to be salvaged, recycled, or otherwise reused, remove waste materials from Project site and legally dispose of them in a landfill or incinerator acceptable to authorities having jurisdiction.
 - 1. Except as otherwise specified, do not allow waste materials that are to be disposed of accumulate on-site.
 - 2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
- B. Burning: Do not burn waste materials.
- C. Disposal: Remove waste materials from Owner's property and legally dispose of them.

END OF SECTION

SECTION 017700
CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:
 - 1. Closeout procedures at completion.
 - 2. Final cleaning.
 - 3. Repair of the Work.
- B. Related Requirements:
 - 1. Division 01 Section "Operation and Maintenance Data" for operation and maintenance documentation requirements.
 - 2. Division 01 Section "Project Record Drawings" for preparing and submitting Project Record Drawings.
 - 3. Division 01 Section "Warranties" for submitting final warranty information.
 - 4. Division 01 Section "Demonstration and Training" for requirements for instructing Owner's personnel.
 - 5. Divisions 02 through 33 Sections for specific closeout and special cleaning requirements for the Work in those Sections.

1.3 SUBSTANTIAL COMPLETION PROCEDURES

- A. Contractor's List of Incomplete Items: Prepare and submit a list of items to be completed and corrected (Contractor's punch list), indicating the value of each item on the list and reasons why the Work is incomplete.
- B. Submittals Prior to Substantial Completion: Submit the following a minimum of 10 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
 - 1. Certificates of Release: Obtain and submit releases from authorities having jurisdiction permitting Owner unrestricted use of the Work and access to services and utilities. Include occupancy permits, operating certificates, and similar releases.

2. Submit closeout documentation specified in other Division 01 Sections, including project record drawings, operation and maintenance data, construction photographic documentation, warranties, and similar final record information.
 3. Submit closeout documentation specified in individual Division 02 through 33 Sections, including specific warranties, workmanship bonds, maintenance service agreements, final certifications, and similar documents.
 4. Submit maintenance materials specified in individual Division 02 through 33 Sections, including tools, spare parts, extra materials, and similar items, and deliver to location designated by Architect. Label with manufacturer's name and model number where applicable.
 5. Submit test/adjust/balance records.
 6. Submit sustainable design submittals not previously submitted.
 7. Submit changeover information related to Owner's occupancy, use, operation, and maintenance.
- C. Procedures Prior to Substantial Completion: Complete the following a minimum of 10 days prior to requesting inspection for determining date of Completion. List items below that are incomplete at time of request.
1. Advise Owner of pending insurance changeover requirements.
 2. Make final changeover of permanent locks and deliver keys to Owner. Advise Owner's personnel of changeover in security provisions.
 3. Complete startup and testing of systems and equipment.
 4. Perform preventive maintenance on equipment used prior to Substantial Completion.
 5. Instruct Owner's personnel in operation, adjustment, and maintenance of products, equipment, and systems. Submit demonstration and training video recordings specified in Division 01 Section "Demonstration and Training."
 6. Advise Owner of changeover in utilities.
 7. Terminate and remove temporary facilities from Project site, along with mockups, construction tools, and similar elements.
 8. Complete final cleaning requirements, including touchup painting.
 9. Touch up and otherwise repair and restore marred exposed finishes to eliminate visual defects.
- D. Inspection: Submit a written request for inspection for Completion a minimum of 10 days prior to date the work will be completed and ready for inspection. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will notify Contractor of items, either on Contractor's list or additional items identified by Architect, that must be completed or corrected.
1. Architect's Punch List: During inspection, Architect will prepare a list of items needing completion or correction (punch list), a copy of the punch list will be distributed to the Contractor and Owner.
 2. Reinspection: Request reinspection when the Work identified in previous inspection as incomplete is completed or corrected.
 3. Results of completed inspection will form the basis of requirements for final completion.

- E. Contractor's Cost for Reinspection: Architect will perform one inspection and one reinspection at no additional cost to the Contractor. The expense for the Architect's time for additional inspections will be paid by the Owner with the amount being deducted from the Contract Sum. The expense will be based on an hourly rate in accordance with the Architect's standard hourly rate schedule in effect at the time the work is performed with a minimum of \$400.00 dollars for each additional reinspection.

1.4 LIST OF INCOMPLETE ITEMS (PUNCH LIST)

- A. Organization of List: Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.
 - 1. Organize list of spaces in sequential order, starting with exterior areas first and proceeding from lowest floor to highest floor.
 - 2. Organize items applying to each space by major element, including categories for ceiling, individual walls, floors, equipment, and building systems.
 - 3. Include the following information at the top of each page:
 - a. Project name.
 - b. Date.
 - c. Name of Architect (Company name).
 - d. Name of Contractor (Company Name).
 - e. Page number.
 - 4. Submit list of incomplete items in one of the following formats:
 - a. MS Excel electronic file. Architect will return annotated file.
 - b. PDF electronic file. Architect will return annotated file.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.
 - 1. Use cleaning products that comply with the California Green Building Standards Code maximum allowable VOC levels.

PART 3 - EXECUTION

3.1 FINAL CLEANING

- A. General: Perform final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.
- B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions.
 - 1. Complete the following cleaning operations before requesting inspection for Completion for entire Project or for a designated portion of Project:
 - a. Clean Project site, yard, and grounds, in areas disturbed by construction activities, including landscape development areas, of rubbish, waste material, litter, and other foreign substances.
 - b. Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits.
 - c. Rake grounds that are neither planted nor paved to a smooth, even-textured surface.
 - d. Remove tools, construction equipment, machinery, and surplus material from Project site.
 - e. Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
 - f. Remove debris and surface dust from limited access spaces, including roofs, plenums, shafts, trenches, equipment vaults, manholes, attics, and similar spaces.
 - g. Sweep concrete floors broom clean in unoccupied spaces.
 - h. Vacuum carpet and similar soft surfaces, removing debris and excess nap; clean according to manufacturer's recommendations if visible soil or stains remain.
 - i. Clean transparent materials, including mirrors and glass in doors and windows. Remove glazing compounds and other noticeable, vision-obscuring materials. Polish mirrors and glass, taking care not to scratch surfaces.
 - j. Remove labels that are not permanent.
 - k. Wipe surfaces of mechanical, electrical, and similar equipment. Remove excess lubrication, paint and mortar droppings, and other foreign substances.
 - l. Clean plumbing fixtures to a sanitary condition, free of stains, including stains resulting from water exposure.
 - m. Replace disposable air filters and clean permanent air filters. Clean exposed surfaces of diffusers, registers, and grills.
 - n. Clean ducts, blowers, and coils if units were operated without filters during construction or that display contamination with particulate matter on inspection.

- o. Clean light fixtures, lamps, globes, and reflectors to function with full efficiency.
 - p. Leave Project clean and ready for occupancy.
- C. Construction Waste Disposal: Comply with waste disposal requirements in Division 01 Section "Construction Waste Management and Disposal."

3.2 REPAIR OF THE WORK

- A. Complete repair and restoration operations before requesting inspection for determination of Substantial Completion.
 - 1. Comply with requirements of Division 02 through 33 Sections as applicable to the Work to be restored and/or repaired.
- B. Repair or remove and replace defective construction. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment. Where damaged or worn items cannot be repaired or restored, provide replacements. Remove and replace operating components that cannot be repaired. Restore damaged construction and permanent facilities used during construction to specified condition.
 - 1. Remove and replace chipped, scratched, and broken glass, reflective surfaces, and other damaged transparent materials.
 - 2. Touch up and otherwise repair and restore marred or exposed finishes and surfaces. Replace finishes and surfaces that already show evidence of repair or restoration.
 - a. Do not paint over "UL" and other required labels and identification, including mechanical and electrical nameplates. Remove paint applied to required labels and identification.
 - 3. Replace parts subject to operating conditions during construction that may impede operation or reduce longevity.
 - 4. Replace burned-out bulbs, bulbs noticeably dimmed by hours of use, and defective and noisy starters in fluorescent and mercury vapor fixtures to comply with requirements for new fixtures.

END OF SECTION

SECTION 017823
OPERATION AND MAINTENANCE DATA

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for preparing operation and maintenance documentation, including the following:
 - 1. Operation and maintenance documentation directory manuals.
 - 2. Emergency manuals.
 - 3. Systems and equipment operation manuals.
 - 4. Systems and equipment maintenance manuals.
 - 5. Product maintenance manuals.
- B. Related Sections:
 - 1. Division 01 Section "Submittal Procedures" for submitting copies of submittals for operation and maintenance manuals.
 - 2. Division 01 Section "Demonstration and Training" for demonstration and training materials.
 - 3. Divisions 02 through 33 Sections for specific operation and maintenance manual requirements for the Work in those Sections.

1.3 SUBMITTALS

- A. Closeout Submittal: Submit operation and maintenance manuals indicated. Provide content for each manual as specified in individual Specification Sections, and as previously reviewed and approved at the time of individual Section submittals; where applicable, clarify and update previously reviewed content to correspond to revisions and field conditions. Submit reviewed manual content formatted and organized as required by this Section.
 - 1. Initial Submittal: Submit draft electronic copy of each manual at least 30 days before commencing demonstration and training. Architect will comment on whether content of operations and maintenance submittal is acceptable.
 - a. Correct or revise each manual to comply with Architect's comments. Submit final submittal copies of each corrected manual within 15 days of receipt of Architect's comments and prior to commencing demonstration and training.
 - 2. Final Submittal: Submit in final form prior to requesting inspection for Substantial Completion and at least 15 days before commencing demonstration and training. Submit the following:
 - a. Paper Copy: Submit one paper-copy set of marked-up record prints that have been revised to address Architect's comments from the initial submittal.
 - b. Digital Data Files: Submit digital data files of Project Record Drawings as PDF files on a thumb-drive.
- B. Comply with Division 01 Section "Closeout Procedures" for schedule for submitting operation and maintenance documentation.

1.4 FORMAT OF OPERATION AND MAINTENANCE MANUALS

- A. Electronic File Manuals: Submit manuals in the form of a multiple file composite electronic PDF file for each manual type required.
 - 1. Electronic Files: Use electronic files prepared by manufacturer where available. Where scanning of paper documents is required, configure scanned file for minimum readable file size.
 - 2. File Names and Bookmarks: Bookmark individual documents based on file names. Name document files to correspond to system, subsystem, and equipment names used in manual directory and table of contents. Group documents for each system and subsystem into individual composite bookmarked files, then create composite manual, so that resulting bookmarks reflect the system, subsystem, and equipment names in a readily navigated file tree. Configure electronic manual to display bookmark panel on opening file.

B. Paper Copy Manuals: Submit manuals in the form of hard-copy, bound and labeled volumes.

1. Binders: Heavy-duty, three-ring, vinyl-covered, loose-leaf or post-type binders, in thickness necessary to accommodate contents, sized to hold 8-1/2-by-11-inch paper; with clear plastic sleeve on spine to hold label describing contents and with pockets inside covers to hold folded oversize sheets.
 - a. If two or more binders are necessary to accommodate data of a system, organize data in each binder into groupings by subsystem and related components. Cross-reference other binders if necessary to provide essential information for proper operation or maintenance of equipment or system.
 - b. Identify each binder on front and spine, with printed title "OPERATION AND MAINTENANCE MANUAL," Project title or name, and subject matter of contents, and indicate Specification Section number(s) on bottom of spine. Indicate volume number for multiple-volume sets.
2. Dividers: Heavy-paper dividers with plastic-covered tabs for each section of the manual. Mark each tab to indicate contents. Include typed list of products and major components of equipment included in the section on each divider, cross-referenced to Specification Section number and title of Project Manual.
3. Protective Plastic Sleeves: Transparent plastic sleeves designed to enclose diagnostic software storage media for computerized electronic equipment. Enclose title pages and directories in clear plastic sleeves.
4. Supplementary Text: Prepared on 8-1/2-by-11-inch white bond paper.
5. Drawings: Attach reinforced, punched binder tabs on drawings and bind with text.
 - a. If oversize drawings are necessary, fold drawings to same size as text pages and use as foldouts.
 - b. If drawings are too large to be used as foldouts, fold and place drawings in labeled envelopes and bind envelopes in rear of manual. At appropriate locations in manual, insert typewritten pages indicating drawing titles, descriptions of contents, and drawing locations.

1.5 REQUIREMENTS FOR OPERATION AND MAINTENANCE MANUALS

- A. Organization: Unless otherwise indicated, organize each manual into a separate section for each system and subsystem, and a separate section for each piece of equipment not part of a system. Each manual shall contain the following materials and in the order listed:
1. Title page.
 2. Table of contents.
 3. Manual contents.
- B. Title Page: Include the following information as applicable:
1. Subject matter included in the manual.
 2. Name and address of Project.

3. Name and address of Owner.
 4. Date of submittal.
 5. Name and contact information for the following:
 - a. Contractor.
 - b. Installer.
 - c. Architect.
 - d. Commissioning Authority if applicable.
 - e. Architect's major consultants that designed the systems contained in the manuals.
 6. Cross-reference to related systems in other operation and maintenance manuals.
- C. Table of Contents: List each product included in manual, identified by product name, indexed to the content of the volume, and cross-referenced to Specification Section number in Project Manual.
1. If operation or maintenance documentation requires more than one volume to accommodate data, include comprehensive table of contents for all volumes in each volume of the set.
- D. Manual Contents: Organize into sets of manageable size. Arrange contents alphabetically by system, subsystem, and equipment. If possible, assemble instructions for subsystems, equipment, and components of one system into a single binder.
- E. Identification: In the documentation directory and in each operation and maintenance manual, identify each system, subsystem, and piece of equipment with same designation used in the Contract Documents. If no designation exists, assign a designation according to ASHRAE Guideline 4, "Preparation of Operating and Maintenance Documentation for Building Systems."

1.6 OPERATION AND MAINTENANCE DOCUMENTATION DIRECTORY MANUAL

- A. Operation and Maintenance Documentation Directory: Prepare a separate manual that provides an organized reference to emergency, operation, and maintenance manuals. List items and their location to facilitate ready access to desired information. Include the following:
1. List of Systems and Subsystems: List systems alphabetically. Include references to operation and maintenance manuals that contain information about each system.
 2. List of Equipment: List equipment for each system, organized alphabetically by system. For pieces of equipment not part of system, list alphabetically in separate list.
 3. Tables of Contents: Include a table of contents for each emergency, operation, and maintenance manual.

1.7 EMERGENCY MANUALS

- A. Emergency Manual: Assemble a complete set of emergency information indicating procedures for use by emergency personnel and by Owner's operating personnel for types of emergencies indicated.
- B. Content: Organize manual into a separate section for each of the following:
 - 1. Type of emergency.
 - 2. Emergency instructions.
 - 3. Emergency procedures.
- C. Type of Emergency: Where applicable for each type of emergency indicated below, include instructions and procedures for each system, subsystem, piece of equipment, and component:
 - 1. Fire.
 - 2. Flood.
 - 3. Gas leak.
 - 4. Water leak.
 - 5. Power failure.
 - 6. Water outage.
 - 7. System, subsystem, or equipment failure.
 - 8. Chemical release or spill.
- D. Emergency Instructions: Describe and explain warnings, trouble indications, error messages, and similar codes and signals. Include responsibilities of Owner's operating personnel for notification of Installer, supplier, and manufacturer to maintain warranties.
- E. Emergency Procedures: Include the following, as applicable:
 - 1. Instructions on stopping.
 - 2. Shutdown instructions for each type of emergency.
 - 3. Operating instructions for conditions outside normal operating limits.
 - 4. Required sequences for electric or electronic systems.
 - 5. Special operating instructions and procedures.

1.8 SYSTEMS AND EQUIPMENT OPERATION MANUALS

- A. Systems and Equipment Operation Manual: Assemble a complete set of data indicating operation of each system, subsystem, and piece of equipment not part of a system. Include information required for daily operation and management, operating standards, and routine and special operating procedures.
 - 1. Engage a factory-authorized service representative to assemble and prepare information for each system, subsystem, and piece of equipment not part of a system.
 - 2. Prepare a separate manual for each system and subsystem, in the form of an instructional manual for use by Owner's operating personnel.

- B. Content: In addition to requirements in this Section, include operation data required in individual Specification Sections and the following information:
1. System, subsystem, and equipment descriptions. Use designations for systems and equipment indicated on Contract Documents.
 2. Performance and design criteria if Contractor is delegated design responsibility.
 3. Operating standards.
 4. Operating procedures.
 5. Operating logs.
 6. Wiring diagrams.
 7. Control diagrams.
 8. Piped system diagrams.
 9. Precautions against improper use.
 10. License requirements including inspection and renewal dates.
- C. Descriptions: Include the following:
1. Product name and model number. Use designations for products indicated on Contract Documents.
 2. Manufacturer's name.
 3. Equipment identification with serial number of each component.
 4. Equipment function.
 5. Operating characteristics.
 6. Limiting conditions.
 7. Performance curves.
 8. Engineering data and tests.
 9. Complete nomenclature and number of replacement parts.
- D. Operating Procedures: Include the following, as applicable:
1. Startup procedures.
 2. Equipment or system break-in procedures.
 3. Routine and normal operating instructions.
 4. Regulation and control procedures.
 5. Instructions on stopping.
 6. Normal shutdown instructions.
 7. Seasonal and weekend operating instructions.
 8. Required sequences for electric or electronic systems.
 9. Special operating instructions and procedures.
- E. Systems and Equipment Controls: Describe the sequence of operation, and diagram controls as installed.
- F. Piped Systems: Diagram piping as installed, and identify color-coding where required for identification.

1.9 SYSTEMS AND EQUIPMENT MAINTENANCE MANUALS

- A. Systems and Equipment Maintenance Manuals: Assemble a complete set of data indicating maintenance of each system, subsystem, and piece of equipment not part of

a system. Include manufacturers' maintenance documentation, preventive maintenance procedures and frequency, repair procedures, wiring and systems diagrams, lists of spare parts, and warranty information.

1. Engage a factory-authorized service representative to assemble and prepare information for each system, subsystem, and piece of equipment not part of a system.
 2. Prepare a separate manual for each system and subsystem, in the form of an instructional manual for use by Owner's operating personnel.
- B. Content: For each system, subsystem, and piece of equipment not part of a system, include source information, manufacturers' maintenance documentation, maintenance procedures, maintenance and service schedules, spare parts list and source information, maintenance service contracts, and warranties and bonds as described below.
- C. Source Information: List each system, subsystem, and piece of equipment included in manual, identify by product name and arrange to match table of contents. For each piece of equipment, list name, address, and telephone number of Installer or supplier and maintenance service agent, and cross-reference Specification Section number and title in Project Manual and drawing or schedule designation or identifier where applicable.
- D. Manufacturers' Maintenance Documentation: Manufacturers' maintenance documentation including the following information for each component part or piece of equipment:
1. Standard maintenance instructions and bulletins; include only sheets pertinent to product or component installed. Mark each sheet to identify each product or component incorporated into the Work. If data include more than one item in a tabular format, identify each item using appropriate references from the Contract Documents. Identify data applicable to the Work and delete references to information not applicable.
 - a. Prepare supplementary text if manufacturers' standard printed data are not available and where the information is necessary for proper operation and maintenance of equipment or systems.
 2. Drawings, diagrams, and instructions required for maintenance, including disassembly and component removal, replacement, and assembly.
 3. Identification and nomenclature of parts and components.
 4. List of items recommended to be stocked as spare parts.
- E. Maintenance Procedures: Include the following information and items that detail essential maintenance procedures:
1. Test and inspection instructions.
 2. Troubleshooting guide.
 3. Precautions against improper maintenance.
 4. Disassembly; component removal, repair, and replacement; and reassembly instructions.

5. Aligning, adjusting, and checking instructions.
 6. Demonstration and training video recording, if available.
- F. Maintenance and Service Schedules: Include service and lubrication requirements, list of required lubricants for equipment, and separate schedules for preventive and routine maintenance and service with standard time allotment.
1. Scheduled Maintenance and Service: Tabulate actions for daily, weekly, monthly, quarterly, semiannual, and annual frequencies.
 2. Maintenance and Service Record: Include manufacturers' forms for recording maintenance.
- G. Spare Parts List and Source Information: Include lists of replacement and repair parts, with parts identified and cross-referenced to manufacturers' maintenance documentation and local sources of maintenance materials and related services.
- H. Maintenance Service Contracts: Include copies of maintenance agreements with name and telephone number of service agent.
- I. Warranties and Bonds: Include copies of warranties and bonds and lists of circumstances and conditions that would affect validity of warranties or bonds.
1. Include procedures to follow and required notifications for warranty claims.
- J. Drawings: Prepare drawings supplementing manufacturers' printed data to illustrate the relationship of component parts of equipment and systems and to illustrate control sequence and flow diagrams. Coordinate these drawings with information contained in record Drawings to ensure correct illustration of completed installation.
1. Do not use original project record documents as part of maintenance manuals.

1.10 PRODUCT MAINTENANCE MANUALS

- A. Product Maintenance Manual: Assemble a complete set of maintenance data indicating care and maintenance of each product, material, and finish incorporated into the Work.
- B. Content: Organize manual into a separate section for each product, material, and finish. Include source information, product information, maintenance procedures, repair materials and sources, and warranties and bonds, as described below.
- C. Source Information: List each product included in data identified by product name and arranged to match table of contents. For each product, list name, address, and telephone number of Installer or supplier and maintenance service agent, and cross-reference Specification Section number and title in Project Manual and drawing or schedule designation or identifier where applicable.
- D. Product Information: Include the following, as applicable:
1. Product name and model number.
 2. Manufacturer's name.

3. Color, pattern, and texture.
4. Material and chemical composition.
5. Reordering information for specially manufactured products.

E. Maintenance Procedures: Include manufacturer's written recommendations and the following:

1. Inspection procedures.
2. Types of cleaning agents to be used and methods of cleaning.
3. List of cleaning agents and methods of cleaning detrimental to product.
4. Schedule for routine cleaning and maintenance.
5. Repair instructions.

F. Repair Materials and Sources: Include lists of materials and local sources of materials and related services.

G. Warranties and Bonds: Include copies of warranties and bonds and lists of circumstances and conditions that would affect validity of warranties or bonds.

1. Include procedures to follow and required notifications for warranty claims.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 017836 WARRANTIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for warranties required by the Contract Documents, including manufacturers' standard warranties on products and special warranties.
- B. Related Sections include but are not limited to the following:
 - 1. Division 01 Section "Closeout Procedures."
 - 2. Division 01 Section "Operation and Maintenance Data."
 - 3. Division 02 through 33 Sections for specific warranty requirements.

1.3 DEFINITIONS

- A. Standard product warranties are preprinted written warranties published by individual manufacturers for particular products and are specifically endorsed by the manufacturer to the Owner.
- B. Special project warranties are written warranties required by or incorporated in the Contract Documents, either to extend time limits provided by standard warranties or to provide greater rights for the Owner.

1.4 WARRANTY REQUIREMENTS

- A. Disclaimers and Limitations: Manufacturer's disclaimers and limitations on product warranties do not relieve the Contractor of the warranty on the Work that incorporates the products. Manufacturer's disclaimers and limitations on product warranties do not relieve suppliers, manufacturers, and subcontractors required to countersign special warranties with the Contractor.
- B. Related Damages and Losses: When correcting failed or damaged warranted construction, remove and replace construction that has been damaged as a result of such failure or must be removed and replaced to provide access for correction of warranted construction.

- C. Reinstatement of Warranty: When Work covered by a warranty has failed and been corrected by replacement or rebuilding, reinstate the warranty by written endorsement. The reinstated warranty shall be equal to the original warranty with an equitable adjustment for depreciation.
- D. Replacement Cost: Upon determination that Work covered by a warranty has failed, replace or rebuild the Work to an acceptable condition complying with requirements of the Contract Documents. The Contractor is responsible for the cost of replacing or rebuilding defective Work regardless of whether the Owner has benefited from use of the Work through a portion of its anticipated useful service life.
- E. Owner's Recourse: Expressed warranties made to the Owner are in addition to implied warranties and shall not limit the duties, obligations, rights, and remedies otherwise available under the law. Expressed warranty periods shall not be interpreted as limitations on the time in which the Owner can enforce such other duties, obligations, rights, or remedies.
 - 1. Rejection of Warranties: The Owner reserves the right to reject warranties and to limit selection to products with warranties not in conflict with requirements of the Contract Documents.
- F. Where the Contract Documents require a special warranty, or similar commitment on the Work or part of the Work, the Owner reserves the right to refuse to accept the Work, until the Contractor presents evidence that entities required to countersign such commitments are willing to do so.

1.5 SUBMITTAL OF PROJECT WARRANTIES

- A. Time of Submittal: Submit written warranties on request of Architect for designated portions of the Work where commencement of warranties other than date of Substantial Completion is indicated, or when delay in submittal of warranties might limit Owner's rights under warranty.
- B. Organize warranty documents into an orderly sequence based on the table of contents of Project Manual.
- C. Warranties: Submit (2) copies of each required warranty properly executed by the Contractor, or by the Contractor, subcontractor, supplier, or manufacturer. Organize warranty documents into an orderly sequence based on the table of contents of the Project Manual.
 - 1. Warranty Electronic File: Scan warranties and bonds and assemble complete warranty and bond submittal package into a single indexed electronic PDF file with links enabling navigation to each item. Provide bookmarked table of contents at beginning of document.
 - 2. Include copy of each warranty in operation and maintenance documentation.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 017839
PROJECT RECORD DRAWINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for Project Record Drawings:
- B. Related Sections:
 - 1. Division 01 Section "Use of Architect's Electronic Files" for requirements related to use of Architect's digital data files.
 - 2. Division 01 Section "Execution" for surveys of exterior accessible routes.
 - 3. Division 01 Section "Closeout Procedures" for general closeout procedures.
 - 4. Division 01 Section "Operation and Maintenance Data" for operation and maintenance manual requirements.

1.3 RECORD DRAWING SUBMITTAL

- A. Closeout Submittal: Submit Record Drawings as follows:
 - 1. Final Submittal:
 - a. Paper Copy: Submit one paper-copy set of marked-up record prints that have been revised to address Architect's comments from the initial submittal.
 - b. Digital Data Files: Submit digital data files of Project Record Drawings as PDF files on a thumb-drive.

1.4 PROJECT RECORD DRAWINGS

- A. Record Drawings: Maintain one set of paper copies of the Contract Drawings during the construction period for Project Record Drawing Purposes.
1. Project Record Drawing print sets shall include all drawings of the Contract Documents including original project Drawings, Shop Drawings, Supplemental Drawings, Coordination Drawings, Clarification Drawings, Change Orders, and similar drawings. Record Drawing set shall include all drawings of Contract Documents whether or not changes and additional information were recorded.
 2. Store Project Record Drawings in the field office apart from the Contract Documents used for construction; do not use Project Record Drawings for construction purposes.
 3. Maintain Record Drawings in good order and in a clean, dry, legible condition, protected from deterioration and loss.
 4. Provide access to Project Record Drawings for Architect's reference during normal working hours.
 5. Incorporate new and revised drawings into Project Record Drawings as modifications are issued; do not wait until the end of Project.
 6. Mark Record Prints to show the actual installation where installation varies from that shown originally. Require individual or entity who obtained record data, whether individual or entity is Installer, subcontractor, or similar entity, to provide information for preparation of corresponding marked-up record prints.
 - a. Give particular attention to information on concealed elements that would be difficult to identify or measure and record later.
 - b. Accurately record information in an understandable drawing technique.
 - c. Record data as soon as possible after obtaining it.
 - d. Record and check the markup before enclosing concealed installations.
 - e. Cross-reference record prints to corresponding archive photographic documentation.
 7. Content: Types of items requiring marking include, but are not limited to, the following:
 - a. Dimensional changes to Drawings.
 - b. Revisions to details shown on Drawings.
 - c. Depths of foundations below first floor.
 - d. Locations and depths of underground utilities.
 - e. Revisions to routing of piping and conduits.
 - f. Revisions to electrical circuitry.
 - g. Actual equipment locations.
 - h. Duct size and routing.
 - i. Locations of concealed internal utilities.
 - j. Changes made by Change Order or Construction Change Directive.
 - k. Changes made following Architect's written orders.
 - l. Details not on the original Contract Drawings.
 - m. Field records for variable and concealed conditions.
 - n. Record information on the Work that is shown only schematically.

8. Mark the Contract Drawings and Shop Drawings completely and accurately. Use personnel proficient at recording graphic information in production of marked-up record prints.
 9. Mark record prints with erasable, red-colored pencil. Use other colors to distinguish between changes for different categories of the Work at same location.
 10. Mark important additional information that was either shown schematically or omitted from original Drawings.
 11. Note Construction Change Directive numbers, Change Order numbers, and similar identification, where applicable.
- B. Newly Prepared Record Drawings: Prepare new Drawings instead of preparing Record Drawings where Architect determines that neither the original Contract Drawings nor Shop Drawings are suitable to show actual installation.
1. New Drawings may be required when a Change Order is issued as a result of accepting an alternate, substitution, or other modification. Any alternates affecting DSA regulated items are to be fully detailed on the approved plans.
 2. Consult Architect for proper scale and scope of detailing and notations required to record the actual physical installation and its relation to other construction. Integrate newly prepared Record Drawings into Record Drawing sets; comply with procedures for formatting, organizing, copying, binding, and submitting.
- C. Record Digital Data Files: Immediately before inspection for Certificate of Substantial Completion, submit marked-up record prints to Architect, following Architect's review and action, prepare a full set of corrected digital data files of the Contract Drawings, as follows:
1. Format: PDF electronic file.
 2. Incorporate changes and additional information previously marked on record prints. Delete, redraw, and add details and notations where applicable.
 3. Refer instances of uncertainty to Architect for resolution.
 4. Architect will furnish Contractor one set of digital data files of the Contract Drawings in PDF format for use in recording information.
 - a. Refer to Division 01 Section 011105 "Use of Architect's Electronic Files" for requirements related to use of Architect's digital data files.
- D. Format:
1. Record Prints: Organize record prints into manageable sets. Bind each set with durable paper cover sheets. Include identification on cover sheets.
 2. Record Digital Data Files:
 - a. Format: Annotated PDF electronic file.
 - b. Organize digital data information into separate electronic files corresponding with each building design discipline of the Contract Documents; name each file with the corresponding design discipline.

E. Identification: Include the following information on each Record Drawing:

1. "PROJECT RECORD DRAWING" designation located in a prominent location.
2. Project name if Project name is not included in a title block as part of the drawing.
3. Date.
4. Name of Architect if Architect's name is not included in a title block as part of the drawing.
5. Name of Contractor.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 017900
DEMONSTRATION AND TRAINING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for instructing Owner's personnel in demonstration and training of operation and maintenance of systems, subsystems, and equipment.
- B. Related Sections:
 - 1. Division 01 Section "Operation and Maintenance Data" for operation and maintenance manuals and data.
 - 2. Divisions 02 through 33 Sections for specific requirements for demonstration and training for products in those Sections.

1.3 SUBMITTALS

- A. Training materials in addition to Operation and Maintenance manuals required in Division 01 Section "Operation and Maintenance Data."
- B. Instruction Program Schedule: Submit outline schedule of instructional program that includes and coordinates programs for all products, equipment, and systems requiring demonstration and training. Schedule shall include a list of training sessions, proposed dates, times, length of instruction time.
 - 1. Schedule shall be coordinated and finalized with the Owner.

1.4 QUALITY ASSURANCE

- A. Instructor Qualifications: A factory-authorized service representative experienced in operation and maintenance procedures and training of Owner's personnel.

1.5 COORDINATION

- A. Coordinate instruction schedule with Owner, adjust schedule as required to minimize disrupting Owner's operations.

- B. Coordinate instructors, including providing notification of dates, times, length of instruction time, and course content.
- C. Coordinate content of training sessions with content of approved operation and maintenance manuals. Do not submit instruction program until operation and maintenance data has been reviewed and approved by Architect.

PART 2 - PRODUCTS

2.1 INSTRUCTION PROGRAM

- A. Provide instruction programs that include training sessions for each system and for equipment not part of a system, as required by individual Specification Sections. Include instruction for the following as applicable to the system, equipment, or component:
 - 1. Basis of System Design, Operational Requirements, and Criteria: Include the following:
 - a. System, subsystem, and equipment descriptions.
 - b. Operating standards.
 - c. Regulatory requirements.
 - d. Equipment function.
 - e. Operating characteristics.
 - f. Limiting conditions.
 - g. Performance curves.
 - 2. Documentation: Review the following items in detail:
 - a. Emergency manuals.
 - b. Operations manuals.
 - c. Maintenance manuals.
 - d. Project record documents.
 - e. Identification systems.
 - f. Warranties and bonds.
 - g. Maintenance service agreements and similar continuing commitments.
 - 3. Emergencies: Include the following, as applicable:
 - a. Instructions on meaning of warnings, trouble indications, and error messages.
 - b. Instructions on stopping.
 - c. Shutdown instructions for each type of emergency.
 - d. Operating instructions for conditions outside of normal operating limits.
 - e. Sequences for electric or electronic systems.
 - f. Special operating instructions and procedures.

4. Operations: Include the following, as applicable:
 - a. Startup procedures.
 - b. Equipment or system break-in procedures.
 - c. Routine and normal operating instructions.
 - d. Regulation and control procedures.
 - e. Control sequences.
 - f. Safety procedures.
 - g. Instructions on stopping.
 - h. Normal shutdown instructions.
 - i. Operating procedures for emergencies.
 - j. Operating procedures for system, subsystem, or equipment failure.
 - k. Seasonal and weekend operating instructions.
 - l. Required sequences for electric or electronic systems.
 - m. Special operating instructions and procedures.
5. Adjustments: Include the following:
 - a. Alignments.
 - b. Checking adjustments.
 - c. Noise and vibration adjustments.
 - d. Economy and efficiency adjustments.
6. Troubleshooting: Include the following:
 - a. Diagnostic instructions.
 - b. Test and inspection procedures.
7. Maintenance: Include the following:
 - a. Inspection procedures.
 - b. Types of cleaning agents to be used and methods of cleaning.
 - c. List of cleaning agents and methods of cleaning detrimental to product.
 - d. Procedures for routine cleaning
 - e. Procedures for preventive maintenance.
 - f. Procedures for routine maintenance.
 - g. Instruction on use of special tools.
8. Repairs: Include the following:
 - a. Diagnosis instructions.
 - b. Repair instructions.
 - c. Disassembly; component removal, repair, and replacement; and reassembly instructions.
 - d. Instructions for identifying parts and components.
 - e. Review of spare parts needed for operation and maintenance.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Assemble educational materials necessary for instruction and training. Assemble training manuals organized in coordination with requirements in Division 01 Section "Operations and Maintenance Data."
- B. Coordinate with Owner for number of instruction times, location, and number of participants.
- C. Set up instructional equipment at instruction location.

3.2 INSTRUCTION

- A. Instruct Owner's personnel to adjust, operate, and maintain systems, subsystems, and equipment not part of a system.
 - 1. Owner will furnish Contractor with names and positions of participants.
- B. Scheduling: Provide instruction at mutually agreed on times. For equipment that requires seasonal operation, provide similar instruction at start of each season.
 - 1. Schedule initial training with Owner, through Architect with at least 7 days' advance notice.
- C. Cleanup: Collect used and leftover educational materials and give to Owner. Remove instructional equipment. Restore systems and equipment to condition existing before initial training use.

END OF SECTION

SECTION 024119
SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Demolition and removal of selected portions of building or structure.
 - 2. Demolition and removal of selected site elements.
- B. Related Sections include the following:
 - 1. Division 01 Section "Temporary Facilities and Controls" for temporary construction and environmental-protection measures for selective demolition operations.
 - 2. Division 01 Section "Photographic Documentation" for photographic documentation of pre-demolition conditions.
 - 3. Division 01 Section "Execution" for cutting and patching procedures, and for protection of existing construction.
 - 4. Division 01 Section "Construction Waste Management and Disposal" for salvaging, recycling, and disposing of nonhazardous demolition and construction waste.
 - 5. Division 09 Sections as applicable to adhered floor systems.

1.3 DEFINITIONS

- A. Remove: Detach items from existing construction and legally dispose of them off-site, unless indicated to be salvaged or reinstalled.
- B. Remove and Salvage to Owner: Detach item from existing construction in a manner to prevent damage and deliver to Owner ready for reuse.
- C. Remove and Salvage for Reinstallation: Detach item from existing construction in a manner to prevent damage, prepare for reuse, and securely store item until it is to be reinstalled at locations indicated.
- D. Existing to Remain: Existing items or improvements that are to remain and not be removed. Existing items to remain shall be protected from damage during the course of construction.

1.4 MATERIALS OWNERSHIP

- A. Unless otherwise indicated, demolition waste becomes property of Contractor.

1.5 SUBMITTALS

- A. Proposed Protection Measures: Submit report, including drawings, that indicates the measures proposed for protecting individuals and property, for physical damage, for dust control, and for noise control. Indicate proposed locations and construction of barriers.
- B. Schedule of Selective Demolition Activities: Indicate the following:
 - 1. Detailed sequence of selective demolition and removal work, with starting and ending dates for each activity. Ensure Owner's on-site operations are uninterrupted.
 - 2. Interruption of utility services. Indicate how long utility services will be interrupted.
 - 3. Coordination for shutoff, capping, and continuation of utility services.
 - 4. Coordination of Owner's continuing occupancy of portions of existing building and of Owner's partial occupancy of completed Work.
- C. Predemolition Photographs: Show existing conditions of adjoining construction, including finish surfaces, that might be misconstrued as damage caused by demolition operations. Comply with Division 01 Section "Photographic Documentation." Submit before Work begins.
- D. Warranties: Documentation indicated that existing warranties are still in effect after completion of selective demolition.

1.6 QUALITY ASSURANCE

- A. Demolition Firm Qualifications: An experienced firm that has specialized in demolition work similar in material and extent to that indicated for this Project.
- B. Predemolition Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination." Review methods and procedures related to selective demolition.

1.7 FIELD CONDITIONS

- A. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
- B. Survey of Existing Conditions: Record existing conditions that affect the Work by use of preconstruction photographs. Comply with requirements specified in Division 01 Section "Photographic Documentation."
- C. Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted.

- D. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
- E. Hazardous Materials: It is expected that hazardous materials will not be encountered in the Work.
 - 1. If materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify Architect and Owner. Owner will remove hazardous materials under a separate contract.
- F. Utility Services: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
 - 1. Maintain fire-protection facilities in service during selective demolition operations.
- G. Storage or sale of removed items or materials on-site is not permitted.

1.8 WARRANTY

- A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during selective demolition, by methods and with materials and using approved contractors so as not to void existing warranties. Notify warrantor before proceeding. Existing warranties include the following:
- B. Notify warrantor on completion of selective demolition, and obtain documentation verifying that existing system has been inspected and warranty remains in effect. Submit documentation at Project closeout.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
- B. Standards: Comply with ASSE A10.6 and NFPA 241.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that utilities have been disconnected and capped before starting selective demolition operations.
- B. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.

1. If unanticipated mechanical, electrical, or structural elements are encountered and found to be in conflict with intended function or design, investigate and measure the nature and extent of conflict. Promptly submit a written report to Architect.
- C. Inventory and record the condition of items to be removed and salvaged or removed and reinstalled. Provide photographs of conditions that might be misconstrued as damage caused by salvage operations.

3.2 PREPARATION

- A. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
1. Comply with requirements for access and protection specified in Division 01 Section "Temporary Facilities and Controls."
- B. Temporary Facilities: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
1. Provide temporary weather protection, during interval between selective demolition of existing construction on exterior surfaces and new construction, to prevent water leakage and damage to structure and interior areas.
 2. Protect walls, ceilings, floors, and other existing finish work that are to remain or that are exposed during selective demolition operations.

3.3 PROTECTION

- A. Temporary Protection: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
1. Provide protection to ensure safe passage of people around selective demolition area and to and from occupied portions of building.
 2. Provide temporary weather protection, during interval between selective demolition of existing construction on exterior surfaces and new construction, to prevent water leakage and damage to structure and interior areas.
 3. Protect walls, ceilings, floors, and other existing finish work that are to remain or that are exposed during selective demolition operations.
 4. Cover and protect furniture, furnishings, and equipment that have not been removed.
 5. Comply with requirements for temporary enclosures, dust control, heating, and cooling specified in Division 01 Section "Temporary Facilities and Controls."
- B. Temporary Shoring: Design, provide, and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.

1. Strengthen or add new supports when required during progress of selective demolition.
- C. Protection of Existing Construction: Protect existing construction to remain with temporary protections and construction. Do not remove existing construction unless otherwise indicated.
- D. Remove temporary barricades and protections where hazards no longer exist.

3.4 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

- A. Existing Services/Systems to Remain: Maintain services/systems indicated to remain and protect them against damage.
- B. Existing Services/Systems to Be Removed, Relocated, or Abandoned: Locate, identify, disconnect, and seal or cap off utility services and mechanical/electrical systems serving areas to be selectively demolished.
 1. Arrange to shut off utilities with Owner and/or utility companies.
 2. If services/systems are required to be removed, relocated, or abandoned, provide temporary services/systems that bypass area of selective demolition and that maintain continuity of services/systems to other parts of building.
 3. Disconnect, demolish, and remove fire-suppression systems, plumbing, and HVAC systems, equipment, and components indicated on Drawings to be removed.
 - a. Piping to Be Removed: Remove portion of piping indicated to be removed and cap or plug remaining piping with same or compatible piping material.
 - b. Piping to Be Abandoned in Place: Drain piping and cap or plug piping with same or compatible piping material and leave in place.
 - c. Equipment to Be Removed: Disconnect and cap services and remove equipment.
 - d. Equipment to Be Removed and Reinstalled: Disconnect and cap services and remove, clean, and store equipment; when appropriate, reinstall, reconnect, and make equipment operational.
 - e. Equipment to Be Removed and Salvaged: Disconnect and cap services and remove equipment and deliver to Owner.
 - f. Ducts to Be Removed: Remove portion of ducts indicated to be removed and plug remaining ducts with same or compatible ductwork material.
 - g. Ducts to Be Abandoned in Place: Cap or plug ducts with same or compatible ductwork material and leave in place.

3.5 SELECTIVE DEMOLITION, GENERAL

- A. General: Remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:

1. Proceed with selective demolition systematically, from higher to lower level. Complete selective demolition operations above each floor or tier before disturbing supporting members on the next lower level.
 2. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping, to minimize disturbance of adjacent surfaces. Temporarily cover openings to remain.
 3. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
 4. Do not use plasma or flame cutting torches without written approval from Architect. Where allowed, clear area of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain portable fire-suppression devices during flame-cutting operations. Maintain fire watch during and for at least two hours after flame-cutting operations. Maintain adequate ventilation when using cutting torches.
 5. Remove decayed, vermin-infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site.
 6. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
 7. Dispose of demolished items and materials promptly, comply with requirements of Division 01 Section "Construction Waste Management and Disposal."
- B. Minor Accessories and Fixtures: Remove minor accessories and fixtures as required to accommodate removal of existing finishes or application new finishes whether items are indicated to be removed or not.
1. Minor accessories and fixtures shall include but not be limited to toilet room accessories; classroom accessories such as pencil sharpeners coat hooks, flag holders, and similar items.
 2. Where new replacement items are not indicated or specified in other sections, minor accessories and fixtures shall be considered to be items to be removed and reinstalled.
- C. Removed and Salvaged Items:
1. Clean salvaged items.
 2. Pack or crate items after cleaning. Identify contents of containers.
 3. Store items in a secure area until delivery to Owner.
 4. Transport items to Owner's storage area.
 5. Protect items from damage during transport and storage.
- D. Removed and Reinstalled Items:
1. Clean and repair items to functional condition adequate for intended reuse.
 2. Pack or crate items after cleaning and repairing. Identify contents of containers.
 3. Protect items from damage during transport and storage.
 4. Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.

- E. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Architect, items may be removed to a suitable, protected storage location during selective demolition and reinstalled in their original locations after selective demolition operations are complete.

- 1. Items removed, salvaged, and reinstalled for the Contractor's convenience shall be considered the same as items to be removed and salvaged for reinstallation.

3.6 SELECTIVE DEMOLITION PROCEDURES FOR SPECIFIC MATERIALS

- A. Concrete: Demolish in sections. Cut concrete full depth at junctures with construction to remain and at regular intervals using power-driven saw, and then remove concrete between saw cuts.
- B. Concrete Slabs-on-Grade: Using power-driven saw, cut perimeter of area to be demolished, then break up and remove.

- 1. Where possible or feasible, cut concrete at existing joints.

3.7 DISPOSAL OF DEMOLISHED MATERIALS

- A. Recycle or dispose demolition waste materials according to Division 01 Section "Construction Waste Management and Disposal." Remove demolition waste materials from Project site and legally dispose of them in an EPA-approved construction and demolition waste landfill acceptable to authorities having jurisdiction.

- 1. Do not allow demolished materials to accumulate on-site.
 - 2. Remove and transport debris in accordance with local regulations and in a manner that will prevent spillage on adjacent surfaces and areas.

- B. Burning: Do not burn demolished materials.

3.8 CLEANING

- A. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

END OF SECTION

SECTION 024119
SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Demolition and removal of selected portions of building or structure.
 - 2. Demolition and removal of selected site elements.
- B. Related Sections include the following:
 - 1. Division 01 Section "Temporary Facilities and Controls" for temporary construction and environmental-protection measures for selective demolition operations.
 - 2. Division 01 Section "Photographic Documentation" for photographic documentation of pre-demolition conditions.
 - 3. Division 01 Section "Execution" for cutting and patching procedures, and for protection of existing construction.
 - 4. Division 01 Section "Construction Waste Management and Disposal" for salvaging, recycling, and disposing of nonhazardous demolition and construction waste.
 - 5. Division 09 Sections as applicable to adhered floor systems.

1.3 DEFINITIONS

- A. Remove: Detach items from existing construction and legally dispose of them off-site, unless indicated to be salvaged or reinstalled.
- B. Remove and Salvage to Owner: Detach item from existing construction in a manner to prevent damage and deliver to Owner ready for reuse.
- C. Remove and Salvage for Reinstallation: Detach item from existing construction in a manner to prevent damage, prepare for reuse, and securely store item until it is to be reinstalled at locations indicated.
- D. Existing to Remain: Existing items or improvements that are to remain and not be removed. Existing items to remain shall be protected from damage during the course of construction.

1.4 MATERIALS OWNERSHIP

- A. Unless otherwise indicated, demolition waste becomes property of Contractor.

1.5 SUBMITTALS

- A. Proposed Protection Measures: Submit report, including drawings, that indicates the measures proposed for protecting individuals and property, for physical damage, for dust control, and for noise control. Indicate proposed locations and construction of barriers.
- B. Schedule of Selective Demolition Activities: Indicate the following:
 - 1. Detailed sequence of selective demolition and removal work, with starting and ending dates for each activity. Ensure Owner's on-site operations are uninterrupted.
 - 2. Interruption of utility services. Indicate how long utility services will be interrupted.
 - 3. Coordination for shutoff, capping, and continuation of utility services.
 - 4. Coordination of Owner's continuing occupancy of portions of existing building and of Owner's partial occupancy of completed Work.
- C. Predemolition Photographs: Show existing conditions of adjoining construction, including finish surfaces, that might be misconstrued as damage caused by demolition operations. Comply with Division 01 Section "Photographic Documentation." Submit before Work begins.
- D. Warranties: Documentation indicated that existing warranties are still in effect after completion of selective demolition.

1.6 QUALITY ASSURANCE

- A. Demolition Firm Qualifications: An experienced firm that has specialized in demolition work similar in material and extent to that indicated for this Project.
- B. Predemolition Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination." Review methods and procedures related to selective demolition.

1.7 FIELD CONDITIONS

- A. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
- B. Survey of Existing Conditions: Record existing conditions that affect the Work by use of preconstruction photographs. Comply with requirements specified in Division 01 Section "Photographic Documentation."
- C. Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted.

- D. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
- E. Hazardous Materials: It is expected that hazardous materials will not be encountered in the Work.
 - 1. If materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify Architect and Owner. Owner will remove hazardous materials under a separate contract.
- F. Utility Services: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
 - 1. Maintain fire-protection facilities in service during selective demolition operations.
- G. Storage or sale of removed items or materials on-site is not permitted.

1.8 WARRANTY

- A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during selective demolition, by methods and with materials and using approved contractors so as not to void existing warranties. Notify warrantor before proceeding. Existing warranties include the following:
- B. Notify warrantor on completion of selective demolition, and obtain documentation verifying that existing system has been inspected and warranty remains in effect. Submit documentation at Project closeout.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
- B. Standards: Comply with ASSE A10.6 and NFPA 241.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that utilities have been disconnected and capped before starting selective demolition operations.
- B. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.

1. If unanticipated mechanical, electrical, or structural elements are encountered and found to be in conflict with intended function or design, investigate and measure the nature and extent of conflict. Promptly submit a written report to Architect.
- C. Inventory and record the condition of items to be removed and salvaged or removed and reinstalled. Provide photographs of conditions that might be misconstrued as damage caused by salvage operations.

3.2 PREPARATION

- A. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
1. Comply with requirements for access and protection specified in Division 01 Section "Temporary Facilities and Controls."
- B. Temporary Facilities: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
1. Provide temporary weather protection, during interval between selective demolition of existing construction on exterior surfaces and new construction, to prevent water leakage and damage to structure and interior areas.
 2. Protect walls, ceilings, floors, and other existing finish work that are to remain or that are exposed during selective demolition operations.

3.3 PROTECTION

- A. Temporary Protection: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
1. Provide protection to ensure safe passage of people around selective demolition area and to and from occupied portions of building.
 2. Provide temporary weather protection, during interval between selective demolition of existing construction on exterior surfaces and new construction, to prevent water leakage and damage to structure and interior areas.
 3. Protect walls, ceilings, floors, and other existing finish work that are to remain or that are exposed during selective demolition operations.
 4. Cover and protect furniture, furnishings, and equipment that have not been removed.
 5. Comply with requirements for temporary enclosures, dust control, heating, and cooling specified in Division 01 Section "Temporary Facilities and Controls."
- B. Temporary Shoring: Design, provide, and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.

1. Strengthen or add new supports when required during progress of selective demolition.
- C. Protection of Existing Construction: Protect existing construction to remain with temporary protections and construction. Do not remove existing construction unless otherwise indicated.
- D. Remove temporary barricades and protections where hazards no longer exist.

3.4 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

- A. Existing Services/Systems to Remain: Maintain services/systems indicated to remain and protect them against damage.
- B. Existing Services/Systems to Be Removed, Relocated, or Abandoned: Locate, identify, disconnect, and seal or cap off utility services and mechanical/electrical systems serving areas to be selectively demolished.
 1. Arrange to shut off utilities with Owner and/or utility companies.
 2. If services/systems are required to be removed, relocated, or abandoned, provide temporary services/systems that bypass area of selective demolition and that maintain continuity of services/systems to other parts of building.
 3. Disconnect, demolish, and remove fire-suppression systems, plumbing, and HVAC systems, equipment, and components indicated on Drawings to be removed.
 - a. Piping to Be Removed: Remove portion of piping indicated to be removed and cap or plug remaining piping with same or compatible piping material.
 - b. Piping to Be Abandoned in Place: Drain piping and cap or plug piping with same or compatible piping material and leave in place.
 - c. Equipment to Be Removed: Disconnect and cap services and remove equipment.
 - d. Equipment to Be Removed and Reinstalled: Disconnect and cap services and remove, clean, and store equipment; when appropriate, reinstall, reconnect, and make equipment operational.
 - e. Equipment to Be Removed and Salvaged: Disconnect and cap services and remove equipment and deliver to Owner.
 - f. Ducts to Be Removed: Remove portion of ducts indicated to be removed and plug remaining ducts with same or compatible ductwork material.
 - g. Ducts to Be Abandoned in Place: Cap or plug ducts with same or compatible ductwork material and leave in place.

3.5 SELECTIVE DEMOLITION, GENERAL

- A. General: Remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:

1. Proceed with selective demolition systematically, from higher to lower level. Complete selective demolition operations above each floor or tier before disturbing supporting members on the next lower level.
 2. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping, to minimize disturbance of adjacent surfaces. Temporarily cover openings to remain.
 3. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
 4. Do not use plasma or flame cutting torches without written approval from Architect. Where allowed, clear area of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain portable fire-suppression devices during flame-cutting operations. Maintain fire watch during and for at least two hours after flame-cutting operations. Maintain adequate ventilation when using cutting torches.
 5. Remove decayed, vermin-infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site.
 6. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
 7. Dispose of demolished items and materials promptly, comply with requirements of Division 01 Section "Construction Waste Management and Disposal."
- B. Minor Accessories and Fixtures: Remove minor accessories and fixtures as required to accommodate removal of existing finishes or application new finishes whether items are indicated to be removed or not.
1. Minor accessories and fixtures shall include but not be limited to toilet room accessories; classroom accessories such as pencil sharpeners coat hooks, flag holders, and similar items.
 2. Where new replacement items are not indicated or specified in other sections, minor accessories and fixtures shall be considered to be items to be removed and reinstalled.
- C. Removed and Salvaged Items:
1. Clean salvaged items.
 2. Pack or crate items after cleaning. Identify contents of containers.
 3. Store items in a secure area until delivery to Owner.
 4. Transport items to Owner's storage area.
 5. Protect items from damage during transport and storage.
- D. Removed and Reinstalled Items:
1. Clean and repair items to functional condition adequate for intended reuse.
 2. Pack or crate items after cleaning and repairing. Identify contents of containers.
 3. Protect items from damage during transport and storage.
 4. Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.

- E. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Architect, items may be removed to a suitable, protected storage location during selective demolition and reinstalled in their original locations after selective demolition operations are complete.

- 1. Items removed, salvaged, and reinstalled for the Contractor's convenience shall be considered the same as items to be removed and salvaged for reinstallation.

3.6 SELECTIVE DEMOLITION PROCEDURES FOR SPECIFIC MATERIALS

- A. Concrete: Demolish in sections. Cut concrete full depth at junctures with construction to remain and at regular intervals using power-driven saw, and then remove concrete between saw cuts.
- B. Concrete Slabs-on-Grade: Using power-driven saw, cut perimeter of area to be demolished, then break up and remove.

- 1. Where possible or feasible, cut concrete at existing joints.

3.7 DISPOSAL OF DEMOLISHED MATERIALS

- A. Recycle or dispose demolition waste materials according to Division 01 Section "Construction Waste Management and Disposal." Remove demolition waste materials from Project site and legally dispose of them in an EPA-approved construction and demolition waste landfill acceptable to authorities having jurisdiction.

- 1. Do not allow demolished materials to accumulate on-site.
 - 2. Remove and transport debris in accordance with local regulations and in a manner that will prevent spillage on adjacent surfaces and areas.

- B. Burning: Do not burn demolished materials.

3.8 CLEANING

- A. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

END OF SECTION

SECTION 101400 SIGNAGE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:

- 1. Interior and exterior panel signs for room or space identification.

- B. Related Sections:

- 1. Division 01 Section "Temporary Facilities and Controls" for Project identification signage.
 - 2. Division 10 Section "Dimensional Sign Characters" for individual character signs.
 - 3. Division 10 Section "Cast Metal Plaques" for cast metal dedication plaques.
 - 4. Division 10 Section "Photoluminescent Exit Signs" for photoluminescent signs.
 - 5. Division 22, 23, and 26 Sections as applicable to Plumbing, Mechanical, and Electrical Work for tags and nameplates for equipment.

1.3 SUBMITTALS

- A. Product Data: Manufacturer's product data including construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of sign.
- B. Shop Drawings: Include plans, elevations, and full-scale template layout of characters and other components. Show mounting methods, grounds, mounting heights, layout, spacing, reinforcement, accessories, and installation details.
 - 1. Provide message list for each sign, including large-scale details of wording, lettering, and Braille layout.
- C. Schedule: Schedule indicating sign locations, type, other pertinent data, and referenced to rooms or doors with the same referencing as used on the Drawings.
- D. Braille Text Certification: Provide certification from the sign manufacturer that Braille text complies with regulatory requirements indicated (Contracted (Grade 2) per CBC Section 11B-703.3).
- E. Braille Text Translation Confirmation: Provide confirmation of Braille text translations.

- F. Samples for Initial Selection: Manufacturer's color charts consisting of actual units or sections of units showing the full range of colors available for each type of sign and material indicated.
- G. Samples for Verification: Provide 2 full size sample signs showing edge and corner condition, border, text characters of height specified, Braille text, and selected colors, of each type of sign indicated. Sample will be retained by Architect.
- H. Maintenance Data: For signage cleaning and maintenance requirements to include in maintenance manuals.

1.4 QUALITY ASSURANCE

- A. Source Limitations: Obtain each sign type through one source from a single manufacturer.

1.5 FIELD CONDITIONS

- A. Field Measurements: Where sizes of signs are determined by dimensions of surfaces on which they are installed, verify dimensions by field measurement before fabrication and indicate measurements on Shop Drawings.

1.6 WARRANTY

- A. Warranty: Manufacturer's standard form in which manufacturer agrees to replace signs that fail in materials or workmanship within specified warranty period.
 - 1. Damage from deliberate destruction and vandalism is excluded.
 - 2. Warranty Period for Interior Signs: Building lifetime.
 - 3. Warranty Period for Exterior Signs: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 REGULATORY REQUIREMENTS FOR SIGNS

- A. Regulatory Requirements: Comply with requirements of the following:
 - 1. 2010 ADA Standards for Accessible Design.
 - 2. ANSI A117.1.
 - 3. California Building Code, Sections 11B-216 and 11B-703.
- B. Room or Space Identification Signs, CBC 11B-216.2: Where provided, signs identifying permanent rooms and spaces shall comply with CBC Sections 11B-703.1, 11B-703.2, 11B-703.3, and 11B-703.5. Where pictograms are provided as designations of permanent rooms and spaces, the pictograms shall comply with CBC Section 11B-703.6 and shall have text descriptors complying with CBC Sections 11B-703.2 and

11B-703.5. Exterior signs that are not located at the door to the space they serve shall not be required to comply with CBC Section 11B-703.2.

- C. Directional and Informational Signs, CBC 11B-216.3: Signs that provide direction to or information about spaces and facilities shall comply with CBC Section 11B-703.5.
- D. Means of Egress Signs, CBC 11B-216.4: Tactile exit signs required by CBC Section 1013.4 at doors to exit passageways, exit discharge, and exit stairways shall comply with CBC Sections 11B-703.1, 11B-703.2, 11B-703.3, and 11B-703.5.
- E. Inspection, CBC 11B-703.1.1.2: Signs and identification devices shall be field inspected after installation and approved by the enforcing agency prior to the issuance of a final certificate of occupancy per Chapter 1, Division II, Section 111, or final approval where no certificate of occupancy is issued. The inspection shall include, but not be limited to, verification that Braille dots and cells are properly spaced and the size, proportion and type of raised characters are in compliance with the regulations of CBC Section 11B-703.
- F. Raised Characters, CBC 11B-703.2: Raised characters shall comply with CBC Section 11B-703.2 and shall be duplicated in Braille complying with CBC Section 11B-703.3. Raised characters shall be installed in accordance with CBC 11B-703.4.
 - 1. Depth: Raised characters shall be raised 1/32-inch minimum above their background.
 - 2. Case: Raised characters shall be upper case.
 - 3. Style: Raised characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or other unusual forms.
 - 4. Character Proportions: Raised characters (Text) on signs shall be selected from fonts where the width of the uppercase letter "O" is 60 percent minimum and 110 percent maximum of the height of the uppercase letter "I".
 - 5. Character Height: Character height measured vertically from the baseline of the character shall be of 5/8-inch minimum and 2-inches maximum based on the height of the uppercase letter "I".
 - 6. Stroke Thickness: Stroke thickness of the uppercase letter "I" shall be 15 percent maximum of the height of the character.
 - 7. Character Spacing: Character spacing shall be measured between the two closest points of adjacent raised characters within a message, excluding word spaces. Where characters have rectangular cross sections, spacing between individual raised characters shall be 1/8 inch minimum and 4 times the raised character stroke width maximum. Where characters have other cross sections, spacing between individual raised characters shall be 1/16 inch minimum and 4 times the raised character stroke width maximum at the base of the cross sections, and 1/8 inch minimum and 4 times the raised character stroke width maximum at the top of the cross sections. Characters shall be separated from raised borders and decorative elements 3/8 inch minimum.
 - 8. Line Spacing: Spacing between the baselines of separate lines of raised characters within a message shall be 135 percent minimum and 170 percent maximum of the raised character height.
 - 9. Format: Text shall be in a horizontal format.
 - 10. Finish and Contrast: Characters and their background shall have a non-glare finish. Characters shall contrast with their background with either light characters

on a dark background or dark characters on a light background. Requirement applies to all signs.

G. Braille, CBC 11B-703.3: Braille shall be contracted (Grade 2) and shall comply with CBC Sections 11B-703.3 and 11B-703.4.

1. Dimensions and Capitalization (CBC 11B-703.3.1): Braille dots shall have a domed or rounded shape and shall comply with CBC Table 11B-703.3.1. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, and acronyms. Braille dot physical requirements shall be per CBC Table 11B-703.3.1 as indicated below; dimensions for distances are measured from center to center of Braille dots:
 - a. Dot Base Diameter: 0.059 inch minimum, 0.063 inch maximum.
 - b. Distance between Two Dots in the same Cell: 0.100 inches.
 - c. Distance between corresponding Dots in adjacent Cells: 0.300 inches.
 - d. Dot Height: 0.025 inch minimum, 0.037 inch maximum.
 - e. Distance between corresponding Dots from one cell directly below: 0.395 inch minimum, 0.400 inch maximum.
2. Position (CBC 11B-703.3.2): Braille shall be positioned below the corresponding text in a horizontal format, flush left, or centered. If text is multi-lined, Braille shall be placed below the entire text. Braille shall be separated 3/8 inch minimum and 1/2 inch maximum from any other tactile characters and 3/8 inch minimum and from raised borders and decorative elements.

H. Sign Installation Height and Location, CBC 11B-703.4:

1. Height Above Ground or Floor: Tactile characters on signs shall be located 48 inches minimum above the finish floor or ground surface, measured from the baseline of the lowest Braille cells and 60 inches maximum above the finish floor or ground surface, measured from the baseline of the highest line of raised characters.
2. Location: Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leafs, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches minimum by 18 inches minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position. Where provided, signs identifying permanent rooms and spaces shall be located at the entrance to, and outside of the room or space. Where provided, signs identifying exits shall be located at the exit door when approached in the direction of egress travel.

I. Visual Characters, CBC 11B-703.5: Visual characters are considered to be intended for signage that is not accompanied by Braille. (The requirements of this Section do not apply to room identification signage).

1. Finish and Contrast: Characters and their background shall have a non-glare finish. Characters shall contrast with their background with either light characters on a dark background or dark characters on a light background. Requirement applies to all signs.
2. Case: Characters shall be upper case or lower case or a combination of both.
3. Style: Characters shall be conventional in style. Characters shall not be italic, oblique, script, highly decorative, or other unusual forms.
4. Character Proportions: Characters shall be selected from fonts where the width of the uppercase letter "O" is 60 percent minimum and 110 percent maximum of the height of the uppercase letter "I".
5. Character Height: Minimum character height shall be based on the uppercase letter "I" and shall comply with CBC Table 11B-703.5.5 as follows:
 - a. Height of baseline of character from finish floor:
 - 1) 40 inches minimum to less than or equal to 70 inches with a horizontal viewing distance of:
 - a) Less than 72 inches: Minimum character height to be 5/8 inch.
 - b) 72 inches and Greater: Minimum character height to be 5/8 inch plus 1/8 inch for each foot of viewing distance beyond 72 inches.
 - 2) Greater than 70 inches to less than or equal to 120 inches with a horizontal viewing distance of:
 - a) Less than 180 inches: Minimum character height to be 2 inches.
 - b) 180 inches and Greater: Minimum character height to be 2 inches plus 1/8 inch for each foot of viewing distance beyond 180 inches.
 - 3) Greater than 120 inches, with a horizontal viewing distance of:
 - a) Less than 21 feet: Minimum character height to be 3 inches.
 - b) 21 feet and Greater: Minimum character height to be 3 inches plus 1/8 inch for each foot of viewing distance beyond 21 feet.
6. Height from Finish Floor or Ground: Visual characters shall be 40 inches minimum above the finish floor or ground measured to the baseline of the character.
7. Stroke Thickness: Stroke thickness of the uppercase letter "I" shall be 10 percent minimum and 20 percent maximum of the height of the character.
8. Character Spacing: Character spacing shall be measured between the two closest points of adjacent raised characters, excluding word spaces. Spaces between individual characters shall be 10 percent minimum and 35 percent maximum of character height.
9. Line Spacing: Spacing between the baselines of separate lines of characters within a message shall be 135 percent minimum and 170 percent maximum of the raised character height.
10. Format: Text shall be in a horizontal format.

J. Pictograms, CBC 11B-703.6:

1. Pictogram Field: Pictograms shall have a field height of 6 inches minimum. Characters and Braille shall not be located in the pictogram field.
2. Finish and Contrast: Pictograms and their field shall have a non-glare finish. Pictograms shall contrast with their field with either a light pictogram on a dark field or a dark pictogram on a light field.
3. Text Descriptors: Pictograms shall have text descriptors located directly below the pictogram field. Text descriptors shall comply with CBC Sections 11B-703.2, 11B-703.3, and 11B-703.4.

K. Symbols of Accessibility, CBC 11B-703.7:

1. Finish and Contrast: Symbols of accessibility and their background shall have a non-glare finish. Symbols of accessibility shall contrast with their background with either a light symbol on a dark background or a dark symbol on a light background.
2. Symbols:
 - a. International Symbol of Accessibility (ISA): ISA symbols shall comply with CBC Figure 11B-703.7.2.1. The symbol shall consist of a white figure on a blue background. The blue shall be Color No. 15090 in Federal Standard 595B.
 - b. International Symbol of Teletypewriter (TTY): The International Symbol of Teletypewriter (TTY) shall comply with CBC Figure 11B-703.7.2.2.
 - c. Volume Control Telephones: Telephones with a volume control shall be identified with a pictogram complying with CBC Figure 11B-703.7.2.3.
 - d. Assistive Listening Systems: Assistive listening systems shall be identified by the International Symbol of Access for Hearing loss complying with CBC Figure 11B-703.7.2.4.
 - e. Toilet and Bathing Facilities, Geometric Symbols: Doorways leading to toilet and bathing rooms shall be identified by a geometric symbol complying with CBC Section 11B-703.7.2.6. The symbol shall be mounted at 58 inches minimum and 60 inches maximum above the finish floor measured from the centerline of the symbol. Where a door is provided, the symbol shall be mounted within 1 inch of the vertical centerline of the door.
 - 1) Men's Toilet and Bathing Facilities: Men's toilet and bathing facilities shall be identified by an equilateral triangle, 1/4 inch thick, with edges 12 inches long and a vertex pointing upward. The triangle symbol shall contrast with the door, either light on dark background or dark on a light background.
 - 2) Women's Toilet and Bathing Facilities: Women's toilet and bathing facilities shall be identified by a circle, 1/4 inch thick and 12 inches in diameter. The circle symbol shall contrast with the door, either light on dark background or dark on a light background.
 - 3) Unisex Toilet and Bathing Facilities: Unisex toilet and bathing facilities shall be identified by a circle, 1/4 inch thick and 12 inches in diameter with a 1/4 inch thick triangle with a vertex pointing upward superimposed on the circle and within the 12 inch diameter. The triangle symbol shall contrast with the circle symbol, either light on

dark background or dark on a light background, the circle symbol shall contrast with the door, either light on dark background or dark on a light background.

- 4) Edges and Corners: Edges of geometric symbols shall be rounded, chamfered, or eased. Corners of geometric symbols shall have a minimum radius of 1/8 inch.

2.2 MANUFACTURERS

- A. Manufacturers, Basis-of-Design Products: In other Articles where named manufacturer's products are indicated, Drawings and Specifications are based on products manufactured by:

1. Best Sign Systems Inc.

- a. Subject to compliance with requirements, provide products indicated or comparable products by one of the following:

- 1) ASI-Modulex, Inc.
- 2) Gemini Incorporated.

2.3 PANEL SIGNS

- A. General: Provide smooth panel sign surfaces constructed to remain flat under installed conditions within tolerance of plus or minus 1/16 inch measured diagonally from corner to corner complying with requirements indicated for materials, thicknesses, finishes, colors, designs, shapes, sizes, and details of construction.
- B. Design Requirements: Panel signs shall comply with Part 2 Article "Regulatory Requirements for Signs."
- C. Scheduled Signs: Provide signs as indicated on Drawings and as scheduled in Part 3 Article "Sign Schedule."
- D. Interior Panel Signs: Basis of Design: Best Sign Systems, Inc., HC 300 Series signs complying with the following requirements:
 1. Material: Best Sign Systems Inc., MP Plastic, phenolic-backed melamine plastic laminate faced sheet, 0.25-inch thick.
 2. Edge Condition: Beveled.
 3. Corner Condition: Rounded to radius of 1/2 inch.
 4. Border: 3/8-inch wide.
 5. Text Font: Standard Medium.
 6. Text Height: As indicated on Drawings.
 7. Mounting: Unframed, wall mounted.
 8. Color: As selected by Architect from manufacturer's full range, text and border shall contrast with background.

- E. Exterior Panel Signs: Basis of Design: Best Sign Systems, Inc., HC 300 Series signs complying with the following requirements:
 - 1. Material: Fiberglass Sheet, 0.25-inch thick.
 - 2. Edge Condition: Beveled.
 - 3. Corner Condition: Rounded to radius of 1/2 inch.
 - 4. Border: 3/8-inch wide.
 - 5. Text Font: Standard Medium
 - 6. Text Height: As indicated on Drawings.
 - 7. Mounting: Unframed, wall mounted.
 - 8. Color: As selected by Architect from manufacturer's full range, text and border shall contrast with background.
- F. Sign Backs/Blanks: Provide matching sign blanks for signs mounted to transparent and/or semi-transparent glazed surfaces to conceal exposed sign backs.
 - 1. Where sign backs/blanks are located within the interior of the building, signs shall be of the same material as other interior signs.
 - 2. Where sign backs/blanks are located on the exterior of the building, signs shall be of the same material as other exterior signs.
 - 3. Profile and size of sign backs/blanks shall match that of the sign backs that are to be concealed.

2.4 ACCESSORIES

- A. Mechanical Fasteners: Use tamper resistant fasteners fabricated from materials that are not corrosive to sign material and mounting surface.
- B. Adhesives: As recommended by sign manufacturer and with a VOC content of 70 g/L or less for adhesives used inside the weatherproofing system and applied on-site when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
- C. Two-Face Tape: Manufacturer's standard high-bond, foam-core tape, 0.045 inch thick, with adhesive on both sides.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. General: Locate signs and accessories where indicated, using mounting methods of types described and in compliance with manufacturer's written instructions.
 - 1. Install signs level, plumb, and with sign surfaces free from distortion and other defects in appearance.
 - 2. Install signs at locations required by regulatory requirements, as indicated on the Drawings, and per this Specification section.
- B. Height: Install signs at heights indicated on Drawings and to comply with regulatory requirements indicated in Part 2 Article "Regulatory Requirements for Signs" of this specification Section.
 - 1. Sign mounting height shall be consistent for the Project.
- C. Location Relative to Door Openings: Install signs relative to door openings as indicated on Drawings and to comply with regulatory requirements indicated in Part 2 Article "Regulatory Requirements for Signs" of this specification Section.
 - 1. Sign location relative to door openings shall be consistent for the Project.
- D. Wall-Mounted Panel Signs: Attach panel signs to wall surfaces using methods indicated below:
 - 1. Vinyl-Tape Mounting: Use double-sided foam tape to mount signs to smooth, nonporous surfaces that cannot be drilled or screwed. Do not use this method for vinyl-covered or rough surfaces.
 - 2. Silicone-Adhesive Mounting: Use liquid-silicone adhesive recommended in writing by sign manufacturer to attach signs to irregular, porous, or vinyl-covered surfaces. Use double-sided vinyl tape where recommended in writing by sign manufacturer to hold sign in place until adhesive has fully cured.
 - 3. Mechanical Fasteners: Use non-removable mechanical fasteners placed through predrilled holes. Attach signs with fasteners and anchors suitable for secure attachment to substrate as recommended in writing by sign manufacturer.
 - 4. Where panel signs are mounted on glass, provide matching plate on opposite side of glass to conceal mounting materials.

3.3 CLEANING AND PROTECTION

- A. After installation, clean soiled sign surfaces according to manufacturer's written instructions. Protect signs from damage until acceptance by Owner.
- B. Clean per manufacturer's recommendation prior to final inspection.

3.4 SIGN SCHEDULE

- A. Interior Room Identification Signs: Provide interior room identification signage adjacent to doors as indicated and scheduled on the Drawings.

1. Text Content: Identify rooms by number and name unless otherwise indicated. Room names and numbering shall comply with Owner's instructions (not Architect's referencing or numbering as indicated on the Drawings).
 2. Text Height: As indicated on Drawings and in compliance with referenced CBC and ADA requirements.
 3. Sign Size: As indicated on drawings.
- B. Tactile Exit Signs: Provide tactile exit signs at locations indicated on Drawings, as required to comply with regulatory requirements, and as follows:
1. Exterior Doors: Each grade level exterior exit door from a room or space having an illuminated exit sign shall be identified by a tactile exit sign with the word "EXIT".
 2. Interior Rooms to Exits: Each exit door to a corridor, exit enclosure, or exit passageway, from a room having an illuminated exit sign shall be identified by a tactile exit sign with the words "EXIT ROUTE".
- C. Toilet Room Identification Signs: Signage shall consist of door mounted geometric symbols and wall mounted identification signs to comply with regulatory requirements and as indicated on the Drawings.
- D. Exterior Room/Space Identification Signs: Provide exterior identification signage at exterior public access doors to each usable or occupied space of the building.
1. Text Content: Identify building areas by functional use. Text content shall comply with Owner's instructions.
 2. Text Height: As indicated on Drawings and in compliance with referenced CBC and ADA requirements.
 3. Sign Size: As indicated on drawings.

END OF SECTION

SECTION 131100
SWIMMING POOL GENERAL REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 WORK INCLUDED

- A. The scope of the work included under this Section of the Specifications shall include swimming pool(s) as illustrated on the Drawings and specified herein. The General and Supplementary Conditions of the Specifications shall form a part and be included under this Section of the Specifications. The Swimming Pool Subcontractor shall provide all supervision, labor, material, equipment, machinery, plant and any and all other items necessary to complete the work. **ALL OF THE WORK IN SECTIONS 13 1100 - 131109 IS TO BE THE RESPONSIBILITY OF ONE EXPERIENCED SWIMMING POOL SUBCONTRACTOR PRIMARILY ENGAGED IN THE CONSTRUCTION OF COMMERCIAL PUBLIC-USE SWIMMING POOLS. A SWIMMING POOL SUBCONTRACTOR SHALL BE CONSIDERED PRIMARILY ENGAGED AS REQUIRED HEREIN IF THE SUBCONTRACTOR DERIVED 50% OF ITS ANNUAL REVENUE FROM PUBLIC-USE SWIMMING POOL CONSTRUCTION FOR EACH OF THE LAST FIVE YEARS. THE SUBCONTRACTOR MUST HAVE ALSO, IN THE LAST FIVE YEARS CONSTRUCTED AT LEAST FIVE (5) COMMERCIALLY DESIGNED MUNICIPAL AND PUBLIC-USE SWIMMING POOLS, EACH OF WHICH SHALL HAVE INCORPORATED A MINIMUM SIZE OF 6,000 SQUARE FEET OF WATER SURFACE AREA WITH A CONCRETE AND CERAMIC TILE PERIMETER OVERFLOW GUTTER AND SELF-MODULATING BALANCE TANK.** The Swimming Pool Subcontractor shall furnish and install the swimming pool structures, finishes, cantilever forming, swimming pool mechanical and electrical systems, and all accessories necessary for a complete, functional swimming pool system, as herein described. Work shall include start-up, instruction of Owner's personnel, as-built drawings and warranties as required.

1.3 CODES, RULES, PERMITS, FEES

- A. The swimming pools shall be constructed in strict accordance with the applicable provisions set forth by authorities having jurisdiction over swimming pool construction and operation in the State of California.
- B. The Swimming Pool Subcontractor shall give all necessary notices, obtain all permits, and pay all government sales taxes, fees, and other costs in connection with their work; file all necessary plans, prepare all documents and obtain all necessary

approvals of governmental departments having jurisdiction; obtain all required certificates of inspection for their work and deliver same to the Designated Representative before request for acceptance and final payment for the work.

- C. The Swimming Pool Subcontractor shall include in the work any labor, materials, services, apparatus, or drawings in order to comply with all applicable laws, ordinances, rules and regulations, whether or not shown on Drawings and/or specified.
- D. The Contractor shall submit all required documents and materials to all Governmental Departments having jurisdiction for any deferred approval items or substituted materials or products to obtain final approval to installation.

1.4 DESCRIPTION OF WORK

- A. Furnish and perform supervision, coordination, all layout, formwork, excavation, hand trim, disposing off-site of all unused material or debris to complete the swimming pool excavation to the dimensions shown on the plans.
- B. Furnish and install complete swimming pool structures, including reinforcing steel and cast-in-place or concrete walls cantilever.
- C. Furnish and install swimming pool finishes, including ceramic tile and marble plaster or other waterproof finishes.
- D. Furnish and install complete swimming pool mechanical system(s), including, but not limited to, circulation systems, and all pumps, piping, valves, and connections between system(s) and swimming pool(s).
- E. Furnish and install all swimming pool cantilever forming, deck equipment and required anchors and inserts for the specified equipment as required by code, shown on the Drawings and specified herein.
- F. After the initial filling of the swimming pool system(s), should any repairs, continuing work, or other Subcontractor responsibility require drainage or partial drainage of the swimming pool systems, the Swimming Pool Subcontractor shall be responsible for any subsequent refilling and shall complete the project with the swimming pool system(s) full of water, water in chemical balance, complete in every way, and in full operation.

1.5 ASSIGNED RESPONSIBILITIES AND RELATED WORK

- A. It is the intent of this section of the Specifications to clarify Work responsibilities of the trades directly and indirectly involved in construction of the pool systems. All labor, equipment, materials and supplies furnished by the Swimming Pool Subcontractor and other Subcontractors per the contractual agreement with the General Contractor and Owner and shall be as directed by the Owner through their Designated Representative.
- B. THE SWIMMING POOL SUBCONTRACTOR SHALL NOT SUBCONTRACT ANY PORTION OF THE SWIMMING POOL CONSTRUCTION OR SWIMMING POOL**

EQUIPMENT INSTALLATION TO ANYONE OTHER THAN A SUBCONTRACTOR THAT SATISFIES THE REQUIREMENTS OF SECTION 131100

- C. References to “swimming pool systems” shall include the swimming pools, equipment, and accessories.
- D. The Owner will provide one complete water filling of the swimming pool(s), but will not assume any responsibility for the swimming pool system(s) until they have been proved fully operational, complete in every way and accepted by the Designated Representative.

1.6 RESPONSIBILITIES OF THE CONTRACTOR

- A. The Contractor shall provide adequate temporary light, electric power, heat and ventilation per Federal and State OSHA requirements to construct the swimming pool system(s).
- B. The Contractor shall not permit any heavy equipment activity over any area or within five (5) feet of any area under which swimming pool piping is buried. There shall be no exceptions to this requirement.
- C. The Contractor shall keep the swimming pool excavation(s) and swimming pool structure(s) free of construction residue and waste materials of their workmen or Subcontractors, removing said material from the swimming pools as required.
- D. The Contractor shall protect the swimming pool(s) from damage caused by their construction equipment and /or workmen and Subcontractors.
- E. The Contractor shall provide a representative at time of swimming pool start-up to coordinate all trades related to swimming pool system(s).

1.7 RESPONSIBILITIES OF THE MECHANICAL SUBCONTRACTOR

- A. The Mechanical Subcontractor shall not utilize any swimming pool piping trench for installation of any sanitary sewer, storm sewer, domestic water, hot water, chilled water or natural gas line.
- B. The Mechanical Subcontractor shall provide a representative at time of swimming pool start-up to coordinate work related to swimming pool system(s).

1.8 RESPONSIBILITIES OF THE ELECTRICAL SUBCONTRACTOR

- A. The Electrical Subcontractor shall furnish any temporary power needed by the Swimming Pool Subcontractor within fifty (50) feet of the swimming pool construction site(s).
- B. The Electrical Subcontractor shall furnish and install all conduits, conductors, starters/disconnects, panels, circuits, switches and equipment as required for lighting,

within swimming pool Mechanical Room as required by code, shown on the Drawings, and herein specified.

- C. The Electrical Subcontractor shall furnish and install all conduits, conductors, panels, circuits, switches and equipment for area lighting as required by code, shown on the Drawings, and herein specified.
- D. All equipment, material and installation shall be as required under Division 16 of the Specifications and shall conform to NEC Article 680 (latest revision), State and Local Codes, and as may be required by all authorities having jurisdiction over swimming pool construction within the State of California.
- E. The Electrical Subcontractor shall provide a representative at time of swimming pool start-up to coordinate work related to swimming pool system(s).

1.9 INTENT

- A. It is the intention of these specifications and Drawings to call for finished work, tested and ready for operation. Wherever the work "provide" is used, it shall mean "furnish and install complete and ready for use."
- B. Minor details not usually shown or specified, but necessary for proper installation and operation, shall be included in the work, the same as if herein specified or shown.

1.10 SCHEDULE OF VALUES

- A. Provide a Schedule of Values for all work specified in each of the technical specifications listed in the table below, regardless of whether the work is performed by the swimming pool contractor or others. Values listed shall be fully burdened, with contractor general conditions, overhead, profit and bonds included. Payments for swimming pool work completed shall not be approved until Schedule of Values has been submitted to and approved by Architect.

SWIMMING POOL SCHEDULE OF VALUES

No.	Section #	Description	Value
1.	131102	Swimming Pool Concrete	
2.	131104	Swimming Pool Ceramic Tile	
3.	131105	Swimming Pool Plaster	
4.	131106	Swimming Pool Equipment	
5.	131107	Swimming Pool Mechanical	
6.	131108	Swimming Pool Electrical	
Total			

1.11 SUBMITTAL PROCEDURES

- A. General: Electronic copies of CAD Drawings of the Contract Drawings will not be provided by Architect for Subcontractor's use in preparing submittals.
- B. Coordination: Coordinate preparation and processing submittals with performance construction activities.
 - 1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity. Coordinate transmittal of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.
 - a. Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
- C. Submittals Schedule: Comply with requirements in Division 1 Section "Construction Progress Documentation" for list of submittals and time requirements for schedules performance of related construction activities.
- D. Processing Time: Allow enough time for submittal review, including time for re-submittals as follows. Time for review shall commence on Architect's receipt of submittal.
 - 1. Initial Review: Allow fifteen (15) days for initial review of each submittal. Allow additional time if processing must be delayed to permit coordination with subsequent submittals. Architect will advise Contract when a submittal being processed must be delayed for coordination.
 - 2. Concurrent Review: Where concurrent review of submittals by Architect's consultants, Owner, or other parties is required, allow twenty-one (21) days for initial review of each submittal.
 - 3. Direct Transmittal to Consultant: Where the Contract Documents indicate that submittals may be transmitted directly to Architect's consultants, provide duplicate copy of transmittal to Architect. Submittal will be returned to Architect before being returned to Subcontractor.
 - 4. If intermediate submittal is necessary, process it in same manner as initial submittal.
 - 5. Allow fifteen (15) days for processing each submittal.
 - 6. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing.
- E. Identification: Place a title block on each submittal for identification.
 - 1. Indicate name of firm or entity that prepared each submittal on title block.
 - 2. Provide a space on title block to record Subcontractor's review and approval markings and action taken by Architect.
 - 3. Include the following information on title block for processing and recording action taken: (See Attached Sample)
 - a. Project name.

- b. Date.
- c. Name and address of Subcontractor.
- d. Name of Subcontractor.
- e. Name of Supplier.
- f. Name of Manufacturer.
- g. Unique identifier, including revision number.
- h. Number and title of appropriate Specification Section.
- i. Drawing number and detail references, as appropriate.
- j. Other necessary identification.

SUBMITTAL FOR:**SUBMITTAL TO:****SUBCONTRACTOR:**

Item Number: _____

Section Number: _____

Section Description: _____

Subcontractor: _____

Supplier: _____

Manufacturer: _____

Product Code: _____

Quantity: _____

Subcontractor Certification:

Contractor's Submittal Stamp:

It is hereby certified that the equipment or material designated in this submittal is proposed to be incorporated in the above named project and is in compliance with the contract drawings and / or specifications and is submitted for approval.

Certified by: _____

Date: _____

Job _____

Superintendent: _____

Revisions: _____

Architect's Review Stamp and Comments

- F. Deviations: Highlight, encircle, or otherwise identify deviations from the Contract documents on submittal.
- G. On all catalogue or cut sheets identify which model or type is being submitted.
- H. Transmittal: Package each submittal individually and appropriately for transmittal and handling. Product data and shop drawings shall be packaged within a three-ring binder and colored samples shall be packaged on a heavy cardboard. Transmit each submittal using a transmittal form.
 - 1. On an attached separate sheet, prepared on Subcontractor's letterhead, record relevant information, request for data, revisions other than those requested by Architect on previous submittals and deviations from requirements of the Contract documents, including minor variations and limitations. Include the same label information as the related submittal.
 - 2. Include Subcontractor's certification stating that information submitted complies with requires of the Contract Documents.
 - 3. Transmittal Form: Provide locations on form for the following information:
 - a. Project name.
 - b. Date.
 - c. Destination (To:).
 - d. Source (From:).
 - e. Names of Subcontractor, manufacturer, and supplier.
 - f. Category and type of submittal.
 - g. Submittal purpose and description.
 - h. Remarks.
- I. Distribution: Furnish copies of final submittals to manufacturers, Subcontractors, suppliers, fabricators, installers, authorities having jurisdiction and others as necessary for performance of construction activities. Show distribution on transmittal forms.
- J. Use for Construction: Use only final submittals with mark indicating action taken by Architect in connection with construction.

1.12 SUBSTITUTIONS

- A. To obtain approval to use unspecified products, bidders shall submit requests for substitution at least ten (10) days prior to bid date. Requests shall only be considered if they clearly describe the product for which approval is asked, including all data necessary to demonstrate acceptability. All unspecified products and equipment will be considered on an "or equal" basis at the discretion of the Designated Representative. Requests for substitution received after the specified deadline will not be considered. Where a conflict exists between the requirements of the General Conditions / Special Conditions / Division 1 concerning substitutions and the requirements of this Article, this Article (Section 131100, Article 1.10) shall govern.
- B. Where the Swimming Pool Subcontractor proposes to use an item of equipment other than that specified or detailed on the Drawings which requires any redesign of the

structure, partitions, foundations, piping, wiring, or any other part of the architectural, mechanical, or electrical layout, all such redesign and all new drawings (stamped by California Licensed Engineer) and detailing required shall be prepared by the Swimming Pool Subcontractor, at their own expense, submitted for review and approval by the Designated Representative prior to bid.

- C. Where such approved deviation requires a different quantity and arrangement of piping, supports and anchors, wiring, conduit, and equipment from that specified or indicated on the Drawings, the Swimming Pool Subcontractor shall furnish and install any such piping, structural supports, controllers, motors, starters, electrical wiring and conduit, and any other additional equipment required by the system, at no additional cost to the Owner.

1.13 SURVEYS AND MEASUREMENTS

- A. The Swimming Pool Subcontractor shall base all measurements, both horizontal and vertical, from benchmarks established by the Contractor. All work shall agree with these established lines and levels. The mechanical Drawings do not give exact details as to elevations of piping, exact locations, etc. and do not show all offsets, control lines, pilot lines and other installation details. Verify all measurements at site and check the correctness of same as related to the work.

1.14 DRAWINGS

- A. Drawings are diagrammatic and indicate the general arrangement of the systems and work included in the Subcontractor. Drawings are not to be scaled. The architectural drawings and details shall be examined for exact dimensions. Where they are not definitely shown, this information shall be obtained from the Designated Representative.

1.15 SWIMMING POOL SUBSUBCONTRACTOR

- A. A. The swimming pool construction work as herein described and specified in Division 13 of the Project Manual shall be the complete responsibility of a qualified and specifically licensed (C-53 license classification within the State of California) Swimming Pool Subcontractor with extensive experience in commercial public use swimming pool installations.
- B. The Contractor shall require the Swimming Pool Subcontractor to furnish to the Contractor performance and payment bonds in the amount of 100% of the Swimming Pool Subcontractor's bid written by a surety Company properly registered in the State of California and listed by the U.S. Treasury. The expense of the bond(s) is to be borne by the Subcontractor. The Contractor shall clearly specify the amount and requirements of the bond(s) in the Contractor's written or published request for subbids. The Contractor's written or published request for subbids shall also specify that the bond(s) expense is to be borne by the Subcontractor.

C. Subcontractor certifies that it meets the qualifications and experience requirements established in Swimming Pool General Requirements, Section 131100, as follows:

1. Subcontractor has derived 50% of its annual revenue from public-use swimming pool construction for each of the last five (5) years.
2. Subcontractor has, in the last five (5) years, constructed at least five (5) commercially designed municipal and public-use swimming pools, each of which have incorporated a minimum size of 6,000 square feet of water surface area with a concrete and ceramic tile perimeter overflow gutter and self-modulating balance tank.
3. The following list of projects meet the requirements of section (b) above and the contact as reference by the Contractor, the Awarding Authority of their agent or designee.

a. Owner: _____
Scope of Project: _____
Contact Person: _____
Phone Number: _____
Architect for Project: _____

b. Owner: _____
Scope of Project: _____
Contact Person: _____
Phone Number: _____
Architect for Project: _____

c. Owner: _____
Scope of Project: _____
Contact Person: _____
Phone Number: _____
Architect for Project: _____

d. Owner: _____
Scope of Project: _____
Contact Person: _____
Phone Number: _____
Architect for Project: _____

e. Owner: _____
Scope of Project: _____
Contact Person: _____
Phone Number: _____
Architect for Project: _____

D. Swimming Pool Deck Subcontractor other than the swimming pool Subcontractor certifies that it meets the qualifications and experience requirements established in Swimming Pool General Requirements, Section 131100, as follows:

1. Subcontract has, in the last five (5) years, constructed at least five (5) commercially designed cantilevered pool decks over perimeter gutters, each of

which have incorporated a minimum size of 6,000 square feet of water surface area of the swimming pool.

2. The following list of projects meet the requirements of section (b) above and the contact as reference by the Contractor, the Awarding Authority of their agent or designee.

SWIMMING POOL DECK SUBCONTRACTOR

- a. Owner: _____
Scope of Project: _____
Contact Person: _____
Phone Number: _____
Architect for Project: _____
- b. Owner: _____
Scope of Project: _____
Contact Person: _____
Phone Number: _____
Architect for Project: _____
- c. Owner: _____
Scope of Project: _____
Contact Person: _____
Phone Number: _____
Architect for Project: _____
- d. Owner: _____
Scope of Project: _____
Contact Person: _____
Phone Number: _____
Architect for Project: _____
- e. Owner: _____
Scope of Project: _____
Contact Person: _____
Phone Number: _____
Architect for Project: _____

1.16 OPERATING INSTRUCTIONS

- A. The Swimming Pool Subcontractor shall determine from actual samples of pool water supplied by the Owner, the proper water management program necessary for maximum operating efficiency and comfort. The Swimming Pool Subcontractor shall provide the services of experienced personnel familiar with this type of pool system operation, in conformance with Section 131105 of the Specifications.

1.17 MAINTENANCE MANUALS

- A. The Swimming Pool Subcontractor shall provide six (6) bound sets for delivery to the Designated Representative of instructions for operating and maintaining all systems and equipment included in this Contract. Manufacturer's advertising literature or catalog pictures will not be acceptable for operating and maintenance instructions.
- B. Bound in ring binders shall be all parts lists, periodic maintenance instructions and troubleshooting guidelines for all pool equipment, including but not limited to filters, pumps, controllers, water chemistry control equipment, etc.

1.18 SECURE FROM THE OWNER

- A. A complete Owner-furnished filling of the swimming pools.
- B. The Owner's assistance, as specified herein, from the time of start-up until final written acceptance of the swimming pool system(s).
- C. Chemicals as required for swimming pool operation after Swimming Pool Subcontractor completes initial water chemistry balance and water treatment during the maintenance period described in Section 131105 of the Specifications.

1.19 WARRANTY

- A. The Swimming Pool Subcontractor shall warrant all swimming pool structures, finishes and systems against defects in material and workmanship for a period of one year after the date of acceptance by the Owner. Any repair or replacement required due to defective material or workmanship will be promptly corrected by the Swimming Pool Subcontractor.

PART 2 - PRODUCTS
NOT USED

PART 3 - EXECUTION
NOT USED

END OF SECTION

SECTION 131102
SWIMMING POOL CONCRETE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 WORK INCLUDED

- A. Forming for cast-in-place concrete associated with swimming pools cantilever and pool decks.
- B. Reinforcement for cast-in-place concrete associated with swimming pools and pool decks.
- C. Cast-in-place concrete for swimming pool structures. Do not use waterproofing admixture of any kind.
- D. Cast-in-place concrete for swimming pool decks with Xypex C-500 crystalline waterproofing admixture. Waterproofing admixture for swimming pool decks only.
- E. Provide labor, materials and equipment as required to install sealant for all pool deck expansion joints, or any other caulking, as indicated on the aquatic Drawings and herein specified.

1.3 QUALITY ASSURANCE

- A. Qualifications of Workers:
 - 1. The entity performing the work of this Section shall have been successfully engaged in the respective trade for at least five (5) years immediately prior to commencement of the Work.
 - 2. For actual construction operations, use only trained and experienced workers with a minimum of three (3) years experience with the materials and methods specified.
 - 3. Provide at least one person who shall be present at all times during execution of the work of this Section, with a minimum of five (5) years experience with the type of materials being installed, the referenced standards, and who shall direct all Work performed under this Section.
- B. Standards:

1. In addition to complying with the California Building Code (2022 edition), 1908 comply with all pertinent recommendations contained in "Guide to Formwork for Concrete" Publication ACI 347R-14 of the American Concrete Institute.
 2. In addition to complying with California Building Code (2022 edition), comply with all pertinent recommendations contained in "Guide to Presenting Reinforcing Steel Design Details," Publication ACI 315R-18 of the American Concrete Institute.
 3. In addition to complying with all local codes and regulations, comply with all pertinent recommendations contained in American Society for Testing and materials (ASTM); ASTM C 920 "Standard Specification for Elastometric Joint Sealants."
- C. Tolerances: Construct all swimming pool concrete straight, true, plumb and square within a tolerance horizontally and vertically of 1/8" in total distance.

1.4 SUBMITTAL AND SUBSTITUTIONS

- A. Provide submittals in conformance with the requirements of Section 013300. Requests for substitution shall conform to requirements of Article 1.10.A of Section 131100.
- B. Samples and Certificates, Concrete Reinforcement:
1. Provide all data and access required for testing as described in Section 014500 of the Specifications.
 2. All material shall bear mill tags with heat number identification. Mill analysis and report shall be made available upon request.
 3. Rebar samples shall be taken from bundles as delivered from the mill with the bundles identified as to heat number and the accompanying mill certificate. One tensile test and one bend test shall be made from a sample from each 10 tons or fraction thereof of each size of reinforcing steel.
 4. Design mix from batch plant demonstrating previous use history and associated strengths at 28 days.
 5. The Contractor shall submit a mix design stamped and signed by a licensed engineer for approval by the Owner's Representative prior to any placement of concrete.
 6. The Contractor shall submit a separate mix design stamped and signed by a licensed engineer for the swimming pool decks which contains the specified Xypex C-500 crystalline waterproofing admixture for approval by the Owner's Representative prior to any placement of concrete.
- C. Submit proof of qualifications as specified in Article 1.3.A of this Section.
- D. Submit reinforcing shop drawings for pool walls, gutters, floors, dike walls and balance tank, etc. as shown on the construction drawing.

1.5 PRODUCT HANDLING

- A. Delivery: Deliver materials to the Project Site in the manufacturer's original unopened containers with all labels intact and legible.

- B. Storage: Store materials under cover in a manner to prevent damage and contamination, and store only the specified materials at the Project Site.
- C. Protection: Use all means necessary to protect the swimming pool concrete before, during, and after installation and to protect the installed Work specified in other Sections.
- D. Replacements: In the event of damage, immediately make all repairs and replacements necessary to the approval of the Owner.

PART 2 - PRODUCTS

2.1 CONCRETE FORMWORK

- A. Form Materials:
 - 1. Form Lumber: All form lumber in contact with exposed concrete shall be new except as allowed for reuse of forms in Part 3 of this Section, and all form lumber shall be one of the following, a combination thereof, or an equal approved in advance by the Owner's Representative.
 - a. "Plyform," Class I or II, bearing the label of the Douglas Fir Plywood Association; "Inner-Seal" Form as manufactured by Louisiana-Pacific, or approved equal.
 - b. Douglas Fir-Larch, number two grade, seasoned, surfaced four sides.
 - 2. Form Release Agent: Colorless, non-staining, free from oils; chemically reactive agent that shall not impair bonding of paint or other coatings intended for use.
- B. Ties and Spreaders:
 - 1. Type: All form ties shall be a type which do not leave an open hole through the concrete and which permits neat and solid patching at every hole.
 - 2. Design: When forms are removed, all metal reinforcement shall be not less than two (2) inches from the finished concrete surface.
 - 3. Wire Ties and Wood Spreaders: Do not use wire ties or wood spreaders.
- C. Alternate Forming Systems: Alternate forming systems may be used subject to the advance approval of the Owner's Representative.

2.2 CONCRETE REINFORCEMENT

- A. Bars: Bars for reinforcement shall conform to "Specifications for Deformed Billet Carbon-Steel Bars for Concrete Reinforcement," ASTM A-615, Grade 60.
- B. Wire Fabric: Wire fabric shall conform to "Specifications for Carbon Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete," ASTM A1064.

- C. Tie Wire: Tie wire for reinforcement shall conform to "Specifications for Carbon Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete," ASTM A1064 black annealed 16-gauge tie wire.

2.3 CAST-IN-PLACE CONCRETE

A. Concrete:

1. All concrete, unless otherwise specifically permitted by the Owner's Representative, shall be transit-mixed in accordance with ASTM C94. Concrete for water retaining structures that do not receive a waterproofing finish such as ceramic tile or swimming pool plaster shall receive a topical waterproofing finish.
2. The control of concrete production shall be under the supervision of a recognized testing agency, selected by the Owner in accordance with Section 01 25 00 of the Specifications.
3. Quality: All concrete shall have the following minimum compressive strengths at twenty-eight (28) days and shall be proportioned within the following limits
 - a. 4,000 psi minimum compressive strength for cast-in-place concrete swimming pool structures.
 - b. 4,000 psi minimum compressive strength for cast-in-place swimming pool decks with Xypex C-500 waterproofing admixture.
 - c. 1" maximum size aggregate.
 - d. 6.0 minimum sacks of cement per cubic yard.*
 - e. Maximum water to cement ratio of 0.40 minimum to 0.45 maximum.
 - f. 4" maximum slump.
 - g. Xypex Admix C-500 2% - 2.5% by weight of cement content. Contact Xypex Technical Services to confirm dosage. (To be used for swimming pool decks only.)* For estimate only: to be determined by mix design.
4. Cement: All cement shall be Portland Cement conforming to ASTM C-150, Type II or V and shall be the product of one manufacturer.
5. Aggregates:
 - a. Shall conform to "Standard Specifications for Concrete Aggregates," ASTM C33, except as modified herein.
 - b. Coarse Aggregate: Clean sound washed gravel or crushed rock. Crushing may constitute not more than 30% of the total coarse aggregate volume. Not more than 5% flat, thin, elongated or laminated material nor more than 1% deleterious material shall be present. 1" aggregate graded from 1/4" to 1", fineness modulus 6.90 to 7.40. 1-1/2" graded from 1/2" to 1-1/2", fineness modulus 7.80 to 8.20.
 - c. Fine Aggregate: Washed natural sand of hard, strong particles and shall contain not more than 1% of deleterious material, fineness modulus 2.65 to 3.05.
 - d. Aggregate must be certified, non-expansive from a "known" good source.
6. Water: ASTM C1602 Clean, fresh, free from acid, alkali, organic matter or other impurities liable to be detrimental to the concrete (potable).

7. Admixtures: Admixtures shall be used upon approval of the Owner's Representative.
 - a. Air-entraining admixture: Conform to ASTM C260.
 - b. Water-reducing admixture: Conform to ASTM C494.
 - c. Waterproofing admixture for swimming pool decks only: Xypex Admix C-500, No substitutions permitted. Conform to ASTM C494.
8. Xypex Admix C-500 Dosage: To be used for swimming pool decks only.
 - a. General: Xypex Admix must be added to concrete mix at time of batching. It is important to obtain a homogeneous mixture of Xypex Admix with the concrete. Do not add dry Admix powder directly to wet mixed concrete as this could cause clumping and thorough dispersion may not occur.
 - b. Dosage Rate: Under normal conditions, the crystalline waterproofing powder shall be added to the concrete mix at the following rates:
 - 1) Xypex Admix C-500 2% – 2.5% by weight of cement content
 - c. Weather Conditions: For mixing, transporting and placing concrete under conditions of high temperature or low temperature, follow concrete practices such as those referred to in ACI 305R (Hot Weather Concreting) and ACI 306R (Cold Weather Concreting) or other applicable standards.
 - d. Concrete Batching & Mixing Procedures: Procedures for the addition of Xypex admixture will vary according to type of batch plant operation and equipment. Prior to the placement of any concrete, the concrete batch plant and the contractor shall be responsible to consult with the local Xypex representative concerning additional procedures for the addition, mixing and to confirm dosage. Note: For enhanced chemical protection or for meeting specific project requirements or where the concrete mix design contains higher than 25% type F fly ash content or includes a portland cement/slag cement/type C fly ash blend, consult with manufacturer or its authorized representative to determine appropriate dosage rates.
- B. Construction Joints: Use keyform for slab pour joints. Either preformed galvanized or PVC construction joint forms of a standard manufacturer may be used. Install per manufacturer's recommendations and tool edges of slabs.
- C. Waterstops: PVC bulb-type for use between concrete pours / lifts, conforming with ASTM D 570, D 624, and D 638. Provide in configuration(s) as recommended by manufacturer for specific application. Greenstreak, W.R. Meadows, or approved equal.
- D. Curing Materials:
 1. Liquid Membrane (covered slab): Chlorinated rubber membrane forming, curing-sealing compound conforming to ASTM C309.
 2. Liquid Membrane (exposed slab): Clear methyl and butyl methacrylate non-staining, membrane forming, curing-sealing compound conforming to ASTM C309.
- E. Cement Grout and Drypack:

1. Cement Grout: Mix 1 part by volume of Portland Cement, 1/2 part by volume of water and fine aggregate enough to make mixture flow under its' own weight.
2. Drypack: Mix 1 part by volume of Portland Cement, 1/2 part by volume of water and fine aggregate enough to make a stiff mix that will mold into a ball. Mix no more than can be used in 30 minutes.

2.4 JOINT SEALANT MATERIALS

- A. Caulking: Multipart, non-sag gun grade polyurethane based sealant meeting the requirements of ASTM C920-02, Type S or M, Mamemco International, Pecora, Sika Corp., Sonneborn Building Products, Tremco or approved equal. Self leveling caulking materials are not allowed.
- B. Primer: Non-staining type, recommended by sealant manufacturer to suit application.
- C. Joint Cleaner: Non-corrosive and non-staining type, recommended by sealant manufacturer; compatible with joint forming materials.
- D. Sealant Backer Rod: Provide compressible polyethylene or polyurethane backer rod as recommended by the sealant manufacturer.
- E. Bond Breaker Tape: Provide polyethylene tape or other plastic tape as recommended by sealant manufacturer, to be applied to sealant-contact surfaces where bond to substrate or joint filler must be avoided for proper performance of sealant.
- F. Sand: Cover the surface of the caulking with #30 silica sand.

2.5 OTHER MATERIALS

- A. All other materials, not specifically described but required for proper completion of the work of this Section, shall be as selected by the Contractor subject to the advance review by the Owner's Representative.

PART 3 - EXECUTION

3.1 SURFACE CONDITIONS

- A. Inspection:
 1. Prior to all Work of this Section, carefully inspect the installed Work of other trades and verify that all such Work is complete to the point where this installation may properly commence.
 2. Verify that all Work may be constructed in accordance with all applicable codes and regulations, the referenced standards, the original design, and in accordance with site specific Geotechnical Report.
- B. Discrepancies:

1. In the event of discrepancy, immediately notify the Owner's Representative.
2. Do not proceed with installation in areas of discrepancy until all such discrepancies have been fully resolved.
3. Failure to notify the Owner's Representative and give written notice of discrepancies shall constitute acceptance by the Contractor of existing conditions as fit and proper to receive work.

3.2 CONCRETE FORMWORK

A. Construction of Forms:

1. General: Construct all required forms to be substantial, sufficiently tight to prevent leakage of concrete paste, and able to withstand excessive deflection when filled with wet concrete.
2. Layout:
 - a. Form for all required cast-in-place concrete to the shapes, sizes, lines and dimensions indicated on the Drawings.
 - b. Exercise particular care in the layout of forms to avoid necessity for cutting concrete after placement.
 - c. Make proper provisions for all openings, offsets, recesses, anchorages, blocking and other features of the Work as shown or required.
 - d. Perform all forming required for Work of other trades and do all cutting and repairing of forms required to permit such installation.
 - e. Carefully examine the Drawings and Specifications and consult with other trades as required relative to providing for pipe and conduit penetrations, reglets, chases and other items in the forms.
3. Imbedded Items: Set all required steel frames, angles, bolts, inserts and other such items required to be anchored in the concrete prior to concrete being placed.
4. Bracings:
 - a. Properly brace and tie the forms together so as to maintain position and shape and to ensure safety to workmen.
 - b. Construct all bracing, supporting members and centering of ample size and strength to safely carry, without excessive deflection, all dead and live loads to which they may be subjected.
 - c. Properly space the forms apart and securely tie them together, using metal spreader ties that give positive tying and accurate spreading.
5. Wetting: Keep forms sufficiently wetted to prevent joints from opening up before concrete is placed.

B. Plywood Forms:

1. Design: Nail the plywood panels directly to studs and apply in a manner to minimize the number of joints.
2. Joints: Make all panel joints tight butt joints with all edges true and square.

C. Footing Forms:

1. Wood Forms: All footing forms shall be wood unless otherwise specifically approved by the Owner's Representative, or as specified in paragraph 3.2(C)(2).
2. Earth Forms:
 - a. Side walls for footings may be of earth provided the soil will stand without caving and the sides of the bank are made with a neat cut to the minimum dimensions indicated on the Drawings.
 - b. For excavation and backfill of earth forms, conform with applicable provisions of Section 131101.

D. Reuse of Forms:

1. Reuse of forms shall be subject to advance approval of the Owner's Representative.
2. Except as specifically approved in advance by the Owner's Representative, reuse of forms shall in no way delay or change the schedule for placement of concrete from the schedule obtainable if all forms were new.
3. Except as specifically approved in advance by the Owner's Representative, reuse of forms shall in no way impart less structural stability to the forms nor less acceptable appearance to finished concrete.

E. Removal of Forms:

1. General:
 - a. In general, side forms of footings may be removed seven (7) days after placement of concrete, but time may be extended if deemed necessary by the Owner's Representative.
 - b. Forms for footings, foundations, grade beams, slabs, walls, and other formed concrete may be removed fourteen (14) days after placement of concrete.
2. Removal:
 - a. Use all means necessary to protect workers, passersby, the installed Work of other trades and the complete safety of the structure.
 - b. Cut nails and tie wires or form ties off flush, and leave all surfaces smooth and clean.
 - c. Remove metal spreader ties on exposed concrete by removing or snapping off inside the wall surface and pointing up and rubbing the resulting pockets to match the surrounding areas.
 - d. Flush all holes resulting from the use of spreader ties and sleeve nuts using water, and then solidly pack throughout the wall thickness with cement grout applied under pressure by means of a grouting gun; grout shall be one part Portland Cement to 2-1/2 parts sand; apply grout immediately after removing forms.

3.3 CONCRETE REINFORCEMENT

A. Bending:

1. General:

- a. Fabricate all reinforcement in strict accordance with the Drawings.
- b. Do not use bars with kinks or bends not shown on the Drawings.
- c. Do not bend or straighten steel in a manner that will injure the material. (When opposite end is already encased in concrete.)

2. Design:

- a. Bend all bars cold.
- b. Make bends for stirrups and ties around a pin having a diameter of not less than four (4) times the minimum thickness of the bar (#3 - #5) per ACI.
- c. Make bends for other bars, including hooks, around a pin having a diameter of not less than six (6) times the minimum thickness of the bar.

B. Placing:

1. General: Before the start of concrete placement, accurately place all concrete reinforcement, positively securing and supporting by concrete blocks, metal chairs or spacers, or by metal hangers.

2. Clearance:

- a. Preserve clear space between bars of not less than one and one-half (1-1/2) times the nominal diameter of the round bars.
- b. In no case let the clear space be less than one and one-half (1-1/2) inches nor less than one and one-third (1-1/3) times the maximum size of the aggregate.
- c. Provide the following minimum concrete covering of reinforcement:
 - 1) Concrete deposited against earth: three (3) inches minimum.
 - 2) Concrete below grade deposited against forms: two (2) inches minimum.
 - 3) Concrete elsewhere: As indicated on Drawings or otherwise approved by the Owner's Representative.

3. Splicing:

a. Horizontal Bars:

- 1) Place bars in horizontal members with minimum lap at splices sufficient to develop the strength of the bars.
- 2) Bars may be wired together at laps except at points of support of the member, at which points preserve clear space described above.
- 3) Whenever possible, stagger the splices of adjacent bars.
- 4) Splice forty (40) bar diameters minimum.
- 5) Provide non-contact lap slices for shotcrete.

- b. Wire Fabric: Make all splices in wire fabric at least one and one-half (1-1/2) meshes wide.
 - c. Other Splices: Make only those other splices that are indicated on the Drawings or specifically approved by the Owner's Representative.
- 4. Dowels: Place all required steel dowels and securely anchor them into position before concrete is placed.
- 5. Obstructions: In the event conduits, piping, inserts, sleeves and other items interfere with placing reinforcement as indicated on the Drawings or otherwise required, immediately consult with the Owner's Representative and obtain approval of a new procedure prior to placing concrete.
- C. Cleaning Reinforcement: Steel reinforcement, at the time concrete is placed around it, shall be free from rust scale, loose mill scale, oil, paint and all other coatings which will destroy or reduce the bond between steel and concrete. Bend down all tie wire away from the top of the pool deck. Maintain a 2" clear from top of concrete to the tie wire.

3.4 SHOTCRETE REINFORCEMENT

- A. Shotcrete reinforcement shall be in accordance with the requirements of CBC 1908A and ACI 318-19, along with the provisions of ACI 506R and ACI 506.2. For parallel nonprestressed reinforcement in shotcrete members, the clear spacing between bars shall be at least the greater of 6 bar diameters and 2-1/2 in. Where two curtains of reinforcement are provided, the clear spacing between bars in the curtain nearer the nozzle shall be at least 12 bar diameters; the clear spacing between bars in the remaining curtain shall be at least the greater of 6 bar diameters and 2-1/2 in. Adequate encasement of bars larger than No. 5 shall be demonstrated by a preconstruction test shotcrete mockup panel.
- B. Subject to the approval of the building official, it shall be permitted to use a clear spacing that does not meet the clear spacing provisions listed above provided that shotcrete mockup panels are used to demonstrate the proper reinforcement encasement in accordance with the following:
 - 1. The shotcrete mockup panels shall be representative of the most complex reinforcement configurations to be encountered.
 - 2. The licensed design professional shall specify the shotcrete mockup panel quantity, frequency of shooting per nozzle man and member type, and panel thickness to verify reinforcement encasement.
- C. Non-contact lap splices for reinforcement in shotcrete shall have clear spacing in accordance with the following:
 - 1. For No. 6 and smaller bars, the clear spacing between bars shall be at least greater of 6 bar diameters and 2-1/2" in.
 - 2. For No. 7 and larger bars, the clear spacing shall be established using a shotcrete mockup panel to demonstrate that the reinforcement is properly encased.
 - 3. Subject to the approval of the building official, contact lap splices for reinforcement in shotcrete shall be oriented with the plane of the spliced bars

perpendicular to the surface of the shotcrete and approved by the licensed design professional based on a shotcrete mockup panel to demonstrate that the reinforcement is properly encased.

3.5 CAST-IN-PLACE CONCRETE

A. Conveying and Placing Concrete:

1. Before placing concrete, mixing and conveying equipment shall be well cleaned, and the forms and space to be occupied by concrete shall be thoroughly cleaned and wetted. Ground water shall be removed until the completion of the work.
2. No concrete shall be placed in any unit of work until all formwork has been completely constructed, all reinforcement has been secured in place, all items to be built into concrete are in place, and form ties at construction joints tightened.
3. Concrete shall be conveyed from mixer to place of final deposit in such a way to prevent the separation or loss of ingredients. It shall be placed as nearly as practicable in its' final position to avoid rehandling or flowing. Concrete shall not be dropped freely where reinforcing bars will cause segregation, nor shall it be dropped freely more than six (6) feet. Use tremies, spouts and dump boxes in deep sections. Vibrators are not acceptable for facilitating concrete transport.
4. Concrete shall be tamped and spaded to insure proper compaction into all parts of forms and around reinforcement. A mechanical vibrator shall be used to thoroughly compact the concrete. Vibration must be by direct action in the concrete and not against forms or reinforcement.
5. Mixing and transport time as indicated in ASTM C94 is required. If air temperatures are between 85° and 90° F the delivery time is to be reduced to 75 minutes. When air temperatures is in excess of 90° F the delivery time should be reduced to 60 minutes.
6. Truck mixes without batch certificates will be rejected.

B. Construction Joints / Expansion Joints: Construction joints and expansion joints shall be provided at locations and in the manner shown on the Drawings. With exception of existing concrete / new shotcrete joints, use PVC bulb-type waterstops appropriate for design condition between all concrete pours / lifts to avoid cold joints. Waterstops shall be placed in such a way to protect reinforcing steel from rust and oxidation. All expansion joints must be the full depth of the concrete section in which they are located.

C. Slab Finishes: Concrete slabs shall be compacted and screeded uniformly to grades shown. Push large aggregates below the surface with a screen tamper, screed and bull float. As soon as the surface becomes workable, it shall be wood floated, then finished as indicated on the Drawings to a uniform smooth, true surface in a neat and workmanlike manner. Carefully coordinate slab finish requirements with other trades (ceramic tile, pool plaster) to ensure concrete finish is appropriate substrate for final finish material.

1. Contractor shall provide three mock-up deck samples, minimum 3'x 3', with a wedge anchor installed in one sample. These (3) samples shall be constructed; one with a light broom finish, one (1) with a medium broom finish and one (1) with a heavy broom finish for determination and selection of an appropriate deck

finish. Each sample shall be edged on all four sides to demonstrate a 3/4" radius edge. Anchor installation shall demonstrate acceptable interface between anchor and the top of deck. Deck samples shall remain on job site through final inspection for reference.

2. Pool Floor Slab: Heavy Wire Broom Finish.

D. Protection and Curing:

1. Concrete shall be protected from injurious action of the elements and defacement of any nature during construction.
2. All forms must be kept wet to prevent drying out of the concrete.
3. All concrete surfaces including footings must be kept wet for at least seven (7) days after concrete is placed.
4. Apply the appropriate curing materials, as specified in 2.03 of this Section, immediately after finishing slabs. Application shall be as specified by the manufacturer.

E. Form Removal:

1. Take care in removing forms so that surfaces are not marred or gouged and that corners are true, sharp and unbroken.
2. No steel spreaders, ties or other metal shall project from or be visible on any concrete surfaces.

F. Defective Work:

1. Should the strength of any concrete for any portion of the work indicated by tests of molded cylinders and core tests fall below minimum 28 days strength specified or indicated, concrete will be deemed defective work and shall be replaced.
2. Concrete work that is not formed as indicated, is not true to intended alignment, not plumb or level where so intended, not true to intended grades or elevations, not true to specified or selected finish, contains sawdust shavings, wood, or embedded debris, which exhibits cracks or contains fine or coarse sulfide particles, or expansive aggregates detrimental to performance or appearance of the concrete shall be deemed defective.
3. Promptly perform work required to replace and properly clean (by sandblasting if necessary) any defective concrete panels (control joint or expansion joint to control joint or expansion joint), at Contractor's expense, including all expense of additional inspection, tests, or supervision made necessary as a result of defective concrete.

3.6 EXPANSION JOINTS

- A. Temperatures: Do not install sealants when air temperature is less than 40°F.
- B. Tooling: Tool exposed joints to a slightly concave surface using slicking materials recommended by the manufacturer. The tooling procedure shall press sealant against the sides of the joint. No materials shall be left "feathered" out or smeared on the abutting materials. Completed joints shall have a uniform professional appearance.

- C. Joint Construction: Sealant joint width, thickness and cross-sectional profile to be constructed in strict accordance with the sealant manufacturer's recommendations.
- D. Sand: At the appropriate time cover the sealant with sand to provide a sanded finish.

3.7 CLEAN-UP

- A. Upon completion of the Work of this Section, immediately remove all swimming pool concrete materials, debris and rubbish occasioned by this Work to the approval of the Owner's Representative.

END OF SECTION

SECTION 131103
SWIMMING POOL SHOTCRETE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 WORK INCLUDED

- A. Provide labor, materials and equipment as required to install structural wet mix shotcrete for swimming pool structures as indicated on the Drawings and herein specified.

1.3 QUALITY ASSURANCE

- A. Qualifications of Workers:

1. The entity performing the work of this Section shall have been successfully engaged in the respective trade for at least five (5) years immediately prior to commencement of the Work.
2. For actual construction operations, use only trained and experienced workers with a minimum of three (3) years experience with the materials and methods specified.
3. Provide at least one person who shall be present at all times during execution of the work of this Section, with a minimum of five (5) years experience with the type of materials being installed, the referenced standards, and who shall direct all Work performed under this Section.

- B. Standards: Except as otherwise indicated, provide shotcrete per American Concrete Institute Standard ACI 506R, ACI 506.2, ACI 318-19 and the California Building Code (2022 edition).

- C. Mix Design: The Contractor shall submit a mix design stamped and signed by a licensed engineer for approval by the Owner's Representative prior to any placement of shotcrete. Mix design shall indicate source of aggregate and brands of cement and admixtures used. All mix designs shall take character of locally available aggregate into consideration and make adjustments as necessary to conform with specified design criteria.

- D. **Testing and Inspection: A test panel shall be shot, cured, cored or sawn, examined and tested (representing the most congested and difficult project scenario) prior to commencement of the project in accordance with ASTM C1140. All project conditions and personnel shall be represented in the test**

panel. Additionally, one test panel shall be provided for each 50 yards (or portion thereof) of shotcrete placed for each day or each nozzleman, whichever is greater. The size of the strength test panel shall be per the direction of the Special Shotcrete Inspector. At least three (3) cores shall be taken from each test panel. (At least three (3) cores shall be taken from the completed work for each day of shotcrete operation.) Testing shall be performed by the Owner's designated Testing Lab and comply with Section ACI 318-19 and CBC 2022 1705A.3.9. Continuous inspection of the shotcrete operation by a deputy inspector provided by the Owner shall be required.

- E. Tolerances: Construct all swimming pool shotcrete straight, true, plumb and square within a tolerance horizontally of one in 200 and a tolerance vertically of one in 2000.

1.4 SUBMITTALS AND SUBSTITUTIONS

- A. Provide submittals in conformance with the requirements of Section 013300 and ACI 506.2. Requests for substitution shall conform with requirements of Article 1.10.A of Section 131100.
- B. Materials List: Within thirty (30) days after issuance of Notice to Proceed, and before shotcrete materials are delivered to the project site, submit to the Owner a complete list of materials proposed to be used in this portion of the Work, showing manufacturer's name and catalog number of all items such as admixtures and curing membranes, and the name and address of the supplier of cement and aggregate to be used.
- C. Submit proof of qualifications as specified in Article 1.3.A of this Section.

1.5 PRODUCT HANDLING

- A. Protection: Use all means necessary to protect shotcrete materials before, during and after installation and to protect the installed Work specified in other Sections.
- B. Replacements: In the event of damage, immediately make all repairs and replacements necessary to the approval of the Owner and at no additional cost to the Owner.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Cement: Cement shall be Type 1 Portland Cement conforming to ASTM C150. Cement type shall be the same for all shotcrete work.
- B. Aggregate: ASTM C33, washed hard dense durable clean sharp sand from approved pit, free of organic matter and opaline, feldspar, or silicious magnesium substances and containing not more than 3% by weight of deleterious substances. Maximum size aggregate for shotcrete is $\frac{3}{4}$ " per ACI 318-19. When tested for organic impurities by ASTM C40 method, fine aggregate color not darker than reference standard color.

When tested for soundness by ASTM C88 method, grading No. 2 of ASTM C1436, loss after 5 cycles not over 10% of fine aggregate.

- C. Water: Potable, clean, fresh, free from acid, alkali, organic matter or other impurities liable to be detrimental to the shotcrete.
- D. Admixtures: Admixtures shall conform to ASTM C1141 and only be used upon approval of the Owner's Representative.

PART 3 - EXECUTION

3.1 EXECUTION

A. Inspection:

1. Prior to all Work of this Section carefully inspect the installed Work of other trades and verify that all such Work is complete to the point where this installation may properly commence.
2. Verify that items to be imbedded in shotcrete are in place and that shotcrete may be placed to the lines and elevations shown on the Drawings, with all required clearance from reinforcement.

B. Discrepancies:

1. In the event of discrepancy, immediately notify the Owner's Representative.
2. Do not proceed with installation in areas of discrepancy until all such discrepancies have been fully resolved.
3. Failure to notify the Owner's Representative and give written notice of discrepancies shall constitute acceptance by the Contractor of existing conditions as fit and proper to receive the Work.

3.2 PREPARATION

A. General:

1. Thoroughly clean all areas where shotcrete is to be placed to insure proper bonding of shotcrete.
2. Where shotcrete is to be placed against smooth surfaces (i.e., cast-in-place concrete), sandblast surfaces to receive shotcrete to provide clean aggregate surface, thereby insuring proper bond between materials.

- #### B. Ground Wires:
- Adequate ground wires, to be used as screeds, shall be installed to establish the thickness and surface planes of the shotcrete work. Ground wires shall be placed so that they are tight and true to line and grade and in such a manner that they can be easily tightened.

3.3 PROPORTIONING AND MIXING

- A. Accurately control proportion of water to Portland cement to produce thorough and uniform hydration of the shotcrete that, when shot, forms a homogeneous mass containing neither sags nor dry sand formation. Proportion by mass per ASTM C94 or by volume per ASTM C685.
- B. Shotcrete shall have a minimum compressive strength of 4,000 PSI at 28 days. Shotcrete material shall have a water/cement ratio of 0.40 minimum-0.45 maximum per ACI 506R, Chapter 6, Proportioning and Preconstruction Testing; Section 6.3.3, Wet Mix Process.
- C. Discontinue shotcrete work if the time between the addition of mixing water to cement and aggregate, or cement to aggregates, and placement of shotcrete exceeds ninety (90) minutes when the ambient temperature is below 85 degrees Fahrenheit, or exceeds sixty (60) minutes when the ambient temperature is above 85 degrees Fahrenheit. Batch, mix and deliver wet-mixture shotcrete per ASTM C94 or C685.
- D. Hot Weather Shotcreting – Unless otherwise specified, do not place shotcrete when shotcrete temperature is above 95°F, unless prequalification testing shows that the required quality of materials can be achieved at high temperatures. The temperature of reinforcement and receiving surfaces shall be below 90°F prior to shotcrete placement.
- E. Cold Weather Shotcreting – Unless otherwise specified, shooting may proceed when ambient temperature is 40°F and rising. Stop shooting when ambient temperature is 40°F and falling, unless measures are taken to protect the shotcrete. Shotcrete material temperature, when shot, shall not be less than 50°F. Do not place against frozen surfaces.

3.4 SHOTCRETE PLACING, FINISHING, AND CURING

- A. Operations: Utilize a standard type of air compressor, capable of providing a minimum of 250 cubic feet of air per minute per nozzle.
- B. Placing: Except when shooting reinforcing, hold the nozzle perpendicular to and 2-1/2 to 3 feet from surface. At reinforcing bars, hold the nozzle so as to direct shotcrete behind the bars, and shoot each side of each bars separately. A nozzleman's helper equipped with an air jet shall precede the nozzle and blow out rebound or sand lodged behind bars, on forms, or placed shotcrete. Placing shotcrete horizontal members from the top is not allowed unless approved methods are employed to eliminate all rebound. Material shall emerge from the nozzle in a uniform flow. If flow becomes intermittent for any reason, direct the nozzle away from the surface until the flow is again steady and constant. Do not reuse rebound or loose sand for any purpose.
- C. Puddled Shotcrete: Use of "puddled shotcrete" in which the air pressure is reduced and the water content is increased to facilitate placing in difficult locations is not allowed. Do not place shotcrete where nozzle stream cannot impinge directly on the involved surface. Where difficult shooting conditions occur, obtain proper results by maintaining correct air pressure and water ratio and reduce supply of material.

- D. Construction Joints: Form joints with sloping beveled edges. Clean and dampen the hardened joint surfaces before placing additional shotcrete. Square edged construction joints are not allowed. The film of laitance which forms on the surface of the shotcrete shall be removed within approximately two hours after application by brushing with a stiff broom. If this film is not removed within two hours, it shall be removed by thorough wire brushing or sand blasting. Construction joints over eight hours old shall be thoroughly cleaned with air and water prior to receiving shotcrete.
- E. Finishing: Rod exposed surfaces to true planes and lines on reaching the thickness and plane established by forms and ground wires. Tamp and wood float surfaces level and provide a rough raked finish. Carefully coordinate finish requirements with other trades (ceramic tile, pool plaster) to insure shotcrete finish is appropriate substrate for final finish material.
- F. Curing: Keep shotcrete continuously damp for not less than seven (7) days after placing. Use sealed curing sheeting or other approved curing method where water curing is not feasible. Do not use curing compound of any kind.

3.5 DEFECTIVE WORK

- A. Cut out, remove and replace, or repair to the satisfaction of the Owner's Representative, shotcrete not meeting minimum strength, not true, plumb or level, not to required elevations, containing cracks detrimental to performance or appearance, containing shavings, debris or with honeycombs or voids.
- B. Promptly perform Work required to repair, patch, replace, render properly cleaned surfaces (by sandblasting if necessary) or otherwise make good any defective shotcrete at Contractor's expense, including all expense of additional inspection, tests, or supervision made necessary as a result of defective shotcrete.

3.6 CLEAN-UP

- A. Upon completion of the Work of this Section, immediately remove all swimming pool shotcrete materials, debris and rubbish occasioned by this work to the approval of the Owner's Representative.

END OF SECTION

SECTION 131104
SWIMMING POOL CERAMIC TILE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 WORK INCLUDED

- A. Swimming pool ceramic tile detailed on the Drawings, including, but not limited to, the following:
 - 1. Waterline Face Tile.
 - 2. Gutter Cap Tile.
 - 3. Lane Line / Target Tile / 4'-6" Depth Tile.
 - 4. Depth Marker Tile. (At Cantilever Deck)
 - 5. Depth / Caution Marker Tile. (At Pool Deck)
 - 6. Trim Tile. (At Underwater Steps)
 - 7. No Diving Tile
 - 8. Top Step Tile (at Deep Gutter Pool)

1.3 QUALITY ASSURANCE

- A. Qualifications of Workers:
 - 1. The entity performing the work of this Section shall have been successfully engaged in the respective trade for at least five (5) years immediately prior to commencement of the Work.
 - 2. For actual construction operations, use only trained and experienced workers with a minimum of three (3) years experience with the materials and methods specified.
 - 3. Provide at least one person who shall be present at all times during execution of the work of this Section, with a minimum of five (5) years experience with the type of materials being installed, the referenced standards, and who shall direct all Work performed under this Section.
- B. Standards: In addition to complying with all pertinent codes and regulations:
 - 1. Manufacture of all tile shall be in accordance with ANSI A-137.1-1976.
 - 2. Install ceramic tile in accordance with the recommendations contained in the 2023 "Handbook for Ceramic Tile Installation" of the Tile Council of America, Inc.

- C. Tolerances: Install all swimming pool ceramic tile straight, true, plumb and square within a tolerance horizontally and vertically of 1/8". Waterline and gutter bullnose tile shall be level to 1/8" (+/- 1/16") around entire perimeter of swimming pools.

1.4 SUBMITTALS AND SUBSTITUTIONS

- A. Provide submittals in conformance with the requirements of Section 013300. Requests for substitution shall conform to requirements of Article 1.10.A of Section 131100.
- B. Samples: Submit samples of each color and pattern in the specified groups. Character samples can be representative for review prior to screening of actual tile.
- C. Master Grade Certificate: Prior to opening ceramic tile containers, submit a Master Grade Certificate, signed by the manufacturer of the tile used and issued when the shipment is made, stating the grade, kind of tile, identification marks for the tile containers, and the name and location of the Project.
- D. Specifications: Submit manufacturer's recommended installation specifications for the Work.
- E. Submit proof of qualifications as specified in Article 1.3.A of this Section.

1.5 PRODUCT HANDLING

- A. Delivery: Deliver all materials to the Project Site in the manufacturer's original unopened containers with all labels intact and legible.
- B. Storage: Store all materials under cover in a manner to prevent damage and contamination, and store only the specified materials at the Project site.
- C. Protection: Use all means necessary to protect swimming pool ceramic tile before, during and after installation and to protect the installed Work specified in other Sections.
- D. Replacements: In the event of damage, immediately make all repairs and replacements necessary to the approval of the Owner.

PART 2 - PRODUCTS

2.1 TILE

- A. Waterline Face Tile:
 - 1. Material: All waterline face tile shall be glazed ceramic tile (Group III standard) as manufactured by Dal-Tile or approved equal.
 - 2. Size: 6 x 6 inches.
 - 3. Color: Dal-Tile # #O-129, 'Sky Blue'. Contact Kylee Midura kylee.midura@daltile.com (858) 344-0019.

B. Gutter Cap Tile:

1. Material: All gutter cap tile shall be glazed ceramic tile (Group III standard) as manufactured by Dal-Tile or approved equal.
2. Size: 2-1/2 x 6 inches (#A-7250).
3. Color: Dal-Tile #D-129, 'Sky Blue'.

C. Lane Line / Target Tile / 4'-6" Depth Tile:

1. Material: Group 3 quality, frost proof unglazed ceramic mosaic tile with absorption rate of less than 1% as manufactured by Dal-Tile or approved equal.
2. Size: 1 x 1 inches.
3. Color: Lane Line Dal-Tile #D-311, 'Black'. 4'-6" depth tile #D-621 "Nautical Blue"

D. Depth Marker Tile (At Cantilever Deck Face):

1. Material: All depth marker tile shall be glazed ceramic tile with absorption rate of less than 20% as manufactured by Dal-Tile or approved equal.
2. Size: 4-1/4 x 4-1/4 inches.
3. Color: Dal-Tile #X-114 'Desert Gray' with black silk screen letters and numbers
4. Trim: Furnish trim pieces as indicated on the Drawings.

E. Depth / Caution Marker Tile (at pool deck):

1. Material: Group 3 quality, frost proof unglazed ceramic mosaic tile with absorption rate of less than 1% as manufactured by Dal-Tile or approved equal.
2. Size: 1 x 1 inches.
3. Color: Dal-Tile #D-311, 'Black' letters and numbers on #D-014 'Desert Gray' field.

F. Trim Tile (on underwater steps):

1. Material: Group 3 quality, frost proof unglazed ceramic mosaic tile with absorption rate of less than 1% as manufactured by Dal-Tile or approved equal.
2. Size: 1 x 1 inches, with S-812 quarter round.
3. Color: Dal-Tile #D-311, 'Black'.

G. "No Diving" Tile (at pool deck):

1. Material: Frost proof unglazed non-slip ceramic mosaic tile with absorption rate of less than 20% as manufactured by Dal-Tile or approved equal.
2. Size: 6 x 6 inches.
3. Color: International "No Diving" symbol over white background. Inlays #C621500, 'White' field.

H. Top Step Tile (at Deep Gutter Pool):

1. Material: Group 3 quality, frost proof unglazed ceramic mosaic tile with absorption rate of less than 1% as manufactured by Dal-Tile or approved equal.
2. Size: 1 x 1 inches, Keystone series.
3. Color: Dal-Tile #D-317, 'Biscuit'.

2.2 MORTAR

- A. Laticrete 3701 fortified mortar #LCR-37-1017.
- B. Site mortar mix shall comply with ASTM C270 standards.
 - 1. Sand for Mortar: Comply with requirements of fine aggregate for concrete.
 - 2. Cement: Type 1 portland cement, conforming to ASTM C150.
 - 3. Hydrated Lime: Conforming to ASTM C206 or 207, Type S.
 - 4. Water: From a potable source.
- C. Water: From a potable source.
- D. Mortar shall meet ASTM C627.

2.3 THIN SET MORTAR

- A. Laticrete 254 Platinum. Laticrete, Custom or equal.
- B. Water from a potable source.
- C. Mortar shall meet ASTM C627.

2.4 GROUT

- A. All tile grout shall be waterproof grout complying with the recommendations of referenced standards. Grout color shall be grey for dark backgrounds, white for light backgrounds (verify colors with Architect).

2.5 OTHER MATERIALS

- A. All other materials, not specifically described but required for a complete and proper installation of ceramic tile as indicated on the Drawings, shall be new, first quality of their respective kinds, and subject to the approval of the Owner's Representative.

PART 3 - EXECUTION

3.1 SURFACE CONDITIONS

- A. Inspection:
 - 1. Prior to all Work of this Section, carefully inspect the installed Work of other trades and verify that all such Work is complete to the point where this installation may properly commence.
 - 2. Verify that ceramic tile can be installed in accordance with the original design and all referenced standards.

B. Discrepancies:

1. In the event of discrepancy, immediately notify the Owner's Representative.
2. Do not proceed with installation in areas of discrepancy until all such discrepancies have been fully resolved.
3. Failure to notify the Owner's Representative and give written notice of discrepancies shall constitute acceptance by the Contractor of existing conditions as fit and proper to receive its Work.

3.2 INSTALLATION

A. Method:

1. Install all ceramic tile in strict accordance with installation method P601-90 of the 2023 Handbook for Ceramic Tile Installation of the Tile Council of America, Inc.
2. Be certain to install all ceramic tile perfectly level, flush, plumb, and to the finish grades and elevations indicated on the Drawings.

B. Interface:

1. Carefully establish and follow the required horizontal and vertical elevations to insure proper and adequate space for the work and materials of other trades.
2. Coordinate and cooperate as required with other trades to insure proper and adequate interface of ceramic tile Work with the Work of other trades.

3.3 GROUTING

- A. Follow grout manufacturer's recommendations as to grouting procedures and precautions.
- B. Remove all grout haze, observing grout manufacturer's recommendations as to use of acid and chemical cleaners.

3.4 EXTRA STOCK

- A. Provide one (1) unopened box of extra tile for 2.1A, 2.1B, 2.1C and 2.1F for Owners use at a future time.

3.5 CLEAN-UP

- A. Upon completion of the swimming pool ceramic tile installation, thoroughly clean and polish the exposed surfaces of tile work. Completely clean work area of debris and rubbish occasioned by this Work and dispose of to the approval of the Owner's Representative.

END OF SECTION

SECTION 131105
SWIMMING POOL PLASTER

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 WORK INCLUDED

- A. Swimming pool plaster and waterproofing of swimming pool structures as indicated on the Drawings and herein specified.
- B. Start-up and operation instructions to Owner's operations and maintenance personnel and properly balance swimming pool water chemistry until the Owner takes occupancy.

1.3 QUALITY ASSURANCE

- A. Qualifications of Workers:
 - 1. The entity performing the work of this Section shall have been successfully engaged in the respective trade for at least five (5) years immediately prior to commencement of the Work.
 - 2. For actual construction operations, use only trained and experienced workers with a minimum of three (3) years experience with the materials and methods specified.
 - 3. Provide at least one person who shall be present at all times during execution of the work of this Section, with a minimum of five (5) years experience with the type of materials being installed, the referenced standards, and who shall direct all Work performed under this Section.
- B. Standards: Swimming pool plaster shall conform with requirements of Chapter 31B of California Building Code, 2022 edition. In addition, meet requirements of applicable portions of most current edition of the "Technical Manual," National Plasterers Council, Wauconda, Illinois.
- C. Start-up:
 - 1. Furnish a swimming pool water chemistry consultant, with a minimum of five (5) years experience, possessing either AFO (Aquatic Facility Operator) or CPO (Certified Pool Operator) certification(s), to supervise and properly balance swimming pool water chemistry.
 - 2. Demonstrate to the Owner that all systems are fully operational and that calcium hardness, total alkalinity, chlorine residual and pH levels are within specified limits.

3. Standards: Furnish labor and chemicals as required to condition the water properly to the following specifications:
4. Calcium Hardness: 200-400 parts per million (PPM)
5. Total Alkalinity: 80-100 PPM
6. Chlorine Residual: 1.00 to 2.0 PPM
7. pH Factor: 7.2 to 7.6

1.4 SUBMITTALS AND SUBSTITUTIONS

- A. Provide submittals in conformance with the requirements of Section 013300. Requests for substitution shall conform with requirements of Article 1.11.A of Section 131100.
- B. Submit proof of qualifications as specified in Article 1.3.A and 1.3.C.1 of this Section.

1.5 PRODUCT HANDLING

- A. Delivery: Deliver materials to the Project Site in the manufacturer's original unopened containers with all labels intact and legible.
- B. Storage: Store materials under cover in a manner to prevent damage and contamination, and store only the specified materials at the Project Site.
- C. Protection: Use all means necessary to protect the swimming pool plaster before, during, and after installation and to protect the installed Work specified in other Sections.
- D. Replacements: In the event of damage, immediately make all repairs and replacements necessary to the approval of the Owner.

1.6 ENVIRONMENTAL CONDITIONS

- A. No plastering shall be done under unsuitable conditions of weather or temperature. No plastering shall be done when prevailing temperature is 40 degrees Fahrenheit or less.
- B. Do not install plaster during rain and, if rain commences after plastering has begun, immediately protect the plaster from rain by all means necessary until the plaster has set.
- C. Do not install plaster during wind greater than 10 mph and, if wind commences after plastering has begun, immediately protect the plaster from wind by all means necessary until the plaster has set.

PART 2 - PRODUCTS

2.1 CEMENT / AGGREGATE

- A. Luna Quartz® tiny pebble finish by Wet Edge Technologies. Altima® quartz finish by Wet Edge Technologies. Pebble-Fina® pool finish by Pebble Technologies.

2.2 COLOR

- A. All swimming pool plaster shall be white in color. Wet Edge Technologies shall be Luna Quartz® "Polar White". Wet Edge Technologies shall be Altima® "White". Pebble Technology shall be Pebble-Fina® "Classico". Contractor to obtain written approval on selected pebble color from the local Health Department prior to installation. Submit cut sheet, color sample and written approval for review by Architect and Owner."

2.3 WATER

- A. Water for swimming pool plaster shall be clean and free from injurious amounts of acid, alkali, and organics.

2.4 GUTTER, PUMP PIT, BACKWASH PIT & SURGE CHAMBER WATERPROOFING

- A. Xypex, Miracote Miraflex Membrane C Hycrete Waterproofing System or approved equal. Mix and apply per manufacturer's recommendations for specific application. Color shall be Gray.

PART 3 - EXECUTION

3.1 SURFACE CONDITIONS

- A. Inspection:
 - 1. Prior to Work of this Section, carefully inspect the installed Work of other trades and verify that all such Work is complete to the point where this installation can properly commence.
 - 2. Verify that swimming pool plaster can be installed in accordance with the original design and all referenced standards, including proprietary application techniques and application training/certifications.
- B. Discrepancies:
 - 1. In the event of discrepancy, immediately notify the Owner's Representative.
 - 2. Do not proceed with installation in areas of discrepancy until all such discrepancies have been fully resolved.

3. Failure to notify the Owner's Representative and give written notice of discrepancies shall constitute acceptance by the Contractor of existing conditions as fit and proper to receive the Work.

3.2 INSTALLATION OF GUTTER, PUMP PIT, BACKWASH PIT & SURGE CHAMBER WATERPROOFING

- A. A. Provide two (2) coats of the specified gutter and surge chamber waterproofing prior to plastering the swimming pool. Prepare surfaces to receive waterproofing and cure in conformance with manufacturer's recommendations. Provide steel trowel application method to ensure uniform smooth, dense surface finish.

3.3 INSTALLATION OF POOL PLASTER

A. Outdoor Pools or Spas:

1. Completion of other work: **DO NOT** commence plastering of swimming pool(s) or spa(s) until the following conditions have been met:
 - a. The Health Department and/or other governing agencies have approved the pool(s) and/or spas) for plaster.
 - b. All concrete pool deck construction is complete and the pool decks have been thoroughly cleaned.
 - c. All landscaping in areas adjacent to the pool(s) or spa(s) is complete and the landscape irrigation system is operable.
 - d. All painting in the pool area is complete.
 - e. All welding and grinding in locations adjacent to the pool area are complete.
 - f. The backwash sewer connection is complete.
 - g. Pool(s) and/or spa(s) area(s) perimeter fencing installation is complete.
 - h. All trash and debris have been removed from areas adjacent to the pool(s) or spa(s), particularly those areas that are normally upwind from the pool(s) or spa(s).
 - i. All dust raising construction and/or activities in areas adjacent to the pool(s) or spa(s) are complete or mitigated.
 - j. The circulation pump(s) is/are operational.
 - k. The mechanical system has been flushed sufficiently to remove all dirt and debris from the piping system.
 - l. All necessary chemicals (Chlorine, pH adjuster, Sodium Bicarbonate and Calcium Chloride or any other required chemicals) are on site and ready for use.
 - m. Obtain written approval from the Owner and the Architect.

B. Indoor Pools or Spas:

1. Completion of Other Work: **DO NOT** commence plastering of swimming pool(s) or spa(s) until the following conditions have been met:
 - a. The Health Department has approved the pool(s) and/or spa(s) for plaster.

- b. All work above the pool(s) and/or spa(s) is complete.
- c. All painting in the pool area is complete.
- d. All welding and grinding in locations adjacent to the pool area are complete.
- e. The backwash sewer connection is complete.
- f. All concrete pool deck construction is complete and the pool decks have been thoroughly cleaned.
- g. The circulation pump(s) is/are operation.
- h. The mechanical system has been flushed sufficiently to remove all dirt and debris from the piping system.
- i. All necessary chemicals (Chlorine, Acid, Sodium Bicarbonate and Calcium Chloride) are on site and ready to use.
- j. Obtain written approval from the Owner and the Architect.

C. Contractor accepts all liability from damage done to the pool plaster if the pool(s) or spa(s) is (are) plaster before the completion of the above listed items or without the written approval of the Owner and the Architect.

D. **POOL PLASTER AUTHORIZATION FORM:**

- 1. The pool(s) and or spa(s) at **Selma High School** is/are hereby approved for the installation of the pool plaster. Pursuant to the requirements of specification section 131105, paragraph 3.3.

Owner

Date

Architect / Project Manager

Date

E. Preparation:

- 1. Do not apply plaster over dirt, rust, scale, grease, moisture, scuffed surfaces or conditions otherwise detrimental to the formation of a durable plaster finish.
- 2. Consult with manufacturer on application to specific surfaces being treated. Follow manufacturer's recommendation for curing of cast-in-place concrete or shotcrete surfaces prior to application of plaster.
- 3. Protect ceramic tile, decking, deck equipment, gratings, fittings and other items by suitable covering or masking.
- 4. Mask or remove all hardware, hardware accessories, machined surfaces, plates, lighting fixtures and similar items in place not to receive pool plaster. Following completion of plaster for each space or area remove masking. Re-install all removed items utilizing workers skilled in the trades involved.

F. Application:

1. Finish shall be applied to a uniform thickness of 3/8" to 1/2" over the entire surface. The walls shall be scratch-coated followed by a finish coat. Material applied to the floor after the walls have been applied shall be accelerated to assure uniform setting time throughout the pool surface.
2. Float the plaster to a uniform plane and trowel to a smooth, dense, impervious surface using extreme care to avoid stains.
3. Take special care in finishing around pool fittings, making sure to mask off or plug openings so as not to fill such openings with excess plaster. Be certain to completely enclose pool fittings with plaster to insure a leak-proof seal around pipes, fittings, lights, anchors, etc.
4. Accurately interface with the finish planes of items installed by other trades.
5. Quartz and pebble plaster finish is to be applied by a licensed applicator as approved by the manufacturer, and in accordance with manufacturer's training.

3.4 CURING

- A. Preparation: Anticipate the need for required equipment and have all such equipment immediately available for use upon completion of pool plastering.
- B. Pool Filling:
 1. After the plaster has sufficiently dried and before drying has proceeded to a damaging point, cure the plaster by gradually filling the pool with water, preventing all damage to finished plaster surfaces.
 2. Flow the water continuously until the pool is filled.
 3. When the weather is hot and/or water pressure is low, keep the pool walls damp while the pool is filling.
 4. Coordinate with Contractor to ensure that the pool is continuously monitored while filling to prevent overflow.

3.5 EQUIPMENT ACTIVATION

- A. All water chemistry and filtration mechanical equipment shall be operational upon filling of pool after plaster. Chemicals and other related support items as supplied by Contractor, shall be in supply at start-up.
- B. For the first fourteen (14) calendar days after completion of the pool plaster, brush all plastered surfaces at least twice a day and coordinate with General Contractor to ensure that the plaster is carefully maintained after the initial fourteen day period. In addition, coordinate with the Contractor to ensure that pool filtration equipment is continuously running during the initial fourteen day period.
- C. Start-up and provide qualified personnel to operate pool equipment for a period not less than fourteen (14) days after the pool is placed in operation, or until the Owner takes occupancy of the facility or letter of substantial completion. During this time, Contractor shall instruct and supervise the Owner's personnel in the various operating and maintenance techniques involved. Contractor shall be responsible for supply of chemicals during this not less than fourteen (14) day period and at time of turnover to Owner, chemical storage tanks shall be full.
(Owner's personnel shall be fully trained)

and capable of assuming swimming pool maintenance tasks, training may begin before Owner takes occupancy).

3.6 CLEAN-UP

- A. Upon completion of swimming pool plaster, remove all materials, equipment and debris occasioned by this Work and leave the job site in a clean and presentable condition. Perform all such clean-up to the approval of the Owner's Representative.

3.7 WARRANTY

- A. All applicators must provide a minimum of five (5) year warranty for application and workmanship additional to the manufacturer's warranty for product.

END OF SECTION

SECTION 131106
SWIMMING POOL EQUIPMENT

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 WORK INCLUDED

- A. Swimming pool equipment items required for this Work as indicated on the Drawings and specified herein.

1.3 QUALITY ASSURANCE

- A. Qualifications of Workers:
 - 1. The entity performing the work of this Section shall have been successfully engaged in the respective trade for at least five (5) years immediately prior to commencement of the Work.
 - 2. For actual construction operations, use only trained and experienced workers with a minimum of three (3) years experience with the materials and methods specified.
 - 3. Provide at least one person who shall be present at all times during execution of the work of this Section, with a minimum of five (5) years experience with the type of materials being installed, the referenced standards, and who shall direct all Work performed under this Section.
- B. All equipment supplied or work performed shall comply with regulations governing public swimming pools and spas as contained within Chapter 31 of California Building Code, 2022 edition.

1.4 SUBMITTALS AND SUBSTITUTIONS

- A. Provide submittals in conformance with the requirements of Section 013300. Requests for substitution shall conform with requirements of Article 1.10.A of Section 131100.
- B. Required submittals include:
 - 1. Swimming Pool Safety Equipment as specified in Article 2.1 of this Section.
 - 2. Swimming Pool Maintenance Equipment as specified in Article 2.2 of this Section.
 - 3. Swimming Pool Fittings as specified in Article 2.3 of this Section.

- 4. Swimming Pool Deck and Mechanical Equipment as specified in Article 2.4 – 2.8 of this Section.
- C. Submit proof of qualifications as specified in Article 1.3.A of this Section.
- D. The equipment shown on the plans represent the first listed items in the technical specifications. The Contractor shall be responsible for all required field coordination and installation of any approved equal product to provide a fully working and warranted system. The Contractor shall submit detailed shop drawings for any products used other than the first listed specified items. Contractor provided shop drawings shall include details and quality equal to the original plans and construction documents. The Contractor shall provide any and all required engineering including but not limited to structural and anchorage requirements for any proposed equipment other than the first listed specified equipment. The Contractor is responsible to provide a factory certified representative(s) to start-up and provide on-site training for all swimming pool mechanical equipment provided.

1.5 PRODUCT HANDLING

- A. Protection: Use all means necessary to protect swimming pool equipment items before, during and after installation and to protect the installed work specified in other Sections.
- B. Replacements: In the event of damage, immediately make all repairs and replacements necessary to the approval of the Owner's Representative.

PART 2 - PRODUCTS

2.1 SAFETY EQUIPMENT

- A. Throw Rope (3/16" diameter) complete with lemon foot, for use with Life Ring Buoy: Kiefer, United Industries, or approved equal. Quantity as required by the Department of Health, two (2) minimum.
- B. Rescue Hooks, 16' long x 1-1/2" aluminum pole and stainless steel mounting hardware: Kiefer, Pentair, or approved equal. Quantity as required by the Department of Health, two (2) minimum.
- C. Pool Safety Signs: As required by the Department of Health. Submittal required. Placement at the pool site shall be in conformance with Health Department Inspector. Two (2) set minimum

2.2 MAINTENANCE EQUIPMENT

- A. Water Quality Test Kit, Professional Grade, Taylor Technologies Model #1741C, LaMotte Model #PRO250-NJ or approved equal. One (1) required.

2.3 FITTINGS

- A. Main Drain Frame & Grate (18" x 36") 'Daldorado' DALMAX-FG-1836, two (2) required. 'Hayward' 1-1/2" collector tubes #SP1056 and 'Hayward' 1-1/2" hydrostatic relief valves #SP1055, one per main drain sump. Contractor shall provide to the Owner a Certificate of Compliance, signed by a licensed design professional, for main drain sump(s) and frame(s) and grate(s), as required by the Virginia Graeme Baker Act.
- B. Gutter Outlet Frame & Grate (12"x12"): Hayward #SP-1032, United Industries, or approved equal. Twelve (12) required.
- C. Floor Return Inlet 1-1/2" Adjustable Covers: StaRite #08417-0000, United Industries, or approved equal. Fifty-four (54) required.
- D. Swimming Pool Underwater Lights: 'PureWhite LED' #LPL-F5W-120-100 (100' cord) with polished stainless steel face rings, 87 watt lamps and LWC (J & J Electronics); existing light niches, , 'Pentair' or approved equal. Contractor shall verify new lights work in existing niches prior to ordering. Thirty-two (32) required.

2.4 DECK EQUIPMENT

- A. Starting Platform Anchors: KDI-Paragon 'Competitor' #23103DW, 6" deep, no known equal. Twenty-two (22) required. 'Competitor' #23074, cover for dual wedge, 'Competitor' #23303, cover removal tool.
- B. Adjustable Starting Platforms: Track Start Competitor, Side Step #24527 Track Start Competitor Long Reach, no known equal. Eleven (11) required.
- C. Stanchion Sockets: 1.90" I.D. Bronze. KDI-Paragon 38201TC, S.R. Smith, Paddock, or Spectrum. Six (6) required.
- D. Stanchion Posts: 1.90" O.D. x .145 wall. KDI-Paragon, Six (6) #38106 8' post, four (4) #38301 hook and collar, KDI-Paragon, S.R. Smith, Paddock, or Spectrum.
- E. Lane Line Anchors: Heavy eye bolt with insert. KDI-Paragon #70317/18 KDI-Paragon, S.R. Smith, Paddock, or Spectrum. Eight (8) new required. Replace any lost or damaged.
- F. Racing Lanes, Competitor #200-330, no known equal. Verify color with Owner's Representative prior to ordering. Provide four (4) vinyl covered stainless steel lane line extensions, Knorr System model #EP-009-0020 or approved equal, two (2) per lane line. Provide four (4) additional lanes to be utilized with floating water polo as side lanes, complete with water polo markings and 8 side goal tethers.
- G. Recessed Steps, Set of 3: SR Smith #62-209-4001, KDI-Paragon #32102. Two (2) sets of three required.
- H. Anchor Sockets for Grab Rails, and Handrails: KDI-Paragon 28102, KDI-Paragon, S.R. Smith, Paddock, or Spectrum. Twenty-two (22) required.

- I. Stainless steel Escutcheon Plates for Grab Rails, and Hand Rails: Spectrum Model #35214, KDI-Paragon, S.R. Smith, Paddock, or Spectrum. Twenty-two (2) required.
- J. Disabled Lift: Aqua Creek Mighty 400 #F-MTY400 (350 lb. min and 400 lb. max lifting capacity) self-operated, or approved equal. Furnish complete with anchors, cover, extra battery pack and transporter cart #INV01902. All parts and accessories shall be 'Coastal Gray'. One (1) required.
- K. Backstroke Pennants: 'Champion' 3/16" diameter vinyl coated cable #50-175, 'Champion' hardware package #53-030, and 'Champion' 12" x 18" vinyl coated polyester pennants #53-020, Lincoln Equipment, Knorr Systems or equal. Replace if damaged.
- L. 1 Meter Diving Stand: Arcadia Air Products 'Duraform' #70-231-400, no known equal. Furnish complete with double rails, anchors, and mounting hardware. Two (2) total
- M. (E)16' Diving Board: Arcadia Air Products 'Maxiflex B' #66-231-330, no known equal. Furnish complete with jury rig poles. Replace if damaged.
- N. Floating Water Polo Goals: 'Antiwave' #AW0550 with nets and tethers. One (1) pair required.

2.5 SWIMMING POOL STRAINER

- A. "MerMade" F.O. series FRP reducing basket strainer: 10" x 8" standard, with acrylic lid and two (2) stainless steel strainers each (150 lbs.)

2.6 SWIMMING POOL CIRCULATION PUMP

- A. 'Paco' #6015-7; 6" x 8" x 15 Type 'LC' end suction centrifugal pump; outdoor rated, 1150 RPM 460V, 3PH; 30HP; rated at 1,490 GPM @ 60 Ft. TDH; 87% efficient; premium efficiency TEFC motor; epoxy coat all wet surfaces. 'Paco', 'Aurora' or equal. One (1) required. (600 lbs.) Provide smart pump control system SPCS-EKO-FLEX #SPCS030N4X8 (20.5" x 41" x 13.9") variable frequency drive. mounting location to maintain required clearances, 480V 3PH. (312 lbs.).

2.7 SWIMMING POOL HEATER

- A. Indirect fired pool heating package system; 'AquaS' Crest SmartTouch control condensing modulating boiler, titanium heat exchanger with CPVC connections, factory assembled skid mounted package, California Code controls, 1½" natural gas connection, 4" water connections, 8" diameter air inlet and 8" diameter side wall vent size, PVC vented; 1,750,000 BTU per hour input, 97% efficient. Provide ¾" cold water connection 'Lochinvar APN1750N', weight = 3,247 lbs. each. Two (2) total

2.8 SWIMMING POOL CO₂ FEED SYSTEM

- A. NOVO-750, 750 lb. cryogenic liquid CO₂ storage tank with remote fill port. 594 liquid lbs., (5195 cubic feet of gaseous CO₂ at NTP). One (1) total. Provide EKO PH-MTS CO₂ high efficiency feed system with alkalinity control, 0 to 160 SCFH feed capacity booster pump, piping injector, flowmeter, relays and acid feed alkalinity control. One (1) system total (92 lbs.) Provide within mechanical room hard wired 'Analox' #API KIT CO₂ detector with audible and visual alarms and sensors in each chemical room and mechanical room, UL 1971 Standard Listed. One (1) total

PART 3 - EXECUTION

3.1 SURFACE CONDITIONS

- A. Inspection:
 - 1. Prior to installing the items of this Section, carefully inspect the installed Work of other trades and verify that all such Work is complete to the point where this installation may properly commence.
 - 2. Verify that the swimming pool equipment items may be installed in strict accordance with original design, pertinent codes and regulations, and the manufacturers' recommendations.
- B. Discrepancies:
 - 1. In the event of discrepancy, immediately notify the Owner's Representative.
 - 2. Do not proceed with installation in areas of discrepancy until all such discrepancies are fully resolved.
 - 3. Failure to notify the Owner's Representative and give written notice of discrepancies shall constitute acceptance by the Installer of existing conditions as fit and proper to receive its Work.

3.2 INSTALLATION

- A. Supply and install items of swimming pool equipment in strict accordance with applicable codes and regulations, the original design, and the manufacturer's published recommendations, anchoring firmly and securely for long life under hard use.
- B. Coordinate with other trades to insure all imbedded items are set plumb and flush. Railing ends must have anchor sockets and escutcheon plates. Be certain that deck equipment and railings are properly bonded prior to imbedding.
- C. All equipment shall be braced and/or anchored to resist a horizontal force acting in any direction using the criteria shown on the Drawings.

3.3 INSTRUCTION

- A. The Contractor shall provide a factory certified representative(s) to start-up and certify proper installation, operation and full warranty status of all swimming pool mechanical equipment. The Contractor shall provide not less than two 8-hour days of on-site training for facility staff in the operation and maintenance of the swimming pool mechanical equipment and systems. The two 8-hour days shall be separated by a minimum of seven calendar days and be completed within the 14-day start-up period.

3.4 EQUIPMENT ACTIVATION

- A. All water chemistry and filtration mechanical equipment shall be operational upon filling of pool after plaster. Chemicals and other related support items as supplied by Contractor, shall be in supply at start-up.
- B. For the first fourteen (14) calendar days after completion of the pool plaster, brush all plastered surfaces at least twice a day and coordinate with General Contractor to ensure that the plaster is carefully maintained after the initial fourteen day period. In addition, coordinate with the Contractor to ensure that pool filtration equipment is continuously running during the initial fourteen day period.
- C. Start-up and provide qualified personnel to operate pool equipment for a period not less than fourteen (14) days after the pool is placed in operation, or until the Owner takes occupancy of the facility or letter of substantial completion. During this time, Contractor shall instruct and supervise the Owner's personnel in the various operating and maintenance techniques involved. Contractor shall be responsible for supply of chemicals during this not less than fourteen (14) day period and at time of turnover to Owner, chemical storage tanks shall be full. (Owner's personnel shall be fully trained and capable of assuming swimming pool maintenance tasks, training may begin before Owner takes occupancy).

3.5 CLEAN-UP

- A. Upon completion of swimming pool equipment, remove all debris, materials and equipment occasioned by this Work to the approval of the Owner's Representative.

END OF SECTION

SECTION 131107
SWIMMING POOL MECHANICAL

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 WORK INCLUDED

- A. Swimming pool mechanical piping as indicated on the Drawings for circulation and filtration systems, pool water heating systems, chemical control systems, booster pump systems and appurtenances.
- B. Domestic water system from points of connection within swimming pool mechanical equipment room to make-up water system.
- C. Filter backwash piping to point of connection with backwash retention pit as required.

1.3 QUALITY ASSURANCE

A. Qualifications of Workers:

- 1. The entity performing the work of this Section shall have been successfully engaged in the respective trade for at least five (5) years immediately prior to commencement of the Work.
- 2. For actual construction operations, use only trained and experienced workers with a minimum of three (3) years experience with the materials and methods specified.
- 3. Provide at least one person who shall be present at all times during execution of the work of this Section, with a minimum of five (5) years experience with the type of materials being installed, the referenced standards, and who shall direct all Work performed under this Section.

B. Standards:

- 1. All equipment supplied or work performed shall comply with Chapter 31 of California Building Code, 2022 edition.
- 2. Work shall be performed in accordance with the applicable editions of all National, State and local codes, laws, regulations and ordinances, including the following:
 - a. American National Standards Institute (ANSI).
 - b. American Society for Testing Materials (ASTM).
 - c. American Waterworks Association (AWWA).
 - d. American Welding Society (AWS).

3. Do not construe anything in the Drawings or Specifications to permit Work not conforming to these requirements.

1.4 SUBMITTALS AND SUBSTITUTIONS

- A. Provide submittals in conformance with the requirements of Section 013300. Requests for substitutions shall conform with requirements of Article 1.10.A of Section 131100.
- B. Required submittals include:
 1. Pipe and Fittings as specified in Article 2.2 of this Section.
 2. Valves as specified in Article 2.3 of this Section.
 3. Pressure / Vacuum Gauges as specified in Article 2.4 of this Section.
 4. Pipe Hangers and Supports as specified in Article 2.5 of this Section.
 5. Sleeves and Waterstops as specified in Article 2.6 of this Section.
- C. Submit proof of qualifications as specified in Article 1.3.A of this Section.

1.5 PRODUCT HANDLING

- A. Delivery: Deliver all materials to the Project Site in the manufacturer's original unopened containers with all labels intact and legible.
- B. Storage: Store all materials under cover in a manner to prevent damage and contamination, and store only the specified materials at the Project site.
- C. Protection: Use all means necessary to protect swimming pool mechanical items before, during and after installation and to protect the installed Work specified in other Sections.
- D. Replacements: In the event of damage, immediately make all repairs and replacements necessary to the approval of the Owner and at no additional cost to the Owner.

1.6 JOB CONDITIONS

- A. Cooperate with entities performing Work specified in other Sections to so that no conflict of new construction or occupied space may occur. Should any installation Work be done without such craft coordination, that Work so installed shall be removed and re-installed.

PART 2 - PRODUCTS

2.1 PRODUCT QUALITY

- A. Materials and equipment shall be new, of the best quality for the purpose intended, and shall be clearly marked with the manufacturer's name and nameplate data or stamp

and rating. As far as practicable, materials and equipment shall be of one manufacturer.

2.2 PIPE AND FITTINGS

- A. PVC Schedule 40: Type 1, normal impact, NSF approved for solvent welding applications, ASTM Specification D-1785, color shall be white. Dura, Lasco, or approved equal.
- B. PVC Schedule 80: Type 1, normal impact, NSF approved for solvent welding applications, ASTM Specification D-1785, color shall be gray. Dura, Lasco, or approved equal.
- C. CPVC Schedule 80 Influent/Effluent Heater Piping: Type 1, normal impact, NSF approved for solvent welding applications, ASTM Specification D-1785, color shall be gray. Dura, or Lasco.
- D. Cold plunge piping shall be schedule 80 throughout, from the cold plunge to the pool mechanical room. Install insulation on all cold-water PVC schedule 80 piping. Provide NBR/PVC closed-cell pipe insulation, pre-slit, pre-glued with overlap, $\frac{3}{4}$ " wall thickness with a temperature range between -70° to 220°F for schedule 80 PVC pipe. Install pipe insulation per the manufacturer's recommendations.
- E. PVC DR25: Conforming to ATSM D-1784, use with epoxy coated bell and spigot-type fittings or epoxy coated mechanical joint by flange adapters with epoxy coated cast iron fittings as specified in Article 2.02 (F), below. Johns-Manville "Big Blue", Diamond Plastics, or approved equal.
- F. Copper Tubing: ASTM Specification B-88, hard drawn, with ANSI Standard B16.22 wrought copper fittings.
- G. Steel: ASTM Specification A-120, Schedule 40 black or galvanized pipe with ASTM A-47 150 lb. banded malleable iron threaded fittings.
- H. Cast Iron: ASTM Specification B16.1, cast iron flanged fittings, provide epoxy coating as required for use with chlorinated water.

2.3 VALVES

- A. Ball Valves:
 - 1. For pool system: True-Union design, PTFE seat material with FPM or FKM Double O-ring stem seals, locking handle, NSF certified. PVC schedule 80 body for below grade installation. PVC Schedule 80 body for above grade installation. Furnish ball valves on all pip diameters 2 $\frac{1}{2}$ " or less with a rating of at least 200psi at 73° F, Asahi, Ipex or Nibco.
 - 2. For copper pipe system: 3-piece full-port Bronze body valve with Teflon seat, 'Apollo', 'Nibco' or approved equal.

B. Butterfly Valves:

1. Epoxy coated cast or ductile iron body, 316 stainless steel disc and stem, viton seat material, furnish hand wheel/gear operators on all valves 8" and larger. DeZurick, Keystone, Iplex or equal.
2. PVC body, PVC disc and EPDM construction suitable for chlorinated water applications. Stem shall be of 316 stainless steel and non-wetted. Valves shall be self-gasketed design with a convex sealing arrangement. Valves 1-1/2" – 10" shall be rated to 150 psi and 12" valves shall be rated to 100 psi at 70°F. Asahi Pool-Pro, no known equal.

C. Check Valves: Wafer-type, epoxy coated cast or ductile iron body, 316 stainless steel plates and shaft, viton seat material. Centerline, Metraflex, or approved equal.

D. Surge Chamber Float Valve: EPD #2-0020-019 Float Control Valve, " line size, as manufactured by Environmental Products Division of Doughboy Recreational, Rancho Cucamonga, CA, no known equal.

E. Surge Chamber Isolation Valve: Butterfly valve, tapped lug style, bronze body, stainless steel stem, bronze disc, phenolic back-up ring, EPT seat material. Provide stainless steel shaft extension, shaft housing and tool operator located 2'-0" above floor level with deck access grate as required. DeZurick, Keystone, Asahi, Spears, Iplex or approved equal.

F. RP Backflow Preventer: Febco #835-B for 2" and smaller; #825 for 2-1/2" and larger. Febco, Watts, or approved equal.

G. Make-up Water Control: Cla-Val make-up water control valve with ductile iron body/cover, bronze trim, globe pattern, Buna-N rubber seals. Pilot system materials to consist of bronze/brass with stainless steel wetted parts and Buna-N rubber seals.

System to include: 100-01 Hytrol valve, CF1-C1KX float control, X46A flow clean strainers, and copper tubing with brass fittings. Float linkage and float rod shall be PVC and brass. Base plate shall be 316 stainless steel. The plastic float shall be provided with 8' PVC rod and stops and a brass counter weight. Provide model #124-01AKX available KSI (714) 754-044.

2.4 PRESSURE / VACUUM GAUGES

- A. Furnish and install pressure and vacuum gauges on the discharge and suction sides of all pumps. 2" or 2 1/2" diameter dial, bottom connection, chrome ring, shut-off cock and snubber. Ranges shall be selected to indicate between mid-point and two-thirds of maximum range under design conditions. Marsh, Terice, or approved equal.

2.5 PIPE HANGERS AND SUPPORTS

- A. General:

1. The requirements of this Section relates to various requirements of the Agreement, General and Supplementary Conditions, Specifications, Drawings, and modifying documents which are part of the Construction Contract. Responsibility for coordination of all such applicable requirements will be that of the Contractor.

B. Description:

1. This section provides guidelines and limitations for the support of all mechanical, electrical, plumbing or architectural items from the building structure, and for the seismic bracing of such items.
2. Design and install all support and bracing systems as required for the swimming pool systems. Provide for attachment to portions of the building structure capable of bearing the loads imposed. Design these systems to not overstress the building structure.

C. Quality Assurance:

1. Design and install all support systems to comply with the requirements of the 2022 California Building Code, Chapter 16A.
2. Seismic bracing is to be designed by a professional engineer licensed in the State of California.
3. For the seismic bracing of mechanical, electrical and plumbing system, refer to "Guidelines for Seismic Restraints of Mechanical Systems and Plumbing Piping Systems" by Sheet Metal and Air conditioning Contractors National Association, Inc., (SMACNA) for guidelines.

D. Submittals:

1. Submit shop drawings for all substructures and attachment methods.
2. Submit proposed alternative methods of attachment for review and approval by the Architects, prior to deviating from the requirements given below.
3. For all pipe hangers and support systems, submit structural calculations and details which include all resultant forces applied to the building structure and are prepared and signed by the Contractor's licensed California professional engineer. Calculations will be reviewed for compliance with design criteria, not for arithmetic.

E. Materials:

1. Use Kin-Line, Grinnel, or approved equal.
2. Support all pipelines individually with hangers, each branch having at least one hanger. Lateral brace as noted and required.
3. Support piping near floor with steel stanchions welded to end plates secured to pipe and floor.
4. Support vertical piping at each floor level. Install coupling in piping at each support. Coupling shall rest on and transmit load to support. Isolate copper from steel supports with vinyl electrician's tape around pipe and coupling.
5. Use Stoneman "Trisolator," Unistrut, or approved equal, isolators at each hanger and other support points on bare copper tubing system.

6. For PVC pipe, space hangers four (4) feet apart for pipe sizes 1" and under, five (5) feet apart for pipe sizes 1-1/4" to 2", and six (6) feet apart for pipe sizes over 2". Space hangers for horizontal pipes at a maximum of six (6) feet for copper 2" and smaller and for steel 1-1/4" and smaller; ten (10) feet for copper 2-1/2" and larger and for steel 1-1/2" and larger.
7. Size hanger rods, screws, bolts, nuts, etc., according to manufacturer's sizing charts.
8. Trapeze hangers may be used for parallel lines.
9. Use galvanized or cadmium plated hangers, attachments, rods, nuts, bolts, and other accessories in pool mechanical room, high humidity areas, or where exposed to weather. Hot dip galvanize all items which are not factory furnished. Plating for hinged movements must be done at the factory.
10. Lateral Bracing: To prevent swaying of the piping systems, provide angle iron bracing and anchor into wall or overhead framing. Piping shall be braced or anchored in such a way as to resist a horizontal force of 50% of its operating weight in any direction.
11. Do not use wire or other makeshift devices for hangers.
12. Furnish all substructures and fasteners required to comply with the limitations given below. Use material as specified in the various sections and as appropriate to their use.
13. Install stainless steel or FRP Unistrut, pipe clamps/hangers, supports/bracing with stainless steel hardware in the chemical storage rooms, surge/balance tanks, or any other corrosive environment.

F. Guidelines & Limitations:

1. Each Contractor will coordinate the load requirements from all subcontractors so that no combination of loads overstresses the building structure or exceed the limitations given below.
2. Concrete Structure:
 - a. Support all loads hung from concrete structure with cast-in-place inserts, unless drilled-in anchors are specifically approved in writing prior to placing the concrete.
 - b. Concrete anchors must not penetrate into reinforcing bars. Where the anchors boring indicates the presence of reinforcing bar, patch hole with an epoxy type grout and relocate anchor 12 diameters away.
 - c. Individual expansion anchors cannot support any loads greater than 300 pounds or manufacturer's specified load capacity without approval.
3. Steel Structure:
 - a. Hang no more than 20 pounds per metal deck rib in any span.
 - b. At beams, hang all beam loads greater than 40 pounds concentric to beam, not off the flanges.
 - c. Attached no loads to the beams or girders greater than the following without specific approval from the architect;
 - 1) Roof beams and girders: 300 pound point load or 600 pound total load for a single span.

G. Seismic Bracing:

1. Design and install seismic bracing to not ground out vibration and sound isolation systems.
2. All items of mechanical and electrical equipment 60" or more in height are to be seismically braced whether such bracing is shown or not.

2.6 2.06 SLEEVES AND WATERSTOPS

- A. A. Provide sleeves where work of this Section passes through fire rated partitions, floors and ceilings, concrete slabs or exterior of structure. Caulk clearance space using sealant appropriate for application in conformance with manufacturer's recommendations and Title 24 of California Code of Regulations. 3m, Dow Corning, or approved equal. In lieu of sleeves and caulking, "Link Seal" products may be used.
- B. B. Provide prefabricated waterstops as indicated on the Drawings at all pipe penetrations through structures containing stored water (i.e., swimming pools, balance/surge tanks, etc.) to insure leak-proof seals.

PART 3 - EXECUTION

3.1 SURFACE CONDITIONS

A. Inspection:

1. Prior to Work of this Section, carefully inspect the installed Work of other trades and verify that such work is complete to the point where this installation may properly commence.
2. Verify that items of this Section may be installed in accordance with the original design and referenced standards.

B. Discrepancies:

1. In the event of discrepancy, immediately notify the Owner's Representative.
2. Do not proceed with installation in areas of discrepancy until all such discrepancies have been fully resolved.
3. Failure to notify the Owner's Representative and give written notice of discrepancies shall constitute acceptance by the Contractor of existing conditions as fit and proper to receive his work.

3.2 ABBREVIATIONS AND SYMBOLS

- A. Abbreviations and symbols on the Drawings are those most commonly used. Obtain clarification from the Owner's Representative on any questionable items before bid.

3.3 GENERAL PIPING REQUIREMENTS

- A. Size any section of pipe for which size is not indicated or any intermediate section erroneously shown undersized the same size as the largest pipe connecting to it. Sizes listed are nominal.
- B. Cut pipe accurately to job measurements and install without springing or forcing, true to line and grade, generally square with building and/or structures and adequately supported to prevent undue stress on pipe, fittings and accessories.
- C. Make changes of direction with manufactured fittings. Street ells, bushings, reducing flanges, close nipples or bending of pipe is not allowed.
- D. Use great care to install piping in accordance with best practice. Plastic pipe shall be "snaked" in trenches to allow for thermal expansion.
- E. All above grade, below grade and buried or imbedded PVC shall be installed using solvent weld fittings. Also, each and every fitting and pipe end shall be prepared with solvent primer. Fittings shall be joined individually and with enough time between assembly of adjacent joints to allow them to seal solidly. After joining, an even ring of primer must be visible around the entire fitting. If any fittings are installed without visible primer, the fitting shall be removed and discarded and piping recut, rechamfered and joint made up again using a new fitting. All procedures, methods and techniques used to make up solvent weld joints shall be in strict accordance with manufacturer's recommendations.
- F. Arrange pipe and hangers to allow for expansion, contraction and structural settlement. No pipe shall contact structure except penetrations as shown on the Drawings.
- G. Provide dielectric connections between copper and dissimilar metals. In copper systems, threaded piping including connections to equipment shall be brass pipe and fittings. Install dielectric connections in vertical sections of piping only.
- H. Run pipe full size through shut-off valves, balancing valves, etc. Change pipe size within three (3) pipe diameters of final connection to control valves, fixtures and other equipment.
- I. Provide unions or flanges at connections to equipment, on service side of valves and elsewhere as required to facilitate ease of maintenance.
- J. Locate equipment shut-off valves as close to equipment as possible maintaining easy valve access.
- K. Make all connections between domestic water systems and equipment or face piping with approved backflow prevention devices as required.
- L. All PVC pipe exposed to direct sunlight shall be painted with two coats of Exterior Acrylic Semi-gloss Paint, Sherwin Williams or equal. Color to be selected by the Architect. Prior to painting the PVC pipes, the exterior of all PVC pipes shall be wiped with Methyl Ethyl Ketone, or an approved equal, to remove the glaze from the pipes.

- M. The Main Drain pipe must run either level or uphill from the main drain sump, through the surge pit (if applicable) and then to the circulation pump.

3.4 TRENCH EXCAVATION AND BACKFILL

A. Excavation:

1. Excavate and backfill trenches as required for the Work of this Section. Conform to requirements of Section 131101.
2. The Contractor shall perform all excavation of every description and of whatever materials encountered, to the depths indicated on the Drawings or as necessary. The Contractor shall dispose of the excavated materials not required or suitable for backfill as directed, and shall perform such grading as may be necessary to prevent surface water from flowing into the trenches. The Contractor shall provide adequate equipment for the removal of storm or subsurface waters, which may accumulate in the excavated areas.

B. Trenching:

1. Excavate trenches to lines and grades as indicated on the Drawings and with banks as nearly vertical as practicable.
2. Bottoms of trenches shall be accurately graded to provide uniform bearing on undisturbed soil for the entire length of each section of pipe.
3. The width of the trench at and below the top of the pipe shall be such that the clear space between the barrel of the pipe and the trench wall shall not exceed 8" on either side of the pipe. The width of trench above the top of pipe may be wider if necessary.
4. Over-depth excavations shall be filled with tamped sand to required grades.
5. Excavations of five (5) feet or more in depth shall be shored or supported in conformance with rules, and regulations of State and Federal Governments. Shoring shall be constructed, maintained and removed in a manner to prevent caving of the excavation walls or other load on the pipe.

C. Backfilling:

1. Material for backfilling of pipes shall be approved granular material less than two (2) inches in diameter obtained from the excavation. No material of a perishable, spongy or otherwise unsuitable nature shall be used as backfill.
2. Backfilling of pipe trenches shall commence immediately after installation and testing to preclude damage to the installed pipe. Backfill around pipe shall be carefully placed so as not to displace or damage the pipe, and shall be carried up symmetrically on each side of the pipe to one foot above the top of the pipe. The material shall be carefully compacted or consolidated before additional backfill is placed.
3. Backfill above an elevation of one foot above the top of pipe in conformance with requirements of Section 131101. Material for balance of backfill shall be approved granular material less than six (6) inches in diameter taken from the excavation.
4. Unless otherwise indicated on the Drawings, all pipe shall have a minimum of eighteen (18) inches of cover.

3.5 GENERAL EQUIPMENT REQUIREMENTS

- A. Position equipment to result in good appearance and easy access to all components for maintenance and repairs.
- B. Install piping, flues, breeching and ducts so that they do not interfere with equipment access.
- C. Install level, secure and out of moisture. Provide shims, anchors, support straps, angles, grouted bases, or other items as required to accomplish proper installation.
- D. All screws, nuts, bolts and washers shall be galvanized, cadmium plated or stainless steel. After fabrication, hot-dip galvanize unfinished ferrous items for outdoor, below grade or other use subject to moisture.
- E. Extend 1/2" Schedule 40 black steel pipe lubrication tubes from all hard to reach locations to front of equipment or to access points. Terminate with proper type of lubrication fitting.

3.6 VALVES AND STRAINERS

- A. If no shut-off is indicated, provide ball valves at inlet connections and balance valves at outlet connections to fixtures and equipment. Provide proper valve trim for service intended.
- B. Use no solder end valves unless noted otherwise; provide adapters in copper tubing systems.
- C. Locate valves with stems above horizontal plane of pipe. In general, locate valves within six (6) feet of floor, out from under equipment, in accessible locations with adequate clearance around hand wheels or levers for easy operation.
- D. Provide all valves, cocks and strainers, full pipe size unless indicated otherwise.
- E. Provide hand wheel operators on all valves 6" and larger, under 6" lever operators may be used.
- F. Provide tool operated valve with stainless steel shaft extension and 'on deck' tool operation for surge chamber butterfly isolation valve.

3.7 IDENTIFICATION OF PIPING

- A. Identify each valve by a numbered brass tag with hole and brass chain mounted on valve stem or handle. Tag to be a minimum of 1" in diameter and numbers at least 1/4" high stamped into tag. Valves and plumbing lines shall be labeled clearly with the source or destination descriptions.
- B. Install an identification chart in a plastic or glass framed enclosure, which schematically illustrates the proper operation of all piping systems and indicates number and location of all valves and control devices within the system.

- C. The direction of flow for the recirculation equipment shall be labeled clearly with directional symbols such as arrows on all piping in the equipment area. Where the recirculation equipment for more than one pool is located on site, the equipment shall be marked as to which pool the system serves.

3.8 TESTS

- A. Perform tests in presence of Owner's Representative with no pressure loss or noticeable leaks.
- B. Do not include valves and equipment in tests. Include connection to previously tested sections if systems are tested in sections.
- C. Perform tests as follows:

<u>System</u>	<u>Test Pressure</u>	<u>Test Medium</u>	<u>Duration</u>
Skimmer Lines and Lawson Main Drain sump lines	20psig	Water*	4 hours
Pool Piping	50 psig	Water*	4 hours
Pool Main Drains	30 psig	Water*	4 hours
Domestic Water	150 psig	Water*	4 hours

***Never test PVC pipe or fittings with air or other gases, always use water.**

3.9 PIPE MATERIAL APPLICATION

- A. PVC Schedule 40: Below grade swimming pool piping and domestic water piping up to 12" line size; use standard solvent weld fittings.
- B. PVC Schedule 80: Above grade swimming pool piping up to 12" line size; use solvent weld Schedule 80 or epoxy coated cast iron fittings.
- C. Type L Hard Copper: Above grade domestic water piping.
- D. CPVC Schedule 80; Pool Heater Piping.
- E. Schedule 40 Steel: Natural gas piping.
- F. Pipe Insulation for Cold Plunge or Cold Water Piping: Install pipe insulation on all cold water PVC schedule 80 cold plunge circulation piping located in the pool mechanical room and exposed above grade piping. Provide NBR/PVC closed-cell pipe insulation, pre-slit, pre-glued with overlap, 3/4" wall thickness with a temperature range between -70° to 220°F for schedule 80 PVC pipe.

3.10 CUTTING AND DRILLING

- A. Cutting or drilling necessary for installation of Work of this Section shall be done only with approval of Owner's Representative.

3.11 CLOSING-IN OF UNINSPECTED WORK

- A. Do not cover or enclose Work before testing and inspection. Re-open Work prematurely closed and restore all Work damaged.

3.12 QUIETNESS

- A. Quietness is a requirement. Eliminate noise, other than that caused by specified equipment operating at optimum conditions, as directed by Owner's Representative.

3.13 FLUSHING OF LINES

- A. Flush or blow out pipes free from foreign substances before installing valves, stops or making final connections. Clean piping systems of dirt and dust prior to initial start-up.
- B. Just prior to plastering the pool, under the observations of the IOR, the pool mechanical system shall be flushed using the pool circulation pump. Circulate water through the mechanical system until the effluent water from the pool return heads runs clean.

3.14 CLEAN-UP

- A. After all Work has been tested and approved, the Swimming Pool Subcontractor shall thoroughly clean all parts of the equipment installations, including all pool pipe and fittings in the pool mechanical room. Exposed parts shall be cleaned of cement, plaster and other materials and all grease and oil spots removed with solvent.
- B. The Swimming Pool Subcontractor shall remove debris from the Project site. Cartons, boxes, packing crates and excess materials not used, occasioned by this work shall be disposed of to the satisfaction of the Owner's Representative.
- C. If the above requirements of clean up are not performed to the satisfaction of the Owner's Representative, the Owner reserves the right to order the work done, the cost of which shall be borne by the Swimming Pool Subcontractor.

END OF SECTION

SECTION 131108
SWIMMING POOL ELECTRICAL

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 WORK INCLUDED

- A. Provide labor, materials and equipment as required to install the swimming pool electrical system including but not limited to:
 - 1. A complete and operable system of service equipment, switchboards, panelboards, conduits, switches, time clocks and wiring for power and lighting, motor control centers.
 - 2. Junction and/or pull boxes, conduits, disconnects, starters, contactors, wiring and connection of all motors and mechanical equipment, including connection and wiring of line voltage controls associated with the mechanical systems.
 - 3. Swimming pool underwater lighting systems.
 - 4. Swimming pool timing system outlets and scoreboard.
 - 5. Complete grounding system as required and shown on the Drawings.
 - 6. Complete equipotential bonding system as required and shown on the Drawings.
 - 7. Adjusting and preliminary operation of the completed electrical system as described in Article 3.06, A of this Section.
 - 8. Cleaning of all completed Work and installation adjustment of all trim and decorative items.

1.3 QUALITY ASSURANCE

- A. Qualifications of Workers:
 - 1. The entity performing the work of this Section shall have been successfully engaged in the respective trade for at least five (5) years immediately prior to commencement of the Work.
 - 2. For actual construction operations, use only trained and experienced workers with a minimum of three (3) years experience with the materials and methods specified.
 - 3. Provide at least one person who shall be present at all times during execution of the work of this Section, with a minimum of five (5) years experience with the type of materials being installed, the referenced standards, and who shall direct all Work performed under this Section.

- B. Ordinances and Codes: Materials and construction shall conform with all applicable code requirements, including:
 - 1. National Electrical Code, latest edition; Electrical Safety Orders of the State of California; Department of Industrial Relations; regulations of the State Fire Marshal; rules and regulations of the Board of Underwriters of the Pacific, UL 50, 50E and NEMA 250 rating.
 - 2. Chapter 31 of California Building Code, 2022 edition.
- C. Verification of Conditions:
 - 1. The locations shown on the Drawings are diagrammatic only and the exact finish location of equipment and materials cannot be indicated. Therefore, locations of all Work and equipment shall be verified to avoid interferences, preserve head room and keep openings and passageways clear. Changes shall be made in locations of equipment and materials which may be necessary to accomplish these purposes.
- D. Preliminary Operations and Testing:
 - 1. Motor driven equipment shall be tested for correct rotation and completion of all connections.

1.4 SUBMITTALS AND SUBSTITUTIONS

- A. Provide submittals in conformance with the requirements of Section 013300. Requests for substitutions shall conform with requirements of Article 1.10.A of Section 131100.
- B. Required submittals include:
 - 1. Conduit and Fittings as specified in Article 2.2 of this Section.
 - 2. Panelboards as specified in Article 2.8 of this Section.
 - 3. Circuit Breakers as specified in Article 2.9 of this Section.
 - 4. Motor Starters as specified in Article 2.12 and 2.13 of this Section.
 - 5. Fuses as specified in Article 2.15 of this Section.
 - 6. Time Clocks as specified in Article 2.16 of this Section.
 - 7. Ground Fault Circuit Interrupters as specified in Article 2.17 of this Section.
 - 8. NEMA Type 4x corrosion resistant UL 50, 50E & NEMA 250 rating for enclosures, cabinets and boxes as specified in Article 2.11 & 2.18 of this Section.
- C. Submit proof of qualifications as specified in Article 1.2.A of this Section.

1.5 PRODUCT HANDLING

- A. Delivery: Deliver all materials to the Project Site in the manufacturer's original unopened containers with all labels intact and legible.
- B. Storage: Store all materials under cover in a manner to prevent damage and contamination, and store only the specified materials at the Project site.

- C. Protection: Use all means necessary to protect swimming pool electrical materials before, during, and after installation and to protect the installed Work specified in other Sections.

PART 2 - PRODUCTS

2.1 MATERIALS, GENERAL

- A. Materials shall be new, in unbroken packages and bear the U.L. label of approval.
- B. Equipment of one type shall be by same manufacturer. One type of equipment for classifications such as:
 - 1. Switchboards, panels, buss duct, disconnect switches and allied items.
 - 2. Conduit.
 - 3. Wire.
 - 4. Conduit fittings.
 - 5. Fixtures of the same general type.
 - 6. Wiring devices.

2.2 CONDUIT AND FITTINGS

- A. Conduit within or under buildings or where exposed outdoors shall be rigid metal threaded, hot dipped galvanized, or U.L. approved plastic except where noted otherwise on the Drawings. Metallic conduit shall be of the same metal between outlets or terminals.
- B. Use flexible metallic conduit only for short connections of motors and where specifically called for on Drawings. Maximum length shall be 40". Use only liquid tight flexible metal conduit. Install an unbroken #12 AWG insulated copper grounding conductor in each liquid tight flexible conduit with permanent connection at motor junction box and service panel ground.
- C. Protect, before installation, metallic conduit runs in all slabs laid on grade or in contact with the earth or exposed in damp locations, with two (2) heavy coats of asphaltum rust-resisting compound.
- D. Encase conduits 2-1/2" or larger run underground, outside, or under buildings, in concrete envelopes a minimum of 3" thick, except as indicated otherwise on Drawings or stubouts. Conduits 2 and smaller laid 18" below finish surface in soil.
- E. Low voltage runs underground outside buildings, 1-1/4" or smaller, may be G.I. or sherardized steel conduit, with machine applied wrapping equal to double wrap or Scotch-Wrap #50 tape, half lapped and quadrupled at joints in lieu of concrete encasement.

- F. Service conduits through foundations or concrete members shall run through metal sleeves with adequate clearances for full movement of the conduit. Do not run conduits through footings.
- G. Secure conduits run exposed on surfaces with one hole heavy-duty straps or fasten with matching fittings to inserts or trapezes, parallel to building walls and ceilings.
- H. Cap all conduit or duct stub-outs with standard factory caps; except cap threaded steel conduit with B.I. water pipe caps in outdoor locations.
- I. Use conduit fittings as manufactured by Crouse-Hinds Company, Appleton Electric Co., or approved equal.
- J. Employ U.L. liquid tight fittings for use with liquid tight flexible metal conduit.
- K. Use unions as manufactured by Appleton, O-Z/Gedney, or approved equal. The use of running threads will not be permitted.
- L. Exposed conduit and fittings in chemical rooms shall be nonmetallic rigid polyvinyl chloride, corrosion resistant rated suitable for installation in corrosive environments and in accordance with the latest NEC requirements.

2.3 EQUIPOTENTIAL BONDING/GROUNDING

- A. Bond together and ground to a common ground at a single point all metallic conduit, piping systems, pool reinforcing steel, metal parts of ladders, lifeguard stands, handrails and their supports and the like. The solid copper bonding conductor shall not be smaller than #8 copper.

2.4 WIRING CONNECTIONS

- A. Make connections without strain on conductors, allowing the conductors to take a natural position after connections or taps are made. Include all strand of wire in making the connection.
- B. Make connections for wiring by one of the following means:
 1. Make all taps or connections to conductors with compression type connectors except those smaller than #8 B&S gauge may have soldered connections. Solderless connections for #10 AWG or smaller may be used and shall be "Scotchlok", Buchanan, or approved equal. For #8 AWG or larger, they shall be T&B "LockTite", Burndy "Versitaps", or approved equal.
 2. All cable or conductor terminal lugs shall be Burndy "Quicklug", IlSCO, or approved equal. Two piece stamped lugs and solder lugs will not be approved.
 3. Paint taped splices in damp or outdoor locations with two (2) coats of insulating paint.
 4. Tag all branch circuit wires with circuit number at the panelboard and at each point of use with linen or plastic tags.

2.5 CONDUCTORS

- A. Copper RHW or THW. Do not make splices between boxes.

2.6 COLOR CODING

- A. Neutrals (identified conductors shall be white).
- B. Phase conductors shall be red for phase B; blue for phase C.
- C. Green shall be used for mechanical equipment and receptacle grounds only.

2.7 MOTOR WIRING

- A. Make final connections to motors with the required AWG (Minimum #12), Flamenol machine tool wire, 19 strand. Control wiring for equipment shall be Flamenol machine tool wire, 19 strand of required AWG. Provide corrosion resistant junction boxes at each item of equipment to change from standard building wiring to machine tool wire.
- B. Phase motors as proper in direction of rotation.

2.8 PANELBOARDS

- A. Panelboards shall be flush or surface mounting as indicated with circuit breakers as shown on panel schedule, hinged lockable doors, index card holders and proper bussing.
- B. Where indicated on the drawings, panelboards shall be furnished with subfeed breakers and/or lugs, split bussing, contractors, time switches, relays, etc., as required.
- C. All panelboards shall be keyed alike.
- D. All panelboard enclosures shall be corrosion resistant rated in accordance with the latest NEC requirements.
- E. Furnish corrosion resistant panelboard enclosures and terminal cabinets with Yale 46515 flush locks and LL806 keys except where indicated otherwise herein. Fasten the trim to panel boards and terminal cabinet by means of concealed, bolted or screwed fasteners accessible only when the door is open.
- F. Panelboards 208/120 volt, three phase, 4 wire, S/N or 120/240 volt, single phase, 3 wire, S/N.

Panelboard types as manufactured by:

Westinghouse
General Electric
Square D

Type B10B
Type NLAB
Type NQOB

- G. Panelboards for 480/277 volt, three panes, 4 wire, S/N.

Panelboard types as manufactured by:

Westinghouse
General Electric
Square D
Sylvania
I.T.E.

Type Pow-R-Line 2
Type AE
Type NEHB
Type NH1B
Type Approved Equal

- H. Panelboard for bussing sizes thru 400 amp shall be 20" wide surface mounted type. Recess mounted type shall have a 20" wide (maximum) recess metal enclosure with trim plate cover extending 1" on all sides of enclosure. Depth shall be 5-3/4" nominal. Height of panel as required for devices.
- I. Provide 6" additional gutter space in all panels where double lugs are required, or where cable size exceeds bus size. Minimum bottom gutter space shall be 6" high. 12" additional gutter space may be required for aluminum feeders where used.
- J. Panelboards shown on the drawings with relays, time clocks or other control devices shall have a separate metal barriered compartment mounted above panel with separate hinged locking door to match panelboard. Provide mounting sub-base in cabinet for control devices and wiring terminal strips.
- K. Panelboard shall have a circuit index card holder removable type, with clear plastic cover. Index card shall have numbers imprinted to match circuit breaker numbers.

2.9 CIRCUIT BREAKERS

- A. Breakers shall have a minimum short circuit interrupting rating of 10,000A symmetrical for panelboard voltage thru 240 volt and 14000A for panelboards thru 600 volts or as specified on the drawings. In no case shall the interrupting rating be less than the bus withstand rating unless noted otherwise on the drawings.
- B. Circuit breakers as manufactured by the following companies only are acceptable:
1. General Electric Company
 2. Square D Company
 3. Westinghouse Company
 4. I.T.E. Company
- C. Circuit breakers shall be arranged in the panels so that the breakers of the proper trip settings and numbers correspond to the numbering in the panel schedules on the drawings. Circuit numbers of breakers shall be black-on-white micarta tabs or other previously approved method. Circuit number tabs which can readily be changed from front of panel will not be accepted. Circuit number tabs shall not be attached to or be a part of the breaker.
- D. Where two or three pole breakers occur in the panels, they shall be common trip units. Single pole breakers with tie-bar between handles will not be accepted.

- E. All circuit breakers shall be padlockable in the "off" position. Locking facilities shall be riveted or mechanically attached to the circuit breaker (submit sample for approval). Other means of attachment shall not be accepted without prior written approval of Architect.
- F. Where branch circuit breakers supply the power to motors and signal systems, the breakers shall be furnished with lockout clips, mounted in the "on" position. The breakers shall be able to trip automatically with lockout clips in place.
- G. Panelboard circuit breakers shall be bolt-on type.

2.10 BUSSING

- A. Bussing shall be rectangular cross section copper, or full length silver or tin-plated aluminum.
- B. Bussing shall be braced to withstand symmetrical short circuit ratings as follows or as noted on drawings. In no case shall bus short circuit bracing be less than specified circuit breakers.
- C. Each panelboard shall be equipped with a ground bus secured to the interior of the enclosure. The bus shall have a separate lug for each ground conductor. No more than one conductor shall be installed per lug.

2.11 POOL MECHANICAL EQUIPMENT ENCLOSURES, TERMINAL CABINETS & MISC CABINETS

- A. All pool mechanical equipment enclosures, terminal cabinets and miscellaneous cabinets in the pool mechanical room or chemical storage rooms shall be corrosion resistant rated in accordance with the latest NEC requirements. Enclosures and all cabinets shall be flush mounted (except where noted a surface) of the size indicated on the drawings, and complete with hinged lockable doors and the number of 2-way screw terminals required for termination of all conductors. Terminal cabinet locks to operate from same key used for panelboards. The trim to terminal cabinets shall be fastened by means of concealed bolted or screwed fasteners accessible behind door to terminal cabinets. Terminal cabinets shall have 5/8" plywood backing.
- B. Provide engraved nameplate on each enclosure and cabinet indicating its designation and system (i.e., Swimming Pool - Panel 'SP').

2.12 MOTOR CONTROL INDIVIDUAL STARTERS

- A. Manual Motor Starters:
 - 1. Provide flush or surface mounting manual motor starters with number of poles and size of thermal overload heaters as required for the motor being controlled (equipped with overload heaters, one for each motor lead). Back boxes shall be supplied with all flush mounting starters whether they are toggle type requiring

only a 4" square outlet box or the larger type requiring a special box and cover designed to accept the particular unit. All box types shall be corrosion resistant rated in accordance with the latest NEC requirements.

2. Unless otherwise noted on the drawings, all manual starters for single phase motors, smaller than 1 h.p., shall be the compact toggle type. Manual starters for all single phase motors, 1 to 5 h.p., and all three phase motors up to 5 h.p. shall be the heavy duty type.
3. Where manual motor starter is shown with pilot light, the pilot light shall be installed in a separate outlet box adjacent to the starter outlet, and engraved nameplate in indicate function of pilot light.
4. The following motor starters as manufactured by:

Manufacturer	Single Phase 1HP and Below	Others
Arrow Hart	Type RL	Type LL
General Electric	CR 101	Class CR 1062
I.T.E.	Class C10, C11 or C12	Class C20
Square D Company	Class 2510, Type A	Class 2510, Type B & C
Westinghouse	Type MS	Type A100
Allen Bradley	Approved Equal	Approved Equal.

B. Individual Magnetic Motor Starters:

1. Magnetic motor starters shall be A.C. line voltage, across-the-line units in a corrosion resistant rated enclosure in accordance with the latest NEC requirements.
2. All starters located outside of a building whether or not indicated shall be W.P. (weatherproof), and all starters noted W.P. shall be furnished in a corrosion resistant rated stainless steel enclosure in accordance with the latest NEC requirements.
3. Starter shall be horsepower rated for the motor controlled, and shall be equipped with properly sized overload elements. Every pole shall be with overload element.
4. Verify the exact motor current and voltage characteristics with the Contractor supplying the motor before installation of a starter.
5. Each starter shall be equipped with "Hand-Off-Auto" switch or stop-start pushbutton as required.
6. Coils shall be designed to operate on voltage indicated on control diagrams and have built-in-under the voltage release for coil circuit to drop motor starter off the line when the line voltage drops below normal operating voltage.
7. The coil control circuit shall be independently fused, sized to protect coil.
8. Starters to be equipped with running pilot light indication with a "Push-to-Test" feature.
9. Magnetic starters shall have a minimum of two auxiliary contacts. Additional auxiliary contacts shall be provided as required to comply with the requirements of the wiring diagrams on the electrical and mechanical drawings and the description of the function in the Mechanical Section of the Specifications.
10. Starters shall comply with NEMA standards, size and horsepower ratings as indicated on drawings.
11. The following types of magnetic motor starters as manufactured by:

Manufacture	Type
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General Electric	Class CR 106
I.T.E.	Class A20
Square D Company	Class 8536
Westinghouse	Type A200 (Size 4 Max.) or Class II-200 (Sizes 5-8)

2.13 INDIVIDUAL COMBINATION MOTOR STARTERS

- A. Combination starter shall incorporate fused disconnect switch and individual magnetic motor starter. Combination starters shall be mounted in a corrosion resistant rated enclosure in accordance with the latest NEC requirements.
- B. Starters shall comply with NEMA standards, size and horsepower ratings as indicated on drawings General Electric, Square D, Westinghouse or I.T.E.
- C. The disconnect handle used on combination starters shall control the disconnect device with the door opened or closed. The disconnect handle shall be clearly marked as to whether the disconnect device is "ON" or "OFF", and shall include a two-color handle grip, the black side visible in the "OFF" position indicating a safe condition, and the red side visible in the "ON" position indicating an unsafe or danger condition.
- D. All starters used in combination starters shall be manufactured in accordance with the latest published NEMA standards, sizes, and horsepower ratings. These starters shall be furnished with three melting alloy type thermal overload relays.
- E. Thermal units shall be of one-piece construction and interchangeable. The starter shall be inoperative if a thermal unit is removed.

2.14 MOTOR CONTROL CENTER, INTERLOCKS AND CONTROL DEVICES

- A. Refer to mechanical and plumbing drawings and specifications and provide all control devices including timeswitches, relays and interconnection of starters as required.
- B. Mount all relays and timeswitches in a separate compartment in motor control center unless otherwise indicated.
- C. Whether shown on mechanical and plumbing drawings or control center schedules or not, where motors are controlled by external devices (i.e., thermostats, relays, float or pressure switches, etc.) or interlocked with other motors, each motor starter to be equipped with a "Hand-Off-Auto" selector switch in starter cover. Other starters equipped with a "Start Stop" pushbutton station in starter cover. The Contractor shall be responsible to submit a complete and detailed set of shop drawings, electrical schematic design along with electrical component cut sheets from the MCC panel or the interlock control device manufacturer. RSD Total Control: Allan Pearson 949-380-7878, South Coast Controls: Anthony Ellis 714-998-5656, H2O Integration Controls, Mike Macri, 253-244-1576 or approved equal.

2.15 FUSES

- A. Fuses shall be dual element, current limiting type, U.L. Class RK5 unless otherwise indicated on the drawings. Provide one spare set of fuses of each size and type in each motor control center.

2.16 TIME CLOCKS

- A. Time clocks shall be provided for all underwater lighting systems and swimming pool circulation pumps not controlled by filter microprocessors.
- B. Contacts shall have a minimum rating of 40 amperes at 277V.
- C. Timing motor shall be heavy duty synchronous, self-starting, high torque type, and shall be rated at 120, 208, 240, 277 volt 60 Hz.
- D. Motor shall operate normally at temperature range of -60 degrees Fahrenheit to +120 degrees Fahrenheit.
- E. Dial shall be 3" diameter, clearly calibrated with day/night zones and 24-hour rotation, with gear to provide one revolution yearly which automatically varies the on/off settings each day according to seasonal changes. Day and month of the year shall show clearly through calendar window on the dial.
- F. Time clocks shall be equipped with 7-spoke omitting wheel marked with days of the week.
- G. Time clocks shall be housed in a corrosion resistant rated enclosure in accordance with the latest NEC requirements.
- H. Acceptable manufacturers are Intermatic, Tork, Paragon, or approved equal.

2.17 GROUND FAULT CIRCUIT INTERRUPTERS

- A. Minimum rating shall be 20 amperes, 125V, 5 milliampere trip setting, Class A per UL943.
- B. Manufacturer to be Crouse-Hinds, Leviton, or approved equal.

2.18 BOXES

- A. Boxes shall be of the size required by ordinances or larger, must be corrosion resistant in accordance with the latest NEC requirements where concealed or exposed on ceilings or walls.
- B. Outlets to be surface where wiring is exposed and flush in areas where conduit is concealed.

- C. Provide surface outlets with proper corrosion resistant surface covers. Box and cover shall be deep enough to provide at least 1/4" clearance between back of device and back of box. Where box contains more than one device, use a corrosion resistant rated gang box with proper cover in accordance with the latest NEC requirements. Surface outlet boxes shall be of the threaded hub type wherever below 8'0".
- D. If necessary for cable installation, additional pull boxes or junction boxes may be installed in accessible locations. Exposed pull boxes and junction boxes shall be corrosion resistant rated in accordance with the latest NEC requirements.
- E. Where exposed to weather pull boxes larger than outlet boxes are required, galvanized code gauge sheet steel boxes may be used with covers attached by brass machine screws may be used. Boxes exposed to the weather shall be approved for the purpose, and conduit entrances shall be on the bottom made by means of an interchangeable hub with gasket and adapter nut. Pull boxes not shown on Drawings may be added only after approval of size and location is obtained.
- F. For outlets exposed to weather or where noted, cast outlet boxes shall be Crouse-Hinds, Appleton, or approved equal. Boxes shall have proper number and size hubs. Device plates, covers, adapters and boxes shall be as manufactured by Crouse-Hinds, Appleton, or approved equal.
- G. Exposed junction boxes, outlet boxes and pull boxes for pool chemical rooms shall be non-metallic suitable for a corrosive environment and in accordance with the latest NEC requirements.

2.19 IDENTIFICATION MARKINGS

- A. Plainly mark all motor and electrical appliance control equipment indicating the equipment controlled with engraved metal tags.
- B. Provide laminated plastic nameplates on panelboards on the outside of the door at the top indicating panel designation and feeder source.
- C. Provide laminated plastic nameplates on distribution switchboards and motor control centers at the top center indicating panel designation and feeder source.
- D. Identify each distribution switchboard and motor control center circuit breaker with a laminated plastic nameplate indicating its' use.
- E. Type panelboard directories on the forms provided with the equipment, indicating the use of each branch circuit breaker.
- F. Fasten all laminated plastic nameplates to surfaces with two (2) or more screws.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Verify conditions at the Project site before submitting bid. Be responsible for providing all necessary wiring for the new electrical systems. Wherever wiring is being disrupted due to remodeling or changes, reconnect existing and provide new wiring circuits to accomplish a fully operable system at no additional cost to the Owner.

3.2 COORDINATION

- A. The Drawings are essentially diagrammatic and indicate the desired location, size, routes, connection points, etc., and are to be followed as closely as possible. Proper judgment must be exercised in executing the Work so as to provide the best possible installation in the available space and to overcome difficulties, limitations or interference wherever encountered. Be responsible for the correct placement of this Work, the proper location and connection in relation to Work of other trades, for determining the exact location of all conduits, outlets and equipment, and for installing the conduits in such a manner as to conform to the structure, avoid obstruction, preserve headroom and keep openings and passageways clear. Particular attention is directed to the close coordination required on exposed Work. Locations shown on Architectural or Mechanical Drawings if different than those shown on Electrical Drawings should be communicated to the Owner's Representative in writing for clarification.

3.3 INSTALLATION

- A. Trenching and Backfill: Conform with requirements of Section 131101. Provide minimum cover as required by Code.
- B. Conduit Installation:
 - 1. Conduit and metallic raceway systems shall be mechanically and electrically continuous from sources of current to all outlets in a manner to provide a continuous grounding path. Close ends of conduit during construction to prevent entrance of dirt or moisture.
 - 2. Securely fasten conduit to the building construction within three feet of each outlet and within every ten feet thereafter. Secure it to boxes, cabinets, pull boxes, terminals with two locknuts and ends equipped with bushings or a terminal fitting. Cut square with ends carefully reamed.
 - 3. Make bends or elbows so that the conduit will not be injured or flattened.
 - 4. Use insulated metallic bushings in all places where bushings are required.
 - 5. Run exposed conduits level or plumb and parallel to the construction members of the building. No cutting across or diagonal runs will be permitted. Neatly surmount structural obstructions encountered on conduit runs by the use of fittings or pull boxes.
 - 6. Identify feeder conduits by stamped metal tags secured to exposed section of conduit in main or sub-panels.

7. Make up all threaded conduit joints gas and watertight with conductive sealer except conduit above ground in dry indoor locations.
8. Rigidly support all boxes independently of the conduit system.

C. Connections to Equipment:

1. Fully connect, in an approved manner, all electrical outlets, apparatus, motors, equipment, fixtures, wiring devices and appliances whether they are installed under the Electrical Contract or not, which require electrical connections, to the corresponding electrical system outlet.
2. Where the Work of this Section requires connections to be made to equipment that is furnished and set-in-place under other Sections, obtain such roughing-in dimensions from the manufacturer or supplier of each item as required and assume full responsibility for the installation of the connections thereto.

3.4 ADJUSTMENT AND CLEAN-UP

- A. Preliminary Operation: Should the Owner's Representative deem it necessary to operate the electrical installation or any part thereof prior to Substantial Completion of the Work, consent to such preliminary operation and supervise conduction of same. Subcontractor shall pay all costs occasioned by such operation. Preliminary operation shall not be construed as an acceptance of any Work installed under this Contract.
- B. Clean-up: Upon completion of the Work of this Section, immediately remove all swimming pool electrical materials, debris and rubbish occasioned by this Work to the approval of the Owner's Representative.

END OF SECTION

SECTION 220000

GENERAL PLUMBING PROVISIONS

PART 1 - GENERAL

1.1 GENERAL CONDITIONS

- A. The preceding General Conditions shall form a part of this Section with the same force and effect as though repeated here. The provisions of this Section shall also apply to Division 22 of these Specifications and shall be considered a part of that Divisions.

1.2 CODES AND REGULATIONS

- A. All work and materials shall be in accordance with current rules and regulations of applicable codes. Nothing in these Drawings or Specifications is to be construed to permit work not conforming to these codes. Should the Drawings or Specifications call for material or methods of construction of a higher quality or standard than required by these codes, the Drawings and Specifications shall govern. Applicable codes and regulations include, but are not necessarily limited to, the following:

California Building Code	CCR Title 24, Part 2
California Electrical Code	CCR Title 24, Part 3
California Mechanical Code	CCR Title 24, Part 4
California Plumbing Code	CCR Title 24, Part 5
California Energy Code	CCR Title 24, Part 6
California Fire Code	CCR Title 24, Part 9
Local Codes	

1.3 DEFINITIONS

- A. Provide: The term "provide" as used in these specifications or on the drawings shall mean furnish and install.
- B. Piping: The term "piping" as used in these specifications or on the drawings shall mean all pipe, fittings, valves, hangers, insulation, etc. as may be required for a complete and functional system.
- C. Ductwork: The terms "duct" or "ductwork" as used in these specifications or on the drawings shall mean all ducts, fittings, joints, dampers, hangers, insulation, etc. as may be required for a complete and functional system.
- D. Wiring: The term "wiring" as used in these specifications or on the drawings shall mean all wiring, conduit, boxes, connections, transformers, relays, switches etc. as may be required for a complete and functional system.

1.4 PERMITS AND FEES

- A. The Contractor shall take out all permits and arrange for all tests in connection with his work as required. All charges are to be included in the work.

1.5 COORDINATION OF WORK

- A. Examination: Before starting work, thoroughly examine existing and newly completed underlying and adjoining work and conditions on which the installation of this work depends. Report to the Engineer in writing all conditions which might adversely affect this work.
- B. Layout: Layout of materials, equipment and systems is generally diagrammatic unless specifically dimensioned. Some work may be shown offset for clarity. The actual locations of all materials, piping, ductwork, fixtures, equipment, supports, etc. shall be carefully planned prior to installation of any work in order to avoid all interference with each other, or with structural, electrical, architectural or other elements.
- C. Verification: If discrepancies are discovered between drawing and specification requirements, the more stringent requirement shall apply. All conflicts shall be called to the attention of the Engineer prior to the installation of any work or the ordering of any equipment. No work shall be prefabricated or installed prior to this coordination. No costs will be allowed to the Contractor for any prefabrication or installation performed prior to this coordination. Verify the proper voltage and phase of all equipment with the electrical plans.
- D. Location of Utilities Prior to Trenching or Earthwork: The Contractor shall notify the Owner a minimum of two business days prior to beginning trenching or earthwork. Prior to this notification, the Contractor shall have marked all proposed trenches with paint and shall have contacted a utility locating company and have had this company mark all found underground utilities with paint. The Contractor shall then coordinate and arrange for a site visit with the Owner to review the proposed trenching and/or earthwork areas. Trenching and/or earthwork shall not begin until the Owner agrees. Repair and/or compensation for repair of marked utilities is the responsibility of the Contractor. The Owner retains the right to either self-perform the repair or require the Contractor to complete the repair, as directed by the Owner. If while performing the work, the Contractor discovers utilities that have not been marked, the Contractor shall immediately notify the Owner verbally and in writing.

1.6 GUARANTEE

- A. Guarantee shall be in accordance with the General Conditions. The Contractor shall repair any defects due to faulty materials or workmanship and pay for any resulting damage to other work which appears within the guarantee period. These Specifications may extend the period of the guarantee for certain items. Where such extensions are called for, or where items are normally provided with

guarantee periods in excess of that called for in the General Conditions, the certificate of guarantee shall be furnished to the Owner through the Engineer.

1.7 QUIETNESS

- A. Piping, ductwork and equipment shall be arranged and supported so that vibration is a minimum and is not transmitted to the structure.

1.8 DAMAGES BY LEAKS

- A. The Contractor shall be responsible for damages caused by leaks in the temporary or permanent piping systems prior to completion of work and during the period of the guarantee, and for damages caused by disconnected pipes or fittings, and the overflow of equipment prior to completion of the work.

1.9 EXAMINATION OF SITE

- A. The Contractor shall examine the site, compare it with Plans and Specifications, and shall have satisfied himself as to the conditions under which the work is to be performed. No allowance shall subsequently be made in his behalf for any extra expense to which he may be put due to failure or neglect on his part to make such an examination.

1.10 COMPATIBILITY WITH EXISTING SYSTEMS

- A. Any work which is done as an addition, expansion or remodel of an existing system shall be compatible with that system.

1.11 MATERIALS AND EQUIPMENT

- A. Materials and equipment shall be new unless otherwise noted. Materials and equipment of a given type shall be by the same manufacturer. Materials and equipment shall be free of dents, scratches, marks, shipping tags and all defacing features at time of project acceptance. Materials and equipment shall be covered or otherwise protected during construction as required to maintain the material and equipment in new factory condition until project acceptance.

1.12 SUBMITTALS

- A. Shop Drawings: Within 30 days of contract award, the Contractor shall submit six copies of shop drawings for all materials, equipment, etc. proposed for use on this project. Material or equipment shall not be ordered or installed until written review is processed by the Engineer.

All shop drawings must comply with the following:

1. Shop drawings are required for all material and equipment items and shall include manufacturer's name and catalog numbers, dimensions, capacities, performance curves, and all other characteristics and accessories as listed in the specifications or on the drawings. Descriptive literature shall be current factory brochures and submittal sheets. Capacities shall be certified by the factory. FAX submittals are not acceptable.
 2. All shop drawings shall be submitted at one time in a neat and orderly fashion in a suitable binder with title sheet including Project, Engineer and Contractor, table of contents, and indexed tabs dividing each group of materials or item of equipment. All items shall be identified by the specification paragraph number for which they are proposed. All equipment shall also be identified by the mark number as indicated on drawings.
 3. All capacities, characteristics, and accessories called for in the specifications or on the drawings shall be high-lighted, circled or underlined on the shop drawings. Calculations and other detailed data indicating how the item was selected shall be included for items that are not scheduled. Data must be complete enough to permit detailed comparison of every significant characteristic which is specified, scheduled or detailed.
- B. Substitutions: Manufacturers and model numbers listed in the specifications or on the drawings represent the standard of quality and features desired. Proposed substitutions shall comply with the Owner's General Requirements. Calculations and other detailed data indicating how the item was selected shall be included. The Contractor shall assume full responsibility that substituted items or procedures will meet the specifications and job requirements and shall be responsible for the cost of redesign and modifications to the work caused by these items. At the Engineer's request, furnish locations where equipment similar to the substituted equipment is installed and operating along with the user's phone numbers and contact person. Satisfactory operation and service history will be considered in the acceptance or rejection of the proposed substitution.
- C. Review: Submittals will be reviewed for general conformance with the design concept, but this review does not guarantee quantity shown, nor does it supersede the responsibility of the Contractor to provide all materials, equipment and installation in accordance with the drawings and specifications. The Contractor shall agree that shop drawing submittals processed by the Engineer are not Change Orders; that the purpose of shop drawing submittals by the Contractor is to demonstrate to the Engineer that the Contractor understands the design concept, that he demonstrates his understanding by indicating which equipment and material he intends to furnish and install and by detailing the fabrication and installation methods he intends to use. The Contractor shall agree that if deviations, discrepancies or conflicts between shop drawings and design drawings and specifications are discovered either prior to or after shop drawing submittals are processed by the Engineer, the design drawings and specifications shall control and shall be followed. If a resubmittal is required, submit a complete copy of the Engineer's review letter requiring such with the resubmittal.

1.13 MANUFACTURER'S RECOMMENDATIONS

- A. All material, equipment, devices, etc., shall be installed in accordance with the recommendations of the manufacturer of the particular item. The Contractor shall be responsible for all installations contrary to the manufacturer's recommendations. The Contractor shall make all necessary changes and revisions to achieve such compliance. Manufacturer's installation instructions shall be delivered to and maintained at the job site through the construction of the project.

1.14 SCHEDULING OF WORK

- A. All work shall be scheduled subject to the review of the Engineer and the Owner. No work shall interfere with the operation of the existing facilities on or adjacent to the site. The Contractor shall have at all times, as conditions permit, a sufficient force of workmen and quantity of materials to install the work contracted for as rapidly as possible consistent with good work, and shall cause no delay to other Contractors engaged upon this project or to the Owner. HVAC equipment and functions, whether existing or new, shall be maintained in operating condition whenever the facility is occupied, unless otherwise approved by the Owner.

1.15 DEMOLITION

- A. Existing equipment, ducts, piping, etc. noted for removal shall be removed and delivered to the Owner at a location to be determined by the Owner. Those items determined by the Owner to be of no value shall become the property of the Contractor and shall be removed from the job site by the Contractor at the Contractor's expense. Existing piping, ducts, services, etc. requiring capping shall be capped below floors, behind walls, above ceilings or above roof unless otherwise noted. Where items are removed, patch the surfaces to match the existing surfaces.

1.16 HAZARDOUS MATERIAL REMOVAL

- A. All hazardous material removal will be by the Owner. Hazardous material is to be removed before the work is started. If the Contractor discovers hazardous material which has not been removed, the Contractor shall immediately cease work in that area and promptly notify the Owner.

1.17 OPENINGS, CUTTING AND PATCHING

- A. The locations and dimensions for openings through walls, floors, ceilings, foundations, footings, etc. required to accomplish the work under this Specification Division shall be provided under this Division. Except as noted below, the actual openings and the required cutting and patching shall be provided by other Divisions. Coring through existing concrete or masonry walls, floors, ceilings, foundations, footings, etc., and saw cutting of concrete floors or asphaltic concrete required to accomplish the work under this Specification Division shall be provided

under this Division. Patching of these surfaces shall be provided by other Divisions. Cutting or coring shall not impair the strength of the structure. Any damage resulting from this work shall be repaired at the Contractor's expense to the satisfaction of the Engineer.

1.18 EXCAVATION AND BACKFILL

- A. General: Barrel of pipe shall have uniform support on sand bed. Sand shall be free from clay or organic material, suitable for the purpose intended and shall be of such size that 90 percent to 100 percent will pass a No. 4 sieve and not more than 5 percent will pass a No. 200 sieve. Unless otherwise noted, minimum earth cover above top of pipe or tubing outside building walls shall be 24", not including base and paving in paved areas.
- B. Excavation: Width of trench at top of pipe shall be minimum of 16", plus the outside diameter of the pipe. Provide all shoring required by site conditions. Where over excavation occurs, provide compacted sand backfill to pipe bottom. Where groundwater is encountered, remove to keep excavation dry, using well points and pumps as required.
- C. Backfill:
 - 1. 6" Below, Around, and to 12" Above Pipe: Material shall be sand. Place carefully around and on top of pipe, taking care not to disturb piping, consolidate with vibrator.
 - 2. One Foot Above Pipe to Grade: Material shall be sandy or silty loam, free of lumps, laid in 6" layers, uniformly mixed to proper moisture and compacted to required density. If backfill is determined to be suitable and required compaction is demonstrated by laboratory test, water compaction in 6" layers may be used, subject to review by Engineer.
- D. Compaction: Compact to density of 95% within building and under walkways, driveways, traffic areas, paved areas, etc. and to 90% elsewhere. Demonstrate proper compaction by testing at top, bottom and one-half of the trench depth. Perform these tests at three locations per 100' of trench.

1.19 CONTINUITY OF SERVICES

- A. Existing services and systems shall be maintained except for short intervals when connections are made. The Contractor shall be responsible for interruptions of services and shall repair damage done to any existing service caused by the work. If utilities not indicated on the drawings are uncovered during excavation, the Contractor shall notify the Engineer immediately.

1.20 PROTECTIVE COATING FOR UNDERGROUND PIPING

- A. All ferrous pipe below grade (except cast iron) shall have a factory applied protective coating of extruded high density polyethylene, 35 to 70 mils total

thickness, X-Tru-Coat, Scotchkote. All fittings and areas of damaged coating shall be covered with two layer double wrap of 10 mil polyvinyl tape to total thickness of 40 mils. John-Mansville. Protective coating shall be extended 6" above surrounding grade.

1.21 ACCESS DOORS

- A. Provide access doors as required where equipment, piping, valves, ductwork, etc. are not otherwise accessible. Access doors shall match the wall or ceiling finish and fire rating as indicated on the Architectural drawings. 16-gage steel frame and 14-gage steel door with paintable finish, except in ceramic tile, where door shall be 16-gage stainless steel with satin finish. Continuous hinge. Deliver doors to the General Contractor for installation. Milcor. Unless otherwise noted, the minimum sizes shall be as follows:

1 valve up to 1-1/2"	12" x 12"
1 valve up to 3"	16" x 16"

1.22 CONCRETE ANCHORS

- A. Steel stud with expansion wedge requiring a drilled hole – powder driven anchors are not acceptable. Minimum spacing shall be 12 diameters center to center and 10 diameters center to edge of concrete. Maximum allowable stresses for tension and shear shall be 80% of the ICC Evaluation Service Report (ESR) values. Minimum concrete embedment shall be the nominal embedment listed in the ESR table. Hilti Kwik Bolt TZ2.

1.23 EQUIPMENT ANCHORING AND OTHER SUPPORTS

- A. Mechanical systems (equipment, ductwork, piping, conduit, etc.) shall be anchored in accordance with the CBC. All systems mounted on concrete shall be secured with a concrete anchor at each mounting point. All air handlers shall be mounted on spring isolators. Secure base plate as indicated above. Attachment of equipment, ductwork, piping, conduit, etc. supported on curbs or platforms shall be made to the side of curbs and platforms, where possible. Where screws or lag bolts must be installed through the top of a sheet metal cap, the installation shall be as follows. Pre-drill pilot hole. Fill pilot hole with polyurethane sealant. Install screw or lag bolt with a flat washer and an EPDM washer adjacent to the sheet metal.

1.24 SUPPORTS AND SEISMIC RESTRAINTS

- A. Any structural element required to hang or support piping, ducts or equipment provided under this Division and not shown on other drawings shall be provided under this Division.

- B. Mechanical systems (equipment, ductwork, piping, etc.) shall be provided with supports and seismic restraints in accordance with the CBC. Submit anchorage calculations and details stamped and signed by a structural engineer registered in the State of California. Submit shop drawings showing location, type and detail of restraints. Submit manufacturer's data for restraints. Restraint system shall be Mason West, Inc. (OSHDPD OPM 0043-13).

1.25 PAINTING

- A. Paint all black iron supports, hangers, anchors, etc. with two coats of rust resisting primer. Also paint all uninsulated black iron piping exposed to weather with two coats of rust resisting primer.

1.26 ROOF PENETRATIONS AND PATCHING

- A. Whenever any part of the mechanical systems penetrates the roof or exterior wall, the openings shall be flashed and counter-flashed water tight with minimum 22 gauge galvanized sheet metal. Flashing shall extend not less than eight inches from the duct, pipe, or supporting member in all directions unless detailed otherwise. All roof penetrations and patching shall be in accordance with the recommendations of the National Roofing Contractor's Association and the Owner's roofing standards.

1.27 SYSTEM IDENTIFICATION

- A. Above Grade Piping: Provide markers on piping which is either exposed or concealed in accessible spaces. For piping systems, other than drain and vent lines, indicate the fluid conveyed or its abbreviation, either by pre-printed markers or stenciled marking, and include arrows to show direction of flow. Pre-printed markers shall be the type that wrap completely around the pipe, requiring no other means of fastening such as tape, adhesive, etc. Comply with ANSI A13.1 for colors. Locate markers at ends of lines, near major branches and other interruptions including equipment in the line, where lines pass through floors, walls or ceilings or otherwise pass into inaccessible spaces, and at 50' maximum intervals along exposed portions of lines. Marking of short branches and repetitive branches for equipment connections is not required.
- B. Below Grade Piping: Bury a continuous, pre-printed, bright-colored, metallic ribbon marker capable of being located with a metal detector with each underground pipe. Locate directly over buried pipe, 6" to 8" below finished grade.
- C. Equipment: All equipment shall be identified with a plastic laminated, engraved nameplate which bears the unit mark number as indicated on the drawings (e.g. AC-4). Provide 1/2" high lettering - white on black background. Nameplates shall be permanently secured to the exterior of the unit.

- D. Valves: Provide brass valve tags with brass hooks or chains on all valves of each piping system, excluding check valves, valves within equipment, faucets, stops and shut-off valves at fixtures and other repetitive terminal units. Prepare and submit a tagged-valve schedule, listing each valve by tag number, location and piping service. Deliver to Owner through the Engineer.

1.28 CLEANING

- A. Progressively and at completion of the job, the Contractor shall thoroughly clean all of his work, removing all debris, stain and marks resulting from his work. This includes but is not limited to building surfaces, piping, equipment and ductwork, inside and out. Surfaces shall be free of dirt, grease, labels, tags, tape, rust, and all foreign material.

1.29 OPERATION AND MAINTENANCE INSTRUCTIONS

- A. Printed: Three copies of Operation and Maintenance Instructions and Wiring Diagrams for all equipment and parts list for all faucets, trim, valves, etc. shall be submitted to the Engineer. All instructions shall be clearly identified by marking them with the same designation as the equipment item to which they apply (e.g. AC-3). All Wiring Diagrams shall agree with reviewed Shop Drawings and indicate the exact field installation. All instructions shall be submitted at the same time and shall be bound in a suitable binder with tabs dividing each type of equipment (e.g. Pumps, Fans, Motors, etc.). Each binder shall be labeled indicating "Operating and Maintenance Instructions, Project Title, Contractor, Date" and shall have a Table of Contents listing all items included.
- B. Verbal: The Contractor shall verbally instruct the Owner's maintenance staff in the operation and maintenance of all equipment and systems. The controls contractor shall present that portion of the instructions that apply to the control system. The Engineer's office shall be notified 48 hours prior to this meeting.
- C. Acknowledgment: The Contractor shall prepare a letter indicating that all operation and maintenance instructions (printed and verbal) have been given to the Owner, to the Owner's satisfaction. This letter shall be acknowledged (signed) by the Owner and submitted to the Engineer.

1.30 RECORD DRAWINGS

- A. The Contractor shall obtain one set of prints for the project, upon which a record of all construction changes shall be made. As the work progresses, the Contractor shall maintain a record of all deviations in the work from that indicated on the drawings. Final location of all underground work shall be recorded by depth from finished grade and by offset distance from permanent surface structures, i.e. building, curbs, walks. In addition, the water, gas, sewer, under floor duct, etc. within the building shall be recorded by offset distances from building walls. An electronic copy of the original drawings will be made available to the Contractor. The Contractor shall transfer the changes, notations, etc. from the marked-up prints to the electronic copy. The record drawings (marked-up prints, electronic drawings disc and a hard copy) shall be submitted to the Engineer for review.

1.31 ACCEPTANCE TESTING

- A. The Contractor shall perform, document and submit all acceptance testing as required by California Code of Regulations, Title 24, Part 6.

END OF SECTION

SECTION 220050
PLUMBING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Division.

1.2 GENERAL MECHANICAL PROVISIONS

- A. The preceding General Mechanical Provisions shall form a part of this Division with the same force and effect as though repeated here.

1.3 SCOPE

- A. Included: Provide all labor, materials and services necessary for complete, lawful and operating systems as shown or noted on the drawings or as specified here. The work includes, but is not necessarily limited to, the following:
 - 1. Sanitary sewer system.
 - 2. Domestic water system.
 - 3. Drain system (including condensate drain).
 - 4. All equipment as shown or noted on the drawings or as specified.

PART 2 - PRODUCTS

2.1 PIPING MATERIALS

- A. Sanitary Sewer:
 - a. Soil, Waste and Vent Piping: Inside Building and Within Five Feet of Building Walls: Standard weight coated cast iron pipe and fittings, CISPI 301, or hub end with rubber gaskets, ASTM A74, ASTM C564. All cast iron pipe and fittings shall be marked with the collective trademark of the Cast Iron Soil Pipe Institute as manufactured by Tyler, AB&I or Charlotte. Heavy-duty shielded couplings, Type 304 stainless steel, with neoprene gasket, ASTM C1540. Husky HD 2000, Clamp-All 80. Mission HeavyWeight MG Couplings are also acceptable. Size 2" and smaller above grade may be standard weight galvanized steel, ASTM A120/A53, with

coated cast iron recessed drainage fittings, ANSI B16.12. 2" and smaller exposed to view shall be galvanized steel, ASTM A120/A53, with coated cast iron recessed drainage fittings, ANSI B16.12.

1. Cleanouts: Comparable models of Josam, Wade or Zurn are acceptable. Floor Cleanouts: Smith 4028 with nickel bronze top in finished areas; Smith 4228 in utility areas. Wall Cleanouts: Smith 4532 with stainless steel cover and screw. Pipe Cleanouts: Iron body with threaded brass plug.
2. Cleanout Box: Precast reinforced concrete. Cast iron lid marked for service. Christy F22 in foot traffic areas; G5 in roadways.

B. Water:

1. Water Piping:
 - a. Inside Building, Within Five Feet of Building Walls, and All Above Grade:
 - 1) Schedule 40 stainless-steel pipe, 304L, NSF 61, welded fittings or screwed.
 - c. Miscellaneous Specialties:
 - 1) Dielectric Coupling: Insulating union or flange rated for 250 psig. EPCO.

C. Drain Piping (including Condensate): Copper Type L.

D. Miscellaneous Piping Items:

1. Pipe Support:
 - a. Pipe Hanger: Stainless-steel "J" hanger with side bolt for piping 4" and smaller; stainless-steel clevis hanger for piping 5" and larger. Load and jam nuts. Size and maximum load per manufacturer's recommendation. Felt liner for copper piping. B-Line, Grinnell, Unistrut.
 - b. Isolating Shield: Stainless-steel shell and reinforcing ribs. 1/4" non-conducting hair felt pad. Pipe hanger in accordance with paragraph above. Increase hanger size per manufacturer's recommendation. B-Line, Semco, Superstrut.

- c. Construction Channel: 12-gage, 1-5/8" x 1-5/8" stainless steel channel. Single or multiple section. Self-locking nuts and fittings. B-Line, Grinnell, Unistrut.

2.2 PIPING INSULATION MATERIALS

- A. General: All piping insulation materials shall have fire and smoke hazard ratings as tested under ASTM E-84 and UL 723 not exceeding a flame spread of 25 and smoke developed of 50.
- B. Pre-Molded Fiberglass: Heavy density sectional pre-molded fiberglass with vapor barrier laminated all service jacket and pressure sealing vapor barrier lap. Thermal conductivity shall not exceed 0.25 Btu-in/hr-ft²-F at a mean temperature of 50F. Perm rating 0.02, ASTM E96. Puncture rating 50 Beach units, ASTM D781. Provide 3" (min.) wide tape of same material as lap for butt joints. For hot water piping, thickness shall be 1" for pipe sizes 3/4" and less; 1-1/2" thickness for pipe sizes 1" and larger. Certainteed, Knauf, Johns-Manville, Owens-Corning.
- C. PVC Jacket (for pipe, fittings and valves): Pre-molded polyvinyl chloride (PVC) jackets, 0.020" thickness. Size to match application. Provide solvent weld adhesive and PVC vapor barrier pressure sealing tape by same manufacturer. Zeston.
- D. Outdoor Mastic: Childers CP-21, Foster 65-05.
- E. Insulating Tape: Ground virgin cork and synthetic elastomeric. Black, odorless, and non-toxic. K factor 0.43 Btu-in/hr-ft²-F or less. Non-shrinking. For outdoor use, provide protective finish by same manufacturer. Halstead.

2.3 FIXTURES

- A. General: Provide rough-in for and install all plumbing fixtures shown on drawings. Except in equipment rooms, all trim, valves and piping not concealed in wall structure, above ceiling or below floors, shall be brass with polished chrome plate finish, unless noted otherwise. All enameled fixtures shall be acid resisting. Standard color is white unless otherwise noted.
- B. Schedule: Refer to Plumbing Fixture Schedule on the drawings for list of fixtures and trim. Manufacturer's model numbers are listed to complete description. Equivalent models of Acorn, Willoughby, Haws, are acceptable. For drainage fixtures, equivalent models of Josam, Smith or Zurn are acceptable.
- C. Stops and P-Traps: All fixtures shall be provided with stops and P-Traps as applicable. Wall mounted faucets, valves, etc. shall have integral stops or wall mounted stops.
 - 1. Stops: All hot and cold water supplies shall be 1/2" I.P.S. inlet angle stops

with stuffing box, loose key lock shield, and brass riser (3/8" for 2-1/2 gpm and less, otherwise 1/2"). McGuire, Speedway.

2. P-Traps: Semi-cast brass, ground joint. 17-gage. Clean-out plug. Unobstructed waterway. California Tubular, McGuire.

PART 3 - EXECUTION

3.1 PIPING INSTALLATION

A. General:

1. Piping Layout: Piping shall be concealed in walls, above the ceilings, or below grade unless otherwise noted. Exposed piping shall run parallel to room surfaces; location to be approved by the Engineer. No structural member shall be weakened by cutting, notching, boring or otherwise, unless specifically allowed by structural drawings and/or specifications. Where such cutting is required, reinforcement shall be provided as specified or detailed. All piping shall be installed in a manner to ensure unrestricted flow, eliminate air pockets, prevent any unusual noise, and permit complete drainage of the system. All piping shall be installed to permit expansion and contraction without strain on piping or equipment. Vertical lines shall be installed to allow for building settlement without damage to piping. Pipe sizes indicated on the drawings are nominal sizes unless otherwise noted. Provide secondary drain piping where required.
2. Joints:
 - a. Threaded: Pipe shall be cut square and reamed to full size. Threads shall be in accordance with ANSI B2.1. Joint compound or tape suitable for conveyed fluid shall be applied to male thread only. Joints shall be made with three threads exposed.
 - b. Welded or Brazed: Filler rod shall be of suitable or the same alloy as pipe. Brazing filler metal shall have a minimum melting point of 1100F. Welding or brazing shall be performed by a Certified Welder or Brazer as certified by an organization/institution that uses standards recognized by the American Welding Society (AWS) and meets the requirements of the ASME Boiler and Pressure Vessels Code, Section 9.
 - c. Open Ends: Open ends of piping shall be capped during progress of work to preclude foreign matter.
 - d. Electrical Equipment: Piping shall not be run over electrical panels, motor control centers or switchboards.
3. Fittings and Valves:

- a. Standard Fittings: All joints and changes in direction shall be made with standard fittings. Close nipples shall not be used.
- b. Reducers: Pipe size reduction shall be made with bell reducer fittings. Bushings shall not be used.
- c. Unions: A union shall be installed on the leaving side of each valve, at all sides of automatic valves, at equipment connections, and elsewhere as necessary for assembly or disassembly of piping.
- d. Valves: All valves shall be full line size. Provide shut-off valve for each building and each equipment connection. Provide shut-off valve at each point of connection to existing piping. At equipment connections, valves shall be full size of upstream piping, except that gas valves within 18" of the point of connection to the equipment may be the same size as the equipment connection.
- e. Valve Accessibility: All valves shall be located so that they are easily accessible. Valves located above ceilings shall be installed within 24" of the ceiling. Refer to specification 200000 for access requirements.

4. Pipe Support:

- a. General: Hangers shall be placed to support piping without strain on joints or fittings. Maximum spacing between supports shall be as specified below. Actual spacing requirements will depend on structural system. Side beam clamps shall be provided with retaining straps to secure the clamp to the opposite side of the beam. Vertical piping shall be supported with riser clamp at 20' on center (maximum). Support pipe within 12" of all changes in direction. Support individual pipes with pipe hanger. Copper piping systems which protrude through a surface for connection to a fixture stop or other outlet shall be secured with a drop ell, Grinnell No. 9788; nipple through surface shall be threaded brass.

1) Pressure Pipe:

<u>Pipe Size (Inches)</u>	Copper	<u>Maximum Spacing*</u> <u>Between Supports (ft.)</u>	
		Sch. 40 steel	Plastic steel
1/2	6	6	4
3/4	6	8	4
1	6	8	4
1-1/4	6	10	4
1-1/2	6	10	4

2	10	10	4
2-1/2	10	10	4
3	10	10	4
4	10	10	4

*Based on straight lengths of pipe with couplings only. Provide additional supports for equipment, valves or other fittings. Plastic piping shall be supported per the manufacturer's recommendations. Seismic requirements may reduce maximum spacing.

2) Gravity Drain Pipe: Piping shall be supported at each length of pipe or fitting, but in no case at greater spacing than indicated above for pressure pipe.

- b. Hot and Cold Water Piping: All hot and cold water piping shall have isolating shield; no portion of this piping shall touch the structure without an isolating shield except at anchor points for fixture rough-in.
- c. Trapeze: Trapeze hangers of construction channel and pipe clamps may be used. Submit design to Engineer for review.

5. Miscellaneous:

- a. Escutcheons: Provide chrome plated metal escutcheons where piping penetrates walls, ceilings, or floors in finished areas.
- b. Pipe Sleeves: All piping passing through concrete shall be provided with pipe sleeves. Allow 1" annular clearance between sleeve and pipe for piping 3" and smaller, otherwise 2" annular clearance. Piping through walls below grade shall be sealed with Link-Seal.
- c. Pipes Passing through Fire Rated Surfaces: Pipes passing through fire rated walls, floors, ceilings, partitions, etc. shall have the annular space surrounding the pipe or pipe insulation sealed with fire rated materials in accordance with the requirements of the fire authority having jurisdiction.
- d. Dielectric Couplings: Dielectric couplings shall be installed wherever piping of dissimilar metals are joined, except that bronze valves may be installed in ferrous piping without dielectric couplings.
- e. Thermometer or Pressure Gage Tap: Provide tee for instrument well. Minimum size of pipe surrounding well shall be 1-1/2".
- f. Exposed Pipe at Fixtures: Piping extending from finished surfaces into a finished room shall be chrome plated brass, except under kitchen sinks in commercial kitchens.

B. Sanitary Sewer Piping:

1. General: Where inverts are not indicated, sanitary sewer piping shall be installed at 1/4" per foot pitch. Piping 4" and larger may be installed at 1/8" per foot pitch where structural or other limitations prevent installation at a greater pitch. Bell and spigot piping shall be installed with barrel on sand bed; excavate hole for bell.
2. Cleanouts: Install cleanouts at ends of lines, at changes of direction greater than 45 degrees, and at not greater than 100 foot intervals. Locate interior cleanouts in accessible locations and bring flush to finished surface.
3. Vents: Vents shall terminate not less than 6" above the roof nor less than 24" from any vertical surface nor within 10' of any outside air intake. Install horizontal vent lines at 1/4" per foot pitch. Offset vents 2' minimum from gutters, parapets, ridges and roof flashing.

C. Water Piping: Connections to branches and risers shall be made from top of main. Supply header in fixture battery shall be full size to last fixture, reducing in size only on individual connections to each fixture in battery. Minimum pipe size shall be 3/4", unless otherwise noted. Exposed fixture stops and flush valves shall be installed with brass nipples for copper piping and galvanized nipples for galvanized piping. Nipples are to extend from outside of wall to fitting at header or drop behind finish wall surfaces. Pipe nipples shall be same size as stop or flush valve. Provide shut off for each building and each connection to equipment. Shock absorbers shall be installed in a vertical position per manufacturer's instructions and per PDI-WH 201 where flush valves, metering faucets or other fast acting valves are connected to the domestic piping system. Only equipment mounted on vibration isolators shall be connected with flexible connections. Underground hot water and cold water piping which run parallel to each other shall be installed a minimum of 3 feet apart.

D. Drain Piping (Including Condensate): Install with constant pitch to receptacle, 1/4" per foot where possible, otherwise 1/8" per foot minimum. Provide TEE with clean-out plug at all changes of direction. Provide trap at each air handling unit to prevent air leakage. Only equipment mounted on vibration isolators shall be connected with flexible connection. Piping not concealed in wall structure, above ceilings or below floors shall be chrome plated brass.

E. PVC Piping: Shall be cut square and assembled prior to solvent weld. Apply primer per manufacturer's recommendations. Coat male joint fully with solvent, make joint before solvent dries and wipe exterior clean.

3.2 PIPING INSULATION INSTALLATION:

A. Domestic Hot Water:

1. General: All domestic hot water piping, fittings and accessories shall be insulated.

2. Pipe: Apply pre-molded fiberglass sections to pipe using integral pressure sealing lap adhesive in accordance with manufacturer's recommendations. Stagger longitudinal joints. Seal butt joints with factory supplied pressure sealing tape.
 3. Fittings and Valves:
 - a. Wrap all fittings and valves with pre-cut fiberglass blanket to thickness matching adjoining insulation. Cover blanket with PVC jacket in accordance with manufacturer's recommendations. Solvent weld. Seal all joints with factory supplied pressure sealing vapor barrier tape with 1-1/2" (min.) overlap on both sides of joint. Insulate valves to stem. Do not insulate unions, flanges or valves unless water temperature exceeds 140°F or the piping is exposed to weather.
 - b. For miscellaneous fittings and accessories for which PVC jackets are not available or where proximity of fittings precludes a neat-appearing installation, the Contractor may cover the fiberglass blanket with stretchable glass fabric, one coat of lagging adhesive and a final coat of vapor barrier coating. All exposed ends of insulation shall be adequately sealed.
 4. Additional Finish for Exposed Piping and Equipment: All piping and equipment exposed to view but protected from the weather shall be given an additional finish of PVC jackets.
- B. Cold Water Piping-Freeze Protection: All cold water piping exposed to weather shall be wrapped with insulating tape, 50% overlap. Cover valves to stem. Apply at least two coats of protective finish.

3.3 FIXTURE INSTALLATION

- A. Fixture Height: Shall be as indicated on Architectural drawings.
- B. Floor Drains or Floor Sinks: Shall be placed parallel to room surfaces, set level, flush with floor, and adjusted to proper height to drain. Cover openings during construction to keep all foreign matter out of drain line.
- C. Wall Hung Fixtures: Shall be provided with proper backing and hanger plates secured to wall. Lavatories shall be supported with concealed arm supports. Fixtures mounted on carriers shall bear against stop nuts, clear of wall surface. Caulk fixtures against walls with white G.E. "Sanitary 1700" silicone sealant. Caulking shall be smooth and flush with fixture surface (not concave).
- D. Floor Mounted Fixtures: Shall be provided with proper support plates. Grout at the floor with waterproof ceramic tile grout.

- E. Other Connections: Rough-in and connection for trim or fixtures supplied by others shall be included in this specification section.

3.4 TESTS AND ADJUSTMENTS

- A. General: Unless otherwise directed, tests shall be witnessed by a representative of the Engineer. Work to be concealed shall not be enclosed until prescribed tests are made. Should any work be enclosed before such tests, the Contractor shall, at his expense, uncover, test and repair all work to original conditions. Leaks and defects shown by tests shall be repaired and entire work retested. Tests may be made in sections, however, all connections between sections previously tested and new section shall be included in the new test.
- B. Gravity Systems:
 - 1. Sanitary Sewer: All ends of the sanitary sewer system shall be capped and lines filled with water to the top of the highest vent, 10' above grade minimum. This test shall be made before any fixtures are installed. Test shall be maintained until all joints have been inspected, but no less than 2 hours.
 - 2. Drains (Including Condensate): Similar to Sanitary Sewer.
- C. Pressure Systems:
 - 1. General: There shall be no drop in pressure during test except that due to ambient temperature changes. All components of system not rated for test pressure shall be isolated from system before test is made.
 - 2. Domestic Hot and Cold Water Piping: Maintain 100 psig water pressure for 4 hours.

3.5 DISINFECTION

- A. Disinfect all domestic water piping systems in accordance with AWWA Standard C651, "AWWA Standard for Disinfecting Water Mains", and in accordance with administrative authority. Disinfection process shall be performed in cooperation with health department having jurisdiction and witnessed by a representative of the Engineer. During procedure signs shall be posted at each water outlet stating, "Chlorination - Do Not Drink". After disinfection, water samples shall be collected for bacteriological analysis. Certificate of Bacteriological Purity shall be obtained and delivered to the Owner through the Engineer.

END OF SECTION

SECTION 230100
GENERAL MECHANICAL PROVISIONS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This section covers and applies to all work included in Divisions 21 through 25.
- B. Work in this Section includes providing labor, materials, equipment, services necessary, fabrication, installation and testing for fully operational and safe systems including all necessary materials, appurtenances and features whether specified or shown in the contract documents or not, in conformity with all applicable codes and authorities having jurisdiction for the following:
 - 1. Mechanical work covered by all sections within Divisions 22 and 23 of the specifications, including, but not limited to:
 - a. Heating, ventilating and air conditioning systems and equipment.
 - b. Plumbing systems and equipment.
 - c. Testing and balancing.
- C. Provide cutting and patching, for the Mechanical Work.
- D. Provide piping from plumbing terminations, 10 feet from equipment, for water, gas, sanitary sewer and waste.
- E. Provide drain piping for all equipment requiring drainage to floor drains, roof, sink, or funnel drains.

1.3 RELATED WORK AND REQUIREMENTS

- A. Carefully check the documents of each section with those of other sections and Divisions. Ascertain the requirements of any interfacing materials or equipment being furnished and/or installed by those sections and Divisions, and provide the proper installation and/or required interface.

1.4 QUALITY ASSURANCE

- A. Supply all equipment and accessories in compliance with the applicable standards listed in article 1.6 of this section and with all applicable national, state

and local codes.

- B. All items of a given type shall be the products of the same manufacturer, unless otherwise specified herein.

1.5 SUBMITTALS

- A. Submit shop drawings, product data, samples and certificates of compliance required by Division 01.
- B. Product Data Submittals: Submit manufacturers standard published data. Mark each copy to identify applicable products, models, options, accessories and other data. Supplement manufacturers standard data to provide information specific to this project.
- C. Organize submittals in sequence according to Specification Section. Submit in single electronic PDF document with tabs identifying each Specification Section. Provide Table of Contents identifying the Specification Sections being submitted and the contents within each tabbed section. Prepare Submittals in multiple volumes if required. Provide a complete Submittal package by Division at one time. Do not submit individual Sections piecemeal.
- D. In addition to the submittal requirements of Divisions 21, 22, 23 and 25, submit product data for the following items per the provisions Division 01:
 - 1. All Equipment and Fixtures indicated in Schedules on Drawings.
 - 2. Access panels
- E. If more than two submissions are required (initial submittal and one resubmittal) based on rejection or lack of compliance by submittal, then the Contractor shall:
 - 1. Arrange for additional reviews by the Design Engineers.
 - 2. Pay all costs for such additional reviews.
- F. Corrections or comments made on the shop drawings during review do not relieve the Contractor from compliance with requirements of the drawings and specifications. Shop drawing checking by the Engineer is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The Contractor is responsible for:
 - 1. Confirming and correlating all quantities and dimensions.
 - 2. Selecting fabrication processes and techniques of construction.
 - 3. Coordinating his work with that of all other trades.

4. Performing his work in a safe and satisfactory manner.

G. Substitutions:

1. Prior to Bid shall be in accordance with Division 01.
2. After award of contract, submit separate substitution request for each substitution in accordance with the requirements hereinbelow. Support each request with:
 - a. Complete data substantiating compliance of proposed substitution with requirements stated in Contract documents.
 - b. Data relating to changes in construction schedule.
 - c. Any effect of substitution on other Work in this and other Divisions, and any other related contracts, and changes required in other work or products.
3. Contractor shall be responsible at no extra cost to Owner for any changes resulting from proposed substitutions which affect work of other Sections or Divisions, or related contracts.
4. Claims for additional costs caused by substitution that may subsequently become apparent shall be met by the Contractor.
5. Failure by the Contractor to order materials or equipment in a timely manner will not constitute justification for a substitution.
6. Substitutions will not be considered for acceptance when acceptance will require revision of Contract Documents, unless Contractor bears cost of redesign.
 - a. Arrange for required redesign by Engineer.
 - b. Pay all costs for such redesign.
 - c. All subject to Architect's approval.
7. Approval of substitutions shall not relieve Contractor from full compliance with requirements of Contract documents.

H. As-built (Record) Drawings:

1. Shall be in accordance with Division 01.
2. Provide after installation is complete. Final signoff and Client acceptance will not occur prior to submission of As-built drawings to Architect/Engineer.

3. Indicate as-built conditions and all revisions, fully illustrating all revisions made by all trades in the course of work.
4. Dimension physical locations of ductwork, and piping with reference elevations and distances above finished floors, below beams, from wall faces, underground (invert elevations) and from column lines.
5. Exact location, type and function of concealed valves, dampers, controllers, piping, air vents, piping drains and isolators.
6. Indicate all equipment sizes and capacities and tag numbers.
7. Provide drawing on reproducible bond.
8. These drawings shall be for as-built record purposes for the Owner's use and are not considered shop drawings.

I. Operating Instructions, Maintenance Manuals and Parts Lists:

1. Before requesting acceptance of work, submit one set for review by Architect/Engineer.
2. After review, furnish two (2) printed and bound sets.
3. Include:
 - a. Installers name, address, telephone number and representatives name, and website address.
 - b. Manufacturer's name, model number, service manual, spare-parts list, and descriptive literature for all components, cross referenced and numbered on Record Drawings, and in accordance with Title 24 as required.
 - c. Maintenance instructions.
 - d. Listing of possible breakdown and repairs.
 - e. Instruction for starting, operation and programming.
 - f. Detailed and simplified one line, color coded flow and wiring diagram.
 - g. Field test report, including:
 - 1) Instrument set points.
 - 2) Normal operating values.

- h. Name, address and phone number of contractors equipment suppliers and service agencies.
 - i. Assemble manufacturer's equipment manuals in chronological order, following the specification alpha-numeric system, in heavy duty 3-ring binders clearly titled on the spine and front cover with appropriate index dividers.
- J. Special Tools:
 - 1. One set of any special tools required to operate, adjust, dismantle or repair equipment furnished under any section of this Division.
 - 2. "Special tools": those not normally found in possession of mechanics or maintenance personnel.
 - 3. Tag each item and cross reference in Maintenance Manual.
 - 4. Turn over to Owner's representative or temporarily secure to unit at Architect's instruction.
- K. Quantity of Submittals Required:
 - 1. Product Data (brochures):
 - a. Submit electronic PDF copy of product data.
 - b. If comments are required, comment sheet(s) will be returned with submittal.
 - 2. Samples:
 - a. Submit as required in each specification section.

1.6 REFERENCE STANDARDS

- A. Reference standards of industry organizations, manufacturer associates and professional associations that publish standards of construction and/or materials that are referenced in this Division are listed in Division 01. The Standards as referenced in this Specification shall be considered as attached and binding to the requirements of the Construction Documents. The Contractor is to be considered as knowledgeable of these Standards and their requirements for the performance of the Work.

1.7 CODE COMPLIANCE

- A. In addition to complying with all other legal requirements, comply with current provisions of governing codes and regulations in effect during progress of the Work, and with the following:

1. Drawings and specification requirements shall govern where they exceed Code and Regulation requirements.
2. Where requirements between governing Codes and Regulations vary, the more restrictive provisions shall apply.
3. Nothing contained in Contract Documents shall be construed as authority or permission to disregard or violate legal requirements. The Contractor shall immediately draw the attention of the Architect to any such conflicts noted in the Contract Documents.

1.8 DESCRIPTION OF BID DOCUMENTS

A. General:

1. Words or phrases such as "The Contractor shall," "shall be," "furnish," "provide," "connect," "a," "an," "the," and "all" etc. may be omitted for brevity.
2. The Drawings and Specifications are complimentary each to the other. Where discrepancies occur between the Drawings and Specifications, the more stringent provisions shall apply.
3. Examine all drawings and specifications prior to bidding the work. Report any discrepancies to the Engineer.

B. Specifications:

1. Specifications, in general, describe quality and character of materials and equipment and the Standards that govern. Contractor is responsible for design and construction costs incurred for equipment and materials other than the Basis of Design, including but not limited to architectural, structural, electrical, HVAC, fire sprinkler and plumbing.
2. Specifications are of simplified form and include incomplete sentences.

C. Drawings:

1. Drawings in general are diagrammatic and indicate scope, sizes, routing, locations, connections to equipment and methods of installation, but not necessarily offsets, obstructions or structural conditions. Drawings are not intended to show every item, fitting, transition or offset in its exact dimension or detail of equipment or proposed system layout. Locations on drawings may be distorted for purposes of clearness and legibility.
2. Contractor to provide additional offsets, fittings, hangers, supports, valves, drains as required for construction and coordination with work of other trades.

3. Before proceeding with work, ordering or fabricating materials, check and verify all dimensions and carefully check space requirements with other Work to ensure that all equipment and materials can be installed in spaces allotted.
 4. Contractor to assume all responsibility for fitting of materials and equipment to other parts of equipment and structure.
 5. The Contractor is responsible for installing the work in such a manner that it will conform to the structure and architectural elements, avoid obstructions, maintain headroom, leave adequate clearance for proper maintenance and repairs, and provide clearances and access required by codes. Do not scale distances off of mechanical drawings. Use actual field measured building dimensions.
 6. Make adjustments that may be necessary or requested in order to resolve space problems, preserve headroom, and avoid architectural openings, structural members and work of other trades.
 7. Above items to be performed at no additional cost to the Owner.
- D. Typical details, where shown on the drawings, apply to each and every item of the project where such items are applicable. Typical details are not repeated in full on the plans, and are diagrammatic only, but with the intention that such details shall be incorporated in full.

1.9 DEFINITIONS

- A. "Piping": pipe, tube, fittings, flanges, valves, controls, strainers, hangers, supports, unions, traps, drains, insulation, and related items.
- B. "Motor Controllers": manual or magnetic starters (with or without switches), individual pushbuttons or hand-off-automatic (HOA) switches controlling the operation of motors.
- C. "Control" or "Actuating Devices": automatic sensing and switching devices such as thermostats, pressure, float, electro-pneumatic switches and electrodes controlling operation of equipment.

1.10 JOB CONDITIONS

- A. Adjoining work of other Divisions shall be examined for interferences and conditions affecting this Division.
- B. Examine site related work and surfaces before starting work of any Section.
 1. Report to Architect, in writing, conditions which will prevent proper provision of this work.

2. Beginning work of any Section without reporting unsuitable conditions to Architect constitutes acceptance of conditions by Contractor.
 3. Perform any required removal, repair or replacement of this work caused by unsuitable conditions at no additional cost to Owner.
- C. Connections to existing work.
1. Unknown conditions will be addressed if reasonable.
 2. Contractor shall field verify existing dimensions prior to ordering or fabricating materials.
 3. Install new work and connect to existing work with minimum interference to existing facilities.
 4. Temporary shutdowns of existing services:
 - a. At no additional charges.
 - b. At times not to interfere with normal operation of existing facilities.
 - c. Provide 48 hour notification.
 5. Maintain continuous operation of existing facilities as required with necessary temporary connections between new and existing work.
 6. Restore existing disturbed work to original condition.
- D. Removal and relocation of existing work.
1. Disconnect, remove or relocate material, equipment, plumbing fixtures, piping and other work noted and required by removal or changes in existing construction.
 2. Where existing pipes, conduits and/or ducts which are to remain prevent installation of new work as indicated, relocate, or arrange for relocation, of existing pipes, conduits and/or ducts.
 3. Provide new material and equipment required for relocated equipment.
 4. Plug or cap active piping or ductwork behind or below finish.
 5. Do not leave long dead-end branches. Cap or plug as close as possible to active line.
 6. Remove unused piping, ductwork and material.
 7. Dispose of removed fixtures and equipment as directed.

8. Turn over removed fixtures and equipment to Owner as directed.

E. Special Traffic Requirements:

1. Maintain emergency and service entrances useable to pedestrian, truck, and ambulance traffic at all times.
2. Where trenches are cut, provide adequate bridging for above-mentioned traffic.

1.11 TEMPORARY FACILITIES

A. See Division 01 for temporary facilities required.

1.12 SCHEDULE OF WORK

- A. Arrange work to conform to schedule of construction established or required to comply with Contract Documents.
- B. In scheduling, anticipate means of installing equipment through available openings in structure.
- C. Confirm in writing to Architect, within 30 days of signing of contract, anticipated number of days required to perform test, balance, and acceptance testing of mechanical systems:
 1. This phase must occur after completion of mechanical systems, including all control calibration and adjustment, and requires substantial completion of the building, including closure, ceilings, lighting, partitioning, etc.
 2. Submit for approval at this time, names and qualifications of test and balancing agencies to be used.

1.13 NOISE REDUCTION

- A. Cooperate in reducing objectionable noise or vibration caused by mechanical systems.
 1. To extent of adjustments to specified and installed equipment and appurtenances.
- B. Correct noise problems caused by failure to install work in accordance with Contract Documents. Include labor and materials required as result of such failure.

PART 2 - PRODUCTS

2.1 ACCESS DOORS

- A. Size for proper access, adjusting and maintenance:
 - 1. 12 in. x 12 in. minimum for valves, trap primers, shock absorbers, etc.
 - 2. 24 in. x 24 in. for man access to concealed fans, coils, etc., unless indicated otherwise.
- B. Provide as required by work in this Division.
- C. Style, Color and Finish to match adjacent construction and as approved by Architect.

PART 3 - EXECUTION

3.1 MANUFACTURER'S RECOMMENDATIONS

- A. All material, equipment, devices, etc., shall be installed in accordance with the recommendations of the manufacturer of the particular item. The Contractor shall be responsible for all installations contrary to the manufacturer's recommendations. The Contractor shall make all necessary changes and revisions to achieve such compliance. Manufacturer's installation instructions shall be delivered to and maintained at the job site through the construction of the project.

3.2 CUTTING AND PATCHING

- A. All carpentry, cutting and patching to be done under trades doing that work. Work shall be done in accordance with Division 01.
- B. Provide all carpentry, cutting and patching required for proper installation of material and equipment specified in Divisions 22 and 23.
- C. Do not cut, notch or drill structural members without consent of Architect.
- D. All cutting and repairing shall conform to Title 24 of California Administrative Code.

3.3 CONCRETE ANCHORS

- A. Steel bolt with expansion anchor requiring a drilled hole – powder driven anchors are not acceptable.
- B. Minimum concrete embedment shall be 4-1/2 diameters unless otherwise noted on plans.

- C. Minimum spacing shall be 12 diameters center to center and 6 diameters center to edge of concrete unless otherwise noted on plans.
- D. Maximum allowable stresses for tension and shear shall be 80% of the ICC test report values. Hilti, Phillips, Wej-It.

3.4 EQUIPMENT ANCHORING

- A. All equipment shall be securely anchored in accordance with CBC.
- B. All equipment mounted on concrete shall be secured with a concrete anchor as specified above at each mounting point.
- C. Secure base plate as indicated above.

3.5 SUPPORTS AND SEISMIC RESTRAINTS

- A. All mechanical systems (all ductwork, piping, etc.) shall be provided with supports and seismic restraints in accordance with Seismic Hazard Level 'A' of the "Guidelines for Seismic Restraint Manual: Guidelines for Mechanical Systems", current issue, as published by the Sheet Metal and Air Conditioning Contractors National Association, Inc. (SMACNA), Chantilly, Virginia and in accordance with CBC.

3.6 WATER PROOFING

- A. Under General Construction Work.
- B. Where any work pierces waterproofing, installation shall be subject to review.
 - 1. Provide all necessary sleeves, caulking, flashing and flashing fittings required to make openings absolutely watertight.
- C. Flashing:
 - 1. Mechanical Contractor shall provide flashing for all work in this Division, unless otherwise provided by roofing installer, as required to accommodate roof slope, roofing material, and roof installation method. No additional costs will be paid for lack of familiarity of Contractor with roofing type or slope.
 - 2. Mechanical Contractor shall be responsible for coordinating size of penetrations and locations with roofing contractor.
 - 3. Mechanical Contractor shall be responsible for scheduling installation of piping and other penetrations through roof structural system to exterior that they are complete and secure for the orderly installation of the roofing system.

4. 4 lb. lead.
 5. 16 oz. lead coated copper.
 6. No.22 USSG aluminum.
 7. Fittings for piping through roof:
 - a. Galvanized cast iron bottom recess roof type.
 - b. Similar to Josam No. 26440 or No. 26450.
- D. Provide weather protection canopies, hoods or enclosures over out-of-door equipment which could be damaged by exposure to weather.
1. This requirement applies to:
 - a. Motors and drives.
 - b. Controls.
 - c. Instruments.
 2. Identify items under such covers if entirely enclosed.

3.7 ACCESS TO VALVES AND EQUIPMENT

- A. Access shall be possible where valves, expansion joints, fire dampers, motors, filters, control devices, and any other equipment requiring access for servicing, repairs, or maintenance are located in walls, soffits, chases, and/or above ceilings.
- B. Definition of Accessible:
1. Valves and dampers may be operated.
 2. Control devices may be adjusted.
 3. Fire dampers may be reset.
 4. Equipment access panels may be opened.
 5. Normal maintenance work such as replacement of filters, lubrication of bearings, etc., may be performed readily within arm's reach of access opening.
 6. It shall not be necessary to crawl through furred ceiling space to perform such operations.
- C. Install piping, equipment and accessories to permit easy access for maintenance.

- D. Group concealed valves, expansion joints, controls, dampers and equipment requiring service access, so as to be freely accessible through access doors and to minimize the number of access doors required.
- E. Relocate piping equipment and accessories as required, at no extra cost to afford proper maintenance access.
- F. Coordinate location of access panels with applicable trades installing walls or ceiling.
 - 1. Coordinate panel locations with lights and other architectural features.
 - 2. Submit proposed panel locations to Architect for review.
- G. Arrange for location and marking of removable tiles in splined ceilings where access panels are not installed.
- H. Existing Structures:
 - 1. When installation requires access openings through existing construction, coordinate location of necessary access panels, and arrange for respective trades to provide openings and framing which may be required.
 - 2. Restore adjoining existing surfaces to original condition after new access panels have been installed.

3.8 CLEANING AND ADJUSTING

- A. Work to be painted: Brush and clean work prior to concealing, painting and acceptance. Perform in stages if directed.
- B. Painted or exposed work soiled or damaged: Clean, repair and paint to match adjoining work before final acceptance.
- C. Remove debris from inside and outside of materials and equipment.
- D. Flush out piping after installation.
- E. Adjust valves and automatic control devices.
- F. Traps, wastes and supplies: unobstructed.

3.9 FIELD QUALITY CONTROL

- A. Refer to Division 01.
- B. Tests:
 - 1. Perform as specified in individual Divisions, and as required by authorities having jurisdiction.
- C. Furnish written report and certification that tests have been satisfactorily completed.
- D. Repair or replace defective work, as directed.
- E. Pay for restoring or replacing damaged work due to tests, as directed.
- F. Pay for restoring or replacing damaged work of others, due to tests, as directed.

3.10 TRAINING

- A. Provide training by qualified manufacturers' representatives for equipment as specified in this Division.
- B. Training to include:
 - 1. Site-specific training.
 - 2. Minimum hours as specified in each Section.
 - 3. Training materials (minimum six sets).
 - 4. Electronic media available from the manufacturer [two (2) copies].
- C. Each training session to be scheduled with Owner at least 30 days in advance.

END OF SECTION

SECTION 230500
COMMON WORK RESULTS FOR HVAC

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Piping materials and installation instructions common to most piping systems.
 - 2. Mechanical sleeve seals.
 - 3. Sleeves.
 - 4. Escutcheons.
 - 5. Equipment installation requirements common to equipment sections.
 - 6. Painting and finishing.
 - 7. Supports and anchorages.

1.3 DEFINITIONS

- A. Finished Spaces: Spaces other than mechanical and electrical equipment rooms, furred spaces, pipe and duct chases, unheated spaces immediately below roof, spaces above ceilings, unexcavated spaces, crawlspaces, and tunnels.
- B. Exposed, Interior Installations: Exposed to view indoors. Examples include finished occupied spaces and mechanical equipment rooms.
- C. Exposed, Exterior Installations: Exposed to view outdoors or subject to outdoor ambient temperatures and weather conditions. Examples include rooftop locations.
- D. Concealed, Interior Installations: Concealed from view and protected from physical contact by building occupants. Examples include above ceilings and chases.
- E. Concealed, Exterior Installations: Concealed from view and protected from weather conditions and physical contact by building occupants but subject to outdoor ambient temperatures. Examples include installations within unheated shelters.
- F. The following are industry abbreviations for plastic materials:
 - 1. CPVC: Chlorinated polyvinyl chloride plastic.
 - 2. PE: Polyethylene plastic.
 - 3. PVC: Polyvinyl chloride plastic.

G. The following are industry abbreviations for rubber materials:

1. EPDM: Ethylene-propylene-diene terpolymer rubber.

1.4 SUBMITTALS

A. Product Data: For the following:

1. Mechanical sleeve seals.
2. Access doors

B. Welding certificates.

1.5 QUALITY ASSURANCE

A. Steel Support Welding: Qualify processes and operators according to AWS D1.1, "Structural Welding Code--Steel."

B. Steel Pipe Welding: Qualify processes and operators according to ASME Boiler and Pressure Vessel Code: Section IX, "Welding and Brazing Qualifications."

1. Comply with provisions in ASME B31 Series, "Code for Pressure Piping."
2. Certify that each welder has passed AWS qualification tests for welding processes involved and that certification is current.

C. Electrical Characteristics for HVAC Equipment: Equipment of higher electrical characteristics may be furnished provided such proposed equipment is approved in writing and connecting electrical services, circuit breakers, and conduit sizes are appropriately modified. If minimum energy ratings or efficiencies are specified, equipment shall comply with requirements.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver pipes and tubes with factory-applied end caps. Maintain end caps through shipping, storage, and handling to prevent pipe end damage and to prevent entrance of dirt, debris, and moisture.

B. Store plastic pipes protected from direct sunlight. Support to prevent sagging and bending.

1.7 COORDINATION

A. Arrange for pipe spaces, chases, slots, and openings in building structure during progress of construction, to allow for HVAC installations.

B. Coordinate installation of required supporting devices and set sleeves in poured-in-place concrete and other structural components as they are constructed.

- C. Coordinate requirements for access panels and doors for HVAC items requiring access that are concealed behind finished surfaces.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. In other Part 2 articles where subparagraph titles below introduce lists, the following requirements apply for product selection:
 - 1. Manufacturers: Subject to compliance with requirements, provide products by the manufacturers specified.

2.2 PIPE, TUBE, AND FITTINGS

- A. Refer to individual Division 23 piping Sections for pipe, tube, and fitting materials and joining methods.
- B. Pipe Threads: ASME B1.20.1 for factory-threaded pipe and pipe fittings.

2.3 JOINING MATERIALS

- A. Refer to individual Division 23 piping Sections for special joining materials not listed below.
- B. Solder Filler Metals: ASTM B 32, lead-free alloys. Include water-flushable flux according to ASTM B 813.
- C. Brazing Filler Metals: AWS A5.8, BCuP Series, copper-phosphorus alloys for general-duty brazing, unless otherwise indicated; and AWS A5.8, BAg1, silver alloy for refrigerant piping, unless otherwise indicated.

2.4 MECHANICAL SLEEVE SEALS

- A. Description: Modular sealing element unit, designed for field assembly, to fill annular space between pipe and sleeve.
- B. Sealing Elements: EPDM interlocking links shaped to fit surface of pipe. Include type and number required for pipe material and size of pipe.
- C. Pressure Plates: Carbon steel or Stainless steel. Include two for each sealing element.
- D. Connecting Bolts and Nuts: Carbon steel with corrosion-resistant coating of length required to secure pressure plates to sealing elements. Include one for each sealing element.

2.5 SLEEVES

- A. Steel Pipe: ASTM A 53, Type E, Grade B, Schedule 40, galvanized, plain ends.
- B. Cast Iron: Cast or fabricated "wall pipe" equivalent to ductile-iron pressure pipe, with plain ends and integral waterstop, unless otherwise indicated.
- C. PVC Pipe: ASTM D 1785, Schedule 40.

2.6 ESCUTCHEONS

- A. Description: Manufactured wall and ceiling escutcheons and floor plates, with an ID to closely fit around pipe, tube, and insulation of insulated piping and an OD that completely covers opening.
- B. One-Piece, Deep-Pattern Type: Deep-drawn, box-shaped brass with polished chrome-plated finish.
- C. One-Piece, Cast-Brass Type: With set screw.
 - 1. Finish: Polished chrome-plated.
- D. Split-Casting, Cast-Brass Type: With concealed hinge and set screw.
 - 1. Finish: Polished chrome-plated.

2.7 ACCESS DOORS

- A. Size for proper access, adjusting and maintenance:
 - 1. 12 in. x 12 in. minimum for valves, volume dampers, etc.
 - 2. 24 in. x 24 in. for man access to concealed fans, coils, fire/smoke dampers, etc., unless indicated otherwise.
- B. Provide as required by work in Division 21, 22, 23, and 25.
- C. Style, color, and finish to match adjacent construction and as approved by Architect.

PART 3 - EXECUTION

3.1 PIPING SYSTEMS - COMMON REQUIREMENTS

- A. Install piping according to the following requirements and Division 23 Sections specifying piping systems.
- B. Drawing plans, schematics, and diagrams indicate general location and arrangement of piping systems. Indicated locations and arrangements were used to size pipe and

calculate friction loss, expansion, pump sizing, and other design considerations. Install piping as indicated unless deviations to layout are approved on Coordination Drawings.

- C. Install piping in concealed locations, unless otherwise indicated and except in equipment rooms and service areas.
- D. Install piping indicated to be exposed and piping in equipment rooms and service areas at right angles or parallel to building walls. Diagonal runs are prohibited unless specifically indicated otherwise.
- E. Install piping above accessible ceilings to allow sufficient space for ceiling panel removal.
- F. Install piping to permit valve servicing.
- G. Install piping at indicated slopes.
- H. Install piping free of sags and bends.
- I. Install fittings for changes in direction and branch connections.
- J. Install piping to allow application of insulation.
- K. Select system components with pressure rating equal to or greater than system operating pressure.
- L. Install escutcheons for penetrations of walls, ceilings, and floors.
- M. Sleeves are not required for core-drilled holes.
- N. Install sleeves for pipes passing through concrete and masonry walls and concrete floor and roof slabs.
 - 1. Cut sleeves to length for mounting flush with both surfaces.
 - a. Exception: Extend sleeves installed in floors of mechanical equipment areas or other wet areas 2 inches above finished floor level.
 - 2. Install sleeves in new walls and slabs as new walls and slabs are constructed.
 - 3. Install sleeves that are large enough to provide 1/4-inch annular clear space between sleeve and pipe or pipe insulation. Use the following sleeve materials:
 - a. PVC or Steel Pipe Sleeves: For pipes smaller than NPS 6.
 - 1) Seal space outside of sleeve fittings with grout.
 - 4. Except for underground wall penetrations, seal annular space between sleeve and pipe or pipe insulation, using joint sealants appropriate for size, depth, and location of joint.

- O. Aboveground, Exterior-Wall Pipe Penetrations: Seal penetrations using sleeves and mechanical sleeve seals. Select sleeve size to allow for 1-inch annular clear space between pipe and sleeve for installing mechanical sleeve seals.
 - 1. Install steel pipe for sleeves smaller than 6 inches in diameter.
 - 2. Mechanical Sleeve Seal Installation: Select type and number of sealing elements required for pipe material and size. Position pipe in center of sleeve. Assemble mechanical sleeve seals and install in annular space between pipe and sleeve. Tighten bolts against pressure plates that cause sealing elements to expand and make watertight seal.
- P. Fire-Barrier Penetrations: Maintain indicated fire rating of walls, partitions, ceilings, and floors at pipe penetrations. Seal pipe penetrations with firestop materials. Refer to Division 07 Section "Penetration Firestopping" for materials.
- Q. Verify final equipment locations for roughing-in.
- R. Refer to equipment specifications in other Sections of these Specifications for roughing-in requirements.

3.2 PIPING JOINT CONSTRUCTION

- A. Join pipe and fittings according to the following requirements and Division 23 Sections specifying piping systems.
- B. Ream ends of pipes and tubes and remove burrs. Bevel plain ends of steel pipe.
- C. Remove scale, slag, dirt, and debris from inside and outside of pipe and fittings before assembly.
- D. Soldered Joints: Apply ASTM B 813, water-flushable flux, unless otherwise indicated, to tube end. Construct joints according to ASTM B 828 or CDA's "Copper Tube Handbook," using lead-free solder alloy complying with ASTM B 32.
- E. Brazed Joints: Construct joints according to AWS's "Brazing Handbook," "Pipe and Tube" Chapter, using copper-phosphorus brazing filler metal complying with AWS A5.8.

3.3 PIPING CONNECTIONS

- A. Make connections according to the following, unless otherwise indicated:
 - 1. Install unions, in piping NPS 2-1/2 and smaller, adjacent to each valve and at final connection to each piece of equipment.

3.4 EQUIPMENT INSTALLATION - COMMON REQUIREMENTS

- A. Install equipment to allow maximum possible headroom unless specific mounting heights are not indicated.
- B. Install equipment level and plumb, parallel and perpendicular to other building systems and components in exposed interior spaces, unless otherwise indicated.
- C. Install HVAC equipment to facilitate service, maintenance, and repair or replacement of components. Connect equipment for ease of disconnecting, with minimum interference to other installations. Extend grease fittings to accessible locations.
- D. Install equipment to allow right of way for piping installed at required slope.

3.5 ACCESS TO VALVE AND EQUIPMENT

- A. Access shall be possible where valves, expansion joints, fire dampers, motors, filters, control devices, and any other equipment requiring access for servicing, repairs, or maintenance are located in walls, soffits, chases, and/or above ceilings.
- B. Definition of Accessible:
 - 1. Valves and dampers may be operated.
 - 2. Control devices may be adjusted.
 - 3. Fire dampers may be reset.
 - 4. Equipment access panels may be opened.
 - 5. Normal maintenance work such as replacement of filters, lubrication of bearings, etc., may be performed readily within arm's reach of access opening.
 - 6. It shall not be necessary to crawl through furred ceiling space to perform such operations.
- C. Install piping, equipment and accessories to permit easy access for maintenance.
- D. Group concealed valves, expansion joints, controls, dampers and equipment requiring service access, so as to be freely accessible through access doors and to minimize the number of access doors required.
- E. Relocate piping equipment and accessories as required, at no extra cost to afford proper maintenance access.
- F. Coordinate location of access panels with applicable trades installing walls or ceiling.
 - 1. Coordinate panel locations with lights and other architectural features.
 - 2. Submit proposed panel locations to Architect for review.
- G. Arrange for location and marking of removable tiles in splined ceilings where access panels are not installed.

3.6 PAINTING

- A. Damage and Touchup: Repair marred and damaged factory-painted finishes with materials and procedures to match original factory finish.

3.7 ERECTION OF METAL SUPPORTS AND ANCHORAGES

- A. Cut, fit, and place miscellaneous metal supports accurately in location, alignment, and elevation to support and anchor HVAC materials and equipment.
- B. Field Welding: Comply with AWS D1.1.

3.8 ERECTION OF WOOD SUPPORTS AND ANCHORAGES

- A. Cut, fit, and place wood grounds, nailers, blocking, and anchorages to support, and anchor HVAC materials and equipment.
- B. Select fastener sizes that will not penetrate members if opposite side will be exposed to view or will receive finish materials. Tighten connections between members. Install fasteners without splitting wood members.
- C. Attach to substrates as required to support applied loads.

END OF SECTION

SECTION 230529
HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Metal pipe hangers and supports.
2. Trapeze pipe hangers.
3. Thermal-hanger shield inserts.
4. Fastener systems.
5. Equipment supports.

1.2 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Design trapeze pipe hangers and equipment supports, including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.
- B. Structural Performance: Hangers and supports for HVAC piping and equipment shall withstand the effects of gravity loads and stresses within limits and under conditions indicated according to ASCE/SEI 7-16.
1. Design supports for multiple pipes capable of supporting combined weight of supported systems, system contents, and test water.
 2. Design equipment supports capable of supporting combined operating weight of supported equipment and connected systems and components.
 3. Design seismic-restraint hangers and supports for piping and equipment and obtain approval from authorities having jurisdiction.

1.3 SUBMITTALS

- A. Product Data: For each type of product indicated.

1.4 QUALITY ASSURANCE

- A. Structural Steel Welding Qualifications: Qualify procedures and personnel according to AWS D1.1/D1.1M, "Structural Welding Code - Steel."
- B. Pipe Welding Qualifications: Qualify procedures and operators according to ASME Boiler and Pressure Vessel Code.

PART 2 - PRODUCTS

2.1 METAL PIPE HANGERS AND SUPPORTS

A. Carbon-Steel Pipe Hangers and Supports:

1. Description: MSS SP-58, Types 1 through 58, factory-fabricated components.
2. Galvanized Metallic Coatings: Pregalvanized or hot dipped.
3. Nonmetallic Coatings: Plastic coating, jacket, or liner.
4. Padded Hangers: Hanger with fiberglass or other pipe insulation pad or cushion to support bearing surface of piping.
5. Hanger Rods: Continuous-thread rod, nuts, and washer made of carbon steel.

B. Stainless-Steel Pipe Hangers and Supports:

1. Description: MSS SP-58, Types 1 through 58, factory-fabricated components.
2. Padded Hangers: Hanger with fiberglass or other pipe insulation pad or cushion to support bearing surface of piping.
3. Hanger Rods: Continuous-thread rod, nuts, and washer made of stainless steel.

2.2 TRAPEZE PIPE HANGERS

- #### A.
- Description: MSS SP-69, Type 59, shop- or field-fabricated pipe-support assembly made from structural carbon-steel shapes with MSS SP-58 carbon-steel hanger rods, nuts, saddles, and U-bolts.

2.3 THERMAL-HANGER SHIELD INSERTS

- #### A.
- Insulation-Insert Material for Cold Piping: ASTM C 552, Type II cellular glass with 100-psig (688-kPa) or ASTM C 591, Type VI, Grade 1 polyisocyanurate with 125-psig (862-kPa) minimum compressive strength and vapor barrier.
- #### B.
- Insulation-Insert Material for Hot Piping: ASTM C 552, Type II cellular glass with 100-psig (688-kPa) or ASTM C 591, Type VI, Grade 1 polyisocyanurate with 125-psig (862-kPa) minimum compressive strength.
- #### C.
- For Trapeze or Clamped Systems: Insert and shield shall cover entire circumference of pipe.
- #### D.
- For Clevis or Band Hangers: Insert and shield shall cover lower 180 degrees of pipe.
- #### E.
- Insert Length: Extend 2 inches (50 mm) beyond sheet metal shield for piping operating below ambient air temperature.

2.4 FASTENER SYSTEMS

- A. Mechanical-Expansion Anchors: Insert-wedge-type, zinc-coated steel anchors, for use in hardened portland cement concrete; with pull-out, tension, and shear capacities appropriate for supported loads and building materials where used.

2.5 EQUIPMENT SUPPORTS

- A. Description: Welded, shop- or field-fabricated equipment support made from structural carbon-steel shapes.

PART 3 - EXECUTION

3.1 HANGER AND SUPPORT INSTALLATION

- A. Metal Pipe-Hanger Installation: Comply with MSS SP-69 and MSS SP-89. Install hangers, supports, clamps, and attachments as required to properly support piping from the building structure.
- B. Metal Trapeze Pipe-Hanger Installation: Comply with MSS SP-69 and MSS SP-89. Arrange for grouping of parallel runs of horizontal piping, and support together on field-fabricated trapeze pipe hangers.
 - 1. Pipes of Various Sizes: Support together and space trapezes for smallest pipe size or install intermediate supports for smaller diameter pipes as specified for individual pipe hangers.
 - 2. Field fabricate from ASTM A 36/A 36M, carbon-steel shapes selected for loads being supported. Weld steel according to AWS D1.1/D1.1M.
- C. Thermal-Hanger Shield Installation: Install in pipe hanger or shield for insulated piping.
- D. Fastener System Installation:
 - 1. Install mechanical-expansion anchors in concrete after concrete is placed and completely cured. Install fasteners according to manufacturer's written instructions.
- E. Install hangers and supports complete with necessary attachments, inserts, bolts, rods, nuts, washers, and other accessories.
- F. Equipment Support Installation: Fabricate from welded-structural-steel shapes.
- G. Install hangers and supports to allow controlled thermal and seismic movement of piping systems, to permit freedom of movement between pipe anchors, and to facilitate action of expansion joints, expansion loops, expansion bends, and similar units.
- H. Install lateral bracing with pipe hangers and supports to prevent swaying.

- I. Install building attachments within concrete slabs or attach to structural steel. Install additional attachments at concentrated loads, including valves, flanges, and strainers, NPS 2-1/2 (DN 65) and larger and at changes in direction of piping. Install concrete inserts before concrete is placed; fasten inserts to forms and install reinforcing bars through openings at top of inserts.
- J. Load Distribution: Install hangers and supports so that piping live and dead loads and stresses from movement will not be transmitted to connected equipment.
- K. Pipe Slopes: Install hangers and supports to provide indicated pipe slopes and to not exceed maximum pipe deflections allowed by ASME B31.9 for building services piping.
- L. Insulated Piping:
 - 1. Attach clamps and spacers to piping.
 - a. Piping Operating above Ambient Air Temperature: Clamp may project through insulation.
 - b. Piping Operating below Ambient Air Temperature: Use thermal-hanger shield insert with clamp sized to match OD of insert.
 - c. Do not exceed pipe stress limits allowed by ASME B31.9 for building services piping.
 - 2. Install MSS SP-58, Type 39, protection saddles if insulation without vapor barrier is indicated. Fill interior voids with insulation that matches adjoining insulation.
 - 3. Install MSS SP-58, Type 40, protective shields on cold piping with vapor barrier. Shields shall span an arc of 180 degrees.
 - a. Option: Thermal-hanger shield inserts may be used. Include steel weight-distribution plate for pipe NPS 4 (DN 100) and larger if pipe is installed on rollers.
 - 4. Shield Dimensions for Pipe: Not less than the following:
 - a. NPS 1/4 to NPS 3-1/2 (DN 8 to DN 90): 12 inches (305 mm) long and 0.048 inch (1.22 mm) thick.
 - b. NPS 4 (DN 100): 12 inches (305 mm) long and 0.06 inch (1.52 mm) thick.
 - 5. Thermal-Hanger Shields: Install with insulation same thickness as piping insulation.

3.2 EQUIPMENT SUPPORTS

- A. Fabricate structural-steel stands to suspend equipment from structure overhead or to support equipment above floor.
- B. Grouting: Place grout under supports for equipment and make bearing surface smooth.
- C. Provide lateral bracing, to prevent swaying, for equipment supports.

3.3 METAL FABRICATIONS

- A. Cut, drill, and fit miscellaneous metal fabrications for trapeze pipe hangers and equipment supports.
- B. Fit exposed connections together to form hairline joints. Field weld connections that cannot be shop welded because of shipping size limitations.
- C. Field Welding: Comply with AWS D1.1/D1.1M procedures for shielded, metal arc welding; appearance and quality of welds; and methods used in correcting welding work; and with the following:
 - 1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
 - 2. Obtain fusion without undercut or overlap.
 - 3. Remove welding flux immediately.
 - 4. Finish welds at exposed connections so no roughness shows after finishing and so contours of welded surfaces match adjacent contours.

3.4 ADJUSTING

- A. Hanger Adjustments: Adjust hangers to distribute loads equally on attachments and to achieve indicated slope of pipe.
- B. Trim excess length of continuous-thread hanger and support rods to 1-1/2 inches (40 mm).

3.5 PAINTING

- A. Touchup: Clean field welds and abraded areas of shop paint. Paint exposed areas immediately after erecting hangers and supports. Use same materials as used for shop painting. Comply with SSPC-PA 1 requirements for touching up field-painted surfaces.
 - 1. Apply paint by brush or spray to provide a minimum dry film thickness of 2.0 mils.
- B. Galvanized Surfaces: Clean welds, bolted connections, and abraded areas and apply galvanizing-repair paint to comply with ASTM A 780.

3.6 HANGER AND SUPPORT SCHEDULE

- A. Specific hanger and support requirements are in Sections specifying piping systems and equipment.
- B. Comply with MSS SP-69 for pipe-hanger selections and applications that are not specified in piping system Sections.
- C. Use hangers and supports with galvanized metallic coatings for piping and equipment that will not have field-applied finish.

- D. Use nonmetallic coatings on attachments for electrolytic protection where attachments are in direct contact with copper tubing.
- E. Use carbon-steel pipe hangers and supports and metal trapeze pipe hangers and attachments for general service applications.
- F. Use stainless-steel pipe hangers and stainless-steel attachments for hostile environment applications.
- G. Use padded hangers for piping that is subject to scratching.
- H. Use thermal-hanger shield inserts for insulated piping and tubing.
- I. Horizontal-Piping Hangers and Supports: Unless otherwise indicated and except as specified in piping system Sections, install the following types:
 - 1. Adjustable, Steel Clevis Hangers (MSS Type 1): For suspension of noninsulated or insulated, stationary pipes NPS 1/2 to NPS 30 (DN 15 to DN 750).
 - 2. Carbon- or Alloy-Steel, Double-Bolt Pipe Clamps (MSS Type 3): For suspension of pipes NPS 3/4 to NPS 36 (DN 20 to DN 900), requiring clamp flexibility and up to 4 inches (100 mm) of insulation.
 - 3. U-Bolts (MSS Type 24): For support of heavy pipes NPS 1/2 to NPS 30 (DN 15 to DN 750).
 - 4. Pipe Stanchion Saddles (MSS Type 37): For support of pipes NPS 4 to NPS 36 (DN 100 to DN 900), with steel-pipe base stanchion support and cast-iron floor flange or carbon-steel plate, and with U-bolt to retain pipe.
 - 5. Single-Pipe Rolls (MSS Type 41): For suspension of pipes NPS 1 to NPS 30 (DN 25 to DN 750), from two rods if longitudinal movement caused by expansion and contraction might occur.
- J. Vertical-Piping Clamps: Unless otherwise indicated and except as specified in piping system Sections, install the following types:
 - 1. Extension Pipe or Riser Clamps (MSS Type 8): For support of pipe risers NPS 3/4 to NPS 24 (DN 24 to DN 600).
- K. Hanger-Rod Attachments: Unless otherwise indicated and except as specified in piping system Sections, install the following types:
 - 1. Steel Turnbuckles (MSS Type 13): For adjustment up to 6 inches (150 mm) for heavy loads.
 - 2. Steel Clevises (MSS Type 14): For 120 to 450 deg F (49 to 232 deg C) piping installations.
- L. Building Attachments: Unless otherwise indicated and except as specified in piping system Sections, install the following types:
 - 1. Steel or Malleable Concrete Inserts (MSS Type 18): For upper attachment to suspend pipe hangers from concrete ceiling.
 - 2. Side-Beam or Channel Clamps (MSS Type 20): For attaching to bottom flange of beams, channels, or angles.

3. Center-Beam Clamps (MSS Type 21): For attaching to center of bottom flange of beams.
 4. C-Clamps (MSS Type 23): For structural shapes.
 5. Side-Beam Brackets (MSS Type 34): For sides of steel or wooden beams.
- M. Saddles and Shields: Unless otherwise indicated and except as specified in piping system Sections, install the following types:
1. Steel-Pipe-Covering Protection Saddles (MSS Type 39): To fill interior voids with insulation that matches adjoining insulation.
 2. Protection Shields (MSS Type 40): Of length recommended in writing by manufacturer to prevent crushing insulation.
 3. Thermal-Hanger Shield Inserts: For supporting insulated pipe.
- N. Use mechanical-expansion anchors instead of building attachments where required in concrete construction.

END OF SECTION

SECTION 230553
IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Equipment labels.
2. Warning signs and labels.
3. Pipe labels.

1.2 SUBMITTAL

A. Product Data: For each type of product indicated.

PART 2 - PRODUCTS

2.1 EQUIPMENT LABELS

A. Metal Labels for Equipment:

1. Material and Thickness: Brass, 0.032-inch (0.8-mm) or anodized aluminum, 0.032-inch (0.8-mm) minimum thickness, and having predrilled or stamped holes for attachment hardware.
2. Minimum Label Size: Length and width vary for required label content, but not less than 2-1/2 by 3/4 inch (64 by 19 mm).
3. Minimum Letter Size: 1/2 inch (13 mm). Include secondary lettering two-thirds to three-fourths the size of principal lettering.
4. Fasteners: Stainless-steel rivets or self-tapping screws.

B. Plastic Labels for Equipment:

1. Material and Thickness: Multilayer, multicolor, plastic labels for mechanical engraving, 1/8 inch (3.2 mm) thick, and having predrilled holes for attachment hardware.
2. Letter Color: Black.
3. Background Color: White.
4. Maximum Temperature: Able to withstand temperatures up to 160 deg F (71 deg C).
5. Minimum Label Size: Length and width vary for required label content, but not less than 2-1/2 by 3/4 inch (64 by 19 mm).
6. Minimum Letter Size: 1/2 inch (13 mm). Include secondary lettering two-thirds to three-fourths the size of principal lettering.
7. Fasteners: Stainless-steel rivets or self-tapping screws.

- C. Label Content: Include equipment's Drawing designation or unique equipment number, and Room number of primary space served (where thermostat is located). Coordinate with District to match final installed room numbering, not Construction Document Plan room numbering.
- D. Equipment Label Schedule: For each item of equipment to be labeled, on 8-1/2-by-11-inch (A4) bond paper. Tabulate equipment identification number and identify Drawing numbers where equipment is indicated (plans, details, and schedules), plus the Specification Section number and title where equipment is specified. Equipment schedule shall be included in operation and maintenance data.

2.2 WARNING SIGNS AND LABELS

- A. Material and Thickness: Multilayer, multicolor, plastic labels for mechanical engraving, 1/8 inch (3.2 mm) thick, and having predrilled holes for attachment hardware.
- B. Letter Color: Red.
- C. Background Color: White.
- D. Maximum Temperature: Able to withstand temperatures up to 160 deg F (71 deg C).
- E. Minimum Label Size: Length and width vary for required label content, but not less than 2-1/2 by 3/4 inch (64 by 19 mm).
- F. Minimum Letter Size: 1/4 inch (6.4 mm) for name of units if viewing distance is less than 24 inches (600 mm), 1/2 inch (13 mm) for viewing distances up to 72 inches (1830 mm), and proportionately larger lettering for greater viewing distances. Include secondary lettering two-thirds to three-fourths the size of principal lettering.
- G. Fasteners: Stainless-steel rivets or self-tapping screws.
- H. Adhesive: Contact-type permanent adhesive, compatible with label and with substrate.
- I. Label Content: Include caution and warning information, plus emergency notification instructions.

2.3 PIPE LABELS

- A. General Requirements for Manufactured Pipe Labels: Preprinted, color-coded, with lettering indicating service, and showing flow direction.
- B. Pretensioned Pipe Labels: Precoiled, semirigid plastic formed to cover full circumference of pipe and to attach to pipe without fasteners or adhesive.
- C. Pipe Label Contents: Include identification of piping service using same designations or abbreviations as used on Drawings, and pipe size.
 - 1. Lettering Size: At least 1 inch high.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Clean piping and equipment surfaces of substances that could impair bond of identification devices, including dirt, oil, grease, release agents, and incompatible primers, paints, and encapsulants.

3.2 EQUIPMENT LABEL INSTALLATION

- A. Install or permanently fasten labels on each major item of mechanical equipment.
- B. Locate equipment labels where accessible and visible.

3.3 PIPE LABEL INSTALLATION

- A. Piping Color-Coding: Painting of piping is specified in Division 09 Section "Painting."
- B. Locate pipe labels where piping is exposed or above accessible ceilings in finished spaces; machine rooms; accessible maintenance spaces such as shafts, tunnels, and plenums; and exterior exposed locations as follows:
 - 1. Near each valve and control device.
 - 2. Near each branch connection, excluding short takeoffs for fixtures and terminal units. Where flow pattern is not obvious, mark each pipe at branch.
 - 3. Near penetrations through walls, floors, ceilings, and inaccessible enclosures.
 - 4. At access doors, manholes, and similar access points that permit view of concealed piping.
 - 5. Near major equipment items and other points of origination and termination.
 - 6. Spaced at maximum intervals of 20 feet along each run. Reduce intervals to 10 feet in areas of congested piping and equipment.
- C. Pipe Label Color Schedule:
 - 1. Refrigerant Piping:
 - a. Background Color: Yellow.
 - b. Letter Color: Black.

END OF SECTION

SECTION 230593
TESTING, ADJUSTING, AND BALANCING FOR HVAC

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Balancing Air Systems:
 - a. Constant-volume systems.

1.2 DEFINITIONS

- A. AABC: Associated Air Balance Council.
- B. NEBB: National Environmental Balancing Bureau.
- C. TAB: Testing, adjusting, and balancing.
- D. TABB: Testing, Adjusting, and Balancing Bureau.
- E. TAB Specialist: An entity engaged to perform TAB Work.

1.3 SUBMITTALS

- A. Certified TAB reports.

1.4 QUALITY ASSURANCE

- A. TAB Contractor Qualifications: Engage a TAB entity certified by AABC NEBB or TABB with a minimum of 15 years of successful testing, adjusting, and balancing experience.
 - 1. TAB Field Supervisor: Employee of the TAB contractor and certified by AABC NEBB or TABB.
 - 2. TAB Technician: Employee of the TAB contractor and who is certified by AABC NEBB or TABB as a TAB technician.
- B. Certify TAB field data reports and perform the following:
 - 1. Review field data reports to validate accuracy of data and to prepare certified TAB reports.
 - 2. Certify that the TAB team complied with the approved TAB plan and the procedures specified and referenced in this Specification.
- C. TAB Report Forms: Use standard TAB contractor's forms approved by Architect.

- D. Instrumentation Type, Quantity, Accuracy, and Calibration: As described in ASHRAE 111, Section 5, "Instrumentation."

1.5 PROJECT CONDITIONS

- A. Full Owner Occupancy: Owner will occupy the site and existing building during entire TAB period. Cooperate with Owner during TAB operations to minimize conflicts with Owner's operations.

1.6 COORDINATION

- A. Notice: Provide seven days' advance notice for each test. Include scheduled test dates and times.
- B. Perform TAB after leakage and pressure tests on air and water distribution systems have been satisfactorily completed.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine the Contract Documents to become familiar with Project requirements and to discover conditions in systems' designs that may preclude proper TAB of systems and equipment.
- B. Examine systems for installed balancing devices, such as test ports, gage cocks, thermometer wells, flow-control devices, balancing valves and fittings, and manual volume dampers. Verify that locations of these balancing devices are accessible.
- C. Examine the approved submittals for HVAC systems and equipment.
- D. Examine design data including HVAC system descriptions, statements of design assumptions for environmental conditions and systems' output, and statements of philosophies and assumptions about HVAC system and equipment controls.

- E. Examine equipment performance data including fan and pump curves.
 - 1. Relate performance data to Project conditions and requirements, including system effects that can create undesired or unpredicted conditions that cause reduced capacities in all or part of a system.
 - 2. Calculate system-effect factors to reduce performance ratings of HVAC equipment when installed under conditions different from the conditions used to rate equipment performance. To calculate system effects for air systems, use tables and charts found in AMCA 201, "Fans and Systems," or in SMACNA's "HVAC Systems - Duct Design." Compare results with the design data and installed conditions.
- F. Examine system and equipment installations and verify that field quality-control testing, cleaning, and adjusting specified in individual Sections have been performed.
- G. Examine test reports specified in individual system and equipment Sections.
- H. Examine HVAC equipment and filters and verify that bearings are greased, belts are aligned and tight, and equipment with functioning controls is ready for operation.
- I. Examine terminal units, such as variable-air-volume boxes, and verify that they are accessible and their controls are connected and functioning.
- J. Examine heat-transfer coils for correct piping connections and for clean and straight fins.
- K. Examine operating safety interlocks and controls on HVAC equipment.
- L. Report deficiencies discovered before and during performance of TAB procedures. Observe and record system reactions to changes in conditions. Record default set points if different from indicated values.

3.2 PREPARATION

- A. Prepare a TAB plan that includes strategies and step-by-step procedures.

- B. Complete system-readiness checks and prepare reports. Verify the following:
 - 1. Permanent electrical-power wiring is complete.
 - 2. Automatic temperature-control systems are operational.
 - 3. Equipment and duct access doors are securely closed.
 - 4. Balance, smoke, and fire dampers are open.
 - 5. Ceilings are installed in critical areas where air-pattern adjustments are required and access to balancing devices is provided.
 - 6. Windows and doors can be closed so indicated conditions for system operations can be met.

3.3 GENERAL PROCEDURES FOR TESTING AND BALANCING

- A. Perform testing and balancing procedures on each system according to the procedures contained in ASHRAE 111 and in this Section.
 - 1. Comply with requirements in ASHRAE 62.1-2004, Section 7.2.2, "Air Balancing."
- B. Cut insulation, ducts, pipes, and equipment cabinets for installation of test probes to the minimum extent necessary for TAB procedures.
 - 1. After testing and balancing, patch probe holes in ducts with same material and thickness as used to construct ducts.
 - 2. Install and join new insulation that matches removed materials. Restore insulation, coverings, vapor barrier, and finish according to Division 23 Section "HVAC Insulation."
- C. Mark equipment and balancing devices, including damper-control positions, valve position indicators, fan-speed-control levers, and similar controls and devices, with paint or other suitable, permanent identification material to show final settings.
- D. Take and report testing and balancing measurements in inch-pound (IP) units.

3.4 GENERAL PROCEDURES FOR BALANCING AIR SYSTEMS

- A. Prepare test reports for both fans and outlets. Obtain manufacturer's outlet factors and recommended testing procedures. Crosscheck the summation of required outlet volumes with required fan volumes.
- B. Prepare schematic diagrams of systems' "as-built" duct layouts.
- C. Determine the best locations in main and branch ducts for accurate duct-airflow measurements.
- D. Check airflow patterns from the outdoor-air louvers and dampers and the return- and exhaust-air dampers through the supply-fan discharge and mixing dampers.
- E. Locate start-stop and disconnect switches, electrical interlocks, and motor starters.

- F. Verify that motor starters are equipped with properly sized thermal protection.
- G. Check dampers for proper position to achieve desired airflow path.
- H. Check for airflow blockages.
- I. Check condensate drains for proper connections and functioning.
- J. Check for proper sealing of air-handling-unit components.
- K. Verify that air duct system is sealed as specified in Division 23 Section "Metal Ducts."

3.5 PROCEDURES FOR CONSTANT-VOLUME AIR SYSTEMS

- A. Adjust fans to deliver total indicated airflows within the maximum allowable fan speed listed by fan manufacturer.
 - 1. Measure total airflow.
 - a. Where sufficient space in ducts is unavailable for Pitot-tube traverse measurements, measure airflow at terminal outlets and inlets and calculate the total airflow.
 - 2. Measure fan static pressures as follows to determine actual static pressure:
 - a. Measure outlet static pressure as far downstream from the fan as practical and upstream from restrictions in ducts such as elbows and transitions.
 - b. Measure static pressure directly at the fan outlet or through the flexible connection.
 - c. Measure inlet static pressure of single-inlet fans in the inlet duct as near the fan as possible, upstream from the flexible connection, and downstream from duct restrictions.
 - d. Measure inlet static pressure of double-inlet fans through the wall of the plenum that houses the fan.
 - 3. Measure static pressure across each component that makes up an air-handling unit, rooftop unit, and other air-handling and -treating equipment.
 - a. Report the cleanliness status of filters and the time static pressures are measured.
 - 4. Review Record Documents to determine variations in design static pressures versus actual static pressures. Calculate actual system-effect factors. Recommend adjustments to accommodate actual conditions.

5. Obtain approval from Architect for adjustment of fan speed higher or lower than indicated speed. Comply with requirements in Division 23 Sections for air-handling units for adjustment of fans, belts, and pulley sizes to achieve indicated air-handling-unit performance.

6. Do not make fan-speed adjustments that result in motor overload. Consult equipment manufacturers about fan-speed safety factors. Modulate dampers and measure fan-motor amperage to ensure that no overload will occur. Measure amperage in full-cooling, full-heating, economizer, and any other operating mode to determine the maximum required brake horsepower.

3.6 PROCEDURES FOR MOTORS

A. Motors, 1/2 HP and Larger: Test at final balanced conditions and record the following data:

1. Manufacturer's name, model number, and serial number.
2. Motor horsepower rating.
3. Motor rpm.
4. Efficiency rating.
5. Nameplate and measured voltage, each phase.
6. Nameplate and measured amperage, each phase.
7. Starter thermal-protection-element rating.

B. Motors Driven by Variable-Frequency Controllers: Test for proper operation at speeds varying from minimum to maximum. Test the manual bypass of the controller to prove proper operation. Record observations including name of controller manufacturer, model number, serial number, and nameplate data.

3.7 PROCEDURES FOR CONDENSING UNITS

- A. Verify proper rotation of fans.
- B. Measure entering- and leaving-air temperatures.
- C. Record compressor data.

3.8 TOLERANCES

A. Set HVAC system's air flow rates within the following tolerances:

1. Supply, Return, and Exhaust Fans and Equipment with Fans: Plus or minus 10 percent.
2. Air Outlets and Inlets: Plus or minus 10 percent.
3. Outside Air Rates: Plus or minus 10 percent.

3.9 REPORTING

- A. Initial Construction-Phase Report: Based on examination of the Contract Documents as specified in "Examination" Article, prepare a report on the adequacy of design for systems' balancing devices. Recommend changes and additions to systems' balancing devices to facilitate proper performance measuring and balancing. Recommend changes and additions to HVAC systems and general construction to allow access for performance measuring and balancing devices.

3.10 FINAL REPORT

- A. General: Prepare a certified written report; tabulate and divide the report into separate sections for tested systems and balanced systems.
 - 1. Include a certification sheet at the front of the report's binder, signed and sealed by the certified testing and balancing engineer.
 - 2. Include a list of instruments used for procedures, along with proof of calibration.
- B. Final Report Contents: In addition to certified field-report data, include the following:
 - 1. Fan curves.
 - 2. Manufacturers' test data.
 - 3. Field test reports prepared by system and equipment installers.
 - 4. Other information relative to equipment performance; do not include Shop Drawings and product data.
- C. General Report Data: In addition to form titles and entries, include the following data:
 - 1. Title page.
 - 2. Name and address of the TAB contractor.
 - 3. Project name.
 - 4. Project location.
 - 5. Architect's name and address.
 - 6. Engineer's name and address.
 - 7. Contractor's name and address.
 - 8. Report date.
 - 9. Signature of TAB supervisor who certifies the report.
 - 10. Table of Contents with the total number of pages defined for each section of the report. Number each page in the report.
 - 11. Summary of contents including the following:
 - a. Indicated versus final performance.
 - b. Notable characteristics of systems.
 - c. Description of system operation sequence if it varies from the Contract Documents.
 - 12. Nomenclature sheets for each item of equipment.
 - 13. Data for terminal units, including manufacturer's name, type, size, and fittings.

14. Notes to explain why certain final data in the body of reports vary from indicated values.
- D. System Diagrams: Include schematic layouts of air distribution systems. Present each system with single-line diagram and include the following:
1. Quantities of outdoor, supply, return, and exhaust airflows.
 2. Duct, outlet, and inlet sizes.
 3. Terminal units.
 4. Balancing stations.
 5. Position of balancing devices.

END OF SECTION

SECTION 233113
METAL DUCTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Rectangular ducts and fittings.
2. Sheet metal materials.
3. Sealants and gaskets.
4. Hangers and supports.

B. Related Sections:

1. Division 23 Section "Testing, Adjusting, and Balancing for HVAC" for testing, adjusting, and balancing requirements for metal ducts.

1.2 PERFORMANCE REQUIREMENTS

- A. Delegated Duct Design: Duct construction, including sheet metal thicknesses, seam and joint construction, reinforcements, and hangers and supports, shall comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible" and performance requirements and design criteria indicated in "Duct Schedule" Article.
- B. Structural Performance: Duct hangers and supports and seismic restraints shall withstand the effects of gravity and seismic loads and stresses within limits and under conditions described in SMACNA's "HVAC Duct Construction Standards - Metal and Flexible" and ASCE/SEI 7.
- C. Airstream Surfaces: Surfaces in contact with the airstream shall comply with requirements in ASHRAE 62.1-2004.

1.3 SUBMITTALS

A. Delegated-Design Submittal:

1. Sheet metal thicknesses.
2. Joint and seam construction and sealing.
3. Reinforcement details and spacing.
4. Materials, fabrication, assembly, and spacing of hangers and supports.

B. Product Data: For each type of product indicated.

1.4 QUALITY ASSURANCE

- A. ASHRAE Compliance: Applicable requirements in ASHRAE 62.1-2004, Section 5 - "Systems and Equipment" and Section 7 - "Construction and System Start-Up."
- B. ASHRAE/IESNA Compliance: Applicable requirements in ASHRAE/IESNA 90.1-2004, Section 6.4.4 - "HVAC System Construction and Insulation."

PART 2 - PRODUCTS

2.1 RECTANGULAR DUCTS AND FITTINGS

- A. General Fabrication Requirements: Comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible" based on indicated static-pressure class unless otherwise indicated.
- B. Transverse Joints: Select joint types and fabricate according to SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Figure 1-4, "Transverse (Girth) Joints," for static-pressure class, applicable sealing requirements, materials involved, duct-support intervals, and other provisions in SMACNA's "HVAC Duct Construction Standards - Metal and Flexible." Provide Drive Slip or Hemmed "S" Slip or approved equal.
- C. Longitudinal Seams: Select seam types and fabricate according to SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Figure 1-5, "Longitudinal Seams - Rectangular Ducts," for static-pressure class, applicable sealing requirements, materials involved, duct-support intervals, and other provisions in SMACNA's "HVAC Duct Construction Standards - Metal and Flexible." Provide Drive Slip or Hemmed "S" Slip or approved equal.
- D. Elbows, Transitions, Offsets, Branch Connections, and Other Duct Construction: Select types and fabricate according to SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Chapter 2, "Fittings and Other Construction," for static-pressure class, applicable sealing requirements, materials involved, duct-support intervals, and other provisions in SMACNA's "HVAC Duct Construction Standards - Metal and Flexible."

2.2 SHEET METAL MATERIALS

- A. General Material Requirements: Comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible" for acceptable materials, material thicknesses, and duct construction methods unless otherwise indicated. Sheet metal materials shall be free of pitting, seam marks, roller marks, stains, discolorations, and other imperfections.
- B. Stainless-Steel Sheets: Comply with ASTM A 480/A 480M, Type 304 or 316, as indicated in the "Duct Schedule" Article; cold rolled, annealed, sheet. Exposed surface finish shall be No. 2B, No. 2D, No. 3, or No. 4 as indicated in the "Duct Schedule" Article.
- C. Reinforcement Shapes and Plates: ASTM A 36/A 36M, steel plates, shapes, and bars; black and galvanized.
 - 1. Where black- and galvanized-steel shapes and plates are used to reinforce aluminum ducts, isolate the different metals with butyl rubber, neoprene, or EPDM gasket materials.
- D. Tie Rods: Galvanized steel, 1/4-inch (6-mm) minimum diameter for lengths 36 inches (900 mm) or less; 3/8-inch (10-mm) minimum diameter for lengths longer than 36 inches (900 mm).

2.3 SEALANT AND GASKETS

- A. General Sealant and Gasket Requirements: Surface-burning characteristics for sealants and gaskets shall be a maximum flame-spread index of 25 and a maximum smoke-developed index of 50 when tested according to UL 723; certified by an NRTL.
- B. Water-Based Joint and Seam Sealant:
 - 1. Application Method: Brush on.
 - 2. Solids Content: Minimum 65 percent.
 - 3. Shore A Hardness: Minimum 20.
 - 4. Water resistant.
 - 5. Mold and mildew resistant.
 - 6. VOC: Maximum 75 g/L (less water).
 - 7. Maximum Static-Pressure Class: 10-inch wg (2500 Pa), positive and negative.
 - 8. Service: Indoor or outdoor.
 - 9. Substrate: Compatible with galvanized sheet steel (both PVC coated and bare), stainless steel, or aluminum sheets.
- C. Flanged Joint Sealant: Comply with ASTM C 920.
 - 1. General: Single-component, acid-curing, silicone, elastomeric.

2. Type: S.
 3. Grade: NS.
 4. Class: 25.
 5. Use: O.
 6. For indoor applications, use sealant that has a VOC content of 250 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
- D. Flange Gaskets: Butyl rubber, neoprene, or EPDM polymer with polyisobutylene plasticizer.

2.4 HANGERS AND SUPPORTS

- A. Hanger Rods for Noncorrosive Environments: Cadmium-plated steel rods and nuts.
- B. Hanger Rods for Corrosive Environments: Electrogalvanized, all-thread rods or galvanized rods with threads painted with zinc-chromate primer after installation.
- C. Strap and Rod Sizes: Comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Table 4-1 (Table 4-1M), "Rectangular Duct Hangers Minimum Size," and Table 4-2, "Minimum Hanger Sizes for Round Duct."
- D. Steel Cables for Stainless-Steel Ducts: Stainless steel complying with ASTM A 492.
- E. Steel Cable End Connections: Cadmium-plated steel assemblies with brackets, swivel, and bolts designed for duct hanger service; with an automatic-locking and clamping device.
- F. Duct Attachments: Sheet metal screws, blind rivets, or self-tapping metal screws; compatible with duct materials.
- G. Trapeze and Riser Supports:
 1. Supports for Stainless-Steel Ducts: Stainless-steel shapes and plates.

PART 3 - EXECUTION

3.1 DUCT INSTALLATION

- A. Drawing plans, schematics, and diagrams indicate general location and arrangement of duct system. Indicated duct locations, configurations, and arrangements were used to size ducts and calculate friction loss for air-handling equipment sizing and for other design considerations. Install duct systems as indicated unless deviations to layout are approved on Shop Drawings and Coordination Drawings.
- B. Install ducts according to SMACNA's "HVAC Duct Construction Standards - Metal and Flexible" unless otherwise indicated.
- C. Install ducts with fewest possible joints.

- D. Install factory- or shop-fabricated fittings for changes in direction, size, and shape and for branch connections.
- E. Unless otherwise indicated, install ducts vertically and horizontally, and parallel and perpendicular to building lines.
- F. Install ducts close to walls, overhead construction, columns, and other structural and permanent enclosure elements of building.
- G. Install ducts with a clearance of 1 inch (25 mm), plus allowance for insulation thickness.
- H. Route ducts to avoid passing through transformer vaults and electrical equipment rooms and enclosures.
- I. Where ducts pass through non-fire-rated interior partitions and exterior walls and are exposed to view, cover the opening between the partition and duct or duct insulation with sheet metal flanges of same metal thickness as the duct. Overlap openings on four sides by at least 1-1/2 inches (38 mm).
- J. Protect duct interiors installed and/or stored on site from moisture, construction debris and dust, and other foreign materials.
 - 1. Cover and seal open ends of ducts with plastic wrap and duct tape.
 - 2. Turn off ventilation system and protect duct interiors from dust infiltration during dust producing activities (e.g. demolition, drywall installation, finishing).
 - 3. At the end of each workday, cover and seal open ends or openings of installed ducts with plastic wrap and duct tape.

3.2 INSTALLATION OF EXPOSED DUCTWORK

- A. Protect ducts exposed in finished spaces from being dented, scratched, or damaged.
- B. Trim duct sealants flush with metal. Create a smooth and uniform exposed bead. Do not use two-part tape sealing system.
- C. Grind welds to provide smooth surface free of burrs, sharp edges, and weld splatter. When welding stainless steel with a No. 3 or 4 finish, grind the welds flush, polish the exposed welds, and treat the welds to remove discoloration caused by welding.
- D. Maintain consistency, symmetry, and uniformity in the arrangement and fabrication of fittings, hangers and supports, duct accessories, and air outlets.
- E. Repair or replace damaged sections and finished work that does not comply with these requirements.

3.3 DUCT SEALING

- A. Seal ducts for duct static-pressure, seal classes, and leakage classes specified in "Duct Schedule" Article according to SMACNA's "HVAC Duct Construction Standards - Metal and Flexible."
- B. Seal ducts according to SMACNA's "HVAC Duct Construction Standards - Metal and Flexible."

3.4 HANGER AND SUPPORT INSTALLATION

- A. Comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Chapter 4, "Hangers and Supports."
- B. Building Attachments: Concrete inserts, powder-actuated fasteners, or structural-steel fasteners appropriate for construction materials to which hangers are being attached.
- C. Hanger Spacing: Comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Table 4-1 (Table 4-1M), "Rectangular Duct Hangers Minimum Size," and Table 4-2, "Minimum Hanger Sizes for Round Duct," for maximum hanger spacing; install hangers and supports within 24 inches (610 mm) of each elbow and within 48 inches (1200 mm) of each branch intersection.
- D. Hangers Exposed to View: Threaded rod and angle or channel supports.
- E. Support vertical ducts with steel angles or channel secured to the sides of the duct with welds, bolts, sheet metal screws, or blind rivets; support at each floor and at a maximum intervals of 16 feet (5 m).
- F. Install upper attachments to structures. Select and size upper attachments with pull-out, tension, and shear capacities appropriate for supported loads and building materials where used.

3.5 CONNECTIONS

- A. Make connections to equipment with flexible connectors complying with Division 23 Section "Air Duct Accessories."
- B. Comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible" for branch, outlet and inlet, and terminal unit connections.

3.6 PAINTING

- A. Paint exterior of metal ducts that are visible. Paint materials and application requirements are specified in Division 09 painting Sections.

3.7 DUCT CLEANING

- A. Clean new duct system(s) before testing, adjusting, and balancing.
- B. Clean the following components by removing surface contaminants and deposits:
 - 1. Air outlets and inlets (registers, grilles, and diffusers).
 - 2. Supply, return, and exhaust fans including fan housings, plenums (except ceiling supply and return plenums), scrolls, blades or vanes, shafts, baffles, dampers, and drive assemblies.
 - 3. Air-handling unit internal surfaces and components including coil section, condensate drain pans, filters and filter sections, and condensate collectors and drains.
 - 4. Coils and related components.
 - 5. Return-air ducts, dampers, actuators, and turning vanes except in ceiling plenums and mechanical equipment rooms.
 - 6. Supply-air ducts, dampers, actuators, and turning vanes.
 - 7. Dedicated exhaust and ventilation components.

3.8 START UP

- A. Air Balance: Comply with requirements in Division 23 Section "Testing, Adjusting, and Balancing for HVAC."

3.9 DUCT SCHEDULE

- A. Fabricate ducts with stainless-steel sheet except as otherwise indicated.
- B. Exhaust Ducts:
 - 1. Ducts Connected to Exhaust Fans:
 - a. Type 304, stainless-steel sheet, No. 3 finish.
 - b. Pressure Class: Negative 2-inch wg (500 Pa).
 - c. Minimum SMACNA Seal Class: B if negative pressure, and A if positive pressure.
 - d. SMACNA Leakage Class for Rectangular: 12.
 - e. SMACNA Leakage Class for Round and Flat Oval: 12.
- C. Outdoor-Air (Not Filtered, Heated, or Cooled) Ducts:
 - 1. Ducts Connected to Fan Coil Units, Furnaces, Heat Pumps, and Terminal Units:
 - a. Pressure Class: Positive or negative 1-inch wg (250 Pa).
 - b. Minimum SMACNA Seal Class: A.
 - c. SMACNA Leakage Class for Rectangular: 12.
 - d. SMACNA Leakage Class for Round and Flat Oval: 12.

D. Intermediate Reinforcement:

1. Galvanized-Steel Ducts: Galvanized steel or carbon steel coated with zinc-chromate primer.
2. Stainless-Steel Ducts:
 - a. Exposed to Airstream: Match duct material.
 - b. Not Exposed to Airstream: Match duct material.

E. Elbow Configuration:

1. Rectangular Duct: Comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Figure 2-2, "Rectangular Elbows."
 - 1) Radius Type RE 1 with minimum 1.5 radius-to-diameter ratio.
 - 2) Radius Type RE 3 with minimum 1.0 radius-to-diameter ratio and two vanes.
 - 3) Mitered Type RE 2 with vanes complying with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Figure 2-3, "Vanes and Vane Runners," and Figure 2-4, "Vane Support in Elbows."

F. Branch Configuration:

1. Rectangular Duct: Comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Figure 2-6, "Branch Connections" and details provided on drawings.
 - a. Rectangular Main to Rectangular Branch: 45-degree entry.
 - b. Rectangular Main to Round Branch: 45 degree Lead-In, Low-loss.

END OF SECTION

SECTION 233423
HVAC POWER VENTILATORS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Centrifugal roof ventilators.
 - 2. In-line centrifugal fans.

1.3 PERFORMANCE REQUIREMENTS

- A. Project Altitude: Base fan-performance ratings on sea level.
- B. Operating Limits: Classify according to AMCA 99.

1.4 SUBMITTALS

- A. Product Data: Include rated capacities, furnished specialties, and accessories for each type of product indicated and include the following:
 - 1. Certified fan performance curves with system operating conditions indicated.
 - 2. Certified fan sound-power ratings.
 - 3. Motor ratings and electrical characteristics, plus motor and electrical accessories.
 - 4. Material thickness and finishes, including color charts.
 - 5. Dampers, including housings, linkages, and operators.
 - 6. Roof curbs.
 - 7. Fan speed controllers.
- B. Operation and Maintenance Data: For power ventilators to include in emergency, operation, and maintenance manuals.

1.5 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

- B. AMCA Compliance: Products shall comply with performance requirements and shall be licensed to use the AMCA-Certified Ratings Seal.
- C. NEMA Compliance: Motors and electrical accessories shall comply with NEMA standards.
- D. UL Standard: Power ventilators shall comply with UL 705.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver fans as factory-assembled unit, to the extent allowable by shipping limitations, with protective crating and covering.
- B. Disassemble and reassemble units, as required for moving to final location, according to manufacturer's written instructions.
- C. Lift and support units with manufacturer's designated lifting or supporting points.

1.7 COORDINATION

- A. Coordinate size and location of structural-steel support members.
- B. Coordinate installation of roof curbs, equipment supports, and roof penetrations as detailed on plans

PART 2 - PRODUCTS

2.1 CENTRIFUGAL ROOF VENTILATORS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Greenheck.
 - 2. Loren Cook Company.
 - 3. Twin City
 - 4. Penn Ventilation.
- B. Description: Direct-driven centrifugal fans consisting of housing, wheel, fan shaft, bearings, motor and disconnect switch, drive assembly, curb base, and accessories.
- C. Housing: Removable, spun-aluminum, dome top and outlet baffle; square, one-piece, aluminum base with venturi inlet cone.
 - 1. Upblast Units: Provide spun-aluminum discharge baffle to direct discharge air upward, with rain and snow drains.
- D. Fan Wheels: Aluminum hub and wheel with backward-inclined blades.

- E. Direct Drive Motors:
 - 1. Open type motor enclosure with DC electronic commutation type motor (ECM) specifically designed for fan applications.
 - 2. Motors are permanently lubricated heavy duty ball bearing type to match with the fan load.
 - 3. Motor speed controllable down to 20% of full speed, controlled by either a potentiometer dial mounted at the motor or by a 0-10 VDC signal
 - 4. Motor shall be a minimum 85% efficient at all speeds.
- F. Accessories:
 - 1. Disconnect Switch: Nonfusible type, with thermal-overload protection mounted inside fan housing, factory wired through an internal aluminum conduit.
 - 2. Bird Screens: Removable, 1/2-inch mesh, aluminum or brass wire.
 - 3. Dampers: Counterbalanced, parallel-blade, backdraft dampers mounted in curb base; factory set to close when fan stops.
- G. Roof Curbs: Galvanized steel; mitered and welded corners; 1-1/2-inch-thick, rigid, fiberglass insulation adhered to inside walls; and 1-1/2-inch wood nailer. Size as required to suit roof opening and fan base.
 - 1. Configuration: Self-flashing without a cant strip, with mounting flange
 - 2. Overall Height: 14 inches minimum.
 - 3. Pitch Mounting: Manufacture curb for roof slope.

2.2 IN-LINE CENTRIFUGAL FANS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Greenheck
 - 2. Loren Cook Company.
 - 3. Twin City.
 - 4. Penn Ventilation.
- B. Description: In-line, direct-driven centrifugal fans consisting of housing, wheel, outlet guide vanes, fan shaft, bearings, motor and disconnect switch, drive assembly, mounting brackets, and accessories.
- C. Housing: Split, spun aluminum with aluminum straightening vanes, inlet and outlet flanges, and support bracket adaptable to floor, side wall, or ceiling mounting.
- D. Direct-Driven Units: Motor mounted in airstream, factory wired to disconnect switch located on outside of fan housing.
- E. Direct Drive Motors:
 - 1. Open type motor enclosure with DC electronic commutation type motor (ECM) specifically designed for fan applications.
 - 2. Motors are permanently lubricated heavy duty ball bearing type to match with the fan load.

3. Motor speed controllable down to 20% of full speed, controlled by either a potentiometer dial mounted at the motor or by a 0-10 VDC signal
 4. Motor shall be a minimum 85% efficient at all speeds.
- F. Fan Wheels: Aluminum, airfoil blades welded to aluminum hub.
- G. Accessories:
1. Companion Flanges: For inlet and outlet duct connections.

2.3 SOURCE QUALITY CONTROL

- A. Sound-Power Level Ratings: Comply with AMCA 301, "Methods for Calculating Fan Sound Ratings from Laboratory Test Data." Factory test fans according to AMCA 300, "Reverberant Room Method for Sound Testing of Fans." Label fans with the AMCA-Certified Ratings Seal.
- B. Fan Performance Ratings: Establish flow rate, pressure, power, air density, speed of rotation, and efficiency by factory tests and ratings according to AMCA 210, "Laboratory Methods of Testing Fans for Rating."

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install power ventilators level and plumb.
- B. Secure roof-mounting fans to roof curbs with cadmium-plated hardware. Refer to plans for installation of roof curbs.
- C. Support suspended inline fans and ceiling units from structure using threaded steel rods and elastomeric hangers.
- D. Install units with clearances for service and maintenance.
- E. Label units according to requirements specified in Division 23 Section "Identification for HVAC Piping and Equipment."

3.2 CONNECTIONS

- A. Duct installation and connection requirements are specified in other Division 23 Sections. Drawings indicate general arrangement of ducts and duct accessories.
- B. Install ducts adjacent to power ventilators to allow service and maintenance.
- C. Ground equipment according to Division 26 Section "Grounding and Bonding for Electrical Systems."

- D. Connect wiring according to Division 26 Section "Low-Voltage Electrical Power Conductors and Cables."

3.3 FIELD QUALITY CONTROL

- A. Perform the following field tests and inspections and prepare test reports:
 - 1. Verify that shipping, blocking, and bracing are removed.
 - 2. Verify that unit is secure on mountings and supporting devices and that connections to ducts and electrical components are complete. Verify that proper thermal-overload protection is installed in motors, starters, and disconnect switches.
 - 3. Verify that cleaning and adjusting are complete.
 - 4. Disconnect fan drive from motor, verify proper motor rotation direction, and verify fan wheel free rotation and smooth bearing operation.
 - 5. Adjust damper linkages for proper damper operation.
 - 6. Verify lubrication for bearings and other moving parts.
 - 7. Verify that manual and automatic volume control and fire and smoke dampers in connected ductwork systems are in fully open position.
 - 8. Disable automatic temperature-control operators, energize motor and adjust fan to indicated rpm, and measure and record motor voltage and amperage.
 - 9. Shut unit down and reconnect automatic temperature-control operators.
 - 10. Remove and replace malfunctioning units and retest as specified above.
- B. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.

3.4 ADJUSTING

- A. Adjust damper linkages for proper damper operation.
- B. Refer to Division 23 Section "Testing, Adjusting, and Balancing for HVAC" for testing, adjusting, and balancing procedures.
- C. Adjust fan motor speed settings as required to achieve design airflow.
- D. Lubricate bearings.

END OF SECTION

SECTION 238126
SPLIT-SYSTEM AIR-CONDITIONERS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes ductless single zone split-system air-conditioning and heat pump units consisting of separate evaporator-fan and compressor-condenser components. Units are designed for exposed or concealed mounting, and may be connected to ducts.

1.3 SUBMITTALS

- A. Product Data: Include rated capacities, furnished specialties, and accessories for each type of product indicated. Include performance data in terms of capacities, outlet velocities, static pressures, sound power characteristics, motor requirements, and electrical characteristics.
- B. Shop Drawings: Diagram power, signal, and control wiring.
- C. Operation and Maintenance Data: For split-system air-conditioning units to include in emergency, operation, and maintenance manuals.
- D. Warranty: Special warranty specified in this Section.

1.4 QUALITY ASSURANCE

- A. Product Options: Drawings indicate size, profiles, and dimensional requirements of split-system units and are based on the specific system indicated. Refer to Division 01 Section "Product Requirements."
- B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- C. ASHRAE Compliance: Applicable requirements in ASHRAE 62.1-2004, Section 5 - "Systems and Equipment" and Section 7 - "Construction and Startup."

- D. ASHRAE/IESNA 90.1-2004 Compliance: Applicable requirements in ASHRAE/IESNA 90.1-2004, Section 6 - "Heating, Ventilating, and Air-Conditioning."

1.5 COORDINATION

- A. Coordinate size, location, and connection details with roof curbs, equipment supports, and roof penetrations specified in Division 07 Section "Roof Accessories."

1.6 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of split-system air-conditioning units that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Trane/Mitsubishi.
 - 2. Carrier.
 - 3. Daikin AC.

2.2 WALL-MOUNTING, EVAPORATOR-FAN COMPONENTS

- A. Cabinet: Heavy duty ABS and high impact polystyrene plastic with removable panels on front and ends in color selected by Architect, and discharge drain pans with drain connection.
 - 1. Airstream Surfaces: Surfaces in contact with the airstream shall comply with requirements in ASHRAE 62.1-2004.
 - 2. Drain Pan and Drain Connection: Comply with ASHRAE 62.1-2004.
- B. Refrigerant Coil: Copper tube, with mechanically bonded aluminum fins, complying with ARI 210/240, and with thermal-expansion valve.
- C. Fan: Direct drive, centrifugal fan.
- D. Fan Motors: Comply with requirements in Division 23 Section "Common Motor Requirements for HVAC Equipment."

1. Special Motor Features: Multitapped, multispeed with internal thermal protection and permanent lubrication.

E. Filters: Permanent, cleanable

2.3 AIR-COOLED, COMPRESSOR-CONDENSER COMPONENTS

- A. Casing: Steel, finished with baked enamel in manufacturers standard color, with removable panels for access to controls, weep holes for water drainage, and mounting holes in base. Provide brass service valves, fittings, and gage ports on exterior of casing.
- B. Compressor: Hermetically sealed with crankcase heater and mounted on vibration isolation. Compressor motor shall have thermal- and current-sensitive overload devices, start capacitor, relay, and contactor.
 1. Compressor Type: Twin Rotary.
 2. Digitally controlled inverter driven compressor motor with manual-reset high-pressure switch and automatic-reset low-pressure switch.
 3. Refrigerant: R-407C or R-410A.
- C. Refrigerant Coil: Copper tube, with mechanically bonded aluminum fins, complying with ARI 210/240, and with liquid subcooler.
- D. Heat Pump Components: Reversing valve and low-temperature air cut-off thermostat.
- E. Fan: Aluminum-propeller type, directly connected to motor.
- F. Motor: Permanently lubricated, with integral thermal-overload protection.
- G. Low Ambient Kit: Permits operation down to 45 deg F.
- H. Mounting Base: Steel.
- I. Minimum Energy Efficiency: Comply with ASHRAE/IESNA 90.1-2004, "Energy Standard for Buildings except Low-Rise Residential Buildings."

2.4 ACCESSORIES

- A. Thermostat: Wired wall mounted low voltage with subbase to control compressor and evaporator fan.
 1. Compressor time delay.
 2. 24-hour time control of system stop and start.
 3. Liquid-crystal display indicating temperature, set-point temperature, time setting, operating mode, and fan speed.
 4. Fan-speed selection, including auto setting.

- B. Automatic-reset timer to prevent rapid cycling of compressor.
- C. Refrigerant Line Kits: Soft-annealed copper suction and liquid lines factory cleaned, dried, pressurized, and sealed; factory-insulated suction line with flared fittings at both ends.
 - 1. Minimum Insulation Thickness: 1 inch thick where indoors, 1-1/2 inch thick with aluminum jacketing where outdoors.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install units level and plumb.
- B. Install evaporator-fan components using manufacturer's standard mounting devices securely fastened to building structure.
- C. Install roof-mounting compressor-condenser components on equipment supports as detailed on the drawings. Anchor units to supports with removable, cadmium-plated fasteners.
- D. Install and connect precharged refrigerant tubing to component's quick-connect fittings. Install tubing to allow access to unit.

3.2 CONNECTIONS

- A. Piping installation requirements are specified in other Division 23 Sections. Drawings indicate general arrangement of piping, fittings, and specialties.
- B. Install piping adjacent to unit to allow service and maintenance.
- C. Ground equipment according to Division 26 Section "Grounding and Bonding for Electrical Systems."
- D. Electrical Connections: Comply with requirements in Division 26 Sections for power wiring, switches, and motor controls.

3.3 FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust field-assembled components and equipment installation, including connections. Report results in writing.
- B. Perform the following field tests and inspections and prepare test reports:

1. Leak Test: After installation, charge system and test for leaks. Repair leaks and retest until no leaks exist.
 2. Operational Test: After electrical circuitry has been energized, start units to confirm proper motor rotation and unit operation.
 3. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
- C. Remove and replace malfunctioning units and retest as specified above.

3.4 STARTUP SERVICE

- A. Engage a factory-authorized service representative to perform startup service.
1. Complete installation and startup checks according to manufacturer's written instructions.

END OF SECTION

SECTION 260000
SUMMARY OF ELECTRICAL WORK

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections shall form a part of this Section, with the same force and effect as though repeated here.

1.2 SUMMARY

- A. In general, the Electrical Work described herein consists of the modification of existing electrical, lighting and signal systems in place and the installation of new electrical, lighting and signal systems equipment. All work shall be completed as directed by the Owner's authorized representative, in accordance with the Contract, Specifications and Construction Documents listed below.

1. General Conditions of Contract
2. Specifications:

Section	Title
260000	Summary of Electrical Work
260100	General Conditions for Electrical Work
260500	Basic Electrical Materials and Methods
260526	Grounding
265113	Lighting
266100	Lighting Control Systems
269500	Electrical Acceptance Tests

3. Electrical Construction Drawings as listed on the Drawing Index of the Construction Drawing set.
- B. This Section includes all necessary and required work to complete the construction as indicated in the Drawings, called for by notes or schedules, or specified herein. This work includes the furnishing of all permits, labor, supervision, services, materials, tools, equipment, testing, transportation and miscellaneous expenses, and the performance of all operations necessary to or incidental to completion of lawful and operating electrical power, lighting and signal systems, whether or not specifically mentioned.
- C. All work not shown in complete detail shall be installed per the 2022 California Electrical Code and in conformance with the best standard practice for the trade. Any deviation from the approved Drawings shall be submitted in writing to the Engineer and Owner for approval prior to the installation of the work in question.
- D. This work shall include, but not necessarily be limited to, the following elements:

1. Demolition and Phasing:
 - a. De-energize, disconnect and remove electrical feeds to devices and equipment being removed or relocated.
 - b. Disconnect and remove existing electrical facilities in areas of remodel and demolition that are not to be reused.
 - c. Make temporary feeds and connections to areas and equipment to allow phased construction and continuing operation.
2. Grounding
 - a. Testing of grounding system as outlined in Section 269500.
3. Building Electrical and Mechanical Systems:
 - a. Complete system of branch circuit wiring, conduit and distribution equipment for lighting, receptacles and power.
 - b. Electrical work associated with mechanical equipment, including conduit, conductor, disconnect switches and motor starters.
 - c. Furnish roof jacks for the weatherproofing of each electrical conduit penetrating the roof. Roof jacks shall be of the material specified for the specific roofing system and shall be delivered to the general contractor/construction manager for installation by the roofing contractor.
 - d. Connection to all equipment as furnished by other Sections of these Specifications or as listed on Drawings as furnished by Owner.
 - e. Remove, extend and re-install electrical devices in/on walls receiving new wall coverings.
 - f. Disconnect, demolish (where possible), and abandon all underground branch circuits and feeders.
 - g. Provide new branch circuits and feeders to replace those demolished. Circuits and feeders are to be hidden in walls where wall surfaces are being replaced.
 - h. Provide surface wireways for replacement of circuits and feeders where wall surfaces are to remain.
4. Lighting:
 - a. Replace existing Lighting System with new Lighting System as shown in Drawings, including fixtures, hangers, lamps, wall switches and lighting controls.
 - b. Provide complete lighting system including fixtures, hangers, lamps, wall switches and lighting controls.
 - c. Provide complete Lighting Control System consisting of motion sensors, timer switches and other controls as shown in Drawings.
5. Each system shall be terminated, tested and calibrated by a factory-authorized installer. This same installer shall terminate and test any peripheral equipment required for the operation of the system.

- 6. Equipment Connections
 - a. Provide equipment connections and coordination in accordance with manufacturer's recommendations and product submittals.
 - b. Provide equipment connections and disconnect switches as required for the following equipment:
 - 1) Mechanical equipment.
- E. Products supplied by Owner (or others, as noted) and installed by Contractor under this Section.
 - 1. None.
- F. Products supplied by Contractor but not installed under this Section.
 - 1. None.
- G. Work specifically **excluded** from this Division.
 - 1. Furnishing of motors.
- H. The following Sections contain requirements that relate to this Section:
 - 1. None
- I. It shall be understood that the existing conduit with its wiring is presently active (hot), in operation with its pertinent equipment.
- J. It shall be noted that this construction work will be planned and executed during ongoing operation of the facility. Any modifications to the existing equipment currently in operation shall be done during scheduled shutdowns and coordinated with the Owner's authorized representative and facility operating personnel to assure minimum downtime.
- K. In order to avoid disruption to facility operations, certain items of work must be completed before other items of work can be started. Contractor shall coordinate with the Owner's authorized representative as to the sequence of construction activities.
- L. Drawings showing equipment layout, conduit runs, conduit sizes, number of wires, wire types, wire groupings and size will not be furnished. It shall be the Contractor's responsibility to prepare such drawings in accordance with specifications, project requirements and code to facilitate the installation.
- M. Size, furnish, install and connect new conduit, conduit fittings, and seal fittings, expansion fittings and supports. This includes above grade as well as underground.
- N. Size, furnish, and install junction, pull and terminal boxes, in accordance to code requirements and as shown on the construction drawings.
- O. Size, furnish and install all supports required for conduit installation, supports required for the installation of the equipment furnished by this Contractor and equipment furnished by others but installed by this Contractor.

- P. Size and field cut the openings for conduits passing through building walls and/or floors. Close and seal all openings after conduits have been installed and/or removed. Closing shall be compatible with, or of the same material as wall and/or floor.
- Q. Furnish and install markers indicating voltage levels (e.g., 12.47 KV, 277/480V, 120/208V, etc.) for all of the electrical equipment such as motor control centers, local lighting panels, lighting transformers, power panels, switchboards, etc....
- R. Furnish and install new nameplates per specifications all disconnect switches, etc.
- S. Furnish and install wire tags in accordance with the specifications indicating wire number as shown on electrical schematics, one line, three-line diagrams and specifications.
- T. Furnish, install and connect all power, control and instrumentation cable, including all necessary cable lugs, connectors and terminations.
- U. Perform all testing per the Specifications (including generator cables) and report to Owner's field representative in a timely manner so as not to impede the scheduled completion of the Contract.
- V. Furnish all material, labor and testing equipment necessary to check out and test the complete power distribution, control and pneumatic systems for all process and utility equipment in strict accordance with specifications. This shall include check out/start up of systems and/or equipment as directed by Owner.
- W. Prime paint all uncoated carbon steel items furnished by Contractor.
- X. Energize low voltage services after testing equipment and wiring in accordance with manufacturer instructions and specifications.

PART 2 - NOT USED

PART 3 - NOT USED

END OF SECTION 260000

SECTION 260100
GENERAL CONDITIONS FOR ELECTRICAL WORK

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections shall form a part of this Section, with the same force and effect as though repeated here.

1.2 SUMMARY

- A. The provisions of this Section shall apply to all of the following Sections of Divisions 26-28 of these Specifications and shall be considered a part of these Sections.

1.3 QUALITY ASSURANCE

- A. All work and materials shall fully comply with current rules and regulations of all applicable codes. Nothing in these Drawings or Specifications shall be interpreted as to permit any work not in compliance with these codes. Where work is detailed and/or specified to a more restrictive standard or higher requirement, that standard or requirement shall govern such work. Applicable codes include, but are not limited to, the following:
 - 1. California Code of Regulations (CCR)
 - a. Title 8, Industrial Relations
 - b. Title 17, Public Health
 - c. Title 24, Building Standards
 - 2. 2022 California Building Code.
 - 3. 2022 California Fire Code.
 - 4. 2022 California Electrical Code.
 - 5. Local Codes.
- B. All electrical components, devices and accessories shall be listed with Underwriters Laboratories, Inc. (or other testing agency acceptable to authorities having jurisdiction), shall meet their requirements, shall bear their label wherever standards have been established and label service is regularly furnished by that agency, and shall be marked for intended use.

1.4 PERMITS, FEES AND TAXES

- A. The Contractor shall secure all necessary permits and pay all required fees and taxes. He shall notify the proper authorities and have the work inspected and tested as required by jurisdictional requirements, pay all charges in connection therewith, and shall present to the Owner properly signed certificates of inspection. Acceptance of the work will not be considered until such certificates have been delivered.
- B. The Owner shall pay all utility company charges related to the new services. This shall include any required street lighting charges.

1.5 TEMPORARY UTILITIES

- A. The Contractor shall fulfill utility requirements for and pay all one-time and monthly charges for temporary construction utility usage.
- B. There is no existing onsite power available to the Contractor for construction. The Contractor shall schedule his work such that the Medium and Low Voltage Electrical work is completed prior to needing onsite electrical power for jobsite trailers and/or construction equipment. The Contractor shall then use the Medium and Low Voltage power distribution system to provide construction power. The Contractor shall supply any supplemental temporary facilities required to provide construction power to the site (i.e. transformers, panels, outlet boxes).

1.6 EXISTING CONDITIONS

- A. The Contractor shall carefully examine the site and existing buildings, compare them with Drawings and Specifications, and shall have satisfied himself as to the conditions to be encountered during the performance of the work. No subsequent allowance shall be made on his behalf for any additional expense he may incur due to failure or neglect of Contractor to examine site and to include existing conditions in bid.
- B. Any work done as an addition, expansion, or remodel of an existing system shall be compatible with that system.
- C. The Contractor shall examine all record drawings made available by the Owner to locate existing underground systems, utilities, conduits, and pipes prior to installing the electrical distribution system. The Contractor shall also examine the site for possible locations of sprinkler pipes. Any damage done to the existing systems during the course of the electrical work, whose locations could be reasonably determined, shall be repaired to the satisfaction of the Owner and the utility or agency involved, at the expense of the Contractor.

1.7 CONDUCT OF THE WORK

- A. The Contractor shall maintain on the job a competent foreman or a superintendent at all times to superintend the Work.

1.8 INTERPRETATION OF DRAWINGS AND SPECIFICATIONS

- A. The Engineer's decision will be final on interpretation of the Drawings and Specifications. Whenever the words "AS MAY BE DIRECTED", "SUITABLE", or "APPROVED EQUAL", or other words of similar intent and meaning are used, implying that judgment is to be exercised, it is understood that it is in reference to the judgement of the Engineer.

1.9 SUBMITTALS

- A. See Specification Section 013300, SUBMITTAL PROCEDURES, for additional information and requirements.
- B. Shop Drawings and Product Data
 - 1. In addition to the provisions of Specification Section 013300, SUBMITTAL PROCEDURES, all **Shop Drawings and Product Data** shall comply with the following requirements:
 - a. The Contractor shall submit for review, complete sets of Shop Drawings and Product Data brochures for materials and equipment as required by each section of the Specifications.
 - b. All Shop Drawings and Product Data shall be submitted at one time in a neat and orderly fashion in a suitable binder with a Title Sheet including Project, Engineer and Contractor, Table of Contents, and indexed tabs dividing each group of materials or item of equipment. The Specification paragraph number for which they are proposed shall identify all items. The mark number as indicated on Drawings shall also identify all equipment and fixtures.
 - c. Shop Drawings and Product Data submittal shall include manufacturer's name and catalog numbers, dimensions, loads, and all other characteristics and accessories as listed in the Specifications or on the Drawings. All loads, characteristics, and accessories called for in the Specifications or on the Drawings shall be highlighted, circled or underlined on the Shop Drawings and Product Data. Descriptive literature shall be current factory brochures and submittal sheets.
 - d. FAX submittals are not acceptable.
 - e. Material or equipment shall not be ordered or installed until the Engineer processes the written review. Any item omitted from the submittal shall be provided as specified without substitution.
 - f. Prior to submission of the Shop Drawings and Project Data, Contractor shall review and certify that they meet the requirements of the Contract Documents.
 - g. A minimum period of two weeks, exclusive of transmittal time, will be required each time Shop Drawings and/or Product Data are submitted or resubmitted for review. The Contractor shall consider this time when scheduling a submittal date.

C. Submittal Review

1. Submittals will be reviewed for general conformance with the design concept, but this review does not guarantee quantity shown, nor does it supersede the responsibility of the Contractor to provide all materials, equipment and installation in accordance with the Drawings and Specifications.
2. The Contractor shall agree that Shop Drawings and Product Data submittals processed by the Engineer are not Change Orders and that the purpose of Shop Drawings and Product Data submittals by the Contractor is to demonstrate to the Engineer that the Contractor understands the design concept. The Contractor demonstrates his understanding by indicating which equipment and material he intends to furnish and install and by detailing the fabrication and installation methods he intends to use.
3. It shall be clearly understood that the noting of some errors, but the overlooking of others, **does not** grant the Contractor permission to proceed in error or in conflict with Contract Documents. The Contractor shall agree that if deviations, discrepancies or conflicts between Shop Drawings and Design Drawings and Specifications are discovered either prior to or after Shop Drawing submittals are processed by the Engineer, the Design Drawings and Specifications shall control and shall be followed.
4. If a resubmittal is required, submit a complete copy of the Engineer's review letter requiring such with the resubmittal.

D. Substitutions

1. See Specification Section 012500, SUBSTITUTION PROCEDURES, for additional information and requirements.
2. In addition to the provisions of Specification Section 012500, SUBSTITUTION PROCEDURES, **Substitutions** shall comply with the following requirements:
 - a. Manufacturers, model numbers and other pertinent information listed in the Specifications or on the Drawings are intended to establish minimum standards of performance, function and quality. Unless otherwise noted, the Contractor may submit equivalent compatible UL-listed equipment from other manufacturers for review, as long as the minimum standards are met.
 - b. Calculations and other detailed data indicating how the item was selected shall be included for items that are not specified. Data must be complete enough to permit detailed comparison of every significant feature, function, performance, and quality characteristic that is specified, scheduled or detailed. The comparison must prove that the substituted item equals or exceeds the requirements of the specified item.
 - c. The Contractor shall assume full responsibility that substituted items or procedures will meet the Specification and job requirements and shall be responsible for the cost of redesign and modifications to the work caused by these items.
 - d. At the Engineer's request, the Contractor shall furnish locations where equipment similar to the substituted equipment is installed and operating along with the user's phone numbers and contact person. Satisfactory

operation and service history will be considered in the acceptance or rejection of the proposed substitution.

E. Record Drawings

1. See Specification Section 017839, PROJECT RECORD DOCUMENTS, for additional information and requirements.
2. In addition to the provisions of Specification Section 017839, PROJECT RECORD DOCUMENTS, **Record Drawings** shall comply with the following requirements:
 - a. At the beginning of the Project, one print of each applicable Drawing will be issued to the Contractor specifically for use in preparing Record Drawings. As the work progresses, the Contractor shall maintain a record of all deviations in the work from that indicated on the Drawings. Final locations of all underground work shall be recorded by depth from finished grade and by offset distance from permanent surface structures, e.g. building, curbs, walks. The original Drawings will be made available to the Contractor, from which he shall have made, a set of reproducible Drawings. The Contractor shall then transfer the changes, notations, etc. from the marked-up prints to the reproducible Drawings. The Record Drawings (marked-up prints and reproducibles) shall be submitted to the Engineer for review, after first securing the Inspector's verification by signature.

F. Operations and Maintenance Instructions

1. See Specification Section 017823, OPERATION AND MAINTENANCE DATA, for additional information and requirements.
2. In addition to the provisions of Specification Section 017823, OPERATION AND MAINTENANCE DATA **Operations and Maintenance Instructions** shall comply with the following requirements:
 - a. Three copies of Operation and Maintenance Instructions and Wiring Diagrams for all equipment shall be submitted to the Engineer. All instructions shall be clearly identified by marking them with the same designation as the equipment item to which they apply (e.g. UPS-1). All Wiring Diagrams shall agree with reviewed Shop Drawings and indicate the exact field installation.
 - b. All instructions shall be submitted at the same time and shall be bound in a suitable binder with tabs dividing each type of equipment (e.g. MCC, UPS, etc.). Each binder shall be labeled indicating "Operating and Maintenance Instructions, Project Title, Contractor, Date" and shall have a Table of Contents listing all items included.
 - c. The Contractor shall verbally instruct the Owner's maintenance staff in the operation and maintenance of all equipment and systems. The Engineer's office shall be notified 48 hours prior to this meeting.
 - d. The Contractor shall prepare a letter indicating that all Operation and Maintenance Instructions (printed and verbal) have been given to the Owner, to the Owner's satisfaction. This letter shall be acknowledged (signed) by the Owner and submitted to the Engineer.

1.10 COORDINATION

- A. See Specification Section 013113, PROJECT MANAGEMENT AND COORDINATION, for additional information and requirements.
- B. Electrical Drawings are essentially diagrammatic, unless specifically dimensioned. Some work may be shown offset for clarity. The actual locations of all materials, conduits, fixtures, supports, etc. shall be carefully planned prior to installation of any work in order to avoid all interferences with each other, or with architectural, civil, mechanical, plumbing, structural or other elements.
- C. While the size and location of equipment are shown to scale wherever possible, all dimensions and conduit/conductor data shall be verified in the field.
- D. Where the work requires connections to be made to equipment furnished and set in place by others, the Contractor shall obtain exact rough-in dimensions from the manufacturer of such equipment and he shall install the connections in a neat and workmanlike manner.
- E. If discrepancies are discovered between Drawings and Specifications requirements, the more stringent requirement shall apply.
- F. All conflicts shall be called to the attention of the Architect and the Engineer prior to the installation of any work or the ordering of any equipment.
- G. No work shall be prefabricated or installed prior to this coordination. No additional compensation will be considered to the Contractor for any prefabrication or installation performed prior to this coordination.

1.11 SCHEDULING

- A. All work shall be scheduled subject to the review of the Architect, Engineer and the Owner. No work shall interfere with the operation of the existing facilities on or adjacent to the site. The Contractor shall have at all times, as conditions permit, a sufficient force of workmen and quantity of materials to install the work for which contracted, as rapidly as possible consistent with good work, and shall cause no delay to other Contractors engaged upon this project or to the Owner.

1.12 WARRANTY

- A. See Specification Section 017836, WARRANTIES, for additional information and requirements.
- B. Guarantee shall be in accordance with the General Conditions. These Specifications may extend the period of the guarantee for certain items. Where such extension are called for, or where items are normally provided with guarantee periods in excess of that called for in the General Conditions, the Certificate of Guarantee shall be furnished to the Owner through the Engineer.

- C. Contractor shall deliver to the Owner a written guarantee on all workmanship, materials and equipment for a period of one (1) year from the date of acceptance by the Owner. Any work found to be faulty during that period of time shall be corrected at once, upon written notification, at the expense of the Contractor. This shall include repair or replacement of the premises that may be damaged as a result of faulty work and materials furnished.

PART 2 - PRODUCTS

2.1 MATERIALS AND EQUIPMENT

- A. Materials and equipment shall be new unless otherwise noted.
- B. Materials and equipment of a given type shall be by the same manufacturer.
- C. Materials and equipment shall be covered or otherwise protected during construction as required to maintain the material and equipment in new factory condition until project acceptance. Upon completion of work and prior to final inspection, Contractor shall thoroughly clean all exposed fixtures, trim and equipment, and shall leave the entire installation in neat, clean, and useable condition. Materials and equipment shall be free of dents, scratches, marks, shipping tags, and all defacing features at time of project acceptance.
- D. The Contractor shall order materials and equipment in a timely manner to prevent any delay in the construction schedule, and he shall bear any penalty by vendors to meet schedules.
- E. Verify all dimensional information to ensure proper clearance for installation of equipment. Check all materials and equipment after arrival on the jobsite and verify compliance with the Contract Documents.

PART 3 - EXECUTION

3.1 DEMOLITION

- A. The Contractor shall protect existing electrical equipment and installations that are not indicated to be removed. If damaged or disturbed in the course of the Work, remove damaged portions and install new products of equal capacity, quality, and functionality.
- B. Exposed electrical equipment and installations, indicated to be demolished, shall be removed in their entirety.
- C. Buried raceway and wiring, indicated to be abandoned in place, shall be cut 2 inches below the surface of adjacent construction and removed in its entirety. Raceways abandoned in place shall be capped and disturbed surfaces shall be patched to match existing finish.
- D. Demolished material shall be removed from Project site.

- E. Components indicated for relocation shall be removed, stored, cleaned, reinstalled, reconnected, and made operational.

3.2 CUTTING AND PATCHING

- A. The Contractor shall perform all cutting and drilling, or other work, required to provide openings in walls, ceilings, floors, footings, foundations or other structures necessary to accomplish work under this Specification Division. The cutting shall be performed by skilled mechanics of the trades involved.
- B. Cutting or coring shall not impair the strength of the structure. Any damage resulting from this work shall be repaired at the Contractor's expense to the satisfaction of the Architect.
- C. Wherever possible, work shall be done in a concealed and neat workmanlike manner requiring the least amount of cutting of studs, plates and woodwork. Such cutting or notching is allowed only after consultation with and by permission of the Engineer.
- D. The Contractor shall repair and refinish disturbed finish materials and other surfaces to accurately match adjacent undisturbed new or existing structures and surfaces and shall install new fireproofing where existing fire-stopping has been disturbed. The repair and refinishing of materials and other surfaces shall be by skilled mechanics of the trades involved.
- E. All cuts are to be clean with no chipping. Where chipping occurs as a result of work in a cut area, a new clean cut shall be made immediately prior to patching.

3.3 EXCAVATION AND BACKFILL

- A. The Contractor shall provide excavation and backfilling required to complete work detailed in the Drawings and Specifications. Unless otherwise noted, minimum earth cover above top of conduit outside building walls shall be 24", not including base and paving in paved areas.
- B. The location of all underground facilities shall be verified with the Owner and utility companies prior to the commencement of any excavation.
- C. The Contractor shall contact Underground Service Alert (USA), at 1-800-642-2444, ten (10) days prior to doing any excavation or trenching, and shall advise USA of the work schedule and comply with their requirements.
- D. The Contractor shall notify the Owner 72 hours prior to any excavation.
- E. Provide all shoring required by site conditions. Where over-excavation occurs, provide compacted sand backfill. Where groundwater is encountered, remove to keep excavation dry, using well points and pumps as required.
- F. The conduit shall be laid on firm soil cut true and even to afford bearing for the full length of the barrel of the conduit.

- G. When the bottom uncovered at sub-grade is soft and, in the opinion of the Engineer, cannot support the conduit, a further depth shall be excavated and refilled to conduit foundation grade as required by the Engineer.
- H. Backfill (where concrete encasement is not required):
 - 1. Material 3" below, 3" around, and to 6" above conduit shall be sand. Place carefully around and on top of conduit, taking care not to disturb conduit. Consolidate with vibrator.
 - 2. Material from 6" Above Conduit to Grade shall be sandy or silty loam, free of lumps, laid in 6" layers, uniformly mixed to proper moisture and compacted to required density. If backfill is determined to be suitable and required compaction is demonstrated by laboratory test, water compaction in 6" layers may be used, subject to review by Engineer.
- I. No excavation below the level of, or adjacent to, foundations of footings shall be made except in a manner approved by the Structural Engineer.
- J. Compaction
 - 1. Prior to compaction, moisten or aerate each layer as necessary to provide optimum moisture content. Compact each layer to required percentage of maximum dry density or relative dry density for each area classification. Do not place backfill or fill material on surfaces that are muddy, frozen, or contain frost or ice.
 - 2. Under **Structures, Building Slabs, Walkways, and Steps**, compact top 6" of sub-grade and each layer of backfill or fill material at 92% maximum relative compaction. Compact upper 2' of backfill in utility trenches or other excavations to 92% minimum relative compaction.
 - 3. In **Lawns and Unpaved Areas**, compact top 6" of sub-grade material to 85% relative compaction.
 - 4. Under **Pavement**, compact top 8" of sub-grade immediately beneath the base course at 95% minimum relative compaction.

3.4 CONCRETE EQUIPMENT BASES

- A. The Contractor shall provide a concrete equipment base for each piece of electrical equipment required to have a base as shown in the Drawings, Notes and Details.
- B. Concrete equipment bases shall be 6" high concrete, 3500PSI strength, unless otherwise noted. Base shall extend 6" beyond the largest dimensions of the equipment, unless otherwise noted. The top edge of the base shall have a $\frac{3}{4}$ " chamfer. The base shall have #4 reinforcing bars at 12" on center, each way, located at the mid-depth of the base.
- C. If the base is not poured at the same time as the floor slab with base rebar tied to floor rebar, the base shall be anchored to the floor slab per the following criteria:

1. Drill 1" diameter, 4" deep hole in floor.
 2. Fill hole with **Simpson SET Epoxy** then insert 8" long, #4 rebar into hole. Tie this rebar to that required for the equipment base.
 3. Provide a minimum of 4 of these anchors per base but no more than 4 feet apart in either direction.
 4. Anchor points shall be 12" from the edge of the base.
- D. Concrete anchors shall be steel bolts with expansion anchors requiring a drilled hole. Powder-driven anchors are not acceptable. Minimum concrete embedment shall be 4.5 diameters but not less than manufacturer's requirements for minimum strength. Minimum spacing shall be 10 diameters center-to-center and 5 diameters center to edge of concrete but not less than manufacturer's requirements for minimum strength. Maximum allowable stresses for tension and shear shall be 80% of the ICC-ES test report values.
- E. Where applicable, concrete structures shall be submitted to the serving utility for their approval prior to installation.
- F. Concrete bases for pole mounted lighting fixtures shall be 3500PSI strength, unless otherwise noted, and shall have vertical reinforcing bars with horizontal reinforcing bar ties as detailed on the drawings. The top edge of the concrete base shall have a 1" chamfer.

3.5 SEISMIC ANCHORAGE AND BRACING

A. Equipment Anchorage

1. All electrical equipment and components shall be anchored and installed per the details on the **DSA** approved construction documents. Where no detail is indicated, the following components shall be anchored or braced to meet the force and displacements requirements prescribed in the 2022 CBC, Sections 1617A.1.18 through 1617A.1.26, and ASCE 7-16 Chapter 13, 26, and 30:
 - a. All permanent equipment and components
 - b. Temporary or movable equipment that is permanently attached (e.g. hard wired) to building utility electrical service.
 - c. Movable equipment which is stationed in one place for more than 8 hours and heavier than 400 pounds are required to be anchored with temporary attachments.
2. The attachment of the following electrical components shall be positively attached to the structure, but need not be detailed on the plans. These components shall have flexible connections provided between the components and associated conduit.
 - a. Components weighting less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the components.

- b. Components weighting less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.
 - 1) For those elements that do not require details on the approved drawings, the installation shall be subject to the approval of the Structural Engineer of Record and the DSA Structural Engineer. The project inspector will verify that all components and equipment have been anchored in accordance with above requirements.

3.6 CLEANING AND PROTECTION

- A. The Contractor shall, progressively and at completion of the job, thoroughly clean all of his work including outlets, fittings, and devices, and inspect exposed finishes. The Contractor shall remove all burrs, dirt, grease, paint spots, stains, labels, tags, rust, foreign material, and construction debris resulting from his work.
- B. The Contractor shall protect equipment and installations and maintain conditions to ensure that coatings, finishes, and cabinets are without damage or deterioration at time of Substantial Completion.

END OF SECTION 260100

- E. Flexible metallic conduit (FMC) shall be single strip, continuous, flexible interlocked double-wrapped steel, hot dip galvanized inside and out forming smooth internal wiring channel, with steel, compression type fittings.
- F. Liquid-tight flexible metallic conduit (LFMC) shall be same as FMC except with inert sunlight-resistant, mineral-oil-resistant watertight plastic outer jacket. Fittings shall be cast malleable iron body and gland nut, cadmium plated with one-piece brass grounding bushings threaded to interior of conduit. Spiral molded vinyl-sealing ring between gland nut and bushing and nylon-insulated throat.
- G. All raceway fittings shall be specifically designed for the raceway type with which used.

2.2 CONDUCTORS

- A. All conductors shall be delivered to the site in their original unbroken packages, plainly marked or tagged with UL labels, size, type of wire, type of insulation, name of the manufacturing company and trade name of the wire.
- B. All conductors shall be minimum of 98% conductivity soft drawn copper. Conductors #8 AWG and larger shall be stranded type "THHN/THWN", 600 Volt insulation. Conductors #10 AWG and smaller shall be solid copper "THHN/THWN", 600 Volt insulation.
- C. Insulation shall be Thermoplastic Type rated at 75 degrees C. minimum.

2.3 PULL BOXES AND WIREWAYS

- A. Pullboxes and Enclosures for outdoor use shall be NEMA 250, Type 3R or Type 4, unless otherwise noted.
- B. Pullboxes and Enclosures for indoor use shall be NEMA 250, Type 1, unless otherwise noted.
- C. Wireways shall be constructed in accordance with UL 870 for wireways, auxiliary gutters and associated fittings. Every component including lengths, connectors and fittings shall be UL Listed.
- D. Wireways and auxiliary gutters shall have continuous removable cover secured with screws and keyhole slots. Hinged cover shall be provided where installed above suspended ceiling.
- E. Fabricated sheet steel pull boxes shall be installed only in dry, protected locations and shall be furnished with knockouts and removable screw cover. Box shall be finished with one coat of zinc chromate and a coat of primer sealer

and where exposed to public view shall be painted to match the surrounding surface.

- F. Weatherproof sheet steel pull boxes shall be fabricated of code gauge galvanized sheet steel with two coats of rust resistant finish and shall be furnished with gasket and made completely weathertight.

2.4 WIRING DEVICES AND MATERIALS

- A. Outlet Boxes shall meet NEMA OS1 and be galvanized code gauge steel. Boxes in masonry shall be square cornered. Boxes exposed to weather or in wet locations shall be Type FD cast metal with external threaded hubs and gasketed cover and shall meet NEMA FB1.
- B. Outlet box extensions shall be U.L. listed and shall be attached to box with threaded metal screws. "Flash Guards" are not permitted to be used as box extensions.
- C. Approved manufacturers of metal boxes are Circle AW, Crouse-Hinds, Steel City or equal.
- D. A/C Snap Switches:
 - 1. 120/277 Volt Switches shall be quiet, fast make, fast break design, toggle handle, with totally enclosed case, rated 20 ampere, heavy duty specification grade. Provide matching two pole, 3-way, 4-way, and key switches as required.
 - 2. A/C snap switches served by emergency power circuits shall be red.
 - 3. A/C snap switches shall be Hubbell or Leviton 1221 series.
- E. Receptacles:
 - 1. Duplex Receptacles:
 - a. Duplex Receptacles shall be tamper-resistant, full gang size, polarized duplex, parallel blade, U-grounding slot, specification grade, rated at 20 amperes, 125 volts and designed for split feed service.
 - b. Receptacles served by normal power circuits shall be ivory, grey, white or brown, dependent upon room wall finish and as direct by Architect. Receptacles served by emergency power circuits shall be red.
 - c. Duplex receptacles shall be Hubbell HBL5362WTR series, or equivalent.
 - 2. GFCI Receptacles:
 - a. GFCI receptacles shall be weather-resistant, tamper-resistant, duplex, feed-through type, with integral NEMA WD 6, Configuration 5-20R duplex receptacle arranged to protect connected downstream receptacles on

same circuit. Units shall be designed for installation in a 2-3/4-inch deep outlet box without an adapter.

- b. Duplex GFCI receptacles shall be Hubbell #GFTWRST20W series, or equivalent to match regular duplex receptacles.
- 3. Required Weather-Resistant Receptacles: All 15- and 20-ampere, 125- and 250-volt non-locking type receptacles located outdoors and in damp and wet locations shall be listed weather-resistant type.
- 4. Required Tamper-Resistant Receptacles: Tamper resistant receptacles shall be provided in the following areas where required by CEC 406.12:
 - a. Dwelling units;
 - b. Guest rooms and guest suites;
 - c. Child care facilities;
 - d. Preschool and elementary school education facilities;
 - e. Business offices, corridors, waiting rooms and the like in clinics, medical and dental offices and outpatient facilities;
 - f. Subset of assembly occupancies described in CEC 518.2 to include places of waiting transportation, gymnasiums, skating rinks and auditoriums;
 - g. Dormitories;
- 5. Receptacles for Owner-furnished equipment shall match that equipment's plug configuration.
- 6. Other Receptacles: Other receptacles shall match the plug configuration and ratings required for the utilization equipment that is served.
- F. Device cover plates shall be provided and installed at all wiring devices, switches, outlets, and similar applications, and shall be as directed by architect. Pull boxes and junction boxes to which no fixture is to be attached shall be fitted with blank cover plates painted to match surrounding. All cover plates installed on rated walls shall be brushed stainless steel. Cover plates for receptacles in wet locations shall have an enclosure that is weatherproof whether or not the attachment plug cap is inserted and shall be identified as "extra-duty". Cover plates installed at switches used for lighting control in all multiple occupant restrooms, all hallways and corridors, and in other locations where lockable cover plates are indicated on the Drawings shall be the dustproof locking stainless steel cover Legrand model WP26-L.

2.5 TERMINAL CABINETS AND CLOSETS

- A. Cabinets and fronts shall be in accordance with NEMA Standard Publication No. PB1-1971 and UL Standards No. 67. Fronts shall include doors and have flush, brushed stainless steel, cylinder tumbler-type locks with catches and spring loaded door pulls. The flush lock shall not protrude beyond the front of the door.

All locks shall be keyed like the panel board locks. Fronts shall have adjustable indicating trim clamps that shall be completely concealed when the doors are closed. Doors shall be mounted by completely concealed steel hinges. Fronts shall not be removable with the door in the locked position. A frame and card with a clear plastic covering shall be provided on the inside of the door. Fronts shall be of code gauge full finished steel with rust inhibiting primer and baked enamel finish.

2.6 PANELBOARDS

- A. Branch circuit breakers shall be molded case, bolt-on, and fully interchangeable without disturbing adjacent units. All 2-pole and 3-pole breakers shall have common trips.
- B. Branch overcurrent protection devices shall have a minimum short circuit rating of 10,000 RMS symmetrical AIC (120/208V).
- C. Breakers for switching lights shall be type SWD, rated for switching duty. Breakers for mechanical equipment shall be HACR type.
- D. All spaces shall have hardware.

2.7 DISCONNECTING DEVICES

- A. Disconnecting devices shall be provided as shown and/or as required by CEC.
- B. Motor-rated switches shall be toggle-type, quick make-quick break, rated 2 HP, 250 VAC, with number of poles as required. They shall be equipped with overload heaters rated for overload protection of loads controlled.
- C. Motor-rated switches shall be flush-mounted adjacent to load controlled. Where flush mounting is not possible, switches shall be surface mounted in NEMA enclosure suitable for environment in which installed.
- D. Disconnect switches shall be 250V or 600V class, rated heavy-duty, horsepower rated, quick-make, quick-break, dead-front type and provided with proper number of poles.
- E. Disconnect Switches shall be self contained in a NEMA 1 gasketed enclosure (NEMA 3R where installed outdoors) and externally operable from the front.
- F. Fusible disconnect switches shall be equipped with rejection type clips suitable for UL Class R fuses up to 600A and suitable for UL Class L fuses above 600A. Fuse interrupting rating shall be 200,000 RMS symmetrical amperes.
- G. Circuit breakers utilized as disconnecting devices shall comply with the requirements stated in other articles of this section and CEC.

2.8 SUPPORTING DEVICES

- A. Supporting devices shall be constructed of cold-formed steel, with a corrosion-resistant coating acceptable to authorities having jurisdiction.
- B. Metal items for use outdoors or in damp locations shall be hot-dipped galvanized steel.
- C. Slotted-steel channel supports shall have flanged edges turned toward the web, and 9/16-inch diameter slotted holes at a maximum of 2 inches on center, in the web.
 - 1. Channel thickness shall be selected to suit structural loading.
 - 2. Fittings and accessories shall be products of the same manufacturer as the channel supports.
- D. Raceway and cable supports shall be manufactured clevis hangers, riser clamps, straps, threaded C-clamps with retainers, ceiling trapeze hangers, wall brackets, and spring-steel clamps or click-type hangers.
- E. Pipe sleeves shall be ASTM A 53, Type E, Grade A, Schedule 40, galvanized steel, with plain ends.
- F. Cable supports for vertical conduit shall be a factory-fabricated assembly consisting of threaded body and insulating wedging plug for non-armored electrical cables in riser conduits. Plugs shall have number and size of conductor gripping holes as required to suit individual risers. Body shall be constructed of malleable-iron casting with hot-dip galvanized finish.
- G. Concrete anchors shall be steel bolts with expansion anchors requiring a drilled hole. Powder driven anchors are not acceptable.
- H. Toggle bolts shall be all-steel springhead type.

2.9 ELECTRICAL IDENTIFICATION

- A. Identification devices shall be a single type of product for each application category. Colors shall be as prescribed by ANSI A13.1, CEC, and these Specifications.
- B. Raceway and cable labels shall comply with ANSI A13.1, Table 3, for minimum size of letters for legend and minimum length of color field for each raceway and cable size.
 - 1. Pre-tensioned, wraparound plastic sleeves shall be a flexible, preprinted, color-coded, acrylic band sized to suit the diameter of the item it identifies.

2. Preprinted, flexible, self-adhesive, vinyl labels shall have a legend, over-laminated with a clear, weather- and chemical-resistant coating.
3. Color shall be black letters on orange background.
4. Legend shall indicate voltage.
- C. Self-adhesive colored marking tape for raceways, wires and cables shall be vinyl tape, not less than 1 inch wide by 3 mils thick.
- D. Underground Warning Tape shall be vinyl tape, compounded for permanent direct-burial service, not less than 6 inches wide by 4 mils thick, embedded with a continuous metallic strip or core, brightly-colored, continuously-printed with a legend that indicates the type of underground line.
- E. Tape markers for wire shall be vinyl or vinyl-cloth, self-adhesive, wraparound type with preprinted numbers and letters.
- F. Color-coding cable ties shall be made of Type 6/6 nylon, be self-locking type and of colors to suit coding scheme.
- G. Engraved plastic labels, signs and instruction plates shall be made from black (or red as noted) Bakelite laminate engraving stock with a white core, punched or drilled for mechanical fasteners. It shall have a minimum thickness of 1/16-inch for signs up to 20 sq. in. and a minimum thickness of 1/8-inch for larger sizes.
- H. Interior Warning and Caution signs shall comply with 29 CFR, Chapter XVII, Part 1910.145 and shall be preprinted, aluminum, baked-enamel-finish signs, punched or drilled for mechanical fasteners, with colors, legend, and size appropriate to the application.
- I. Exterior Warning and Caution signs shall comply with 29 CFR, Chapter XVII, Part 1910.145 and shall be weather-resistant, non-fading, preprinted, cellulose-acetate butyrate signs with 0.0396-inch, galvanized-steel backing, with colors, legend, and size appropriate to the application. They shall be equipped with 1/4-inch grommets in each corner for mounting.
- J. Fasteners for nameplates and signs shall be self-tapping, stainless-steel screws or No. 10/32 stainless-steel machine screws with nuts and flat and lock washers.
- K. Circuit Identification – A typewritten circuit directory shall be provided at each panelboard and switchboard in accordance with CEC Article 408.4(A). The Contractor shall develop and prepare the circuit identification description based on the as-built condition.

2.10 TOUCHUP PAINT

- A. Touch-up paint shall be equipment manufacturer's paint selected to match installed equipment finish.
- B. Touch-up paint on galvanized surfaces shall be zinc-rich paint recommended by item manufacturer.

PART 3 - EXECUTION

3.1 ELECTRICAL INSTALLATION

- A. All material, equipment, devices, etc., shall be installed in accordance with the recommendations of the manufacturer of the particular item. The Contractor shall be responsible for all installations contrary to the manufacturer's recommendations. The Contractor shall make all necessary changes and revisions to achieve such compliance. Manufacturer's installation instructions shall be delivered to and maintained at the job site throughout the construction of the project.
- B. The layout and installation of electrical work shall be coordinated with the overall construction schedule to prevent delay in completion of the project.
- C. Dimensions and information regarding accurate locations of equipment and structural limitations and finish shall be verified with other sections.
- D. The drawings do not show all raceway, wiring, offsets, bends, special fittings, junction or pull boxes necessary to meet job conditions. Items not shown as indicated, where are clearly necessary for proper operation or installation of systems shown, shall be provided as required, at no increase in contract price.
- E. Materials and Components shall be installed level, plumb, and parallel and perpendicular to other building systems and components, unless otherwise indicated.
- F. Electrical equipment, outlets, junctions and pull boxes shall be installed in accessible locations, avoiding obstructions, preserving maximum headroom, and keeping openings and passageways clear.
- G. Equipment shall be installed to facilitate service, maintenance, and repair or replacement of components. It shall be connected for ease of disconnecting, with minimum interference with other installations. Minor adjustments in the locations of equipment shall be made where necessary providing such adjustments do not adversely affect function of the equipment. Major adjustments for the location of equipment shall be previously approved and detailed on the Record Drawings.

- H. Right of Way shall be given to raceways and piping systems installed at a required slope.

3.2 RACEWAY APPLICATION

- A. Galvanized Rigid Steel Conduit (GRC) **may** be used in all locations. Where installed in direct contact with earth, conduit shall be wrapped with two layers of half-lapped 10-mil PVC tape for a total thickness of 40-mil or have a factory applied 40-mil PVC coating.
- B. Galvanized Rigid Steel Conduit (GRC) **shall** be used where exposed to physical damage, indoors where exposed to moisture, in exposed outdoor installations, in systems higher than 600 volts, and where required by code.
- C. Galvanized Intermediate Metallic Conduit (IMC) **may** be used in indoor locations not in direct contact with earth.
- D. Galvanized Electrical Metallic Tubing (EMT) may be used in dry indoor locations according to the following criteria:
 - 1. It is not subject to physical damage.
 - 2. It is not in direct contact with earth.
 - 3. It is not in concrete slabs.
 - 4. It is not in a hazardous area.
- E. Rigid Non-Metallic Conduit (RNC) Schedule 40 PVC **may** be used underground or below concrete slabs on grade. Rigid Non-Metallic Conduit (RNC) Schedule 80 PVC **may** be used to pass through concrete slabs. Rigid Non-Metallic Conduit (RNC) **may** be used in compliance with utility company requirements for utility service conduits. Rigid Non-Metallic Conduit (RNC) **shall not** be installed above grade or above finished floor level.
- F. Liquid-tight Flexible Metallic Conduit (LFMC) **may** be used in all locations to make final connections to motors, transformers, or other mechanical equipment (not to exceed 24 inches in length) or lighting fixtures (not to exceed 72 inches in length). Where specifically approved by the Engineer, LFMC may be used to facilitate wiring in tight locations or in other conditions that make the use of other conduit impracticable.
- G. Flexible Metallic Conduit (FMC) **may** be used in dry locations to make final connections to motors, transformers, or other mechanical equipment (not to exceed 24 inches in length) or lighting fixtures (not to exceed 72 inches in length). Where specifically approved by the Engineer, FMC may be used to facilitate wiring in tight locations or in other conditions that make the use of other conduit impracticable.

3.3 RACEWAY INSTALLATION

A. General

1. Expansion joints shall be provided at building expansion joints or as required due to length of run or difference in temperatures.
2. All fittings that are exposed or in damp areas shall have sealing glands and proper gasket.
3. In general, all conduits shall be sloping to drain. Bends that place a trap in a conduit shall be avoided. Provided drip fitting as required. Dux-Seal high ends of all underground raceways.
4. All conduit runs shall be mechanically and electrically continuous from outlet to outlet. Conduit size or type shall not be changed between outlets.
5. All empty raceways shall be equipped with pull lines, capped and labeled. Pull lines shall be 3/16" polypropylene, No. 14 AWG zinc-coated steel or monofilament plastic line with not less than 200-lb tensile strength. Leave at least 24 inches of slack with identification tag at each end of the pull wire.
6. Minimum size of any conduit for lighting, power and signal shall be 3/4" conduit unless shown otherwise.
7. Use temporary raceway caps to prevent foreign matter from entering. Immediately prior to installation of conductors, conduit shall be blown and swept free of foreign materials. All conduit stubs for future, both above and below grade, shall be capped. Run conduits for spare panelboard circuits to attic or accessible spaces.
8. Make conduit bends and offsets so ID is not reduced. Keep legs of bends in the same plane and straight legs of offsets parallel, unless otherwise indicated.
9. Make bends in exposed parallel or banked runs from same centerline to make bends parallel. Use factory elbows only where elbows can be installed parallel; otherwise, provide field bends for exposed parallel raceways.
10. There shall be no more than the equivalent of four quarter bends (360-degrees total) between pull points such as pull boxes, outlet boxes or conduit bodies, in one run of conduit.
11. Install raceways and cables at least 6 inches away from parallel runs of flues and steam or hot-water pipes. Locate horizontal raceway runs above water and steam piping.
12. Conduits shall be securely fastened to building structure at intervals not greater than ten feet.
13. Conduit shall be square cut and reamed if required to full size, with thread full cut and true.

14. Conduits shall be jointed by approved couplings with ends of conduits tightly butted. Non-insulating compound shall be used in making up joints below grade or inside on grade to insure a watertight system.
 15. Conduit connections to outlet boxes or cabinets shall be made with approved connectors, using locknuts and insulated throat bushings.
 16. Complete raceway installation before starting conductor installation.
 17. Contractor shall provide rubber grommets to fasten galvanized conduit to exterior structures made of dissimilar metals at all exterior locations to prevent galvanic corrosion.
 18. Contractor shall provide rubber grommets to fasten galvanized conduit to supports which are also used by other systems utilizing piping of dissimilar metals to prevent galvanic corrosion.
- B. Interior
1. Conceal raceways and cables, unless otherwise indicated, within finished walls, ceilings, and floors.
 2. All concealed conduits shall be installed in as direct a line as possible between outlets. No more than four quarter bends, or their equivalent, will be allowed between outlets. Feeder conduits shall follow arrangement shown on plans unless a change is authorized. Branch circuit conduits shall, in general, follow arrangement as shown as far as structural conditions permit. All exposed runs shall parallel buildings, walls, or partitions, and be supported on Kindorf Hangers to meet Title 24, Part 3, CEC.
- C. Exterior
1. Exterior conduit including the sweep below grade and the vertical riser shall be galvanized rigid steel conduit, except where rigid non-metallic conduit is required for utility service conduits by the serving utility company.
 2. No rigid non-metallic conduit (RNC) shall be installed above grade.
- D. Underground
1. Two or more power **or** telecommunications conduit runs installed in a common trench shall be separated horizontally by a minimum of four inches (4").
 2. Two or more power **and** telecommunications conduit runs installed in a common trench shall be separated horizontally by a minimum of twelve inches (12").
 3. **All** electrical conduit runs installed in a common trench with other utility company lines, plumbing pipes, or heating pipes shall be separated horizontally from such lines by a minimum of twelve inches (12").
 4. Conduits installed underground and not under buildings shall have a minimum of 24" of cover over the top of the conduit.

5. Utility service conduits shall be installed according to the serving utility's requirements for material, depth of cover, and separation.
6. Rigid non-metallic conduit shall be laid on excavated firm bed, sealed watertight and unless with 24 inch earth cover, shall have 3 inch minimum concrete encasement unless under concrete. Plastic conduit without encasement shall be random lay, "snaked", not pulled tight. Plastic conduit laid in areas of reinforcing steel shall be supported independently at each threaded fitting. Plastic conduit joints shall be full solvent welded.
7. Rigid non-metallic conduit installed underground and not below a building slab shall have a galvanized rigid steel long radius elbow installed at the terminating end where the transition from horizontal to vertical occurs.

E. In Concrete Slabs

1. Conduit installed within concrete slabs shall be Schedule 80 PVC rigid non-metallic conduit or full weight galvanized rigid steel conduit.
2. Conduits in concrete slabs 3 inches thick or less shall not be of size larger than $\frac{3}{4}$ inch nominal trade size, and wired to top of reinforcing steel.
3. Conduit installed in concrete slabs shall be installed in the middle third of the slab thickness where practical, and have at least 1-inch concrete cover.
4. Secure raceways to reinforcing rods to prevent sagging or shifting during concrete placement.
5. Conduit installed in concrete slabs shall be installed side-by-side horizontally and shall have no less than 1" spacing between each conduit to allow for concrete consolidation to prevent voids in the concrete. Conduits that are installed in concrete slabs shall be arranged such that they do not cross over other conduits within the concrete slab. Where crossing of conduits is unavoidable the crossing sets of conduits shall be installed below the slab. No more than 3 conduits shall be installed side-by-side in a concrete slab without special permission from the structural engineer.
6. Install conduit larger than 1-inch trade size parallel to or at right angles to main reinforcement. Where conduit is at right angles to reinforcement, place conduit close to slab support.
7. Contractor shall be responsible for damages to membrane and shall repair it.

F. Below Grade Level Concrete Building Slab

1. All conduits below the building slab shall be Schedule 40 PVC rigid nonmetallic conduit or full weight galvanized rigid steel conduit, and shall have a 6" minimum cover below the floor slab measured from the bottom of the floor slab to the top of the conduit.
2. Rigid non-metallic conduits that are 1" trade size or smaller that are installed below the building slab shall transition from Schedule 40 PVC below the building

slab to Schedule 80 PVC rigid nonmetallic conduit or galvanized rigid steel conduit, before passing into the concrete building slab and shall transition to galvanized rigid steel conduit or IMC within the concrete building slab before exiting and rising above the building slab.

3. Rigid non-metallic conduits that are 1 ¼" trade size or larger that are installed below the building slab shall have a galvanized rigid steel long radius elbow installed at the terminating end where the transition from horizontal to vertical occurs and the vertical riser shall be galvanized rigid steel conduit rising above the building slab.
4. Rigid non-metallic conduit installed underground and not below a building slab.
5. Where conduits rise through the building slab they shall be installed at sufficient depth so that the curved portion of any bends, sweeps, or 90's are not visible above the finished slab.
6. Contractor shall be responsible for damages to membrane and shall repair it.

G. In Beams and Footings

1. Conduit in concrete beam and footings shall be perpendicular to direction of beams unless otherwise indicated on structural drawings.
2. Conduit shown in concrete beam parallel to beams shall be installed at approximate mid-depth of beam.

H. Flexible Conduit

1. LFMC or FMC shall be used to connect motors and equipment subject to vibration, noise transmission, or movement to junction boxes, with a maximum length of 24-inches.
2. Install separate ground conductor across flexible connections.
3. Flexible conduits shall be independently suspended.

I. Hazardous Locations

1. Underground conduit **within** Class 1 areas shall be threaded rigid metal conduit or intermediate steel conduit per N.E.C. 511 and/or 514.
2. Underground conduit **below** Class 1 areas shall be rigid non-metallic conduit per N.E.C. 511 and/or 514.
3. Approved seal-off type fittings shall be used in Class 1 locations per N.E.C.
4. Fittings in hazardous areas shall be of the type approved for the particular hazard.

3.4 SURFACE MOUNTED RACEWAY INSTALLATION

- A. Surface Mounted Raceways shall be used to provide raceway systems for branch circuits and data network voice, video and other low-voltage wiring.
- B. Surface Mounted Raceways shall be used only in dry interior locations, as allowed in Article 388 (Surface Nonmetallic Raceways) of the California Electrical Code.
- C. Surface Mounted Raceways and wire distribution systems shall contain no more than six current carrying conductors in each section or compartment. Where additional conductors are required, additional raceway shall be installed to accommodate additional conductors.
- D. Electrical and mechanical rooms are specifically excluded from the use of non-metallic Surface Mounted Raceways.

3.5 METAL CLAD CABLE – INSTALLATION

- A. Install metal clad cable in accordance with manufacturer's instructions and in strict accordance with CEC Article 330. Follow manufacturer's explicit instructions when connecting the cable to fittings and boxes. Connectors shall be firmly secured to the cable, but not over tightened. Connector shall be firmly attached to metal boxes.
- B. Support metal clad cables every 6 feet and within 12 inches of boxes, per CEC Article 334, using separate spring metal clip or metal cable ties (not steel tie wire) for each cable. Metal clad cables shall not be bundled together.
- C. Suspended ceiling drop wire may be used to directly support a maximum of two separate metal clad cables.
- D. Provide separate drop wire above accessible ceiling, to support more than two metal clad cables.
- E. Do not rest metal clad cables on ceiling tiles or allow contact with mechanical piping systems.
- F. Bend metal clad cable per CEC Article 334.
- G. Provide separate sleeves and/or fire barriers where metal clad cable penetrates firewalls, unless cable is UL listed for the application.

3.6 CONDUCTOR APPLICATION

- A. Feeders and branch circuits shall be Type THHN/THWN insulated conductors in raceway.

- B. Underground feeders and branch circuits shall be Type THWN or single-wire, Type UF insulated conductors in raceway.
- C. Branch circuits for other than lighting circuits shall be Type THW or THHN/THWN insulated conductors in raceway. Lighting branch circuits shall be Type THW or THHN/THWN insulated conductors in raceway where exposed and may be metal-clad cable where concealed in ceilings and gypsum board partitions.
- D. Minimum conductor size shall be #12 for power and lighting, #14 for 120V control circuits and #18 for 24V control circuits.
- E. Remote control, signaling and power-limited circuits shall be Type THHN/THWN insulated conductors in raceway for Classes 1, 2, and 3, unless otherwise indicated.

3.7 CONDUCTOR INSTALLATION

- A. Conductors shall be continuous from outlet to outlet, no splices shall be made except within outlet or junction boxes.
- B. Wiring at outlets shall be installed with at least 12 inches of slack conductor at each outlet.
- C. Outlet and component connections shall be made to wiring systems and to ground. Electrical connectors and terminals shall be tightened according to manufacturer's published torque-tightening values. Torque values specified in UL 486A shall be used where manufacturer's torque values are not indicated.
- D. Wire in panels, cabinets, pull boxes, and wiring gutters shall be squared, labeled, and neatly grouped with cable ties and fanned out to the terminals.
- E. All branch circuits, fixture wiring joints, splices, and taps for conductors #10 and smaller shall be made with 3M "Scotchlock" connectors, or approved equal.
- F. All branch circuits, fixture wiring joints, splices, and taps for conductors #8 and larger shall be made with two-bolt type solderless connectors or T & B "color keyed" compression lugs.
- G. Bolt-type solderless connectors shall be torqued with a torque wrench according to the manufacturer's recommendations, and then retightened after 24-48 hours before taping. Owners' inspector shall be informed of this procedure during the waiting period and shall witness the act of retightening.
- H. Connectors and lugs for terminating stranded conductors #8 and larger shall be machine crimp compression type.

- I. All splices shall be taped with Scotch #88 plastic electrical tape with "Scotch Fill" where necessary for a smooth joint. Scotch #27 or #2520 shall be used for other than normal temperatures or conditions. All connections and splices shall be electrically perfect and in strict accordance with all code requirements.
- J. No splices shall be made below grade in a manhole or pullholes without Engineer's written approval, and then shall be encapsulated with 3M potting kits per 3M Specifications. For larger gauge wire where 3M potting kits are prohibited Contractor shall use submersible UL listed Polaris connectors by NSi.

3.8 WIREWAY AND AUXILIARY GUTTER APPLICATION

- A. Wireways and auxiliary gutters shall be used above and below panelboards, lighting relay cabinets, and terminal cabinets to accommodate large concentrations of wires.

3.9 PULL BOXES AND WIREWAYS:

- A. Boxes shall be installed square and plumb. An engraved nameplate shall be installed on each box indicating its function. Nameplate shall be installed on the exterior of each box in unfinished areas and on the interior of each box in finished areas.
- B. Wireways shall be installed with strip-type connectors with self-retained mounting screws. Hangers with two piece, hook together features shall be used to permit preassembly of wireway and hanger bottom plate before hanging on a preinstalled upper bracket.
- C. Pull and junction boxes shall be installed as shown to ease the pulling of wire and to comply with CEC requirements.

3.10 WIRING DEVICES AND MATERIALS

- A. Outlets shall be mounted at 18" minimum above finished floor unless otherwise noted.
- B. The locations of outlets shown on drawings shall be located with respect to work of others and to be symmetrical with room layout.
- C. Outlets in architectural patterned surfaces such as tile and finish panels shall be centered on intersections of four panels or in exact center of panels, unless otherwise shown on architectural plans or directed by Architect.
- D. Outlet boxes for concealed work shall be one-piece steel knock out type with zinc coating. Boxes shall not be smaller than 4" square nominal size, unless

otherwise indicated. Extension rings, plaster rings, and covers shall be provided as necessary for flush finish.

- E. The Contractor shall inform himself of wall thickness throughout the building and shall provide outlet boxes of suitable depth that can be flush mounted and yet will be deep enough to contain the particular apparatus involved. Location of exposed pull or junction boxes will be subject to the Architect's approval.
- F. Outlet boxes on opposite sides of walls shall not be placed back-to-back, nor shall "through" boxes be employed (except where specifically permitted on the drawings by note).
- G. Switches shall be mounted 48" to top of device box above finished floor unless otherwise noted.
- H. Where more than one switch occurs at the same location, use multiple gang outlet boxes covered by a single plate; provide box partitions as required by the N.E.C.
- I. Bar hangers shall be used to support outlet boxes in stud or furred partitions and ceilings. Attachment screws, devices, etc., shall be of the proper type to secure boxes to metal studs complemented by expansion shields to concrete and masonry.
- J. All outlet boxes and particularly those supporting fixtures shall be securely anchored in place in an approved manner. Support outlet boxes and fixtures in acoustic ceiling areas from building structures, not from acoustic ceilings. All lighting fixture outlets shall be coordinated with mechanical, architectural, or other equipment to eliminate conflicts and provide a workable, neat installation.
- K. Approved knock out holes shall be provided. Outlet boxes from which light fixtures will be suspended shall be equipped with 3/8" fixture studs fastened through from back of box.
- L. Surface boxes of the cast metal threaded hub type with suitable gasketed covers shall be used for exposed conduit runs less than 5' above a finished floor or where waterproof boxes are required.
- M. Floor boxes shall be adjustable, brass trimmed with carpet flanges where carpet is indicated on architectural drawings.
- N. Set floor boxes level and trim after installation to fit flush to finished floor surface.
- O. Masonry boxes shall have conduit entrances to rear of box with depth as required to clear masonry.
- P. Boxes shall be sized for number of conductors entering box.

- Q. Wiring devices shall be securely fastened to the outlet box. Where the outlet box covers are back from the finished walls, the device shall be built out with washers so that it is rigidly held in place to the box. Metal extenders shall be provided in flammable construction per CEC.
- R. All device screw slots shall be left in a vertical orientation.
- S. Connect wiring device grounding terminal to branch-circuit equipment grounding conductor and to outlet box with bonding jumper.
- T. Connect ground terminal of isolated-ground receptacles to isolated-ground conductor routed to designated isolated equipment ground terminal of electrical system.

3.11 TERMINAL CABINETS AND CLOSETS

- A. Terminal cabinets shall be installed level and identified with nameplate per schedule.
- B. All conductors in terminal cabinets or closets shall be squared, labeled and secured neatly with wire ties.
- C. All terminal cabinets shall be installed with the top of the trim at 6'-0" above the finished floor, unless otherwise indicated on the drawings.
- D. Where space permits, terminal cabinets shall be surface mounted where they are not visible to the public.
- E. A typewritten directory shall be mounted behind plastic in a metal holder welded to the inside of each terminal cabinet door showing a complete description of terminations in each cabinet.

3.12 PANELBOARDS

- A. A typewritten directory shall be mounted behind plastic in a metal holder welded to the inside of each panel door showing circuit numbers and complete description of all outlets on each circuit.
- B. Labeling of all circuits at panel boards shall match the exact room names of each of the spaces. Verify exact room names with Owner prior to labeling.

3.13 DISCONNECT DEVICES

- A. Thoroughly examine site conditions for acceptance of disconnects switch installation to verify conformance with manufacturer and specification tolerances. Do not commence with installation until all conditions are made satisfactory.

- B. Coordinate locations of switches and equipment in the field to provide code required clearances in front of switches and to insure that switches are in sight of the controllers as described in NEC Article 430.
- C. Install disconnect switches where indicated on the Drawings.
- D. Install fuses in fusible disconnect switches.
- E. Include construction channel and mounting hardware as required to support disconnect switch.
- F. Provide engraved, machine screw retained nameplate on each disconnect switch. Name plate shall identify equipment and panelboard + branch circuit breaker.

3.14 SUPPORTING DEVICE APPLICATION

- A. Hot-dip galvanized materials or nonmetallic channel and angle system components shall be used in damp locations and outdoors.
- B. Steel materials shall be used in dry locations.
- C. Support clamps for PVC raceways shall be click-type clamp system.
- D. Strength of supports shall be adequate to carry present and future loads, times a safety factor of at least four with a minimum of 200-lb design load.

3.15 SUPPORT INSTALLATION

- A. Install support devices to securely and permanently fasten and support electrical components.
- B. Install individual and multiple raceway hangers and riser clamps to support raceways. Provide U-bolts, clamps, attachments, and other hardware necessary for hanger assemblies and for securing hanger rods and conduits.
- C. Support parallel runs of horizontal raceways together on trapeze- or bracket-type hangers.
- D. Size supports for multiple raceway installations so capacity can be increased by a 25 percent minimum in the future.
- E. Support individual horizontal raceways with separate, malleable-iron pipe hangers or clamps.
- F. Install 1/4-inch diameter or larger threaded steel hanger rods, unless otherwise indicated.

- G. Spring-steel fasteners specifically designed for supporting single conduits or tubing may be used instead of malleable-iron hangers for 1-1/2-inch and smaller raceways serving lighting and receptacle branch circuits above suspended ceilings and for fastening raceways to slotted channel and angle supports.
- H. Arrange supports in vertical runs so the weight of raceways and enclosed conductors is carried entirely by raceway supports, with no weight load on raceway terminals.
- I. Simultaneously install vertical conductor supports with conductors.
- J. Separately support cast boxes that are threaded to raceways and used for fixture support. Support sheet-metal boxes directly from the building structure or by bar hangers. If bar hangers are used, attach bar to raceways on opposite sides of the box and support the raceway with an approved fastener not more than 24 inches from the box.
- K. Install metal channel racks for mounting cabinets, panelboards, disconnect switches, control enclosures, pull and junction boxes, transformers, and other devices unless components are mounted directly to structural elements of adequate strength.
- L. Install sleeves for cable and raceway penetrations of concrete slabs and walls unless core-drilled holes are used. Install sleeves for cable and raceway penetrations of masonry and fire-rated gypsum walls and of all other fire-rated floor and wall assemblies. Install sleeves during erection of concrete and masonry walls.
- M. Securely fasten electrical items and their supports to the building structure, according to the following criteria, unless otherwise noted:
 - 1. Wood – wood screws or screw-type nails.
 - 2. Masonry – toggle bolts on hollow masonry units, expansion bolts on solid masonry units.
 - 3. New Concrete – concrete inserts with machine screws and bolts.
 - 4. Existing Concrete – expansion bolts.
 - 5. Steel – welded threaded studs or spring-tension clamps on steel. Field welding shall comply with AWS D1.1. Welding to steel structure may be used only for threaded studs, not for conduits, pipe straps, or other items.
 - 6. Light Steel – sheet-metal screws.
 - 7. Fasteners shall be selected so the load applied to each fastener does not exceed 25 percent of its proof-test load.

3.16 ELECTRICAL IDENTIFICATION

- A. Each conductor of every system shall be permanently tagged in each panelboard, pull box, J-box, etc., in compliance with the Occupational Safety and Health Administration (OSHA).
- B. Brady labels shall be used to identify terminals and destination of feeders, branch circuits, signal and control circuits, etc., at all terminations, junction boxes and pull boxes, and shall be coordinated with the nameplates in all boxes and equipment.
- C. All terminals in the switchboards, panels, relays, switches, devices, starter terminals, etc., shall have Brady labels for identification to identify both ends of all wiring.
- D. The Contractor shall furnish and install 1" x 3" x 3/32" thick laminated black Bakelite nameplates with a white core (unless specifically shown as red) engraved to produce white letters on black background for all items of electrical equipment, including 2-pole and 3-pole circuit breakers, panelboards, starters, relays, time switches and disconnect switches.
- E. All devices shall have their branch circuit identified on the back side of device plate with a permanent type black marker, i.e. CT A-21. Identify panelboard and circuit number from which receptacles are served. Use machine-printed, pressure-sensitive, abrasion-resistant label tape on face of plate and durable wire markers or tags within outlet boxes.
- F. Coordinate names, abbreviations, colors, and other designations used for electrical identification with corresponding designations indicated in the Contract Documents or required by codes and standards. Use consistent designations throughout Project.
- G. Panels having single-pole circuit breakers shall be provided with typed schedules mounted in welded metal holders behind plastic.
- H. Clean surfaces that are to receive self-adhesive identification products before applying.
- I. Where three or more switches are ganged, and elsewhere as indicated, identify each switch with approved legend engraved on wall plate.
- J. Identify raceways and cables with color banding as follows:
 - 1. Bands: Pretensioned, snap-around, colored plastic sleeves or colored adhesive marking tape. Make each color band 2 inches wide, completely encircling conduit, and place adjacent bands of two-color markings in contact, side by side.

2. Band Locations: At changes in direction, at penetrations of walls and floors, at 50-foot maximum intervals in straight runs, and at 25-foot maximum intervals in congested areas.
3. Colors: As follows:
 - a. Fire Alarm System: Red.
 - b. Security System: Blue and yellow.
 - c. Telecommunication System: Green and yellow.
- K. Tag and label circuits designated to be extended in the future. Identify source and circuit numbers in each cabinet, pull and junction box, and outlet box. Color-coding may be used for voltage and phase identification.
- L. Install continuous underground plastic markers during trench backfilling, for exterior underground power, control, signal, and communication lines located directly above power and communication lines. Locate 6 to 8 inches below finished grade. If width of multiple lines installed in a common trench or concrete envelope does not exceed 16 inches, overall, use a single line marker.
- M. All power conductors shall be identified in accordance with the following schedule:
 1. 120/208V, 3 Phase, 4 Wire System.
 - a. Phase A: Black.
 - b. Phase B: Red.
 - c. Phase C: Blue.
 - d. Neutral: White.
 - e. Ground: Green
 2. 120/240V, 3 Phase, 4 Wire System.
 - a. Phase A: Black.
 - b. Phase B (Stinger): Orange.
 - c. Phase C: Blue.
 - d. Neutral: White
 - e. Ground: Green
 3. 277/480V, 3 Phase, 4 Wire System.
 - a. Phase A: Brown.
 - b. Phase B: Orange.
 - c. Phase C: Yellow.
 - d. Neutral: White with a colored stripe or gray.

- e. Ground: Green.
- 4. Isolated ground conductor shall be green with a yellow stripe.
- 5. Clock wiring shall be 4 #14 TW or THWN, color coded as follows:
 - a. Hot circuit Black
 - b. Correction circuit Red
 - c. Neutral White
 - d. Ground Green
- N. Install warning, caution, and instruction signs where required to comply with 29 CFR, Chapter XVII, Part 1910.145, and where needed to ensure safe operation and maintenance of electrical systems and of items to which they connect. Install engraved plastic-laminated instruction signs with approved legend where instructions are needed for system or equipment operation. Install metal-backed butyrate signs for outdoor items.
- O. Install engraved-laminated emergency-operating signs with white letters on red background with minimum 3/8-inch high lettering for emergency instructions on power transfer, load shedding, and other emergency operations.

3.17 FIRESTOPPING

- A. Seal all penetrations for work of this section through fire rated floors, walls and ceilings to prevent the spread of smoke, fire, toxic gas or water through the penetration, either before, during, or after the fire. The fire **and** temperature ratings of the penetration assembly shall be at least that of the floor, wall, or ceiling into which it is installed so that the original fire rating of the floor or wall is maintained as required by Article 300.21 of the California Electrical Code (CEC).
- B. Where applicable, provide OZ Type CFSF/I and CAFSF/I fire seal fittings for conduit and cable penetrations through concrete and masonry walls, floors, slabs and similar structures. Where applicable, provide 3M fire barrier sealing penetration system, and/or Thomas and Bett Flame Safe Fire Stop System, and/or Chase Foam fire stop system, including wall wrap, partitions, caps and other accessories as required. All manufacturers' instructions and recommendations for installation of sealing fittings and barrier sealing systems.
- C. The Contractor shall repair and refinish disturbed finish materials and other surfaces to match adjacent undisturbed new structures, surfaces and shall install new fireproofing where existing firestopping has been disturbed. The repair and refinishing of materials and other surfaces shall be by skilled mechanics of the trades involved.

3.18 REFINISHING AND TOUCHUP PAINTING

- A. The Contractor shall clean damaged and disturbed areas and apply primer, intermediate, and finish coats to suit the degree of damage at each location. He shall follow paint manufacturer's written instructions for surface preparation and for timing and application of successive coats.
- B. Damage to galvanized finishes shall be repaired with zinc-rich paint recommended by manufacturer.
- C. Damage to PVC or paint finishes shall be repaired with matching touchup coating recommended by manufacturer.
- D. See Section 09900, "Painting".

3.19 FIELD QUALITY CONTROL

- A. Test Owner's electricity-metering installation for proper operation, accuracy, and usability of output data.
 - 1. Connect a load of known kW rating, 1.5 kW minimum, to a circuit supplied by the metered feeder.
 - 2. Turn off circuits supplied by the metered feeder and secure them in the "off" condition.
 - 3. Run the test load continuously for eight hours, minimum, or longer to obtain a measurable meter indication. Use a test load placement and setting that ensure continuous, safe operation.
 - 4. Check and record meter reading at end of test period and compare with actual electricity used based on test load rating, duration of test, and sample measurements of supply voltage at the test load connection. Record test results.
 - 5. Repair or replace malfunctioning metering equipment or correct test setup; then retest. Repeat for each meter in installation until proper operation of entire system is verified.

3.20 SYSTEM TESTING AND STARTUP

- A. Refer to Specification Section 26 95 00 "Electrical Acceptance Tests" for minimum required systems testing and startup.

3.21 TITLE 24 - PART 6 DOCUMENTATION OF INSTALLATION AND ACCEPTANCE FOR ELECTRICAL POWER DISTRIBUTION SYSTEMS

- A. The Contractor shall prepare and submit the following Certificates of Installation:

1. Electrical:
 - a. Certificate of Installation – Electrical Power Distribution (NRCI-ELE-01-E)

END OF SECTION 260500

SECTION 260526 GROUNDING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections shall form a part of this Section, with the same force and effect as though repeated here.

1.2 SUMMARY

- A. This Section includes grounding of electrical systems and equipment and basic requirements for grounding for protection of life, equipment, circuits, and systems. Grounding requirements specified in this Section may be supplemented in other Sections of these Specifications.

1.3 SUBMITTALS

- A. Submittals for this Section shall be made according to the Conditions of the Contract, Division 01 Specification Sections and Specification Section 260100.
- B. Product Data for grounding rods, connectors and connection materials, and grounding fittings.
- C. Qualification data for firms specified in "Quality Assurance" Article to demonstrate their capabilities and experience.
- D. Field tests and observation reports certified by the testing organization and indicating and interpreting the test reports for compliance with performance requirements.

1.4 QUALITY ASSURANCE

- A. Testing Agency Qualifications: A "Nationally Recognized Testing Laboratory" (NRTL) as defined in OSHA Regulation 1910.7, or a full member company of the InterNational Electrical Testing Association (NETA).
 - 1. Testing Agency Field Supervision: Use persons currently certified by NETA or the National Institute for Certification in Engineering Technologies to supervise on-site testing specified in Part 3.
- B. Comply with UL 467.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Chance: A. B. Chance Co.
 - 2. Erico Inc.; Electrical Products Group.
 - 3. Galvan Industries, Inc.
 - 4. Lyncole XIT Grounding.
 - 5. Racor, Inc.
 - 6. Thomas & Betts, Electrical.

2.2 GROUNDING AND BONDING PRODUCTS

- A. Where types, sizes, ratings, and quantities indicated are in excess of California Electrical Code (CEC) requirements, the more stringent requirements and the greater size, rating, and quantity indications govern.

2.3 WIRE AND CABLE GROUNDING CONDUCTORS

- A. Conform to CEC Table 8, except as otherwise indicated, for conductor properties, including stranding.
 - 1. Material: Copper.
- B. Equipment Grounding Conductors: Insulated with green color insulation.
- C. Grounding-Electrode Conductors: Stranded cable.
- D. Isolated Grounding Conductors: Insulated with green color, yellow striping insulation.
- E. Bare Copper Conductors: Conform to the following:
 - 1. Solid Conductors: ASTM B 3.
 - 2. Assembly of Stranded Conductors: ASTM B 8.
 - 3. Tinned Conductors: ASTM B 33.

2.4 MISCELLANEOUS CONDUCTORS

- A. Grounding Bus: Bare, annealed-copper bars of rectangular cross section.

- B. Braided Bonding Jumpers: Copper tape, braided No. 30 AWG bare copper wire, terminated with copper ferrules.
- C. Bonding Straps: Soft copper, 0.05 inch thick and 2 inches wide, except as indicated.

2.5 CONNECTOR PRODUCTS

- A. Grounding connections shall be exothermic welded, bolted clamp terminal, or pressure connector type.
- B. Exothermic-Welded Connections shall be provided in kit form and selected per manufacturer's written instructions for specific types, sizes, and combinations of conductors and connected items.
- C. Bolted Clamp connectors shall be heavy-duty type.
- D. Pressure connectors shall be high-conductivity-plated units.

PART 3 - EXECUTION

3.1 GENERAL

- A. The conduit system, supports, cabinets, switchboards, etc., and neutral conductors must be permanently and effectively grounded by means of approved ground clamps, in accordance with Title 24 of the California Code of Regulations. The neutral shall only be grounded at the main service location unless specifically noted otherwise on the drawings or required by the California Electrical Code.
- B. This Contractor shall exercise every precaution to obtain good contacts at all panel boxes, pull boxes, etc. Where it is not possible to obtain good contacts, the conduits shall be bonded around the boxes with a #6 AWG gauge, THWN wire with ground clamps.
- C. Where there is more than one building supplied from a common service, provide a grounding electrode system at each building per CEC 250.50 and connect per CEC 250.32(B)(1).

3.2 APPLICATION

- A. General
 - 1. All equipment cases, motor frames, etc. shall be completely grounded to satisfy applicable code requirements.
 - 2. The interior hot and cold water piping and the interior above ground gas piping shall be bonded to the building service equipment per CEC 250.104.
 - 3. Do not use underground gas piping as a grounding electrode.

B. Equipment Grounding Conductor

1. Pull an Equipment Grounding Conductor, insulated green, in **ALL** conduits, both metallic and non-metallic, unless they are designated for telephone or data cables.
2. Each disconnect switch shall have an Equipment Grounding Conductor (lay in wire type) which shall be used for grounding the disconnect enclosure. The ground wire shall continue and be connected to the enclosure of the equipment served.
3. Branch circuits shall be provided with an insulated grounding conductor run with the circuit conductors. This grounding conductor shall be in addition to the ground path provided by the continuously grounded metallic raceway system that encloses the phase and neutral conductors.
4. Comply with CEC Article 250 for types, sizes, and quantities of Equipment Grounding Conductors, except where specific types, larger sizes, or more conductors than required by CEC are indicated.

C. Terminal Cabinets

1. Terminate grounding conductor on cabinet grounding terminal.

D. Metal Poles Supporting Outdoor Lighting Fixtures

1. Ground pole to equipment grounding conductor run with supply branch circuit.

3.3 INSTALLATION

- A. General: Ground electrical systems and equipment according to CEC requirements, except where Drawings or Specifications exceed CEC requirements.
- B. Grounding Conductors: Route along the shortest and straightest paths possible, except as otherwise indicated. Avoid obstructing access or placing conductors where they may be subjected to strain, impact, or damage.

3.4 CONNECTIONS

- A. General: Make connections so possibility of galvanic action or electrolysis is minimized. Select connectors, connection hardware, conductors, and connection methods so metals in direct contact will be galvanically compatible.
1. Use electroplated or hot-tin-coated materials to assure high conductivity and to make contact points closer in order of galvanic series.
 2. Make connections with clean, bare metal at points of contact.
 3. Make aluminum-to-steel connections with stainless-steel separators and mechanical clamps.

4. Make aluminum-to-galvanized steel connections with tin-plated copper jumpers and mechanical clamps.
 5. Coat and seal connections having dissimilar metals with inert material to prevent future penetration of moisture to contact surfaces.
- B. Exothermic-Welded Connections: Use for connections to structural steel and for underground connections, except those at test wells. Comply with manufacturer's written instructions. Welds that are puffed up or that show convex surfaces indicating improper cleaning are not acceptable.
 - C. Equipment Grounding-Wire Terminations: For No. 8 AWG and larger, use pressure-type grounding lugs. No. 10 AWG and smaller grounding conductors may be terminated with winged pressure-type connectors.
 - D. Non-contact Metal Raceway Terminations: Where metallic raceways or metallic sheathed cables terminate at metal housings without mechanical and electrical connection to the housing, terminate each metallic raceway or metallic sheathed cable with a grounding bushing. Connect grounding bushings with a bare grounding conductor to grounding bus or terminal in housing. Bond electrically non-continuous conduits or sheathed cables at both entrances and exits with grounding bushings and bare grounding conductors, except as otherwise indicated.
 - E. Connections at Test Wells: Use compression-type connectors on conductors and make bolted- and clamped-type connections between conductors and grounding rods.
 - F. Tighten screws and bolts for grounding and bonding connectors and terminals according to manufacturer's published torque-tightening values. Where these requirements are not available, use those specified in UL 486A and UL 486B.
 - G. Compression-Type Connections: Use hydraulic compression tools to provide correct circumferential pressure for compression connectors. Use tools and dies recommended by manufacturer of connectors. Provide embossing die code or other standard method to make a visible indication that a connector has been adequately compressed on grounding conductor.
 - H. Moisture Protection: Where insulated grounding conductors are connected to grounding rods or grounding buses, insulate entire area of connection and seal against moisture penetration of insulation and cable.

3.5 FIELD QUALITY CONTROL

- A. Refer to Specification Section 269500 "Electrical Acceptance Tests" for minimum required testing of Grounding System.

3.6 ADJUSTING AND CLEANING

- A. Restore surface features, including vegetation, at areas disturbed by work of this Section. Reestablish original grades, except as otherwise indicated. Where sod has been removed, replace it as soon as possible after backfilling is completed. Restore

areas disturbed by trenching, storing of dirt, cable laying, and other activities to their original condition. Include topsoiling, fertilizing, liming, seeding, sodding, sprigging, and mulching. Comply with Division 02 Section "Landscaping." Maintain restored surfaces. Restore disturbed paving as indicated.

END OF SECTION 260526

SECTION 265113
LIGHTING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections shall form a part of this Section, with the same force and effect as though repeated here.

1.2 SUMMARY

- A. The Contractor shall provide, install, connect, commission, test and place into operation a complete lighting system in accordance with the requirements of 2019 California Energy Code, California Code of Regulations Title 24, Part 6, and as herein specified.
- B. Basis of Design for lighting system: Lighting systems are primarily based on the use of dimmable LED fixtures as specified herein.
- C. Provide lighting fixtures of sizes, types and ratings as indicated by Drawings and Schedules, including, but not limited to, housing, light emitting diode (LED) modules, LED drivers, reflectors, diffusers, emergency lighting units, starters, wiring, accessories, poles, pole bases and mounting hardware.

1.3 DEFINITIONS

- A. A Fixture is a complete unit, exit sign, or emergency lighting unit. Fixtures include LED modules or lamps, as specified, and parts required to distribute light, position and protect LED modules, and connect and disconnect LED modules to and from the power supply.
- B. An Emergency Lighting Unit is a fixture with integral emergency battery-powered supply and the means for controlling and charging the battery. It is also known as an emergency light set. Emergency lighting units include ones with and without integral LED or lamp heads.

1.4 DESIGNATION

- A. Unless otherwise shown on the plans, fixture type designation for an individual fixture shall be typical for similarly indicated fixtures within the entire room or defined area.
- B. Unless otherwise shown on the plans, fixtures mounted in a continuous row shall be of the same type as any individually designated fixture within the row.
- C. Where a fixture is undesignated on the plans, it shall be of the same type as fixtures of similar function within the room it is located or within similar rooms or areas.

1.5 COORDINATION

- A. Confirm compatibility and interface of other materials with luminaires and ceiling system. Report discrepancies to the Architect or Electrical Engineer, and defer ordering until clarified.
- B. Supply plaster frames, trim rings, and back boxes to other trades.
- C. Coordinate with Division 21-25 to avoid conflicts between luminaires, supports, fittings, and mechanical equipment.
- D. All fixtures shall be coordinated with the architectural reflected ceiling plan. If any discrepancies occur, the Architect or Electrical Engineer must be notified in writing before installation is started.

1.6 SUBMITTALS

- A. Submittals for this Section shall be made according to the Conditions of the Contract, Division 01 Specification Sections and Specification Section 260100.
- B. Product Data
 - 1. Submit complete list of fixtures and manufacturer's catalog cuts and installation instructions on each type of lighting fixture and component. Include data on LED modules, LED drivers, poles, accessories and finishes. Include details indicating compatibility with ceiling grid system.
 - 2. Submit outline drawings indicating dimensions and principal features of fixtures and poles.
 - 3. Submit manufacturer's data on lighting control equipment and components. Include complete wiring diagrams, with wiring types and any installation limitations.
 - 4. Submit battery and charger data for emergency lighting units.
- C. Shop Drawings
 - 1. Submit layout drawings of all non-standard or customized fixtures. Drawings shall include mounting and feed points and methods.
 - 2. Submit wiring diagrams detailing wiring for control system specific to this Project and showing both factory-installed and field-installed wiring, and differentiating between factory-installed and field-installed wiring.
- D. Operation and Maintenance Data
 - 1. Submit operation and maintenance data for lighting control devices to include in maintenance manuals specified in Division 01 and Specification Section 260100.

1.7 QUALITY ASSURANCE

- A. Nothing in these Drawings or Specifications shall be interpreted as to permit any device, system, or work that is not in compliance with the current California Code of Regulations. Where work is detailed and/or specified to a more restrictive standard or higher requirement, that standard or requirement shall govern such work. Applicable codes and regulations include, but are not limited to, the following:
 - 1. Fixtures and emergency lighting units shall be certified by the manufacturer as meeting efficiency requirements prescribed under the test methods of the current California Code of Regulations Title 20, Appliance Efficiency Regulations.
 - 2. All work, commissioning and testing shall fully comply with the 2019 California Energy Code.

1.8 WARRANTY

- A. The Special Warranties specified in this Article shall not deprive the Owner of other rights the Owner may have under provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by the Contractor under requirements of the Contract Documents.
- B. Special Warranty for Batteries
 - 1. Submit a written warranty executed by the manufacturer agreeing to replace (includes material and labor) rechargeable system batteries that fail in materials or workmanship within the specified warranty period.
 - 2. The Special Warranty Period shall be manufacturer's standard but not less than 10 years after date of Completion. Full warranty shall apply for first year, and prorated warranty for last 9 years.
- C. Special Warranty for Exterior Fixtures
 - 1. Submit a written warranty signed by manufacturer and installer agreeing to replace external parts of lighting fixtures exhibiting a failure of finish within specified warranty period.
 - 2. Failure of finish is defined as perforation or erosion of finish due to weathering or fading, staining, and chalking of finish color due to effects of weather and solar radiation.
 - 3. The Special Warranty Period shall be five years from date of Substantial Completion.
- D. Special Warranty for LED Modules and Drivers
 - 1. LED modules and drivers shall be provided with a five year warranty including labor charges for replacement of defective LED modules and drivers.

PART 2 - PRODUCTS

2.1 FIXTURES (GENERAL)

- A. The fixtures described in the Lighting Fixture Schedule on the drawings are to be used as a standard of quality to be maintained. Substitute items of same function, performance, and appearance are acceptable in conformance with Section 260100, except where noted otherwise.
- B. Provide fixtures complete with all fittings, LED modules, drivers, stems, hangers, and component parts to make a complete installation. Fixtures shall have a suitable interior means of grounding the enclosure.
- C. All attaching devices for recessed or surface mounted fixtures mounted in the ceiling shall be of formed or rolled steel and of sufficient strength to prevent movement of fixture after installation.
- D. The Architect, Electrical Engineer or Owner shall have the right to reject any damaged fixture, including any fixture with damaged or cracked finishes, broken or bent metal, damaged or broken lenses. Any fixture with an appearance deemed to be abnormal, may also be rejected by the Architect, Electrical Engineer or Owner. Rejected fixtures shall be removed and replaced with an undamaged fixture at no cost to the Owner.
- E. Lenses shall be virgin acrylic, 0.125 inches thick minimum, unless otherwise noted.
- F. There shall be no visible trademarks or monograms on the lighting fixtures.
- G. The Contractor shall provide lay-in frames for all exposed "T" ceiling systems and flanged trims for plasterboard, spline or metal lathe and plaster ceiling systems. The Contractor shall provide plaster or mounting frames where required.
- H. Doors, frames, and other internal access shall be smooth operating, free from light leakage under operating conditions, and arranged to permit re-lamping without use of tools. Arrange doors, frames, lenses, diffusers, and other pieces to prevent accidental falling during maintenance and when secured in operating position.
- I. Minimum reflectance of reflecting surfaces shall be as follows, except as otherwise indicated:
 - 1. White Surfaces - 85 percent.
 - 2. Specular Surfaces - 83 percent
 - 3. Diffusing Specular Surfaces - 75 percent
 - 4. Laminating Silver Metallized Film - 90 percent
- J. Fixtures installed in non-hazardous locations shall conform to UL 1598.
- K. Light emitting diode (LED) equipment used in fixtures shall conform to UL 8750.
- L. Exposed hardware shall be stainless steel.

2.2 LED FIXTURES

A. LED Modules

1. Color Temperature: 4,000 Kelvin (K)
2. Color Consistency: 2-step MacAdams ellipse
3. Color Rendering:
 - a. Indoor Fixtures: 90 CRI, or greater
 - b. Outdoor Fixtures: 70 CRI, or greater
4. Dimming: LED modules shall be compatible with the 0-10VDC dimmable LED driver.
5. Light Distribution: As indicated on Lighting Fixture Schedule
6. Rated Life: 60,000-hours, with 90-percent lumen maintenance at 50-degrees C, in accordance with TM-21-11.

B. LED Drivers

1. LED Drivers shall be 0-10VDC dimmable and shall be compatible with the LED modules and provide the correct 0-10VDC control voltage.
2. LED Drivers shall be independently tested by Intertek and shall bear the ETL Listed Mark as proof of meeting the applicable published safety standards.
3. LED Drivers shall be independently tested and certified by Underwriters Laboratories (UL) to meet FCC Regulations Part 15 and Part 18 and NEMA standards regarding electromagnetic and radio frequency interference, shall bear the United States UL Listed Mark as proof of meeting the applicable published standards.
4. LED Drivers shall comply with ANSI C62.41, Category A and IEEE 587 standards regarding harmonic distortion and surge protection. Total Harmonic Distortion (THD) shall not exceed 20 percent.
5. LED Drivers shall comply with IEC standard 60929, Annex E and shall source no more than 2mA of control current at 0-10VDC.
6. LED Drivers shall be solid-state, electronic, high power factor (minimum 0.9).
7. LED Drivers shall have a Class A sound rating.
8. LED Drivers shall have internal thermal protection to limit driver case temperature to a maximum of 75-degrees C.
9. Ambient Operating Temperature Range: -40-degrees C to 55-degrees C.
10. Rated Frequency: 60-Hertz
11. Rated Life: 60,000-hours

C. Quality Control

1. Testing and measurement of LED lighting fixture performance shall comply with IES LM-79-08 and IES LM-82-12.
2. Testing and measurement of LED and LED module lumen maintenance shall comply with IES LM-80-08.

2.3 EXTERIOR FIXTURES

- A. Metal parts of exterior fixtures exposed to weather conditions shall be constructed of cast or spun aluminum, cast bronze, stainless steel or other nonferrous metals available to withstand exposure.
- B. Steel fixtures installed in damp or wet locations shall have zinc-chromate or equal primer.
- C. Provide gaskets for all trims and housings.
- D. All exterior fixtures shall be supplied by a branch circuit that is controlled by an astronomic time clock that is programmed to automatically turn lights off during daylight hours.

2.4 POLES

- A. Light standards shall be as specified on the Lighting Fixture Schedule. Where a color is specified a powder coating and over galvanizing finish shall be applied.
- B. Poles shall have provisions for bonding to ground and shall be bonded to the equipment grounding conductor run with the supply branch circuit.

2.5 WET AND DAMP LOCATIONS

- A. All lighting fixtures installed in damp locations shall have UL approved "wet" or "damp" location labels visible in interior of fixtures.
- B. All lighting fixtures installed in wet locations shall have UL approved "wet" location labels visible in interior of fixtures.

PART 3 - EXECUTION

3.1 LIGHTING FIXTURES INSTALLATION

- A. Continuous runs of fixtures shall be installed straight and true.
- B. All new fixtures shall be securely anchored to prevent any possible chance of their falling.
- C. Install equipment level and plumb and according to manufacturer's written instructions.

- D. Mounting heights indicated are to bottom of unit for suspended devices and to center of unit for wall-mounted devices.
- E. Fixture installation shall conform to all applicable standards for installation, mounting, wiring, and quality.
- F. All fixtures shall be grounded and bonded in accordance with applicable codes. Where fixtures are installed in rows, a bonding screw shall be used to maintain bonding integrity from fixture to fixture.
- G. All fixtures, lenses, and other trim shall be aligned, cleaned, free of paint and blemishes before final acceptance.
- H. Fixtures weighing more than 50 pounds shall be supported independent of the fixture box. All outlet boxes shall be able to support a minimum of eight pounds.
- I. For fixtures weighing more than two pounds, support shall be provided at all four corners, plus the outlet box. Each support shall be able to carry a minimum of four times its intended load.
- J. Provide surface-mounted fixtures with UL approval for direct mounting on the various ceilings, unless specified otherwise. Spacers will not be approved.
- K. All fixtures shall be supported directly to building structural members or from bridging attached to the structural members, or shall have positive attached structural angles, and/or all-thread rod extensions from structure to ceiling plane. Provide all necessary blocking and hardware so that fixtures hang true, square, plumb, and in proper alignment.
- L. When fixtures are stem mounted, the variation in distance from the finished floor shall vary no more than ½" from the heights as specified on the plans.
- M. Provide surface-mounted fixtures with UL approval for direct mounting on the various ceilings, unless specified otherwise. Spacers will not be approved.
- N. Adjust aimable fixtures to provide required light intensities.

3.2 FIELD QUALITY CONTROL

- A. Refer to Specification Section 269500, Electrical Acceptance Testing, for minimum required lighting testing by Contractor.

END OF SECTION 265113

SECTION 266100
LIGHTING CONTROL SYSTEMS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections shall form a part of this Section, with the same force and effect as though repeated here.

1.2 SUMMARY

- A. The Contractor shall furnish, install, connect, commission, test and place into operation a complete system of lighting control equipment in accordance with the requirements of 2022 California Energy Code, California Code of Regulations Title 24, Part 6, and as herein specified.
- B. Basis of Design for lighting control systems: Lighting control systems are primarily based on the use of a distributed digital lighting management system for control of indoor lighting systems and astronomic time clock controls for outdoor lighting systems and sign lighting.
- C. Provide lighting control equipment as indicated by drawings and schedules, including but not limited to, digital lighting management system dimming equipment, occupancy sensors, daylight sensors (photosensors), astronomic time clocks and multi-pole lighting relays and contactors and wiring.
- D. Mandatory Indoor Lighting Controls:
 - 1. Area Controls – Provide area controls in each space to facilitate the manual control of lighting within that space.
 - 2. Automatic Shutoff Controls – Provide occupancy sensors in each space to automatically shut-OFF the lighting when the space is unoccupied.
- E. Mandatory Outdoor Lighting Controls:
 - 1. Outdoor incandescent lighting – Provide a motion sensor at each outdoor incandescent luminaire that is rated over 100-watts.
 - 2. Controls for outdoor lighting – Outdoor lighting shall be controlled by an astronomic time-switch that automatically turns OFF the outdoor lighting when daylight is available.
 - 3. Motion Sensor Controls – Provide a motion sensor control at each outdoor lighting fixture that is located 24-feet or less above the ground; except lighting fixtures rated 40-watts or less.

- F. Provide lighting control systems and equipment as indicated on drawings and schedules, including but not limited to, network lighting control system, network ceiling mounted occupancy sensors, network dimming manual control stations, network daylighting sensors (photosensors), network dimming control relays, network plug load control relays, network bridges, network gateways, network automated demand response control interface, network lighting control system integration for nLight enabled lighting fixtures, configuration tools, programming, configuration and documentation software, wall switches with integral occupancy sensors, emergency lighting control devices, astronomic time-switch controls and lighting control panels, photoelectric relays, and multi-pole lighting relays and contactors.

1.3 COORDINATION

- A. Confirm compatibility and interface of lighting control equipment with lighting fixtures, LED drivers and ceiling systems. Report discrepancies to the Architect or Electrical Engineer, and defer ordering until clarified.
- B. Coordinate with Divisions 21-25 to avoid conflicts between supports, fittings, and mechanical equipment.

1.4 SUBMITTALS

- A. Submittals for this Section shall be made according to the Conditions of the Contract, Division 01 Specification Sections and Specification Section 260100.
- B. Shop Drawings:
 - 1. Composite wiring and/or schematic diagram of each control circuit as proposed to be installed.
 - 2. Show exact location of all digital devices, including at minimum sensors, room controllers, and switches for each area on reflected ceiling plans.
 - 3. Provide room/area details including products and sequence of operation for each room or area. Illustrate typical acceptable room/area connection topologies.
 - 4. Network riser diagram including floor and building level details. Include network cable specification and end-of-line termination details, if required. Illustrate points of connection to integrated systems. Coordinate integration with mechanical and/or other trades.
- C. Product Data: Catalog sheets, specifications and installation instructions.
- D. Include data for each device which:
 - 1. Indicates where sensor is proposed to be installed.
 - 2. Prove that the sensor is suitable for the proposed application.

1.5 QUALITY ASSURANCE

- A. Nothing in these Drawings or Specifications shall be interpreted as to permit any device, system, or work that is not in compliance with the current California Code of Regulations. Where work is detailed and/or specified to a more restrictive standard or higher requirement, that standard or requirement shall govern such work. Applicable codes and regulations include, but are not limited to, the following:
1. All lighting control devices and systems shall be certified by the manufacturer as meeting the requirements of the current California Code of Regulations Title 20, Appliance Efficiency Regulations.
 2. All work, commissioning and testing shall fully comply with the 2022 California Energy Code.

1.6 CODES AND STANDARDS

- A. All work and materials shall fully comply with current rules and regulations of all applicable codes. Nothing in these Drawings or Specifications shall be interpreted as to permit any work not in compliance with these codes. Where work is detailed and/or specified to a more restrictive standard or higher requirement, that standard or requirement shall govern such work. Installation shall comply with the following codes and standards:
1. California Code of Regulations (CCR)
 - a. Title 8, Industrial Relations
 - b. Title 17, Public Health
 - c. Title 24, Building Standards
 2. 2022 California Building Code.
 3. 2022 California Fire Code.
 4. 2022 California Electrical Code.
 5. 2022 California Energy Code.
 6. Local Codes.
 7. ANSI/TIA/EIA-568-C-2012 Commercial Building Telecommunications Standard
 8. ANSI/TIA/EIA-607-B-2013 Grounding and Bonding Requirements for Telecommunications in Commercial Buildings
 9. BICSI TDMM Telecommunications Distribution Methods Manual 12th Edition
 10. NEMA VE1 Cable Tray Systems
 11. NEMA VE2 Cable Tray Installation Guides
 12. UL 467 Grounding and Bonding Equipment.
 13. UL 1479 Fire Tests of Through-Penetration Firestops

1.7 WARRANTY

- A. The **Warranties** specified in this Article shall not deprive the Owner of other rights the Owner may have under provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by the Contractor under requirements of the Contract Documents.
- B. Provide five-year manufacturer's warranty on all digital lighting management system room control devices and panels.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. This design is based on the use of lighting controls equipment manufactured by Acuity Brands. Subject to compliance with project and specification requirements, equivalent products by the following manufacturers may be considered if a complete substitution request including shop drawings is submitted and approved prior to bid.
 - 1. Network Lighting Controls nLight
 - 2. Cooper Greengate
 - 3. WattStopper

2.2 WALL SWITCH WITH INTEGRAL OCCUPANCY SENSOR

- A. Wall switches with integral occupancy sensors shall be comprised of an all digital, passive infrared technology (PIR) sensor to detect human presence.
- B. System shall have field selectable auto-ON or manual-ON operating modes and shall be factory set to the manual-ON operating mode.
- C. Wall switches with integral occupancy sensors shall be rated: 120/277-volt; 60Hz and shall have separate neutral and equipment grounding connection wire leads.
- D. Wall switches with integral occupancy sensing shall be Sensor Switch model WSX (in Janitors closets and storage rooms having only one lighting fixture).

2.3 CONTACTORS AND AUXILIARY RELAYS

- A. Contactors and relays shall comply with NEMA ICS 2.
- B. Devices are electrically operated and mechanically held. Number of poles and ratings are as indicated. Coordinate rating of each unit with type of load served, including tungsten filament and inductive-type loads.
- C. Modular Single-Pole Relays shall be split-coil, momentary-pulsed type, knockout mounting.

1. Low-Voltage Leads: 5-pin plug connector.
2. Pilot Contacts: Single pole.
3. Rated Capacity: 20A, 125VAC for 120-volt lighting loads, and 20A, 277VAC for 277-volt lighting loads.
4. Endurance: 50,000 cycles at rated capacity.

PART 3 - EXECUTION

3.1 PRE-INSTALLATION MEETING

- A. A factory authorized manufacturer's representative shall provide the electrical contractor a functional overview of the lighting control system prior to installation. The contractor shall schedule the pre-installation site visit after receipt of approved submittals to review the following:
 1. Confirm the location and mounting of all digital devices, with special attention to placement of occupancy and daylighting sensors.
 2. Review the specifications for low voltage control wiring and termination.
 3. Discuss the functionality and configuration of all products, including sequences of operation, per design requirements.
 4. Discuss requirements for integration with other trades.

3.2 INSTALLATION, CALIBRATION AND PROGRAMMING SERVICES

- A. Install all devices and wiring in a professional manner. All line voltage connections shall be tagged to indicate circuit and switched legs.
- B. Category 5e network cables shall not have boots installed at the RJ45 plug connectors.
- C. Provide and install category 5e cable with RJ-45 connectors interconnecting all control device, bridges and gateways. If pre-terminated cable is not used for room/area wiring, the contractor is responsible for testing each field-terminated cable following installation, and shall supply the lighting controls manufacturer with test results. Low voltage wiring topology must comply with manufacturer's specifications. Contractor shall route network wiring as shown in submittal drawings as closely as possible, and shall document final wiring location, routing and topology on as built drawings.
- D. Provide and install one $\frac{3}{4}$ " conduit with 2#12 copper THWN/THHN + 1#12 copper ground between nearest constant hot portion of lighting branch circuit and each PS 150 power supply. Connect line voltage to each power supply and connect the Class 2 low voltage wiring between the PS 150 power supply and network bridge.

- E. Install the work of this Section in accordance with manufacturer's printed instructions unless otherwise indicated. Before start up, the contractor shall test all devices to ensure proper communication.
- F. Calibrate all sensor time delays and sensitivity to guarantee proper detection of occupants and energy savings.
- G. Adjust time delay so that controlled area remains lighted while occupied.
- H. Provide written or computer-generated documentation on the configuration of the system including room by room description including:
 - 1. Sensor parameters, time delays, sensitivities, and daylighting setpoints.
 - 2. Sequence of operation, (e.g. manual ON, Auto OFF. etc.)
 - 3. Load Parameters (e.g. blink warning, etc.)
- I. Post start-up tuning – After 30 days from occupancy contractor shall adjust sensor time delays and sensitivities to meet the Owner's requirements. Provide a detailed report to the Architect / Owner of post start-up activity.

3.3 FACTORY SERVICES

- A. Upon completion of the installation, a manufacturer's factory authorized representative shall start up and verify a complete and fully functional system.
- B. Upon completion of the system start up, the factory-authorized technician shall provide the proper training to the owner's personnel on the adjustment and maintenance of the system.

3.4 ACCEPTANCE TESTING AND COMMISSIONING

- A. The Contractor shall provide the services of a California State certified lighting controls acceptance test technician (CLCATT) to act as the acceptance testing agent and verify the installation of the lighting control systems.
- B. Provide the services of a manufacturer's factory technician time to assist the CLCATT review the functionality and settings of the lighting control hardware per the requirements in the California State forms.
- C. The Contractor shall provide the services of a Commissioning Agent to provide commissioning of the indoor and outdoor lighting systems. The following commission tasks shall be completed in accordance with 2022 California Energy Code, Section 120.8 Building Commissioning:
 - 1. The Commissioning Agent shall obtain the Owner's Project Requirements.
 - 2. The Commissioning Agent shall compile and update a Basis of Design during the construction of the project.

3. The Commissioning Agent shall complete a commissioning plan including the following information:
 - a. General project information
 - b. Commissioning goals
 - c. Systems to be commissioned
 - d. Plans to test systems and components, which shall include:
 - 1) An explanation of the original design intent
 - 2) Equipment and systems to be tested, including the extent of the tests
 - 3) Functions to be tested
 - 4) Conditions under which the test shall be performed
 - 5) Measurable criteria for acceptable performance
 - 6) Commissioning team information
 - 7) Commission process activities, schedules and responsibilities
4. The Commissioning Agent shall provide function performance testing.
5. The Commissioning Agent shall provide system documentation and training requirements.
6. The Commissioning Agent shall provide a commissioning report.

3.5 TITLE 24 - PART 6 DOCUMENTATION OF INSTALLATION AND ACCEPTANCE FOR INDOOR AND OUTDOOR LIGHTING

- A. The Contractor shall prepare and submit the following Certificates of Installation:
 1. Indoor Lighting:
 - a. Certificate of Installation – Validation of Certificate of Compliance (NRCI-LTI-01-E)
 2. Outdoor Lighting:
 - a. Certificate of Installation – Outdoor Lighting (NRCI-LTO-01-E)
- B. The Contractor shall provide the services of a California state certified lighting controls acceptance test technician (CLCATT) to perform acceptance tests, prepare Certificates of Acceptance and certify that all indoor and outdoor lighting systems comply with the 2022 California Energy Code Section 130.4. The Certificates of Acceptance shall bear the name and certification identification number of the certified lighting compliance acceptance test technician. The certified lighting compliance acceptance test technician shall prepare and submit the following Certificates of Acceptance:
 1. Indoor Lighting:
 - a. Certificate of Acceptance – Lighting Controls (NRCA-LTI-02-A)
 2. Outdoor Lighting:

- a. Certificate of Acceptance – Outdoor Motion Sensor and Lighting Shut-off Controls (NRCA-LTO-02-A)
 - C. The Contractor shall properly calibrate all lighting control devices and systems. To verify that the lighting control devices and systems have been properly calibrated the Contractor shall conduct tests referred to in Chapter 13 of the 2022 California Energy Commission Nonresidential Compliance Manual and required by 2022 California Energy Code Article 130.4. The Contractor shall test and make modifications to the control until it passes the test in accordance with the following Reference Non-Residential Appendices:
 - 1. Indoor Lighting:
 - a. NA7.6.2 Shutoff Controls Acceptance
 - 2. Outdoor Lighting
 - a. NA7.8 Outdoor Lighting Controls
- 3.6 ON-SITE ASSISTANCE
- A. Within one year of date of Substantial Completion, provide up to three Project site visits, when requested, to adjust light levels, make program changes, and adjust sensors and controls to suit actual conditions.
- 3.7 PERSONNEL TRAINING
- A. Train Owner's building personnel in procedures for starting-up, testing and operating lighting control system equipment.

END OF SECTION 266100

SECTION 269500
ELECTRICAL ACCEPTANCE TESTS

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section defines the Electrical Acceptance Tests and checks that shall be made on all electrical equipment and wiring to ensure compliance with all applicable Codes and Standards, and with the requirements of the Contract Documents.
- B. All electrical equipment testing and related costs shall be included in the Contractor's bid.

1.2 GENERAL REQUIREMENTS

- A. The Contractor shall test equipment of all kinds installed on this project to determine whether it fulfills the requirements of these Specifications. The Contractor shall furnish all labor necessary to adjust the operation of the apparatus and make the connections for the tests. After the tests have been completed, the Contractor shall restore all connections, apparatus, etc., to their original condition.
- B. The Contractor shall retain the services of a qualified Independent Testing Agency holding a valid current C-10 License to perform **certain** tests and prepare reports, as enumerated in the following Articles. The Independent Testing Agency shall be a company that specializes in electrical equipment testing and shall be NETA or NICET certified.
- C. The contractor shall obtain approval from the architect of proposed independent testing agency(s) before any testing is started.
- D. Electrical systems, equipment and materials shall be tested prior to final acceptance of the work.

1.3 INDEPENDENT TESTING AGENCY REQUIREMENTS

- A. The Independent Testing Agency shall furnish personnel acceptable to Engineer to conduct testing. Supervising engineer shall have a minimum of five years' experience in testing of equipment of the type to be tested on this Project.
- B. The Independent Testing Agency shall furnish all labor required for and incidental to testing.
- C. The Independent Testing Agency shall provide minor field repairs, adjustments, and wiring modifications at the time of inspection and testing.
- D. The Independent Testing Agency shall furnish all necessary test equipment to satisfactorily perform all tests specified herein.

- E. The Independent Testing Agency shall check all devices for proper operation - checking for wear, tightness, dirt, etc.
- F. The Independent Testing Agency shall check for conformance to published curves.
- G. The Independent Testing Agency shall notify and coordinate with the Owner's representative at least 3 working days prior to the commencement of any Electrical Acceptance Testing. Tests shall be witnessed by the Owner's representative unless such witnessing is waived in writing by the Owner's Representative.

1.4 CODES AND STANDARDS

- A. 2022 California Electrical Code (CEC).
- B. National Electrical Manufacturer's Association (NEMA).
- C. Manufacturer's Instructions and Maintenance Manual applicable to each particular apparatus.
- D. OSHA Rules and Regulation.
- E. National Electrical Testing Association (NETA) "Acceptance Testing Specifications".
- F. Procedures as directed by Engineer.

1.5 CARE AND PRECAUTIONS

- A. Contractor shall be responsible for any damage to equipment or material due to improper test procedures or test apparatus handling, and shall replace or restore to original condition, any damaged equipment or material.
- B. Contractor shall furnish and use safety devices such as rubber gloves and blankets, protective screens, barriers, and danger signs to adequately protect and warn all personnel in the vicinity of the tests.

1.6 EQUIPMENT TO BE TESTED BY CONTRACTOR

- A. Perform the visual inspections, manual operations and tests on systems and equipment as described in Part 3, "Execution".
- B. Molded Case Circuit Breakers Rated Less Than 100A
- C. Power Cable
- D. Disconnect Switches
- E. Motors
- F. Lighting

G. Title 24 Acceptance Testing

1.7 SUBMITTALS

A. Submittals for this Section shall be made according to the Conditions of the Contract, Division 01 Specification Sections and Specification Section 260100.

B. Test Reports

1. Provide written test reports, signed and dated, for all tests prior to acceptance of the tested equipment by the Owner.
2. All tests shall be recorded on the following forms:
 - a. 269500 - 1 MULTIPLE CONDUCTOR CABLE MEGGER TEST, 300V AND LESS
 - b. 269500 - 2 SINGLE & MULTIPLE CONDUCTOR POWER CABLE MEGGER TEST, 600V AND LESS
3. Submit certified reports of Independent Tests and Observations indicating and interpreting test results specified in Part 3 of this Section.
 - a. The Test Report shall include the following:
 - 1) Description of equipment tested.
 - 2) Description of test procedure.
 - 3) Calibration record for all testing devices used.
 - 4) Test results.
 - 5) Recommendations.
 - 6) Appendix, including all field test reports.
 - b. Furnish six copies of completed report to the Electrical Engineer no later than ten days after test completion unless requested otherwise by Owner.
 - c. Instrumentation-Traceability: The testing agency shall provide calibration labels for all relays and circuit breakers tested.
 - d. Labels shall be self-adhesive and placed on covers or frames so as not to obscure nameplate, tap block or time dial. Label shall indicate date tested and firm name.

PART 2 - PRODUCTS

2.1 TESTING EQUIPMENT

A. Furnish suitable electrical instruments including voltmeters, ammeters, wattmeters, tachometers and all other equipment necessary to perform tests specified.

- B. Make necessary openings in circuits for testing instruments and place and connect all instruments, equipment and devices necessary for the tests. Upon completion of tests, remove instruments and instrument connections and restore all circuits to permanent condition.

2.2 TESTING COORDINATION

- A. Coordinate activities and cooperate with others on the Project to ensure that systems are energized when required, when loads are applied, and that other requirements of this Section of the Specifications are carried out in a timely, coordinated basis.
- B. Conduct tests in the presence of the Construction Manager. Notify the Construction Manager seven calendar days or more in advance when any test is to be performed, and do not start tests without the permission of the Construction Manager.
- C. Make up no permanent connections until correct phase sequence of all equipment is determined.

PART 3 - EXECUTION

3.1 GENERAL

- A. The Contractor shall provide Acceptance Testing on the entire Electrical System. Certain of this testing shall be performed by an Independent Testing Agency as indicated.
- B. Acceptance Testing shall include Visual Inspections, Manual Operations, Electrical Tests, and Functional Testing.
- C. Whenever possible, all Visual Inspections, Manual Operations and Electrical Tests shall be made just prior to energizing the equipment or circuits, and shall be coordinated with the field schedule and field conditions.
- D. Test reports on megger, dielectric absorption and high potential tests shall include the ambient temperature and relative humidity existing at the time of the tests.
- E. Should any piece of apparatus or any material or work fail during any of these Tests, it shall be immediately removed and be replaced by perfect material by this Contractor at his expense and the portion of the work replaced be again tested by the Contractor.
- F. Before testing and energizing a system, all necessary precautions shall be taken to ensure the safety of personnel and equipment. All conductors and all electrical equipment shall be properly insulated and enclosed. All enclosures for conductors and equipment shall be properly grounded. Insulation resistance measurements must have been made and approved on all conductors and energized parts of electrical equipment.
 - 1. During actual testing, the Contractor or Independent Testing Agency shall:

- a. Ensure that temporary power terminations are connected in such a manner that commercial power may be restored in forty-five minutes upon request.
 - b. Place temporary power cables out of the way in a safe manner that provides no hazard to personnel or equipment in the area.
 - c. Provide all special connections required.
 - d. Conduct all tests in presence of the representative except where advised this would not be necessary.
- G. The entire installation shall be free from short circuits and improper grounds. Panels and circuits shall be tested for grounds and shorts with mains disconnected from the feeder, branches connected, lamps removed or omitted from the sockets and all wall switches closed. Each individual circuit shall be tested at the panel with the equipment connected for proper operation
- H. The following minimum tests are required, but shall not be limited to this list. Tests will be supervised and witnessed by the Construction Manager:
 - 1. Proper phase rotation.
 - 2. Short circuits.
 - 3. Improper grounds.
 - 4. Power and control electrical circuits for circuit continuity and function test.
- I. Furnish all personnel, labor, meters, instruments, cable, connections, equipment and apparatus necessary for making all tests.
- J. Check and test all switchboards, transformers, panelboards, feeders, power and control cables, communication system devices and wiring, and all connections to all equipment.
- K. After wires and cables are in place and connected to devices and equipment, the system shall be tested for short circuits, improper grounds, and other faults. If fault condition is present, the trouble shall be rectified and the wiring system shall be retested.
- L. A voltage test shall be made at each lighting panel, distribution panel and at the last outlet on each circuit. If drop in potential exceeds one percent, correct the condition by locating the ground or high resistance splice or connection and retest.
- M. Any wiring device, electrical apparatus, or lighting fixture grounded or shorted on any integral "live" part, shall be removed and the trouble rectified by replacing the defective parts or materials.
- N. All final tests shall be witnessed by the Construction Manager and three copies of the verified test results shall be given to the Architect/Engineer and Construction Manager promptly upon completion of a test.

- O. Provide assistance to the various equipment manufacturers' field engineers as required in the testing and adjusting of the electrical power and control equipment. Cooperation shall be such that a minimum of time is required for equipment testing.
- P. A log shall be maintained for all tests. This log shall be certified before completion of the project, both as to test value and date of test. All major equipment such as the switchboard and panelboards shall be energized initially in the presence of the Construction Manager.
- Q. The Owner reserves the right to operate any system or equipment prior to final completion and acceptance of the work. Such preliminary operation shall not be construed as an acceptance of any work. Each piece of equipment and all of the systems shall be adjusted to insure proper functioning and shall be left in first class operating condition.

3.2 VISUAL INSPECTIONS

- A. Prior to Manual Operation and Electrical Testing, perform Visual Inspections to verify the following:
 - 1. The equipment is completely and properly installed.
 - 2. The equipment is free from damage and defects.
 - 3. Shipping blocks and restraints have been removed.
 - 4. Electrical terminations have been properly tightened.
 - 5. The equipment has been properly aligned.
 - 6. The equipment has been properly lubricated.
 - 7. The ventilation louvers are open and unobstructed.
 - 8. Voltages and phases have been properly identified.
 - 9. Terminations in control panels have been properly identified.
 - 10. The equipment is ready to be tested

3.3 MANUAL OPERATION

- A. Prior to any Electrical Testing, mechanical devices shall be exercised or rotated manually to verify that they operate properly and freely.

3.4 ELECTRICAL TESTS BY CONTRACTOR

- A. Molded Case Circuit Breakers rated less than 100A
 - 1. Circuit breakers will be operated manually several times to ensure smooth operation.

2. Molded case will be inspected for cracks.
3. Rated current will be passed through each phase and millivolt readings taken across contacts.
4. Time current characteristic tests will be performed by passing 300% rated current through each phase and monitoring trip time.
5. Instantaneous pickup current will be determined by finding the current level at which the breaker trips out in less than 2 cycles.
6. Insulation resistance tests will be performed at 1000 Volts DC.
7. Circuit breaker covers will be removed on unsealed units and checked for cracks. Interphase barriers and arc chutes to be inspected. All bolts and lugs will be tightened. All internal auxiliary devices will be inspected.
8. Contacts, shunts, etc., will be visually inspected for wear and alignment.
9. Inverse trip time, instantaneous pickup current and millivolt drop across contacts, insulation resistance values, as well as deficiencies causing breaker to function outside published limits will be recorded. Times will then be compared with manufacturer's or NEMA published values.

B. Power Cable

1. The 600-volt insulated wires and cables shall be factory tested prior to shipment in accordance with ICEA Standards for the insulation specified.
2. Perform a continuity check and a 1,000 volt DC megger test on 600 volt power cables No. 6 AWG and larger.
 - a. The megger test shall be performed between each pair of conductors and from each conductor to ground.
 - b. The megger test shall be performed for 15 seconds or until the insulation resistance value stabilizes.
 - c. The insulation resistance between conductors and from each conductor to ground shall be 100 megohms minimum in one minute or less. In addition, the lowest insulation resistance value shall not differ from the highest value by more than 20 percent.
3. Phase conductors, if shorted, grounded or at fault shall be removed, shall be replaced and the wiring system shall be retested.

C. Disconnect Switches

1. Check for cleanliness of contacts, operation, etc.
2. Lubricate contacts and mechanical devices.
3. Check fuse-clip tightness.
4. Perform a 1,000-volt megger test on disconnect switches rated for 600V and at 500 volts for disconnect switches rated for 240V.

D. Motors

1. Perform a 1,000-volt megger test on 460 volt, 3 phase motors, and a 500 volt megger test on 200-230 volt, 3 phase motors.
2. "Bump" motors to verify proper direction of rotation.
3. Run motors and check for vibration and overheating.

E. Lighting

1. Upon completion of installation of lighting fixtures and controls, and after building circuitry has been energized, apply electrical energy to demonstrate capability and compliance with requirements. The Contractor shall replace at his expense all noisy ballasts, broken or cracked lenses or other defective items. Where possible, correct malfunctioning units at site, then re-test to demonstrate compliance; otherwise, remove and replace with new units, and proceed with re-testing.
2. At the time of substantial completion, replace lamps in interior lighting fixtures, which are observed to be noticeably dimmed after Contractor's use and testing, as judged by Architect or Electrical Engineer.
3. Replace defective and burned out LED fixtures for a period of one-year following the time of substantial completion.
4. Give advance notice of dates and times for field tests.
5. Provide instruments to make and record test results.
6. Tests and Observations
 - a. Verify normal operation of lighting units after installing fixtures and energizing circuits with normal power source.
 - b. Check for excessively noisy ballasts.
 - c. Interrupt electrical energy to demonstrate proper operation of emergency lighting installation. Include the following information in tests of emergency lighting equipment:
 - 1) Duration of supply
 - 2) Low battery voltage shutdown.
 - 3) Normal transfer to battery source and retransfer to normal.
 - 4) Low supply voltage transfer.
 - 5) Report results of tests in wiring.

F. Title 24 Acceptance Testing

1. Perform tests as outlined in Part 3 of Specification Section 266100.

3.5 FUNCTIONAL TESTING

- A. All automatic and manual functions shall be checked for proper operation.
- B. All indicating circuits, lights and alarms shall be tested for correct operation. Burned out indicators shall be re-lamped.
- C. Upon completion of the Work, place the entire installation in operation, test for proper function, and show systems and equipment to be free of defects.

END OF SECTION 269500

FORM 269500 – 1MULTIPLE CONDUCTOR CABLE MEGGER TEST, 300 VOLTS & LESS

WIRING - SIGNAL & COMMUNICATION CABLE

Testing shall be performed before connecting the cables to the terminals at either end. Continuity of each conductor shall be checked at this time. Each conductor shall be checked with a 500 volt megger to ground, with all other conductors in the cable and shield, grounded. The minimum acceptable megger resistance shall be 50 megohms for each conductor to ground.

PROJECT NAME _____

FEEDER NUMBER _____ LOCATION _____

CABLE SIZE _____ CABLE LENGTH _____

NO. OF CONDUCTORS _____ INSULATION TYPE _____

MANUFACTURER _____ LINE VOLTAGE _____

TEMPERATURE _____ HUMIDITY _____

MEGGER TYPE _____ SERIAL NUMBER _____

TEST VOLTAGE _____ MULTIPLIER _____

REMARKS _____

CONDUCTOR NO.	MEGOHMS		CONTINUITY		CONDUCTOR NO.	MEGOHMS		CONTINUITY	
	C/C	C/S	PASS	FAIL		C/C	C/S	PASS	FAIL

TEST PERFORMED BY _____
Signature Date

TEST WITNESSED BY _____
Signature Date

FORM 269500 – 2SINGLE & MULTIPLE CONDUCTOR POWER CABLE MEGGER TEST, 600 VOLTS & LESS

WIRING – FEEDER CIRCUITS

Testing shall be performed before connecting the cables to the terminals at either end. Continuity of each conductor shall be checked at this time. Each conductor shall be checked with a 500-volt megger to ground, with all other conductors (including shield) in the conduit or cable grounded. The minimum acceptable megger resistance shall be 50 megohms for each conductor to ground.

PROJECT NAME _____

FEEDER NUMBER _____ LOCATION _____

CABLE SIZE _____ CABLE LENGTH _____

NO. OF CONDUCTORS _____ INSULATION TYPE _____

MANUFACTURER _____ LINE VOLTAGE _____

TEMPERATURE _____ HUMIDITY _____

MEGGER TYPE _____ SERIAL NUMBER _____

TEST VOLTAGE _____ MULTIPLIER _____

REMARKS _____

Cable No	MEGOHMS Phase A	MEGOHMS Phase B	MEGOHMS Phase C

TEST PERFORMED BY _____

Signature

Date

TEST WITNESSED BY _____

Signature

Date

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8. Abatement Records

Forensic Analytical Consulting Services, Inc.
Selma Unified School District **Selma High School**

August 11, 2023

This report is broken into four main sections:

1. This Cover Letter, which is a brief summary of the suspect materials found during the inspection.
2. A Functional Space Notes (FSN) report, which is a room by room breakdown of all materials found during the inspection. The FSN is the report that is most useful for creating demolition or renovation specifications, or for notifying contractors who are working on site.
3. A Homogeneous Material Record (HMR), which is a material by material breakdown of all materials found during the inspection that are suspected to contain asbestos. This HMR satisfies the EPA's AHERA regulations for listing asbestos-containing materials. It can, also, be useful when planning renovation/demolition projects, especially those that will have all asbestos-containing materials removed.
4. The Form C Assessments are case by case assessments. This includes required response action options for all friable asbestos containing materials, all friable assumed (to contain asbestos) materials, and all Thermal System Insulation (TSI) found during the inspection. These assessments have response action dates that have been left blank. The Designated Person for your Local Education Agency (LEA) should place dates into these forms that are reasonable for the district to meet.

Also, included in this report, you will find FAC's Special Notes page concerning possible problems with drywall sampling and renovation/demolition projects, and a list of commonly used abbreviations that are found throughout the reports noted above.

Forensic Analytical Consulting Services, Inc.

Selma Unified School District Selma High School

August 11, 2023

At this site, Selma High School, all non-friable materials listed below were inspected and were found to be in good condition. These materials will remain non-friable as long as they are not sanded, drilled, cut or otherwise abused so that a powder is produced. Removal of these materials will require an asbestos abatement contractor, in most cases.

12" ACT Pinhle Fissure (Admin) — MISC — 2 %	12" ACT Pinhle Fissure (Cafeteria) — MISC — 2 %
12" ACT Pinhle Fissure (Shop) — MISC — 2 %	12" ACT Pinhle Uniform — MISC — Assumed
12" ACT Pinhole Fissure classroom wing — MISC — 2 %	12" ACT Pinhole Random — MISC — Assumed
12" ACT Pinhole Uniform — MISC — 2 %	12" ACT Small Pinhole — MISC — 2 %
12" Vinyl Floor Tile Off-White Oatmeal — MISC — 5 %	12" Vinyl Floor Tile, Beige Pebble — MISC — 3 %
12" Vinyl Floor Tile, Grey Oatmeal — MISC — 5 %	12" Vinyl Floor Tile, Grey Oatmeal (Caf) — MISC — Assumed
2'x4' FCP Pinhole Pissure — MISC — Assumed	4" Vinyl Baseboard and Mastic, Brown — MISC — 2 %
6" Ceramic Tile, Grey — MISC — Assumed	9" Vinyl Floor Tile Beige Streaks — MISC — 5 %
9" Vinyl Floor Tile, Grey w/ Yellow — MISC — 5 %	Black Mastic (Admin) — MISC — 5 %
Black Mastic (Band) — MISC — Assumed	Black Mastic (Cafeteria) — MISC — Assumed
Black Mastic (Classrooms) — MISC — Assumed	Black Mastic (Locker Rooms) — MISC — Assumed
Black Mastic (Shop) — MISC — Assumed	Brown Baseboard Mastic — MISC — Assumed
Carpet and Mastic, Grey Multi Color — MISC — 3 %	Carpet and Mastic, Multi Color — MISC — 5 %
Concealed Floor Tile, White — MISC — 5 %	Concealed Tile, Beige — MISC — 5 %
Concrete — MISC — Assumed	Drywall, Painted (shop) — MISC — Assumed
Pipe Insulation — TSI — Assumed	Transite Ceiling Panels — MISC — Known
Transite Flue Pipe — MISC — Known	Transite Fume Hood — MISC — Known
Unit Ventilator — MISC — Assumed	

Forensic Analytical Consulting Services, Inc.

Selma Unified School District Selma High School

August 11, 2023

The following non-friable thermal system insulation (TSI) materials were found at this site. Even though these materials are technically friable by definition, they may be treated as non-friable materials as long as they remain in an intact condition. A Form C and an evaluation sheet are included for these materials.

Pipe Insulation	— TSI — Assumed	01 - Admin — 10 - Custodial Closet
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The following friable asbestos-containing materials were noted at this site. Friable materials are those that can release asbestos fibers with a minimum of contact or disturbance. Friable asbestos-containing materials can only be handled by an asbestos abatement contractor. Evaluation sheets and Form Cs are provided for the materials listed.

2'x4' FCP Pinhole Pissure — MISC — Assumed	18 - 1301-1306 Classroom Wing	— 03 - Room 1306
2'x4' FCP Pinhole Pissure — MISC — Assumed	18 - 1301-1306 Classroom Wing	— 05 - Room 1305
2'x4' FCP Pinhole Pissure — MISC — Assumed	19 - 1501-1508 Classroom Wing	— 01 - Room 1502
2'x4' FCP Pinhole Pissure — MISC — Assumed	19 - 1501-1508 Classroom Wing	— 02 - Room 1504
2'x4' FCP Pinhole Pissure — MISC — Assumed	19 - 1501-1508 Classroom Wing	— 03 - Room 1506
2'x4' FCP Pinhole Pissure — MISC — Assumed	19 - 1501-1508 Classroom Wing	— 04 - Room 1508
2'x4' FCP Pinhole Pissure — MISC — Assumed	19 - 1501-1508 Classroom Wing	— 05 - Room 1507
2'x4' FCP Pinhole Pissure — MISC — Assumed	19 - 1501-1508 Classroom Wing	— 06 - Room 1505
2'x4' FCP Pinhole Pissure — MISC — Assumed	19 - 1501-1508 Classroom Wing	— 07 - Room 1503
2'x4' FCP Pinhole Pissure — MISC — Assumed	19 - 1501-1508 Classroom Wing	— 08 - Room 1501
2'x4' FCP Pinhole Pissure — MISC — Assumed	19 - 1501-1508 Classroom Wing	— 09 - Server Room
2'x4' FCP Pinhole Pissure — MISC — Assumed	20 - Library	— 01 - Library (main)
2'x4' FCP Pinhole Pissure — MISC — Assumed	20 - Library	— 02 - Office 1
2'x4' FCP Pinhole Pissure — MISC — Assumed	20 - Library	— 03 - Book Storage

Forensic Analytical Consulting Services, Inc.

Selma Unified School District Selma High School

August 11, 2023

2'x4' FCP Pinhole Pissure — MISC — Assumed	20 - Library	— 04 - Book Storage Closet
2'x4' FCP Pinhole Pissure — MISC — Assumed	20 - Library	— 05 - Classroom
2'x4' FCP Pinhole Pissure — MISC — Assumed	24 - Classrooms FCOE 1 & 2	— 02 - Classroom FCOE 1
2'x4' FCP Pinhole Pissure — MISC — Assumed	24 - Classrooms FCOE 1 & 2	— 02 - FCOE 1 Office
2'x4' FCP Pinhole Pissure — MISC — Assumed	24 - Classrooms FCOE 1 & 2	— 04 - FCOE 1 RR
2'x4' FCP Pinhole Pissure — MISC — Assumed	26 - Classroom Wing 2301-2310	— 01 - Room 2302
2'x4' FCP Pinhole Pissure — MISC — Assumed	26 - Classroom Wing 2301-2310	— 02 - Room 2302 Office
2'x4' FCP Pinhole Pissure — MISC — Assumed	26 - Classroom Wing 2301-2310	— 03 - Room 2306
2'x4' FCP Pinhole Pissure — MISC — Assumed	26 - Classroom Wing 2301-2310	— 07 - Room 2303
2'x4' FCP Pinhole Pissure — MISC — Assumed	26 - Classroom Wing 2301-2310	— 08 - Room 2301

See "Special Notes" section concerning drywall sampling and renovations/demolitions. This page contains valuable information which must be considered before any alterations, modernization, renovations or demolitions occur.

Following the "Special Notes" and "Abbreviations" pages you will find the "Homogeneous Materials Record (HMR)". The HMR lists each suspect material (asbestos-containing or not), sample numbers, the location of the material in each building, the percent asbestos of each suspect material, the approximate square footage of each material in these locations and the friability of the material. When you use the HMR sheets you can pick a material and then go through the list and note every location where that material is located.

All materials not identified in this report that are discovered at the site must be assumed to contain asbestos until sampled and proven otherwise. Although there may be materials that have been excluded from the AHERA Management Plan by a letter stating it is non-asbestos-containing, the EPA's "National Emission Standards for Hazardous Air Pollutants (NESHAP)" does not allow for materials to be considered non-asbestos through the use of written documentation. This makes it necessary to bulk sample materials to prove they are non-asbestos-containing prior to renovations, demolitions and modernizations, no matter when they were installed.

Be sure to add this report to your management plan at the facilities office.

Date Printed: 10/4/2023

Forensic Analytical Consulting Services, Inc.

Special Note

SPECIAL NOTE NO. 1 - DRYWALL/SHEETROCK

Drywall and its components continue to present problems both for our clients and for us. The inconsistency of sample results indicates that even the EPA/AHERA method for sampling drywall is inadequate. Although three to fifteen or more drywall samples may have been collected at your site(s), the results may not be representative of what is present. Asbestos sometimes is found in the drywall itself, in its tape and/or joint compound or in the final texture coat applied to finish the appearance. It can be found in any combination in these materials. It can also be found in patching materials used to repair damaged drywall. Paint added to otherwise non-homogeneous materials can also produce inappropriate assumptions that all materials are the same.

To account for the variability in drywall construction we strongly advise that any substantial renovation project involving drywall be preceded by a comprehensive evaluation of the materials designated for handling.

SPECIAL NOTE NO. 2 - RENOVATIONS/DEMOLITIONS

Please be aware that many possible asbestos-containing materials were specifically exempted from inspection and identification by the AHERA sampling protocol. These exempted materials included roofing materials, most exterior plasters, exterior window putty, exterior transite panels and shingles, some exterior thermal system insulation and a few other materials. AHERA also exempted heat resistant counter tops and transite blackboards and a few other materials found inside of buildings.

While these materials are exempted by AHERA, they are not exempted by Cal/OSHA or EPA's regulation in its "National Emission Standards for Hazardous Air Pollutants" (NESHAP). Therefore, any renovation activity involving these materials must be preceded by a sampling project to identify asbestos-containing materials which may be regulated by these agencies or the local Air Pollution Control District. You cannot rely on your AHERA reports to identify all of these additional materials.

SPECIAL NOTE NO. 3 - NEW MATERIALS AND BUILDINGS

Materials installed since the previous inspection must be certified, in writing, as non-asbestos containing materials, sampled to test for asbestos content, or assumed to contain asbestos. This certification must be from the product manufacturer or the construction engineer on the project during which the new materials were installed. This certification must be placed in your management plan.

Buildings installed (portables) or constructed since October 12, 1988 must be certified to be asbestos-containing building material (ACBMs) free by the manufacturer (portables), architect or construction engineer, or they must be inspected for ACBMs. This certification must be placed in the management plan for the site at which the new building was installed or constructed.

New sites, built after October 12, 1988, require a Management Plan. If ACBM free certification letters are obtainable for all buildings at the new site, no inspection is required, although a Management Plan must still be written.

SPECIAL NOTE NO. 4 - Materials Containing Trace Amounts of Asbestos

Materials containing trace amounts of asbestos are not covered by the AHERA regulations as the EPA does not consider them to be asbestos-containing materials. However, Cal/OSHA does consider materials containing trace amounts of asbestos (down to 0.1%) to be asbestos-containing, and any level of asbestos in a material must be considered a potential exposure hazard.

Materials listed as containing trace amounts of asbestos require special handling procedures - per Cal/OSHA and training for the employees working with these materials. Waste materials containing less than 1% asbestos must be "point counted" or handled as a hazardous waste.

Date Printed: 10/4/2023

Forensic Analytical Consulting Services, Inc.

Abbreviations

The following list includes most of the abbreviations you may find within this report.

<u>ACT:</u>	Acoustic Ceiling/Wall Tile
<u>B-I-I:</u>	Blown-In-Insulation
<u>BLR:</u>	Boiler
<u>C'Ing</u>	Ceiling
<u>Carp:</u>	Carpet
<u>Carp&Mast</u>	Carpet and Mastic
<u>Bsbrd&Glue</u>	Baseboard and Glue
<u>DIP:</u>	Drop In Panel
<u>DIT:</u>	Drop In Tile
<u>FCP:</u>	False Ceiling Panel
<u>FRP:</u>	Fiberglass Reinforced Plastic
<u>FG:</u>	Fiberglass
<u>HMR #:</u>	Homogeneous Material Number
<u>HTR:</u>	Heater
<u>LINO:</u>	Linoleum
<u>MISC</u>	Miscellaneous
<u>PW:</u>	Pipe Wrap
<u>S-O-C:</u>	Sprayed-On Ceiling
<u>SOFP:</u>	Sprayed on Fire Proofing
<u>S-O-W:</u>	Sprayed-On Wall
<u>SURF:</u>	Surfacing
<u>T-O-C:</u>	Troweled-On Ceiling
<u>T-O-W:</u>	Troweled-On Wall
<u>TSI:</u>	Thermal System Insulation
<u>VFT:</u>	Vinyl Floor Tile
<u>W & C:</u>	Walls and Ceilings

AHERA Forms

**ASBESTOS HAZARD EMERGENCY RESPONSE ACT (AHERA)
GENERAL DATA
(FORM A)**

Inspection Date: August 11, 2023

LOCAL EDUCATION AGENCY				COUNTY	
Selma Unified School District					
SCHOOL NAME				SCHOOL PHONE NUMBER	
Selma High School				(559) 898 - 6550	
ADDRESS	(Number)	(Street)	(City)	(State)	(Zip)
3125 South Wright Street			Selma	CA	93662
CDS CODE*	SCHOOL ENROLLMENT*		NO. SCHOOL EMPLOYEES*		NO. BUILDINGS AT SCHOOL
10-62430-1036672	1		0		0

LEA AHERA DESIGNEE

NAME			PHONE NUMBER		
Marty Hooton			(559) 898 - 6500		
ADDRESS	(Number)	(Street)	(City)	(State)	(Zip)
3036 Thompson Avenue			Selma	CA	93662
TRAINING COURSE(S) AND DATE(S)					

TOTAL TRAINING HOURS

0

MANAGEMENT PLANNER

NAME			PHONE NUMBER		
Tyler Faison			(209) 551 - 2000		
ADDRESS	(Number)	(Street)	(City)	(State)	(Zip)
313 Banner Court, STE B			Modesto	CA	95356
ACCREDITATION NUMBER	TRAINING AGENCY				
FACSMR0854	FACS, Inc.				

DOCUMENTS ATTACHED (CHECK APPROPRIATE BOXES)

<input checked="" type="checkbox"/> Record of Friable and Non-Friable ACBM (Form B)	<input checked="" type="checkbox"/> Physical and Hazard Assessment of Friable ACBM or Friable Assumed ACBM (Form C)	<input checked="" type="checkbox"/> Operations and Maintenance Program	<input checked="" type="checkbox"/> Periodic Surveillance Plan
<input checked="" type="checkbox"/> Reinspection Plan (Form F)	<input checked="" type="checkbox"/> Parent/Employee Notification	<input checked="" type="checkbox"/> Resources Needed (Form H)	

We certify that the general Local Education Agency (LEA) responsibilities, as stipulated by 40 CFR Part 763, have been met or will be met and that this Management Plan includes all buildings at this school.

MANAGEMENT PLANNER SIGNATURE	DATE
LEA DESIGNEE SIGNATURE	DATE
LEA SUPERINTENDENT SIGNATURE	DATE

Date Printed: 10/4/2023

RECORD OF FRIABLE AND NONFRIABLE ACM (FORM B)

Inspection Date: August 11, 2023

					CDS CODE 10-62430-1036672	
SCHOOL Selma High School					SCHOOL PHONE NUMBER (559) 898 - 6550	
ADDRESS	(Number)	(Street)	(City)	(State)	(Zip)	
3125 South Wright Street			Selma	CA	93662	

- IMPORTANT -

Each building and functional space with friable ACBM or friable assumed ACBM listed on this form requires completion of FORM C (PHYSICAL AND HAZARD ASSESSMENT OF FRIABLE ACBM OR FRIABLE ASSUMED ACBM). Indicate location of material on blueprint, diagram or narrative in square or linear feet, and attach a copy (Sec. 763.93).

LINE	BUILDING NAME & FUNCTIONAL SPACE <i>(Indicate Address if Different From Above)</i>	CHECK ONE			CHECK ONE			
		SUR-FACING	TSI	MISC	ACBM		ASSUMED ACBM	
					FRIABLE	NON-FRIABLE	FRIABLE	NON-FRIABLE
1.	01 - Admin - 12" Vinyl Floor Tile, Grey Oatmeal			X		X		
2.	01 - Admin - Carpet and Mastic, Grey Multi Color			X		X		
3.	01 - Admin - 12" ACT Pinhle Fissure (Admin)			X		X		
4.	01 - Admin - Black Mastic (Admin)			X		X		
5.	01 - Admin - Pipe Insulation		X					X
6.	01 - Admin - 9" Vinyl Floor Tile, Grey w/ Yellow			X		X		
7.	01 - Admin - Concrete			X				X
8.	02 - Cafeteria - 12" Vinyl Floor Tile, Grey Oatmeal			X		X		
9.	02 - Cafeteria - 12" Vinyl Floor Tile, Grey Oatmeal (Caf			X				X
10.	02 - Cafeteria - 12" ACT Pinhle Fissure (Cafeteria)			X		X		
11.	02 - Cafeteria - Transite Ceiling Panels			X		X		
12.	02 - Cafeteria - Black Mastic (Cafeteria)			X				X
13.	03 - Dining Hall - Concrete			X				X
14.	03 - Dining Hall - 12" ACT Small Pinhole			X		X		
15.	03 - Dining Hall - 6" Ceramic Tile, Grey			X				X
16.	04 - Band - 12" Vinyl Floor Tile, Grey Oatmeal			X		X		
17.	04 - Band - Concrete			X				X
18.	04 - Band - 12" ACT Pinhole Uniform			X		X		
19.	04 - Band - Black Mastic (Band)			X				X
20.	04 - Band - 12" Vinyl Floor Tile Off-White Oatmeal			X		X		
21.	04 - Band - 4" Vinyl Baseboard and Mastic, Brown			X		X		

See attached 'Homogeneous Materials Records' for all materials and their locations by building. On Form B all buildings are listed, and a summary of all non-friable and friable materials is provided. Friable materials and their locations are listed separately under each building on Form B.

Date Printed: 10/4/2023

RECORD OF FRIABLE AND NONFRIABLE ACM (FORM B)

Inspection Date: August 11, 2023

					CDS CODE 10-62430-1036672	
SCHOOL Selma High School					SCHOOL PHONE NUMBER (559) 898 - 6550	
ADDRESS	(Number)	(Street)	(City)	(State)	(Zip)	
3125 South Wright Street			Selma	CA	93662	

- IMPORTANT -

Each building and functional space with friable ACM or friable assumed ACM listed on this form requires completion of FORM C (PHYSICAL AND HAZARD ASSESSMENT OF FRIABLE ACM OR FRIABLE ASSUMED ACM). Indicate location of material on blueprint, diagram or narrative in square or linear feet, and attach a copy (Sec. 763.93).

LINE	BUILDING NAME & FUNCTIONAL SPACE <i>(Indicate Address if Different From Above)</i>	CHECK ONE			CHECK ONE			
		SUR-FACING	TSI	MISC	ACBM		ASSUMED ACBM	
					FRIABLE	NON-FRIABLE	FRIABLE	NON-FRIABLE
22.	05 - Pool House - Concrete			X				X
23.	06 - Snack Bar - Concrete			X				X
24.	07 - Boy's Locker Room (1719) - 12" Vinyl Floor Tile, Grey Oatmeal			X		X		
25.	07 - Boy's Locker Room (1719) - Concrete			X				X
26.	07 - Boy's Locker Room (1719) - Transite Ceiling Panels			X		X		
27.	08 - Concessions - Concrete			X				X
28.	09 - Gym - Concrete			X				X
29.	09 - Gym - 12" ACT Pinhole Random			X				X
30.	10 - Girl's Locker Room (1719) - Concrete			X				X
31.	11 - Boy's Locker Room (1507) - Concrete			X				X
32.	11 - Boy's Locker Room (1507) - Transite Ceiling Panels			X		X		
33.	11 - Boy's Locker Room (1507) - 12" Vinyl Floor Tile Off-White Oatmeal			X		X		
34.	11 - Boy's Locker Room (1507) - Black Mastic (Locker Rooms)			X				X
35.	12 - 1001-1010 Classroom Wing - 12" Vinyl Floor Tile, Grey Oatmeal			X		X		
36.	12 - 1001-1010 Classroom Wing - Concrete			X				X
37.	12 - 1001-1010 Classroom Wing - 12" ACT Pinhole Fissure classroom wing			X		X		
38.	12 - 1001-1010 Classroom Wing - Black Mastic (Classrooms)			X				X

See attached 'Homogeneous Materials Records' for all materials and their locations by building. On Form B all buildings are listed, and a summary of all non-friable and friable materials is provided. Friable materials and their locations are listed separately under each building on Form B.

Date Printed: 10/4/2023

RECORD OF FRIABLE AND NONFRIABLE ACM (FORM B)

Inspection Date: August 11, 2023

					CDS CODE 10-62430-1036672	
SCHOOL Selma High School					SCHOOL PHONE NUMBER (559) 898 - 6550	
ADDRESS	(Number)	(Street)	(City)	(State)	(Zip)	
3125 South Wright Street			Selma	CA	93662	

- IMPORTANT -

Each building and functional space with friable ACM or friable assumed ACM listed on this form requires completion of FORM C (PHYSICAL AND HAZARD ASSESSMENT OF FRIABLE ACM OR FRIABLE ASSUMED ACM). Indicate location of material on blueprint, diagram or narrative in square or linear feet, and attach a copy (Sec. 763.93).

LINE	BUILDING NAME & FUNCTIONAL SPACE <i>(Indicate Address if Different From Above)</i>	CHECK ONE			CHECK ONE			
		SUR-FACING	TSI	MISC	ACBM		ASSUMED ACBM	
					FRIABLE	NON-FRIABLE	FRIABLE	NON-FRIABLE
39.	13 - 803-810 Classroom Wing - 12" Vinyl Floor Tile, Grey Oatmeal			X		X		
40.	13 - 803-810 Classroom Wing - Carpet and Mastic, Grey Multi Color			X		X		
41.	13 - 803-810 Classroom Wing - Concrete			X				X
42.	13 - 803-810 Classroom Wing - 12" Vinyl Floor Tile Off-White Oatmeal			X		X		
43.	13 - 803-810 Classroom Wing - 4" Vinyl Baseboard and Mastic, Brown			X		X		
44.	13 - 803-810 Classroom Wing - 12" ACT Pinhole Fissure classroom wing			X		X		
45.	13 - 803-810 Classroom Wing - Black Mastic (Classrooms)			X				X
46.	14 - 602-609 Classroom Wing - Concrete			X				X
47.	14 - 602-609 Classroom Wing - 12" ACT Pinhole Fissure classroom wing			X		X		
48.	14 - 602-609 Classroom Wing - Black Mastic (Classrooms)			X				X
49.	14 - 602-609 Classroom Wing - Transite Fume Hood			X		X		
50.	15 - 401-410 Classroom Wing - Carpet and Mastic, Multi Color			X		X		
51.	15 - 401-410 Classroom Wing - Unit Ventilator			X				X
52.	16 - 702 - 706 Classroom Wing - 12" Vinyl Floor Tile, Grey Oatmeal			X		X		
53.	16 - 702 - 706 Classroom Wing - Concrete			X				X

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RECORD OF FRIABLE AND NONFRIABLE ACM (FORM B)

Inspection Date: August 11, 2023

					CDS CODE	
					10-62430-1036672	
SCHOOL					SCHOOL PHONE NUMBER	
Selma High School					(559) 898 - 6550	
ADDRESS		(Number)	(Street)	(City)	(State)	(Zip)
3125 South Wright Street				Selma	CA	93662

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LINE	BUILDING NAME & FUNCTIONAL SPACE <i>(Indicate Address if Different From Above)</i>	CHECK ONE			CHECK ONE			
		SUR-FACING	TSI	MISC	ACBM		ASSUMED ACBM	
					FRIABLE	NON-FRIABLE	FRIABLE	NON-FRIABLE
54.	16 - 702 - 706 Classroom Wing - 12" ACT Pinhole Fissure classroom wing			X		X		
55.	16 - 702 - 706 Classroom Wing - Carpet and Mastic, Multi Color			X		X		
56.	16 - 702 - 706 Classroom Wing - 2'x4' FCP Pinhole Pissure			X				X
57.	16 - 702 - 706 Classroom Wing - Concealed Floor Tile, White			X		X		
58.	17 - 901-908 Classroom Wlngs - 12" ACT Pinhole Fissure classroom wing			X		X		
59.	17 - 901-908 Classroom Wlngs - Black Mastic (Classrooms)			X				X
60.	17 - 901-908 Classroom Wlngs - Carpet and Mastic, Multi Color			X		X		
61.	17 - 901-908 Classroom Wlngs - Concealed Floor Tile, White			X		X		
62.	18 - 1301-1306 Classroom Wing - 12" ACT Small Pinhole			X		X		
63.	18 - 1301-1306 Classroom Wing - Black Mastic (Classrooms)			X				X
64.	18 - 1301-1306 Classroom Wing - Carpet and Mastic, Multi Color			X		X		
65.	18 - 1301-1306 Classroom Wing - 2'x4' FCP Pinhole Pissure			X			X	
66.	18 - 1301-1306 Classroom Wing - Concealed Tile, Beige			X		X		

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RECORD OF FRIABLE AND NONFRIABLE ACM (FORM B)

Inspection Date: August 11, 2023

					CDS CODE 10-62430-1036672	
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ADDRESS	(Number)	(Street)	(City)	(State)	(Zip)	
3125 South Wright Street			Selma	CA	93662	

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LINE	BUILDING NAME & FUNCTIONAL SPACE <i>(Indicate Address if Different From Above)</i>	CHECK ONE			CHECK ONE			
		SUR-FACING	TSI	MISC	ACBM		ASSUMED ACBM	
					FRIABLE	NON-FRIABLE	FRIABLE	NON-FRIABLE
67.	19 - 1501-1508 Classroom WIng - 12" Vinyl Floor Tile, Grey Oatmeal			X		X		
68.	19 - 1501-1508 Classroom WIng - Carpet and Mastic, Multi Color			X		X		
69.	19 - 1501-1508 Classroom WIng - 2'x4' FCP Pinhole Pissure			X			X	
70.	20 - Library - 4" Vinyl Baseboard and Mastic, Brown			X		X		
71.	20 - Library - 2'x4' FCP Pinhole Pissure			X			X	
72.	20 - Library - 12" Vinyl Floor Tile, Beige Pebble			X		X		
73.	20 - Library - 12" ACT Pinhle Uniform			X				X
74.	21 - 501-504 Classroom Wing - 12" Vinyl Floor Tile, Grey Oatmeal			X		X		
75.	21 - 501-504 Classroom Wing - Concrete			X				X
76.	21 - 501-504 Classroom Wing - 4" Vinyl Baseboard and Mastic, Brown			X		X		
77.	21 - 501-504 Classroom Wing - Transite Fume Hood			X		X		
78.	22 - 304-317 Wing - 12" Vinyl Floor Tile, Grey Oatmeal			X		X		
79.	22 - 304-317 Wing - Carpet and Mastic, Grey Multi Color			X		X		
80.	22 - 304-317 Wing - Concrete			X				X
81.	22 - 304-317 Wing - 12" Vinyl Floor Tile, Beige Pebble			X		X		
82.	22 - 304-317 Wing - Drywall, Painted (shop)			X				X
83.	22 - 304-317 Wing - Black Mastic (Shop)			X				X

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RECORD OF FRIABLE AND NONFRIABLE ACM (FORM B)

Inspection Date: August 11, 2023

					CDS CODE
					10-62430-1036672
SCHOOL					SCHOOL PHONE NUMBER
Selma High School					(559) 898 - 6550
ADDRESS	(Number)	(Street)	(City)	(State)	(Zip)
3125 South Wright Street			Selma	CA	93662

- IMPORTANT -

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LINE	BUILDING NAME & FUNCTIONAL SPACE <i>(Indicate Address if Different From Above)</i>	CHECK ONE			CHECK ONE			
		SUR-FACING	TSI	MISC	ACBM		ASSUMED ACBM	
					FRIABLE	NON-FRIABLE	FRIABLE	NON-FRIABLE
84.	22 - 304-317 Wing - 12" ACT Pinhle Fissure (Shop)			X		X		
85.	22 - 304-317 Wing - Brown Baseboard Mastic			X				X
86.	23 - Ag Classrooms 102, 103 - 12" Vinyl Floor Tile, Grey Oatmeal			X		X		
87.	23 - Ag Classrooms 102, 103 - Concrete			X				X
88.	23 - Ag Classrooms 102, 103 - 4" Vinyl Baseboard and Mastic, Brown			X		X		
89.	23 - Ag Classrooms 102, 103 - Black Mastic (Shop)			X				X
90.	23 - Ag Classrooms 102, 103 - 12" ACT Pinhle Fissure (Shop)			X		X		
91.	23 - Ag Classrooms 102, 103 - 9" Vinyl Floor Tile Beige Streaks			X		X		
92.	23 - Ag Classrooms 102, 103 - Transite Flue Pipe			X		X		
93.	24 - Classrooms FCOE 1 & 2 - Carpet and Mastic, Grey Multi Color			X		X		
94.	24 - Classrooms FCOE 1 & 2 - 2'x4' FCP Pinhole Pissure			X			X	
95.	25 - Classroom Wing 2200 - 2209 - Carpet and Mastic, Grey Multi Color			X		X		
96.	26 - Classroom Wing 2301-2310 - 12" Vinyl Floor Tile, Grey Oatmeal			X		X		
97.	26 - Classroom Wing 2301-2310 - Carpet and Mastic, Grey Multi Color			X		X		
98.	26 - Classroom Wing 2301-2310 - 2'x4' FCP Pinhole Pissure			X			X	

See attached 'Homogeneous Materials Records' for all materials and their locations by building. On Form B all buildings are listed, and a summary of all non-friable and friable materials is provided. Friable materials and their locations are listed separately under each building on Form B.

Date Printed: 10/4/2023

PHYSICAL AND HAZARD ASSESSMENT OF FRIABLE ACBM OR FRIABLE ASSUMED ACBM (SEC. 763.93)

(FORM C)

DISTRICT Selma Unified School District	CDS CODE 10-62430-1036672
SCHOOL Selma High School	SCHOOL PHONE NUMBER (559) 898 - 6550
ADDRESS 3125 South Wright Street Selma, CA 93662	
BUILDING NAME 20 - Library	INSPECTION DATE August 11, 2023
FUNCTIONAL SPACE 01 - Library (main)	LINE NO. FROM FORM B 71

TYPE OF FRIABLE ACBM MISC - 2'x4' FCP Pinhole Pissure - Assumed

1. CONDITION OF ACBM (Overall Rating) Significantly Damaged

2. POTENTIAL FOR DISTURBANCE (Overall Rating) High

3. HAZARD ASSESSMENT (Combine Ratings From Items 1 and 2 and Check Appropriate Box)

CONDITION OF ACBM	POTENTIAL FOR DISTURBANCE		
	LOW	MODERATE	HIGH
GOOD	1	2	3
DAMAGED	4	5	6
SIGNIFICANTLY DAMAGED	7	7	7 XXX

4. RECOMMENDED RESPONSE ACTION(S) AND COST(S)

RESPONSE ACTION	ESTIMATED COSTS
<input checked="" type="checkbox"/> A. OPERATION AND MAINTENANCE	\$ 150.00
<input type="checkbox"/> B. REPAIR	\$ 0.00
<input type="checkbox"/> C. ENCAPSULATION	\$ 0.00
<input type="checkbox"/> D. ENCLOSURE	\$ 0.00
<input type="checkbox"/> E. REMOVAL	\$ 0.00
Total Cost	\$ 150.00

5. NARRATIVE OF RECOMMENDED RESPONSE

(Attach Additional Sheets If Necessary)

A. This material should be reinspected every 6 months and every 3 years in accordance with AHERA 40 CFR 763.85.

SCHEDULE	
START	FINISH
02/11/24	08/11/26

Comments: This area is in need of immediate attention.

PHYSICAL AND HAZARD ASSESSMENT OF FRIABLE ACBM OR FRIABLE ASSUMED ACBM (SEC. 763.93)

(FORM C)

DISTRICT Selma Unified School District	CDS CODE 10-62430-1036672
SCHOOL Selma High School	SCHOOL PHONE NUMBER (559) 898 - 6550
ADDRESS 3125 South Wright Street Selma, CA 93662	
BUILDING NAME 20 - Library	INSPECTION DATE August 11, 2023
FUNCTIONAL SPACE 05 - Classroom	LINE NO. FROM FORM B 71
TYPE OF FRIABLE ACBM MISC - 2'x4' FCP Pinhole Pissure - Assumed	

1. CONDITION OF ACBM (Overall Rating) Good

2. POTENTIAL FOR DISTURBANCE (Overall Rating) Moderate

3. HAZARD ASSESSMENT (Combine Ratings From Items 1 and 2 and Check Appropriate Box)

CONDITION OF ACBM	POTENTIAL FOR DISTURBANCE		
	LOW	MODERATE	HIGH
GOOD	1	2 XXX	3
DAMAGED	4	5	6
SIGNIFICANTLY DAMAGED	7	7	7

4. RECOMMENDED RESPONSE ACTION(S) AND COST(S)

RESPONSE ACTION	ESTIMATED COSTS	
<input checked="" type="checkbox"/> A. OPERATION AND MAINTENANCE	\$	0.00
<input type="checkbox"/> B. REPAIR	\$	0.00
<input type="checkbox"/> C. ENCAPSULATION	\$	0.00
<input type="checkbox"/> D. ENCLOSURE	\$	0.00
<input type="checkbox"/> E. REMOVAL	\$	0.00
Total Cost		\$ 0.00

5. NARRATIVE OF RECOMMENDED RESPONSE

(Attach Additional Sheets If Necessary)

	SCHEDULE	
	START	FINISH
A. This material should be reinspected every 6 months and every 3 years in accordance with AHERA 40 CFR 763.85.	02/11/24	08/11/26

Comments:

**OPERATIONS AND MAINTENANCE PROGRAM
(FORM D)**

Inspection Date August 11, 2023

					CDS CODE	
					10-62430-1036672	
SCHOOL					SCHOOL PHONE NUMBER	
Selma High School					(559) 898 - 6550	
ADDRESS	(Number)	(Street)	(City)	(State)	(Zip)	
3125 South Wright Street			Selma	CA	93662	

TRAINING

All maintenance and custodial workers will receive a 2-hour asbestos awareness training. The training will include information on asbestos, its uses, its products, where it was found in the school, how to recognize friable asbestos and damage and who will take care of incidents and questions relating to asbestos. It will also cover where copies of the inspection report and Management Plan should be kept.

NOTIFICATION OF NON-DISTRICT WORKERS

Short-term non-district workers shall be advised of the presence of ACBM in areas they will be working. Initial written notification of the location of ACBM shall be provided to outside contractors, when the contract is written or with the purchase order for services. Outside workmen are required to sign a statement individually, (a sample form is provided for your use), acknowledging receipt of information regarding the location of asbestos, prior to commencing their work activities. A copy of this signed statement shall be put into the Management Plan. They shall perform no activities that will disturb the asbestos, unless they are fully licensed and accredited to do so.

INITIAL AND ADDITIONAL CLEANING

Steam cleaning/HEPA vacuuming of the carpets and wet-mopping, HEPA vacuuming, wet-wiping of floors and/or horizontal surfaces where there is no asbestos debris or residue of ACBM, can be performed by workers who have received only the 2-hour awareness training, although it is recommended that this be done by a licensed asbestos contractor. If those workers encounter ACBM debris, or if they do any cleaning, which of itself may result in the disturbance of ACBM, they must not proceed with cleaning. At this point, the district shall determine if EPA-accredited asbestos-abatement contractors and workers are required to complete the cleaning. The school district may utilize their own employees who have received EPA-accredited Contractor/Supervisor training for cleaning.

The cleaning schedule at Selma High School is as follows:

periodic cleaning utilizing HEPA vacuums and wet methods

DISPOSAL

All of the requirements and recommendations of CFR, 763, Appendix D to Subpart E (AHERA) and requirements of the California Department of Health Services (or CAL-EPA) shall be adhered to by the district.

ABATEMENT AND FIBER RELEASE EPISODES

All abatement projects and activities related to major release episodes, shall be designed by personnel with EPA accreditation for project designers. All response actions involving the disturbance of ACBM shall be performed by asbestos-abatement contractors who are EPA accredited and licensed by the California State Contractor Licensing Board and registered with Cal-OSHA. The asbestos-abatement contractor shall utilize, for the response action, only EPA-accredited workers and supervisors. All clearance-air samples will be taken by an independent, professional before reoccupancy is permitted. Air-clearance sampling will comply with AHERA standards.

Date Printed: 10/4/2023

WORK AUTHORIZATION

OPERATIONS AND MAINTENANCE ACTIVITIES; WORK AUTHORIZATION

In case of any O & M or repair activity that may disturb asbestos, prior written approval of the LEA Designee must be obtained. Work authorization forms will include a certifying statement signed and dated by the LEA Designee that the work will be performed in accordance with EPA/Cal-OSHA regulations. Copies of all asbestos-related Work Authorizations shall be maintained in the Management Plan.

BUILDING OCCUPANT PROTECTION

All Local, State, and Federal regulations will be followed during cleaning (other than steam cleaning) or abatement projects. Security of the area will be provided, required signs will be posted, air systems will be shut down, sealed off and the containment area will have a negative pressure established. Work practices will be as required by Local, State, and Federal regulations, and disposal of asbestos waste will follow EPA and California Department of Toxic Substance Control regulations. Routine maintenance areas shall be posted with warning labels as described in 40 CFR, Part 763, Subpart E, Section 763.95.

The following areas at Selma High School contain asbestos, those areas receiving routine maintenance should be posted:

- 01 - Admin - 01 - Reception
- 01 - Admin - 02 - Principal's Office
- 01 - Admin - 03 - Principal's Restroom
- 01 - Admin - 04 - Hallway
- 01 - Admin - 05 - Admin Assistant Office
- 01 - Admin - 06 - ASB Clerk Office
- 01 - Admin - 07 - Registrar Office
- 01 - Admin - 08 - Men's Restroom
- 01 - Admin - 09 - Attendance Office
- 01 - Admin - 10 - Custodial Closet
- 01 - Admin - 11 - Women's Restroom
- 01 - Admin - 12 - TOSA Office
- 01 - Admin - 13 - Deputy Principal Office 1
- 01 - Admin - 14 - Deputy Principal Office 2
- 01 - Admin - 15 - Assistant Principal
- 01 - Admin - 16 - Open Office
- 01 - Admin - 17 - South Vestibule
- 01 - Admin - 18 - NE Office
- 01 - Admin - 19 - SE Office
- 01 - Admin - 20 - South Vestibule Restroom 1
- 01 - Admin - 21 - SW Office
- 01 - Admin - 22 - South Vestibule Restroom 2
- 01 - Admin - 23 - NW Office
- 01 - Admin - 24 - Safe
- 02 - Cafeteria - 01 - Cafeteria Space
- 02 - Cafeteria - 02 - Kitchen
- 02 - Cafeteria - 03 - Break Room
- 02 - Cafeteria - 04 - Restroom Vestibule
- 02 - Cafeteria - 05 - Men's Restroom
- 02 - Cafeteria - 06 - Women's Restroom
- 02 - Cafeteria - 07 - Cold Storage Hallway
- 02 - Cafeteria - 08 - Dry Storage
- 02 - Cafeteria - 09 - Kitchen N Hallway
- 02 - Cafeteria - 10 - Staff Locker Room
- 02 - Cafeteria - 11 - Office
- 03 - Dining Hall - 01 - Dining Hall Area

03 - Dining Hall - 02 - Hallway
03 - Dining Hall - 03 - Eastern Storage
03 - Dining Hall - 04 - Western Storage
03 - Dining Hall - 05 - Women's RR
03 - Dining Hall - 06 - Custodial
03 - Dining Hall - 07 - Men's Restroom
04 - Band - 01 - Classroom 1903
04 - Band - 03 - Custodial (1903)
04 - Band - 04 - Office (1903)
04 - Band - 05 - Storage 1 (1903)
04 - Band - 06 - Storage 2 (1903)
04 - Band - 07 - Storage 3 (1903)
04 - Band - 08 - Uniform Storage (1903)
04 - Band - 09 - NW Storage (1903)
04 - Band - 10 - N Side, Center Storage(1903)
04 - Band - 11 - NE Storage (1903)
04 - Band - 12 - Ext Chiller Room
04 - Band - 13 - Classroom Hallway
04 - Band - 14 - Classroom 1904
04 - Band - 15 - NW Office (1904)
04 - Band - 16 - Center Office (1904)
04 - Band - 17 - NE Storage (1904)
05 - Pool House - 01 - Office 1
05 - Pool House - 02 - Office 2
05 - Pool House - 03 - Pool Equipment
06 - Snack Bar - 01 - Snack Bar
07 - Boy's Locker Room (1719) - 01 - Locker Room
07 - Boy's Locker Room (1719) - 02 - Restroom
07 - Boy's Locker Room (1719) - 03 - Custodial
07 - Boy's Locker Room (1719) - 04 - NE Locker Room Alcove
07 - Boy's Locker Room (1719) - 05 - NW Locker Room Alcove
07 - Boy's Locker Room (1719) - 06 - Foyer
07 - Boy's Locker Room (1719) - 07 - Helmet Storage
07 - Boy's Locker Room (1719) - 08 - Coaches Office
07 - Boy's Locker Room (1719) - 09 - Coaches RR
07 - Boy's Locker Room (1719) - 10 - Coaches Office 2
07 - Boy's Locker Room (1719) - 12 - Storage
07 - Boy's Locker Room (1719) - 13 - Exterior Boiler Room
08 - Concessions - 01 - Eastern Laundry Rm
09 - Gym - Gym
10 - Girl's Locker Room (1719) - 01 - Foyer
10 - Girl's Locker Room (1719) - 02 - Custodial Closet
10 - Girl's Locker Room (1719) - 06 - Locker Room RR
10 - Girl's Locker Room (1719) - 08 - Locker Room Main NE
10 - Girl's Locker Room (1719) - 09 - Varsity Locker Room Center
10 - Girl's Locker Room (1719) - 10 - Locker Room Main SW
10 - Girl's Locker Room (1719) - 11 - Equipment 3
10 - Girl's Locker Room (1719) - 12 - Equipment 1
11 - Boy's Locker Room (1507) - 01 - Foyer
11 - Boy's Locker Room (1507) - 02 - Storage 1
11 - Boy's Locker Room (1507) - 03 - Restroom
11 - Boy's Locker Room (1507) - 04 - Shower
11 - Boy's Locker Room (1507) - 05 - Locker Room Main
11 - Boy's Locker Room (1507) - 06 - Coaches Office
11 - Boy's Locker Room (1507) - 07 - Coaches RR

11 - Boy's Locker Room (1507) - 08 - Storage 2
11 - Boy's Locker Room (1507) - 08 - Storage 3
11 - Boy's Locker Room (1507) - 09 - Electrical Closet
12 - 1001-1010 Classroom Wing - 01 - Room 1007
12 - 1001-1010 Classroom Wing - 02 - Room 1005
12 - 1001-1010 Classroom Wing - 03 - Room 1003
12 - 1001-1010 Classroom Wing - 04 - Room 1001 Nurse's Office
12 - 1001-1010 Classroom Wing - 06 - Custodial at Boy's Restroom
12 - 1001-1010 Classroom Wing - 08 - Room 1002
12 - 1001-1010 Classroom Wing - 09 - Room 1004
12 - 1001-1010 Classroom Wing - 10 - Room 1006
12 - 1001-1010 Classroom Wing - 11 - Room 1008
12 - 1001-1010 Classroom Wing - 12 - Room 1010
13 - 803-810 Classroom Wing - 01 - Room 809
13 - 803-810 Classroom Wing - 02 - Room 807
13 - 803-810 Classroom Wing - 03 - Room 805
13 - 803-810 Classroom Wing - 04 - Room 803
13 - 803-810 Classroom Wing - 05 - Break Room North
13 - 803-810 Classroom Wing - 07 - Custodial
13 - 803-810 Classroom Wing - 08 - Break Room South
13 - 803-810 Classroom Wing - 10 - Room 804
13 - 803-810 Classroom Wing - 11 - Room 806
13 - 803-810 Classroom Wing - 12 - 806 Storage 1
13 - 803-810 Classroom Wing - 13 - 806 Storage 1 Closet
13 - 803-810 Classroom Wing - 14 - 806 Storage 2
13 - 803-810 Classroom Wing - 15 - 806 Storage 2 Closet
13 - 803-810 Classroom Wing - 16 - Room 810
14 - 602-609 Classroom Wing - 01 - Room 609
14 - 602-609 Classroom Wing - 03 - Room 605
14 - 602-609 Classroom Wing - 04 - Lab
14 - 602-609 Classroom Wing - 05 - Lab Storage
14 - 602-609 Classroom Wing - 07 - Boy's RR
14 - 602-609 Classroom Wing - 08 - Custodial at Boys RR
14 - 602-609 Classroom Wing - 09 - Room 602
14 - 602-609 Classroom Wing - 10 - Room 604
14 - 602-609 Classroom Wing - 11 - Room 606
14 - 602-609 Classroom Wing - 12 - Room 608
14 - 602-609 Classroom Wing - 13 - 608 Storage
15 - 401-410 Classroom Wing - 01 - Room 409
15 - 401-410 Classroom Wing - 02 - Room 407
15 - 401-410 Classroom Wing - 03 - Room 405
15 - 401-410 Classroom Wing - 04 - Room 403
15 - 401-410 Classroom Wing - 05 - Room 401
15 - 401-410 Classroom Wing - 06 - Room 402
15 - 401-410 Classroom Wing - 07 - Room 404
15 - 401-410 Classroom Wing - 08 - Room 406
15 - 401-410 Classroom Wing - 09 - Room 408
15 - 401-410 Classroom Wing - 10 - Room 410
16 - 702 - 706 Classroom Wing - 01 - Room 702
16 - 702 - 706 Classroom Wing - 02 - Room 704
16 - 702 - 706 Classroom Wing - 03 - Room 706
16 - 702 - 706 Classroom Wing - 04 - Room 705
16 - 702 - 706 Classroom Wing - 05 - Room 703
16 - 702 - 706 Classroom Wing - 06 - Mechanical Room
17 - 901-908 Classroom Wings - 01 - Room 902

17 - 901-908 Classroom Wings - 02 - Room 904
17 - 901-908 Classroom Wings - 03 - Room 906
17 - 901-908 Classroom Wings - 04 - Room 908
17 - 901-908 Classroom Wings - 05 - Room 907 C
17 - 901-908 Classroom Wings - 06 - Room 907 B
17 - 901-908 Classroom Wings - 07 - Room 907
17 - 901-908 Classroom Wings - 08 - Room 905
17 - 901-908 Classroom Wings - 09 - Room 903
17 - 901-908 Classroom Wings - 10 - Room 901
18 - 1301-1306 Classroom Wing - 01 - Room 1302
18 - 1301-1306 Classroom Wing - 02 - Room 1304
18 - 1301-1306 Classroom Wing - 03 - Room 1306
18 - 1301-1306 Classroom Wing - 05 - Room 1305
18 - 1301-1306 Classroom Wing - 06 - Room 1303
18 - 1301-1306 Classroom Wing - 07 - Room 1301
19 - 1501-1508 Classroom Wing - 01 - Room 1502
19 - 1501-1508 Classroom Wing - 02 - Room 1504
19 - 1501-1508 Classroom Wing - 03 - Room 1506
19 - 1501-1508 Classroom Wing - 04 - Room 1508
19 - 1501-1508 Classroom Wing - 05 - Room 1507
19 - 1501-1508 Classroom Wing - 06 - Room 1505
19 - 1501-1508 Classroom Wing - 07 - Room 1503
19 - 1501-1508 Classroom Wing - 08 - Room 1501
19 - 1501-1508 Classroom Wing - 09 - Server Room
20 - Library - 01 - Library (main)
20 - Library - 02 - Office 1
20 - Library - 03 - Book Storage
20 - Library - 04 - Book Storage Closet
20 - Library - 05 - Classroom
20 - Library - 11 - Office 3
21 - 501-504 Classroom Wing - 02 - Custodial
21 - 501-504 Classroom Wing - 04 - Room 502
21 - 501-504 Classroom Wing - 05 - 502 & 504 Closet
21 - 501-504 Classroom Wing - 05 - HVAC Closet
21 - 501-504 Classroom Wing - 06 - HVAC Closet
21 - 501-504 Classroom Wing - 06 - Room 504
21 - 501-504 Classroom Wing - 07 - Room 501
21 - 501-504 Classroom Wing - 07 - Room 503
21 - 501-504 Classroom Wing - 08 - 501 & 503 Closet
22 - 304-317 Wing - 01 - Room 304
22 - 304-317 Wing - 02 - 304 ne closet
22 - 304-317 Wing - 03 - 304 e, center closet
22 - 304-317 Wing - 04 - 304 se closet
22 - 304-317 Wing - 05 - Room 305
22 - 304-317 Wing - 06 - 305 Office
22 - 304-317 Wing - 07 - Staff RR
22 - 304-317 Wing - 08 - 311 Office
22 - 304-317 Wing - 09 - Room 311
22 - 304-317 Wing - 10 - 311 Storage
22 - 304-317 Wing - 11 - 311 Storage 2
22 - 304-317 Wing - 12 - Staff RR 1
22 - 304-317 Wing - 13 - Staff RR 2
22 - 304-317 Wing - 14 - Room 319
22 - 304-317 Wing - 15 - 319 Storage 1
22 - 304-317 Wing - 16 - 319 Storage 2 (uniforms)

22 - 304-317 Wing - 18 - NE Storage
22 - 304-317 Wing - 19 - Office 1
22 - 304-317 Wing - 20 - Restroom
22 - 304-317 Wing - 21 - Office 2
22 - 304-317 Wing - 22 - Armory closet
22 - 304-317 Wing - 23 - Room 317
22 - 304-317 Wing - 24 - 317 office and vestibule
23 - Ag Classrooms 102, 103 - 01 - 102 Office
23 - Ag Classrooms 102, 103 - 02 - 102 Staff RR
23 - Ag Classrooms 102, 103 - 03 - 102 Welding Shop
23 - Ag Classrooms 102, 103 - 05 - Welding Shop Water Heater Closet
23 - Ag Classrooms 102, 103 - 06 - Student Restroom
23 - Ag Classrooms 102, 103 - 08 - 102 Classroom
24 - Classrooms FCOE 1 & 2 - 02 - Classroom FCOE 1
24 - Classrooms FCOE 1 & 2 - 02 - FCOE 1 Office
24 - Classrooms FCOE 1 & 2 - 04 - FCOE 1 RR
25 - Classroom Wing 2200 - 2209 - 01 - Room 2208
25 - Classroom Wing 2200 - 2209 - 02 - Room 2206
25 - Classroom Wing 2200 - 2209 - 03 - Room 2204
25 - Classroom Wing 2200 - 2209 - 04 - Room 2202
25 - Classroom Wing 2200 - 2209 - 05 - Room 2200
25 - Classroom Wing 2200 - 2209 - 06 - Room 2201
25 - Classroom Wing 2200 - 2209 - 07 - Room 2203
25 - Classroom Wing 2200 - 2209 - 08 - Room 2205
25 - Classroom Wing 2200 - 2209 - 09 - Room 2207
25 - Classroom Wing 2200 - 2209 - 10 - Room 2209
26 - Classroom Wing 2301-2310 - 01 - Room 2302
26 - Classroom Wing 2301-2310 - 02 - Room 2302 Office
26 - Classroom Wing 2301-2310 - 03 - Room 2306
26 - Classroom Wing 2301-2310 - 03 - Room 2310
26 - Classroom Wing 2301-2310 - 04 - Room 2309
26 - Classroom Wing 2301-2310 - 05 - Room 2307
26 - Classroom Wing 2301-2310 - 06 - Room 2305
26 - Classroom Wing 2301-2310 - 07 - Room 2303
26 - Classroom Wing 2301-2310 - 08 - Room 2301

RECORDKEEPING

All recordkeeping will be entered into the Management Plan at the District Office and each affected site within 30 days of the last day of the month in which the event occurred. Recordkeeping will include:

1. Training Sessions

All training received by maintenance custodial or designees, etc. will be documented in the Management Plan.

2. Fiber Release Episodes

All data accumulated during minor or major fiber release episodes will be entered into the Management Plan, (sample forms are provided for your use). This will include what happened, where it happened, who was present and documentation of remedial actions.

3. Abatement Projects

All abatement projects will be documented. This will include records of project design, contractor documents and clearance sample results, as well as evidence of compliance with all regulatory requirements.

4. Periodic

All data collected during scheduled or unscheduled observations of ACBM will be recorded in the Management Plan. This includes 3-year accredited reinspection data.

5. Outside Service

All service contractors will receive notices that ACBM may be present in areas where they may be providing services. Data will be recorded in the plan showing that these personnel have been advised of the presence of ACBM.

6. Miscellaneous

Any other data produced which involves asbestos with our district, will be included in the Management Plan.

7. Record of Remaining ACBM

As part of the recordkeeping function, the LEA designated person, shall maintain the list of ACBM and assumed ACBM in an on-going current status, by indicating on the Homogeneous Materials Record, the removal of any ACBM or assumed ACBM. Thus, the list of ACBM and assumed ACBM, will indicate at all times, which materials remain after response actions are undertaken and completed.

8. Location of Management Plan

Inspection Reports and Management Plans for each site are located in the administrative offices of each school, and a complete set is kept at the District Office.

9. Other Records

Records of all cleaning, preventative measures, annual notifications and work authorization, will also become a part of the file.

10. Record Retention

All records will be kept on file at the District Office and at each site where ACBM is located. For each homogeneous area where all ACBM has been removed, records of abatement shall be retained for 30 years following the next reinspection.

NEW BUILDINGS

Any new buildings constructed onsite, or new portable buildings brought onsite, must have letters from the manufacturer certifying that the building materials do not contain asbestos. It is possible that older portable buildings from another school site within the district may be moved to this school site. It is also possible that portable buildings constructed prior to October 12, 1988, may be moved to the school site from another location. The LEA Designee will be responsible for obtaining all copies of inspection reports, laboratory reports, and other pertinent information regarding the older portable building, and inserting it into the asbestos Management Plan.

**PERIODIC SURVEILLANCE PLAN
(FORM E)**

Inspection Date August 11, 2023

				CDS CODE	
				10-62430-1036672	
SCHOOL				SCHOOL PHONE NUMBER	
Selma High School				(559) 898 - 6550	
ADDRESS	(Number)	(Street)	(City)	(State)	(Zip)
3125 South Wright Street			Selma	CA	93662

This plan must include a periodic surveillance of each building with friable ACBM and nonfriable ACBM at least every six months. The person performing periodic surveillance must have received, at a minimum, two hours general training and 14 hours of additional training if work performed might disturb asbestos. The person will record the date, the area of inspection, the inspector's name, the description of any changes of the materials, and also visually inspect the areas (Sec. 763.92).

Six-month surveillances may be conducted by District personnel who have received at least 2 hours of general awareness training regarding asbestos. All ACBM will be observed, its condition and change in condition shall be recorded. If the surveillance requires that any ACBM be disturbed, the surveillance of such ACBM will be conducted by an EPA-AHERA accredited inspector.

The written, dated signed records of the surveillance shall be included in the Management Plan.

**REINSPECTION PLAN
(FORM F)**

Inspection Date: August 11, 2023

					CDS CODE	
					10-62430-1036672	
SCHOOL					SCHOOL PHONE NUMBER	
Selma High School					(559) 898 - 6550	
ADDRESS	(Number)	(Street)	(City)	(State)	(Zip)	
3125 South Wright Street			Selma	CA	93662	

The plan must meet the reinspection requirements of Section 763.85. This plan will include a reinspection every three years by an accredited inspector.

The three-year reinspection will be conducted by an EPA-AHERA accredited inspector. Written records of the reinspection shall be included in the Management Plan. Records shall include the dates of reinspection, signature of the inspector, and documentation of the inspector's accreditation. Inspection data shall include information on the condition of all known ACBM or assumed ACBM, or change in condition, and friability of material. The ACBM shall be touched to determined friability.

The inspector shall provide a written, signed, dated assessment, in conformity with Section 763.88 of AHERA, of all friable known or assumed ACBM. If assessments indicate a change in response action from that of the previous inspection, an EPA-AHERA accredited Management Planner shall recommend in writing, the appropriate response action.

**PARENT/EMPLOYEE NOTIFICATION PROGRAM
(FORM G)**

Inspection Date: August 11, 2023

					CDS CODE	
					10-62430-1036672	
SCHOOL					SCHOOL PHONE NUMBER	
Selma High School					(559) 898 - 6550	
ADDRESS	(Number)	(Street)	(City)	(State)	(Zip)	
3125	South Wright	Street	Selma	CA	93662	

In the discussion section of this form, information should be included that describes steps taken to inform workers and building occupants, or their legal guardians, about inspections, response actions, and post response action activities, including periodic reinspection and surveillance activities that are planned or in progress. Notifications must be made once each school year (Sec. 763.84).

A signed and dated copy of each annual notification shall be included in the Management Plan. Also included in the Management Plan with each notification, shall be a statement describing, in detail, the steps taken to notify parents/employees.

The annual notification shall include information regarding actions taken in the previous year and actions planned for the coming year. It shall advise where the Management Plan is kept, and it will state the cost and conditions for obtaining copies of the Management Plan.

**EVALUATION OF RESOURCES NEEDED
(FORM H)**

Inspection Date: August 11, 2023

					CDS CODE	
					10-62430-1036672	
SCHOOL					SCHOOL PHONE NUMBER	
Selma High School					(559) 898 - 6550	
ADDRESS	(Number)	(Street)	(City)	(State)	(Zip)	
3125 South Wright Street			Selma	CA	93662	

Discussion should include such information as funding required equipment, facilities, support personnel (Sec. 763.93).

The costs associated with the management of asbestos at this site is primarily administrative, since the district has chosen to subcontract any asbestos related work to a licensed asbestos contractor. The total estimated cost to administer this Management Plan on an annual basis is \$1,950.00, and includes costs for training, six month inspections, annual notifications, record keeping, etc.

Building Maps

FHAst Track Functional Spaces Notes Report



Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

FACS Project Number: P76317H

Date of Inspection: August 11, 2023

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Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 01 - Admin		Room: 01 - Reception - 20 x 17 x 10				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		170 sq	No
Floor: Carpet and Mastic, Grey Multi Color	MISC	3 %	3		170 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		74 ln	
Walls: Tackboard and Glue, Off White	MISC	None Detected	4		740 sq	
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		340 sq	No
Building: 01 - Admin		Room: 02 - Principal's Office - 14 x 12 x 10				
Floor: Black Mastic (Admin)	MISC	5 %	6	6A	168 sq	No
Floor: Carpet and Mastic, Grey Multi Color	MISC	3 %	3	3A	168 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		52 ln	
Walls: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		104 sq	No
<i>Comment: Upper 2ft</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		168 sq	No
<i>Room Contains Vestibule</i>						
<i>Comments:</i>						
Building: 01 - Admin		Room: 03 - Principal's Restroom - 5 x 5 x 10				
Floor: 1" Blue Ceramic Tile Mosaic	MISC	None Detected	7	7A	25 sq	
Walls: 4" Ceramic Tile, Yellow	MISC	None Detected	9		100 sq	
Walls: Plaster, Stipple Texture	SURF	None Detected	8		200 sq	
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		25 sq	No
Building: 01 - Admin		Room: 04 - Hallway - 50 x 5 x 8				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		250 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		110 ln	
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		250 sq	No
Pipes: Hard Elbows	TSI	None Detected	37		2 ea	
<i>Comment: Two hard elbows visible in plenum, no access</i>						

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 01 - Admin		Room: 05 - Admin Assistant Office - 12 x 12 x 10				
Floor: Black Mastic (Admin)	MISC	5 %	6		144 sq	No
Floor: Carpet and Mastic, Grey Multi Color	MISC	3 %	3		144 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		45 ln	
Walls: 12" ACT Pinhle Fissure (Admin) <i>Comment: Upper 2ft</i>	MISC	2 %	5		89 sq	No
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		144 sq	No
Building: 01 - Admin		Room: 06 - ASB Clerk Office - 12 x 12 x 10				
Floor: Black Mastic (Admin)	MISC	5 %	6		144 sq	No
Floor: Carpet and Mastic, Grey Multi Color	MISC	3 %	3		144 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		45 ln	
Walls: 12" ACT Pinhle Fissure (Admin) <i>Comment: Upper 2ft</i>	MISC	2 %	5		89 sq	No
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		144 sq	No
Building: 01 - Admin		Room: 07 - Registrar Office - 12 x 15 x 10				
Floor: Black Mastic (Admin)	MISC	5 %	6		180 sq	No
Floor: Carpet and Mastic, Grey Multi Color	MISC	3 %	3		180 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		56 ln	
Walls: 12" ACT Pinhle Fissure (Admin) <i>Comment: Upper 2ft</i>	MISC	2 %	5		111 sq	No
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		180 sq	No
Building: 01 - Admin		Room: 08 - Men's Restroom - 13 x 7 x 10				
Floor: 1" Grey Ceramic Tile	MISC	None Detected	10	10A	91 sq	
Walls: 4" Ceramic Tile, Yellow	MISC	None Detected	9	9A	200 sq	
Walls: Plaster, Orange Peel Texture	SURF	None Detected	11		400 sq	
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		91 sq	No

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 01 - Admin		Room: 09 - Attendance Office - 12 x 8 x 10					
Floor:	Black Mastic (Admin)	MISC	5 %	6		96 sq	No
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		96 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		30 ln	
Walls:	12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		59 sq	No
	<i>Comment: Upper 2ft</i>						
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		96 sq	No
Building: 01 - Admin		Room: 10 - Custodial Closet - 6 x 4 x 12					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		24 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		20 ln	
Walls:	Plaster, Stipple Texture	SURF	None Detected	8		240 sq	
Ceiling:	Wood	NON	Non-Suspect				
Pipes:	Pipe Insulation	TSI	Assumed	12		1 ea	No
	<i>Comment: At Ceiling, assumed elbows</i>						
Building: 01 - Admin		Room: 11 - Women's Restroom - 13 x 7 x 10					
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10		91 sq	
Walls:	4" Ceramic Tile, Pink	MISC	None Detected	13	13A	200 sq	
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11	11C	400 sq	
Ceiling:	12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		91 sq	No
Building: 01 - Admin		Room: 12 - TOSA Office - 12 x 8 x 10					
Floor:	Black Mastic (Admin)	MISC	5 %	6		96 sq	No
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		96 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		30 ln	
Walls:	12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		59 sq	No
	<i>Comment: Upper 2ft</i>						
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		96 sq	No

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgn's Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 01 - Admin		Room: 13 - Deputy Principal Office 1 - 13 x 12 x 10				
Floor: Black Mastic (Admin)	MISC	5 %	6		156 sq	No
Floor: Carpet and Mastic, Grey Multi Color	MISC	3 %	3		156 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		48 ln	
Walls: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		97 sq	No
<i>Comment: Upper 2ft</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		156 sq	No
Building: 01 - Admin		Room: 14 - Deputy Principal Office 2 - 12 x 12 x 10				
Floor: Black Mastic (Admin)	MISC	5 %	6		144 sq	No
Floor: Carpet and Mastic, Grey Multi Color	MISC	3 %	3		144 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		45 ln	
Walls: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		89 sq	No
<i>Comment: Upper 2ft</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		144 sq	No
Building: 01 - Admin		Room: 15 - Assistant Principal - 12 x 8 x 10				
Floor: Black Mastic (Admin)	MISC	5 %	6		96 sq	No
Floor: Carpet and Mastic, Grey Multi Color	MISC	3 %	3		96 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		30 ln	
Walls: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		59 sq	No
<i>Comment: Upper 2ft</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		96 sq	No
Building: 01 - Admin		Room: 16 - Open Office - 40 x 19 x 10				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1	1A	380 sq	No
Floor: Carpet and Mastic, Grey Multi Color	MISC	3 %	3		380 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2	2B	118 ln	
Walls: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		236 sq	No
<i>Comment: Upper 2ft</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		760 sq	No

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 01 - Admin		Room: 17 - South Vestibule - 14 x 10 x 10				
Floor: Black Mastic (Admin)	MISC	5 %	6		140 sq	No
Floor: Carpet and Mastic, Grey Multi Color	MISC	3 %	3	3C	140 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		43 ln	
Walls: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		87 sq	No
<i>Comment: Upper 2ft</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		140 sq	No
Building: 01 - Admin		Room: 18 - NE Office - 10 x 9 x 10				
Floor: Black Mastic (Admin)	MISC	5 %	6		90 sq	No
Floor: Carpet and Mastic, Grey Multi Color	MISC	3 %	3		90 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		28 ln	
Walls: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		56 sq	No
<i>Comment: Upper 2ft</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		90 sq	No
<i>Room Comments: At south vestibule</i>						
Building: 01 - Admin		Room: 19 - SE Office - 10 x 12 x 10				
Floor: Black Mastic (Admin)	MISC	5 %	6		120 sq	No
Floor: Carpet and Mastic, Grey Multi Color	MISC	3 %	3		120 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		37 ln	
Walls: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		74 sq	No
<i>Comment: Upper 2ft</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		120 sq	No
<i>Room Comments: At south vestibule</i>						
Building: 01 - Admin		Room: 20 - South Vestibule Restroom 1 - 5 x 4 x 10				
Floor: 1" Blue Ceramic Tile Mosaic	MISC	None Detected	7		20 sq	
Walls: 4" Ceramic Tile, Yellow	MISC	None Detected	9		80 sq	
Walls: Plaster, Stipple Texture	SURF	None Detected	8		160 sq	
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		20 sq	No
<i>Room Comments: At SE Office</i>						

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 01 - Admin		Room: 21 - SW Office - 11 x 10 x 10					
Floor:	Black Mastic (Admin)	MISC	5 %	6		110 sq	No
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		110 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		34 ln	
Walls:	12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		68 sq	No
	<i>Comment: Upper 2ft</i>						
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		110 sq	No
Room	<i>At south vestibule</i>						
Comments:							
Building: 01 - Admin		Room: 22 - South Vestibule Restroom 2 - 5 x 4 x 10					
Floor:	1" Blue Ceramic Tile Mosaic	MISC	None Detected	7		20 sq	
Walls:	4" Ceramic Tile, Yellow	MISC	None Detected	9		80 sq	
Walls:	Plaster, Stipple Texture	SURF	None Detected	8		160 sq	
Ceiling:	12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		20 sq	No
Room	<i>At SW Office</i>						
Comments:							
Building: 01 - Admin		Room: 23 - NW Office - 10 x 8 x 10					
Floor:	Black Mastic (Admin)	MISC	5 %	6		80 sq	No
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		80 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		25 ln	
Walls:	12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		50 sq	No
	<i>Comment: Upper 2ft</i>						
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhle Fissure (Admin)	MISC	2 %	5	5A	80 sq	No
Building: 01 - Admin		Room: 24 - Safe - 11 x 10 x 9					
Floor:	9" Vinyl Floor Tile, Grey w/ Yellow	MISC	5 %	14	14A	110 sq	No
Walls:	Concrete	MISC	Assumed	15		378 sq	No
Ceiling:	Concrete	MISC	Assumed	15		110 sq	No

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>02 - Cafeteria</u>		Room: <u>01 - Cafeteria Space - 120 x 62 x 20</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal (Caf)	MISC	Assumed	16		7440 sq	No
Floor:	Black Mastic (Cafeteria)	MISC	Assumed	22		7440 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		364 ln	
Walls:	12" ACT Pinhle Fissure (Cafeteria)	MISC	2 %	17	17B	728 sq	No
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhle Fissure (Cafeteria)	MISC	2 %	17		3720 sq	No
Ceiling:	Wood	NON	Non-Suspect				
Building: <u>02 - Cafeteria</u>		Room: <u>02 - Kitchen - 45 x 25 x 10</u>					
Floor:	6" Ceramic Tile, Light Brown	MISC	None Detected	18	18B	1125 sq	
Baseboard:	6" Ceramic Tile, Light Brown	MISC	None Detected	18	18A	140 ln	
Walls:	FRP and Glue, Off-White	MISC	None Detected	19	19B	1400 sq	
Ceiling:	Plaster, Orange Peel Texture	SURF	None Detected	11		1125 sq	
Ceiling:	Transite Ceiling Panels	MISC	Known	21		338 sq	No
Building: <u>02 - Cafeteria</u>		Room: <u>03 - Break Room - 25 x 25 x 11</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1	1F	625 sq	No
Floor:	Black Mastic (Cafeteria)	MISC	Assumed	22		625 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2	2A	100 ln	
Walls:	12" ACT Pinhle Fissure (Cafeteria)	MISC	2 %	17	17A	220 sq	No
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhle Fissure (Cafeteria)	MISC	2 %	17		625 sq	No
Ceiling:	Plaster, Stipple Texture	SURF	None Detected	8		625 sq	
Building: <u>02 - Cafeteria</u>		Room: <u>04 - Restroom Vestibule - 12 x 4 x 9</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1	1E	48 sq	No
Floor:	Black Mastic (Cafeteria)	MISC	Assumed	22		48 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		32 ln	
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11		288 sq	
Ceiling:	12" ACT Pinhle Fissure (Cafeteria)	MISC	2 %	17		48 sq	No

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgn's Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>02 - Cafeteria</u>		Room: <u>05 - Men's Restroom - 8 x 5 x 9</u>				
Floor: 1" Grey Ceramic Tile	MISC	None Detected	10		40 sq	
Baseboard: 4" Ceramic Tile, Yellow	MISC	None Detected	9		26 ln	
Walls: Plaster, Orange Peel Texture	SURF	None Detected	11		234 sq	
Ceiling: 12" ACT Pinhle Fissure (Cafeteria)	MISC	2 %	17		40 sq	No
Building: <u>02 - Cafeteria</u>		Room: <u>06 - Women's Restroom - 8 x 5 x 9</u>				
Floor: 1" Grey Ceramic Tile	MISC	None Detected	10		40 sq	
Baseboard: 4" Ceramic Tile, Pink	MISC	None Detected	13		26 ln	
Walls: Plaster, Orange Peel Texture	SURF	None Detected	11	11F	234 sq	
Ceiling: 12" ACT Pinhle Fissure (Cafeteria)	MISC	2 %	17		40 sq	No
Building: <u>02 - Cafeteria</u>		Room: <u>07 - Cold Storage Hallway - 25 x 5 x 9</u>				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		125 sq	No
Floor: Black Mastic (Cafeteria)	MISC	Assumed	22		125 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		60 ln	
Walls: FRP and Glue, Off-White	MISC	None Detected	19	19A	540 sq	
Ceiling: Plaster, Orange Peel Texture	SURF	None Detected	11		125 sq	
Building: <u>02 - Cafeteria</u>		Room: <u>08 - Dry Storage - 12 x 12 x 9</u>				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		144 sq	No
Floor: Black Mastic (Cafeteria)	MISC	Assumed	22		144 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		69 ln	
Walls: Plaster, Stipple Texture	SURF	None Detected	8		622 sq	
Ceiling: Plaster, Stipple Texture	SURF	None Detected	8	8A	144 sq	
Building: <u>02 - Cafeteria</u>		Room: <u>09 - Kitchen N Hallway - 19 x 4 x 9</u>				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		76 sq	No
Floor: Black Mastic (Cafeteria)	MISC	Assumed	22		76 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		36 ln	
Walls: Plaster, Orange Peel Texture	SURF	None Detected	11		328 sq	
Ceiling: Plaster, Orange Peel Texture	SURF	None Detected	11		76 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>02 - Cafeteria</u>		Room: <u>10 - Staff Locker Room - 10 x 6 x 9</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		60 sq	No
Floor:	Black Mastic (Cafeteria)	MISC	Assumed	22		60 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		28 ln	
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11		259 sq	
Ceiling:	Plaster, Orange Peel Texture	SURF	None Detected	11		60 sq	
Building: <u>02 - Cafeteria</u>		Room: <u>11 - Office - 17 x 15 x 9</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		255 sq	No
Floor:	Black Mastic (Cafeteria)	MISC	Assumed	22		255 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		41 ln	
Walls:	12" ACT Pinhle Fissure (Cafeteria)	MISC	2 %	17		90 sq	No
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhle Fissure (Cafeteria)	MISC	2 %	17	17C	255 sq	No
Ceiling:	Plaster, Stipple Texture	SURF	None Detected	8		255 sq	
Building: <u>02 - Cafeteria</u>		Room: <u>12 - Cafeteria Men's RR - 13 x 9 x 9</u>					
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10	10B	117 sq	
Walls:	4" Ceramic Tile, White	MISC	None Detected	23	23A	396 sq	
Ceiling:	Plaster, Orange Peel Texture	SURF	None Detected	11	11D	117 sq	
Building: <u>02 - Cafeteria</u>		Room: <u>13 - Cafeteria Women's RR - 13 x 9 x 9</u>					
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10		117 sq	
Walls:	4" Ceramic Tile, White	MISC	None Detected	23		396 sq	
Ceiling:	Plaster, Orange Peel Texture	SURF	None Detected	11		117 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>03 - Dining Hall</u>		Room: <u>01- Dining Hall Area - 80 x 55 x 20</u>				
Floor: Concrete	MISC	Assumed	15		4400 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Grey	MISC	None Detected	24		270 ln	
Walls: Brick & Mortar <i>Comment: At Columns</i>	MISC	None Detected	29	29A	540 sq	
Walls: Drywall, Orange Peel Texture <i>Comment: North and South Upper Walls</i>	MISC	None Detected	26	26F	810 sq	
Walls: Tackboard and Glue, Grey	MISC	None Detected	25		5400 sq	
Ceiling: Metal	NON	Non-Suspect				
Building: <u>03 - Dining Hall</u>		Room: <u>02 - Hallway - 28 x 9 x 9</u>				
Floor: Concrete	MISC	Assumed	15		252 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Grey	MISC	None Detected	24		74 ln	
Walls: 4" Vinyl Baseboard and Mastic, Grey	MISC	None Detected	24		666 sq	
Ceiling: 12" ACT Small Pinhole	MISC	2 %	27	27C	202 sq	No
Ceiling: Drywall, Orange Peel Texture	MISC	None Detected	26		252 sq	
Building: <u>03 - Dining Hall</u>		Room: <u>03 - Eastern Storage - 15 x 15 x 9</u>				
Floor: Concrete	MISC	Assumed	15		225 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Grey	MISC	None Detected	24		60 ln	
Walls: Drywall, Orange Peel Texture	MISC	None Detected	26	26E	540 sq	
Ceiling: Fiberglass	NON	Non-Suspect				
Building: <u>03 - Dining Hall</u>		Room: <u>04 - Western Storage - 15 x 15 x 9</u>				
Floor: Concrete	MISC	Assumed	15		225 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Grey	MISC	None Detected	24		60 ln	
Walls: Drywall, Orange Peel Texture	MISC	None Detected	26		540 sq	
Ceiling: Fiberglass	NON	Non-Suspect				
Building: <u>03 - Dining Hall</u>		Room: <u>05 - Women's RR - 15 x 15 x 9</u>				
Floor: 6" Ceramic Tile, Grey	MISC	Assumed	28		225 sq	No
Walls: 4" Ceramic Tile, White	MISC	None Detected	23		540 sq	
Ceiling: Drywall, Orange Peel Texture	MISC	None Detected	26		225 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 03 - Dining Hall		Room: 06 - Custodial - 9 x 5 x 8					
Floor:	Concrete	MISC	Assumed	15		45 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Grey	MISC	None Detected	24	24C	28 ln	
Walls:	Drywall, Orange Peel Texture	MISC	None Detected	26		224 sq	
Walls:	FRP and Glue, Off-White	MISC	None Detected	19		22 sq	
Comment: Nw corner							
Ceiling:	Fiberglass	NON	Non-Suspect				
Room Roof Access							
Comments:							
Building: 03 - Dining Hall		Room: 07 - Men's Restroom - 15 x 15 x 9					
Floor:	6" Ceramic Tile, Grey	MISC	Assumed	28		225 sq	No
Walls:	4" Ceramic Tile, White	MISC	None Detected	23		540 sq	
Ceiling:	Drywall, Orange Peel Texture	MISC	None Detected	26	26D	225 sq	

Functional Space Notes

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Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 04 - Band		Room: 01 - Classroom 1903 - 60 x 42 x 14					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		2520 sq	No
Floor:	Black Mastic (Band)	MISC	Assumed	32		2520 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		204 ln	
Walls:	12" ACT Pinhole Uniform	MISC	2 %	30	30B	1142 sq	No
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhole Uniform	MISC	2 %	30		2520 sq	No
Building: 04 - Band		Room: 02 - Restroom (1903) - 8 x 8 x 8					
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10		64 sq	
Baseboard:	4" Ceramic Tile, Yellow	MISC	None Detected	9		32 ln	
Walls:	Plaster, Stipple Texture	SURF	None Detected	8	8F	256 sq	
Ceiling:	12" ACT Pinhole Fissure (band)	MISC	None Detected	31		64 sq	
Room	At Main Entry						
Comments:							
Building: 04 - Band		Room: 03 - Custodial (1903) - 5 x 4 x 8					
Floor:	Concrete	MISC	Assumed	15		20 sq	No
Baseboard:	Concrete	MISC	Assumed	15		18 ln	No
Walls:	Plaster, Stipple Texture	SURF	None Detected	8		144 sq	
Ceiling:	Plaster, Stipple Texture	SURF	None Detected	8		20 sq	
Building: 04 - Band		Room: 04 - Office (1903) - 12 x 9 x 8					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		108 sq	No
Floor:	Black Mastic (Band)	MISC	Assumed	32		108 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		42 ln	
Walls:	12" ACT Pinhole Fissure (band)	MISC	None Detected	31	31A	34 sq	
	Comment: Upper 1ft						
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhole Fissure (band)	MISC	None Detected	31		108 sq	

Functional Space Notes

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Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 04 - Band		Room: 05 - Storage 1 (1903) - 12 x 9 x 8				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		108 sq	No
Floor: Black Mastic (Band)	MISC	Assumed	32		108 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		42 ln	
Walls: 12" ACT Pinhole Fissure (band) <i>Comment: Upper 1ft</i>	MISC	None Detected	31		34 sq	
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhole Fissure (band)	MISC	None Detected	31		108 sq	
Building: 04 - Band		Room: 06 - Storage 2 (1903) - 12 x 9 x 8				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		108 sq	No
Floor: Black Mastic (Band)	MISC	Assumed	32		108 sq	No
Walls: Plaster, Stipple Texture	SURF	None Detected	8	8E	336 sq	
Ceiling: 12" ACT Pinhole Fissure (band)	MISC	None Detected	31		108 sq	
Building: 04 - Band		Room: 07 - Storage 3 (1903) - 10 x 20 x 8				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		200 sq	No
Floor: Black Mastic (Band)	MISC	Assumed	32		200 sq	No
Walls: Plaster, Stipple Texture	SURF	None Detected	8	8G	622 sq	
Ceiling: 12" ACT Pinhole Fissure (band)	MISC	None Detected	31		200 sq	
<i>Room Comments:</i> Contains Lockers						
Building: 04 - Band		Room: 08 - Uniform Storage (1903) - 15 x 11 x 9				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		165 sq	No
Floor: Black Mastic (Band)	MISC	Assumed	32		165 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		52 ln	
Walls: Plaster, Stipple Texture	SURF	None Detected	8		513 sq	
Ceiling: 12" ACT Pinhole Fissure (band)	MISC	None Detected	31		165 sq	

Functional Space Notes

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Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 04 - Band		Room: 09 - NW Storage (1903) - 9 x 6 x 9					
Floor:	12" Vinyl Floor Tile Grey Streaks	MISC	None Detected	33	33C	54 sq	
Floor:	Black Mastic (Band)	MISC	Assumed	32		54 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		30 ln	
Walls:	Carpet and Mastic, Blue Multi	MISC	None Detected	34		135 sq	
	<i>Comment: Upper four feet</i>						
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhole Uniform	MISC	2 %	30		54 sq	No
Building: 04 - Band		Room: 10 - N Side, Center Storage(1903) - 9 x 6 x 9					
Floor:	12" Vinyl Floor Tile Grey Streaks	MISC	None Detected	33		54 sq	
Floor:	Black Mastic (Band)	MISC	Assumed	32		54 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		30 ln	
Walls:	Carpet and Mastic, Blue Multi	MISC	None Detected	34		135 sq	
	<i>Comment: Upper four feet</i>						
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhole Uniform	MISC	2 %	30		54 sq	No
Building: 04 - Band		Room: 11 - NE Storage (1903) - 13 x 9 x 9					
Floor:	12" Vinyl Floor Tile Grey Streaks	MISC	None Detected	33	33B	117 sq	
Floor:	Black Mastic (Band)	MISC	Assumed	32		117 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		65 ln	
Walls:	Carpet and Mastic, Blue Multi	MISC	None Detected	34	34A	293 sq	
	<i>Comment: Upper four feet</i>						
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhole Uniform	MISC	2 %	30		117 sq	No
Building: 04 - Band		Room: 12 - Ext Chiller Room - 15 x 10 x 12					
Floor:	Concrete	MISC	Assumed	15		150 sq	No
Baseboard:	Concrete	MISC	Assumed	15		50 ln	No
Walls:	Plaster, Stipple Texture	SURF	None Detected	8		600 sq	
Ceiling:	Plaster, Stipple Texture	SURF	None Detected	8		150 sq	
Pipes:	3" Pre-Formed Block Insulation	TSI	None Detected	36	36A	2 ea	
Pipes:	Fiberglass Pipe Insulation w/ Canvas Wra	TSI	None Detected	35	35E	2 ea	
Pipes:	Hard Elbows	TSI	None Detected	37	37D	3 ea	

Functional Space Notes

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Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 04 - Band		Room: 13 - Classroom Hallway - 11 x 6 x 9				
Floor: 12" Vinyl Floor Tile Off-White Oatmeal	MISC	5 %	38	38A	66 sq	No
Floor: Black Mastic (Band)	MISC	Assumed	32		66 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		34 ln	
Walls: 12" ACT Pinhole Uniform	MISC	2 %	30		31 sq	No
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhole Uniform	MISC	2 %	30		66 sq	No
Building: 04 - Band		Room: 14 - Classroom 1904 - 34 x 33 x 14				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		1122 sq	No
Floor: Black Mastic (Band)	MISC	Assumed	32		1122 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		134 ln	
Walls: 12" ACT Pinhole Uniform	MISC	2 %	30		750 sq	No
<i>Comment: Upper portion</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhole Uniform	MISC	2 %	30	30A	1122 sq	No
Ceiling: Plaster, Stipple Texture	SURF	None Detected	8		1122 sq	
Building: 04 - Band		Room: 15 - NW Office (1904) - 11 x 8 x 9				
Floor: 12" Vinyl Floor Tile Off-White Oatmeal	MISC	5 %	38		88 sq	No
Floor: Black Mastic (Band)	MISC	Assumed	32		88 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		38 ln	
Walls: 12" ACT Pinhole Fissure (band)	MISC	None Detected	31		68 sq	
<i>Comment: Upper 2 ft</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhole Fissure (band)	MISC	None Detected	31		88 sq	
Building: 04 - Band		Room: 16 - Center Office (1904) - 11 x 8 x 9				
Floor: 12" Vinyl Floor Tile Off-White Oatmeal	MISC	5 %	38		88 sq	No
Floor: Black Mastic (Band)	MISC	Assumed	32		88 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Brown	MISC	2 %	39		38 ln	No
Walls: 12" ACT Pinhole Fissure (band)	MISC	None Detected	31		68 sq	
<i>Comment: Upper 2 ft</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhole Fissure (band)	MISC	None Detected	31	31B	88 sq	

Functional Space Notes

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Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 04 - Band		Room: 17 - NE Storage (1904) - 11 x 8 x 9				
Floor: 12" Vinyl Floor Tile Off-White Oatmeal	MISC	5 %	38	38B	88 sq	No
Floor: Black Mastic (Band)	MISC	Assumed	32		88 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		38 ln	
Walls: Plaster, Stipple Texture	SURF	None Detected	8		342 sq	
Ceiling: Plaster, Stipple Texture	SURF	None Detected	8		88 sq	
<i>Room Attic Access</i>						
<i>Comments:</i>						

Functional Space Notes

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Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>05 - Pool House</u>		Room: <u>01 - Office 1 - 20 x 8 x 9</u>				
Floor: Concrete	MISC	Assumed	15		160 sq	No
Walls: CMU	MISC	None Detected	40	40C	252 sq	
Walls: Drywall, Painted <i>Comment: S wall</i>	MISC	None Detected	41	41B	252 sq	
Building: <u>05 - Pool House</u>		Room: <u>02 - Office 2 - 20 x 8 x 9</u>				
Floor: Concrete	MISC	Assumed	15		160 sq	No
Walls: CMU	MISC	None Detected	40		252 sq	
Walls: Drywall, Painted <i>Comment: N wall</i>	MISC	None Detected	41	41A	252 sq	
Building: <u>05 - Pool House</u>		Room: <u>03 - Pool Equipment - 38 x 22 x 11</u>				
Floor: Concrete	MISC	Assumed	15		836 sq	No
Walls: CMU	MISC	None Detected	40	40B	1320 sq	
Ceiling: Fiberglass	NON	Non-Suspect				
<i>Room Comments: Roof Access</i>						

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>06 - Snack Bar</u>		Room: <u>01 - Snack Bar - 55 x 8 x 10</u>				
Floor:	Concrete	MISC	Assumed	15	440 sq	No
Baseboard:	6" Ceramic Tile, Light Brown	MISC	None Detected	18	126 ln	
Walls:	FRP and Glue, Off-White	MISC	None Detected	19	1260 sq	
Ceiling:	Drywall, Painted	MISC	None Detected	41	440 sq	
Building: <u>06 - Snack Bar</u>		Room: <u>02 - Girl's RR - 41 x 12 x 10</u>				
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10	492 sq	
Baseboard:	1" Grey Ceramic Tile	MISC	None Detected	10	106 ln	
Walls:	4" Ceramic Tile, White	MISC	None Detected	23	1060 sq	
Ceiling:	Drywall, Painted	MISC	None Detected	41	492 sq	
Building: <u>06 - Snack Bar</u>		Room: <u>03 - Boy's RR - 41 x 12 x 10</u>				
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10	492 sq	
Baseboard:	1" Grey Ceramic Tile	MISC	None Detected	10	106 ln	
Walls:	4" Ceramic Tile, White	MISC	None Detected	23	1060 sq	
Ceiling:	Drywall, Painted	MISC	None Detected	41	492 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>07 - Boy's Locker Room (1719)</u>		Room: <u>01 - Locker Room - 55 x 42 x 15</u>				
Floor: 1" Grey Ceramic Tile <i>Comment: A Shower</i>	MISC	None Detected	10		231 sq	
Floor: Concrete	MISC	Assumed	15		2310 sq	No
Baseboard: Concrete	MISC	Assumed	15		194 ln	No
Walls: 4" Ceramic Tile, Yellow <i>Comment: At Shower</i>	MISC	None Detected	9		582 sq	
Walls: Plaster, Stipple Texture	SURF	None Detected	8		2910 sq	
Ceiling: Transite Ceiling Panels	MISC	Known	21		2310 sq	No
Building: <u>07 - Boy's Locker Room (1719)</u>		Room: <u>02 - Restroom - 38 x 10 x 10</u>				
Floor: 1" Grey Ceramic Tile	MISC	None Detected	10		380 sq	
Walls: 4" Ceramic Tile, Yellow	MISC	None Detected	9		480 sq	
Walls: Plaster, Stipple Texture	SURF	None Detected	8		960 sq	
Ceiling: Transite Ceiling Panels	MISC	Known	21		380 sq	No
Building: <u>07 - Boy's Locker Room (1719)</u>		Room: <u>03 - Custodial - 7 x 5 x 10</u>				
Floor: Concrete	MISC	Assumed	15		35 sq	No
Baseboard: Concrete	MISC	Assumed	15		24 ln	No
Walls: Plaster, Stipple Texture	SURF	None Detected	8		240 sq	
Ceiling: Plaster, Stipple Texture	SURF	None Detected	8		35 sq	
Building: <u>07 - Boy's Locker Room (1719)</u>		Room: <u>04 - NE Locker Room Alcove - 17 x 16 x 10</u>				
Floor: Concrete	MISC	Assumed	15		272 sq	No
Baseboard: Concrete	MISC	Assumed	15		54 ln	No
Walls: Plaster, Stipple Texture	SURF	None Detected	8		754 sq	
Ceiling: Transite Ceiling Panels	MISC	Known	21		272 sq	No
Building: <u>07 - Boy's Locker Room (1719)</u>		Room: <u>05 - NW Locker Room Alcove - 23 x 18 x 14</u>				
Floor: Concrete	MISC	Assumed	15		414 sq	No
Baseboard: Concrete	MISC	Assumed	15		82 ln	No
Walls: Plaster, Stipple Texture	SURF	None Detected	8		1148 sq	
Ceiling: Transite Ceiling Panels	MISC	Known	21		414 sq	No

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>07 - Boy's Locker Room (1719)</u>		Room: <u>06 - Foyer - 10 x 8 x 8</u>					
Floor:	Concrete	MISC	Assumed	15		80 sq	No
Baseboard:	Concrete	MISC	Assumed	15		36 ln	No
Walls:	4" Ceramic Tile, White	MISC	None Detected	23	23B		
Walls:	Plaster, Stipple Texture	SURF	None Detected	8		288 sq	
Ceiling:	Transite Ceiling Panels	MISC	Known	21		80 sq	No
Building: <u>07 - Boy's Locker Room (1719)</u>		Room: <u>07 - Helmet Storage - 19 x 8 x 14</u>					
Floor:	Concrete	MISC	Assumed	15		152 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		54 ln	
Walls:	Plaster, Stipple Texture	SURF	None Detected	8	8C	756 sq	
Ceiling:	Transite Ceiling Panels	MISC	Known	21		152 sq	No
Building: <u>07 - Boy's Locker Room (1719)</u>		Room: <u>08 - Coaches Office - 13 x 11 x 8</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		143 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Grey	MISC	None Detected	24	24A	48 ln	
Walls:	Plaster, Stipple Texture	SURF	None Detected	8		384 sq	
Ceiling:	Transite Ceiling Panels	MISC	Known	21		143 sq	No
Building: <u>07 - Boy's Locker Room (1719)</u>		Room: <u>09 - Coaches RR - 12 x 12 x 8</u>					
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10		144 sq	
Walls:	4" Ceramic Tile, Yellow	MISC	None Detected	9		192 sq	
Walls:	Plaster, Stipple Texture	SURF	None Detected	8		384 sq	
Ceiling:	Transite Ceiling Panels	MISC	Known	21		144 sq	No
Building: <u>07 - Boy's Locker Room (1719)</u>		Room: <u>10 - Coaches Office 2 - 8 x 11 x 8</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		88 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Grey	MISC	None Detected	24		30 ln	
Walls:	Plaster, Stipple Texture	SURF	None Detected	8		236 sq	
Ceiling:	Transite Ceiling Panels	MISC	Known	21		88 sq	No
Building: <u>07 - Boy's Locker Room (1719)</u>		Room: <u>12 - Storage - 11 x 5 x 8</u>					
Floor:	Concrete	MISC	Assumed	15		55 sq	No
Baseboard:	Concrete	MISC	Assumed	15		32 ln	No
Walls:	Plaster, Stipple Texture	SURF	None Detected	8		256 sq	
Ceiling:	Transite Ceiling Panels	MISC	Known	21		55 sq	No

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>07 - Boy's Locker Room (1719)</u>		Room: <u>13 - Exterior Boiler Room - 14 x 11 x 10</u>					
Floor:	Concrete	MISC	Assumed	15		154 sq	No
Baseboard:	Concrete	MISC	Assumed	15		50 ln	No
Walls:	Plaster, Stipple Texture	SURF	None Detected	8		500 sq	
Ceiling:	Plaster, Stipple Texture	SURF	None Detected	8		154 sq	
Pipes:	Fiberglass Pipe Insuation w/ Canvas Wra	TSI	None Detected	35	35D	4 ea	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Building: 08 - Concessions

Building Comment: *Attached to Gym East Side*

Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>08 - Concessions</u>		Room: <u>01 - Eastern Laundry Rm - 16 x 7 x 8</u>					
Floor:	Concrete	MISC	Assumed	15		112 sq	No
Baseboard:	Concrete	MISC	Assumed	15		46 ln	No
Walls:	Plaster, Stipple Texture	SURF	None Detected	8	8D	368 sq	
Ceiling:	Plaster, Stipple Texture	SURF	None Detected	8		112 sq	
Building: <u>08 - Concessions</u>		Room: <u>02 - NW Storage - 13 x 8 x 8</u>					
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10		104 sq	
Walls:	4" Ceramic Tile, White	MISC	None Detected	23		336 sq	
Ceiling:	Plaster, Stipple Texture	SURF	None Detected	8		104 sq	
Building: <u>08 - Concessions</u>		Room: <u>Attic</u>					
Floor:	Wood	NON	Non-Suspect				

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 09 - Gym		Room: Gym - 100 x 90 x 25				
Floor: Wood	NON	Non-Suspect				
Baseboard: Metal	NON	Non-Suspect				
Walls: Concrete	MISC	Assumed	15		9500 sq	No
Ceiling: 12" ACT Pinhole Random <i>Comment: No Access</i>	MISC	Assumed	42		900 sq	No
Ceiling: Concrete <i>Comment: North Side</i>	MISC	Assumed	15		900 sq	No
Ceiling: Wood	NON	Non-Suspect				

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>10 - Girl's Locker Room (1719)</u>		Room: <u>01 - Foyer - 12 x 6 x 16</u>				
Floor:	Concrete	MISC	Assumed	15	72 sq	No
Walls:	CMU	MISC	None Detected	40	576 sq	
Ceiling:	Metal	NON	Non-Suspect			
Building: <u>10 - Girl's Locker Room (1719)</u>		Room: <u>02 - Custodial Closet - 11 x 5 x 12</u>				
Floor:	Concrete	MISC	Assumed	15	55 sq	No
Walls:	CMU	MISC	None Detected	40	440 sq	
Ceiling:	Metal	NON	Non-Suspect			
Building: <u>10 - Girl's Locker Room (1719)</u>		Room: <u>03 - Coaches Office - 20 x 18 x 9</u>				
Floor:	12" Vinyl Floor Tile, Brown Oameal	MISC	None Detected	43 43A	360 sq	
Baseboard:	4" Vinyl Baseboard and Mastic, Black	MISC	None Detected	44 44A	76 ln	
Walls:	Drywall, Orange Peel Texture	MISC	None Detected	26 26C	684 sq	
Ceiling:	Drywall, Orange Peel Texture	MISC	None Detected	26 26B	360 sq	
<i>Room Comments:</i> Includes Vestibules						
Building: <u>10 - Girl's Locker Room (1719)</u>		Room: <u>04 - Roof Access Closet - 7 x 6 x 16</u>				
Floor:	12" Vinyl Floor Tile, Brown Oameal	MISC	None Detected	43 43B	42 sq	
Baseboard:	4" Vinyl Baseboard and Mastic, Black	MISC	None Detected	44 44C	26 ln	
Walls:	CMU	MISC	None Detected	40 40A	104 sq	
Walls:	Drywall, Orange Peel Texture	MISC	None Detected	26	312 sq	
Ceiling:	Metal	NON	Non-Suspect			
<i>Room Comments:</i> At Coaches Office						
Building: <u>10 - Girl's Locker Room (1719)</u>		Room: <u>05 - Coaches RR - 18 x 8 x 9</u>				
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10	144 sq	
Walls:	4" Ceramic Tile, White	MISC	None Detected	23	374 sq	
Walls:	Drywall, Orange Peel Texture	MISC	None Detected	26	468 sq	
Ceiling:	Drywall, Orange Peel Texture	MISC	None Detected	26	144 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 10 - Girl's Locker Room (1719)		Room: 06 - Locker Room RR - 25 x 10 x 16					
Floor:	Concrete	MISC	Assumed	15		250 sq	No
Walls:	4" Ceramic Tile, White	MISC	None Detected	23		649 sq	
Walls:	CMU	MISC	None Detected	40		112 sq	
	<i>Comment: At Partition Walls</i>						
Walls:	Drywall, Orange Peel Texture	MISC	None Detected	26		813 sq	
Ceiling:	Drywall, Orange Peel Texture	MISC	None Detected	26		250 sq	
Building: 10 - Girl's Locker Room (1719)		Room: 07 - Shower Area - 30 x 10 x 11					
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10		300 sq	
Walls:	4" Ceramic Tile, White	MISC	None Detected	23		779 sq	
Walls:	Drywall, Orange Peel Texture	MISC	None Detected	26		975 sq	
Ceiling:	Drywall, Orange Peel Texture	MISC	None Detected	26		300 sq	
Building: 10 - Girl's Locker Room (1719)		Room: 08 - Locker Room Main NE - 27 x 25 x 16					
Floor:	Concrete	MISC	Assumed	15		675 sq	No
Walls:	4" Ceramic Tile, White	MISC	None Detected	23		83 sq	
	<i>Comment: East Wall at Sinks</i>						
Walls:	CMU	MISC	None Detected	40		1331 sq	
Walls:	Drywall, Orange Peel Texture	MISC	None Detected	26		333 sq	
Ceiling:	Metal	NON	Non-Suspect				
Building: 10 - Girl's Locker Room (1719)		Room: 09 - Varsity Locker Room Center - 30 x 11 x 11					
Floor:	Concrete	MISC	Assumed	15		330 sq	No
Walls:	CMU	MISC	None Detected	40		902 sq	
Ceiling:	Metal	NON	Non-Suspect				
Building: 10 - Girl's Locker Room (1719)		Room: 10 - Locker Room Main SW - 34 x 34 x 16					
Floor:	Concrete	MISC	Assumed	15		1156 sq	No
Walls:	CMU	MISC	None Detected	40		2176 sq	
Ceiling:	Metal	NON	Non-Suspect				
<i>Room Comments:</i>		<i>Includes exit foyer</i>					

Functional Space Notes

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Site: Selma High School

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Materials	Material Class	Percent Asbestos	Hmgs Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>10 - Girl's Locker Room (1719)</u>		Room: <u>11 - Equipment 3 - 9 x 6 x 12</u>				
Floor:	Concrete	MISC	Assumed	15	54 sq	No
Walls:	CMU	MISC	None Detected	40	360 sq	
Ceiling:	Metal	NON	Non-Suspect			
Building: <u>10 - Girl's Locker Room (1719)</u>		Room: <u>12 - Equipment 1 - 25 x 9 x 9</u>				
Floor:	Concrete	MISC	Assumed	15	225 sq	No
Walls:	CMU	MISC	None Detected	40	612 sq	
Ceiling:	Metal	NON	Non-Suspect			
<i>Room Comments: (includes eq 2)</i>						

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgn's Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 11 - Boy's Locker Room (1507)		Room: 01 - Foyer - 15 x 6 x 10					
Floor:	Concrete	MISC	Assumed	15		90 sq	No
Baseboard:	Concrete	MISC	Assumed	15		42 ln	No
Walls:	FRP and Glue, Off-White	MISC	None Detected	19		336 sq	
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11		420 sq	
Ceiling:	Transite Ceiling Panels	MISC	Known	21		90 sq	No
Building: 11 - Boy's Locker Room (1507)		Room: 02 - Storage 1 - 7 x 5 x 10					
Floor:	Concrete	MISC	Assumed	15		35 sq	No
Baseboard:	Concrete	MISC	Assumed	15		24 ln	No
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11		240 sq	
Ceiling:	Plaster, Orange Peel Texture	SURF	None Detected	11	11B	35 sq	
Pipes:	Fiberglass Pipe Insulation w/ Canvas Wra	TSI	None Detected	35		2 ea	
<i>Room Comments:</i> At foyer							
Building: 11 - Boy's Locker Room (1507)		Room: 03 - Restroom - 16 x 12 x 10					
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10		192 sq	
Walls:	4" Ceramic Tile, Pink	MISC	None Detected	13		280 sq	
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11		560 sq	
Ceiling:	Transite Ceiling Panels	MISC	Known	21		192 sq	No
Building: 11 - Boy's Locker Room (1507)		Room: 04 - Shower - 38 x 8 x 10					
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10		304 sq	
Walls:	4" Ceramic Tile, Pink	MISC	None Detected	13		443 sq	
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11		887 sq	
Ceiling:	Transite Ceiling Panels	MISC	Known	21		304 sq	No
Building: 11 - Boy's Locker Room (1507)		Room: 05 - Locker Room Main - 35 x 33 x 14					
Floor:	Concrete	MISC	Assumed	15		1155 sq	No
Baseboard:	Concrete	MISC	Assumed	15		136 ln	No
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11		1904 sq	
Ceiling:	Transite Ceiling Panels	MISC	Known	21		1155 sq	No

Functional Space Notes

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HMS Project Number: P76317H

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Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>11 - Boy's Locker Room (1507)</u> Room: <u>06 - Coaches Office - 17 x 11 x 8</u>						
Floor: 12" Vinyl Floor Tile Off-White Oatmeal	MISC	5 %	38	38D	187 sq	No
Floor: Black Mastic (Locker Rooms)	MISC	Assumed	45		187 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		56 ln	
Walls: Plaster, Orange Peel Texture	SURF	None Detected	11		448 sq	
Ceiling: Transite Ceiling Panels	MISC	Known	21		187 sq	No
Building: <u>11 - Boy's Locker Room (1507)</u> Room: <u>07 - Coaches RR - 11 x 9 x 8</u>						
Floor: 1" Grey Ceramic Tile	MISC	None Detected	10		99 sq	
Walls: 4" Ceramic Tile, Pink	MISC	None Detected	13		160 sq	
Walls: Plaster, Orange Peel Texture	SURF	None Detected	11		320 sq	
Ceiling: Transite Ceiling Panels	MISC	Known	21		99 sq	No
Building: <u>11 - Boy's Locker Room (1507)</u> Room: <u>08 - Storage 2 - 15 x 10 x 8</u>						
Floor: Concrete	MISC	Assumed	15		150 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Grey	MISC	None Detected	24	24B	50 ln	
Walls: Plaster, Orange Peel Texture	SURF	None Detected	11		400 sq	
Ceiling: Transite Ceiling Panels	MISC	Known	21		150 sq	No
<i>Room Comments: Near Coaches Office</i>						
Building: <u>11 - Boy's Locker Room (1507)</u> Room: <u>08 - Storage 3 - 12 x 7 x 10</u>						
Floor: Concrete	MISC	Assumed	15		84 sq	No
Baseboard: Concrete	MISC	Assumed	15		28 ln	No
Walls: Plaster, Orange Peel Texture	SURF	None Detected	11		224 sq	
Ceiling: Transite Ceiling Panels	MISC	Known	21		84 sq	No
Building: <u>11 - Boy's Locker Room (1507)</u> Room: <u>09 - Electrical Closet - 9 x 8 x 10</u>						
Floor: Concrete	MISC	Assumed	15		72 sq	No
Baseboard: Concrete	MISC	Assumed	15		34 ln	No
Walls: Plaster, Orange Peel Texture	SURF	None Detected	11		340 sq	
Ceiling: Plaster, Orange Peel Texture	SURF	None Detected	11		72 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 12 - 1001-1010 Classroom Wing		Room: 01 - Room 1007 - 30 x 30 x 9				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		900 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		900 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		90 ln	
Baseboard: 4" Vinyl Baseboard and Mastic, Light Gr	MISC	None Detected	46	46A	30 ln	
<i>Comment: West Wall</i>						
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		216 sq	No
<i>Comment: Upper Portion</i>						
Walls: Metal	NON	Non-Suspect				
<i>Comment: North wall</i>						
Walls: Tackboard and Glue, Off White	MISC	None Detected	4	4A	864 sq	
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		900 sq	
Building: 12 - 1001-1010 Classroom Wing		Room: 02 - Room 1005 - 30 x 30 x 9				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		900 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		900 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		90 ln	
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		216 sq	No
<i>Comment: Upper Portion</i>						
Walls: Metal	NON	Non-Suspect				
<i>Comment: North Wall</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		225 sq	
Building: 12 - 1001-1010 Classroom Wing		Room: 03 - Room 1003 - 30 x 30 x 9				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		900 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		900 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		90 ln	
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		216 sq	No
<i>Comment: Upper Portion</i>						
Walls: Metal	NON	Non-Suspect				
<i>Comment: North Wall</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		225 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgn's Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>12 - 1001-1010 Classroom Wing</u>		Room: <u>04 - Room 1001 Nurse's Office - 35 x 15 x 9</u>				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		525 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		525 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		100 ln	
Walls: Metal	NON	Non-Suspect				
Walls: Plaster, Orange Peel Texture	SURF	None Detected	11		675 sq	
Ceiling: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47	47C	525 sq	No
Building: <u>12 - 1001-1010 Classroom Wing</u>		Room: <u>05 - Boy's Restroom - 23 x 13 x 10</u>				
Floor: 1" Grey Ceramic Tile	MISC	None Detected	10		299 sq	
Walls: 4" Ceramic Tile, White	MISC	None Detected	23		720 sq	
Ceiling: Plaster, Orange Peel Texture	SURF	None Detected	11		299 sq	
Building: <u>12 - 1001-1010 Classroom Wing</u>		Room: <u>06 - Custodial at Boy's Restroom - 9 x 4 x 10</u>				
Floor: Concrete	MISC	Assumed	15		36 sq	No
Walls: Plaster, Orange Peel Texture	SURF	None Detected	11		260 sq	
Ceiling: Plaster, Orange Peel Texture	SURF	None Detected	11		36 sq	
Pipes: Fiberglass Pipe Insulation w/ Canvas Wra	TSI	None Detected	35	35A	4 ea	
<i>Comment: West Side</i>						
Building: <u>12 - 1001-1010 Classroom Wing</u>		Room: <u>07 - Women's RR - 23 x 9 x 10</u>				
Floor: 1" Grey Ceramic Tile	MISC	None Detected	10		207 sq	
Walls: 4" Ceramic Tile, White	MISC	None Detected	23		640 sq	
Ceiling: Plaster, Orange Peel Texture	SURF	None Detected	11		207 sq	
Building: <u>12 - 1001-1010 Classroom Wing</u>		Room: <u>08 - Room 1002 - 30 x 30 x 9</u>				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		900 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		900 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		90 ln	
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		216 sq	No
<i>Comment: Upper Portion</i>						
Walls: Metal	NON	Non-Suspect				
<i>Comment: South Wall</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		225 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>12 - 1001-1010 Classroom Wing</u>		Room: <u>09 - Room 1004 - 30 x 30 x 9</u>				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1	1H	900 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		900 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		90 ln	
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47	47D	216 sq	No
<i>Comment: Upper Portion</i>						
Walls: Metal	NON	Non-Suspect				
<i>Comment: South Wall</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		225 sq	
Building: <u>12 - 1001-1010 Classroom Wing</u>		Room: <u>10 - Room 1006 - 30 x 30 x 9</u>				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		900 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		900 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		90 ln	
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47	47E	216 sq	No
<i>Comment: Upper Portion</i>						
Walls: Metal	NON	Non-Suspect				
<i>Comment: South Wall</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48	48B	225 sq	
Building: <u>12 - 1001-1010 Classroom Wing</u>		Room: <u>11 - Room 1008 - 30 x 30 x 9</u>				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		900 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		900 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		90 ln	
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		216 sq	No
<i>Comment: Upper Portion</i>						
Walls: Metal	NON	Non-Suspect				
<i>Comment: South Wall</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		225 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgs Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>12 - 1001-1010 Classroom Wing</u>		Room: <u>12 - Room 1010 - 30 x 30 x 9</u>				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		900 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		900 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		90 ln	
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		216 sq	No
<i>Comment: Upper Portion</i>						
Walls: Metal	NON	Non-Suspect				
<i>Comment: South Wall</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		225 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>13 - 803-810 Classroom Wing</u>		Room: <u>01 - Room 809 - 30 x 30 x 9</u>				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1	1G	900 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		900 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		120 ln	
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		216 sq	No
Walls: Metal	NON	Non-Suspect				
<i>Comment: North wall</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		900 sq	
Building: <u>13 - 803-810 Classroom Wing</u>		Room: <u>02 - Room 807 - 30 x 30 x 9</u>				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		900 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		900 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		120 ln	
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		216 sq	No
Walls: Metal	NON	Non-Suspect				
<i>Comment: North wall</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		900 sq	
Building: <u>13 - 803-810 Classroom Wing</u>		Room: <u>03 - Room 805 - 30 x 30 x 9</u>				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		900 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		900 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		120 ln	
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47	47B	216 sq	No
Walls: Metal	NON	Non-Suspect				
<i>Comment: North wall</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		900 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 13 - 803-810 Classroom Wing		Room: 04 - Room 803 - 30 x 30 x 9				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		900 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		900 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		120 ln	
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		216 sq	No
Walls: Metal	NON	Non-Suspect				
<i>Comment: North wall</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		900 sq	
Building: 13 - 803-810 Classroom Wing		Room: 05 - Break Room North - 30 x 12 x 9				
Floor: Carpet and Mastic, Grey Multi Color	MISC	3 %	3	3B	360 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		84 ln	
Walls: Drywall Knockdown Texture	MISC	None Detected	50		189 sq	
<i>Comment: At RR Vestibule</i>						
Walls: Metal	NON	Non-Suspect				
<i>Comment: N Wall</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		360 sq	No
Ceiling: Plaster, Orange Peel Texture	SURF	None Detected	11		90 sq	
<i>Comment: At RR Vestibule</i>						
<i>Room Includes RR Vestibule</i>						
<i>Comments:</i>						
Building: 13 - 803-810 Classroom Wing		Room: 06 - Break Room RR (women's) - 9 x 6 x 9				
Floor: 1" Grey Ceramic Tile	MISC	None Detected	10		54 sq	
Walls: 4" Ceramic Tile, White	MISC	None Detected	23		270 sq	
Walls: Drywall Knockdown Texture	MISC	None Detected	50		27 sq	
Ceiling: Plaster, Orange Peel Texture	SURF	None Detected	11		54 sq	
Building: 13 - 803-810 Classroom Wing		Room: 07 - Custodial - 11 x 5 x 9				
Floor: Concrete	MISC	Assumed	15		55 sq	No
Baseboard: Concrete	MISC	Assumed	15		32 ln	No
Walls: Plaster, Stipple Texture	SURF	None Detected	8	8B	288 sq	
Ceiling: Plaster, Stipple Texture	SURF	None Detected	8		55 sq	
Pipes: Fiberglass Pipe Insulation w/ Canvas Wra	TSI	None Detected	35		2 ea	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

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HMS Project Number: P76317H

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Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>13 - 803-810 Classroom Wing</u>		Room: <u>08 - Break Room South - 30 x 12 x 9</u>				
Floor: Carpet and Mastic, Grey Multi Color	MISC	3 %	3	3D	360 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		84 ln	
Walls: Drywall Knockdown Texture <i>Comment: At RR Vestibule</i>	MISC	None Detected	50		189 sq	
Walls: Metal <i>Comment: S Wall</i>	NON	Non-Suspect				
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		360 sq	No
Ceiling: Plaster, Orange Peel Texture <i>Comment: At RR Vestibule</i>	SURF	None Detected	11		90 sq	
<i>Room Comments: Includes RR Vestibule</i>						
Building: <u>13 - 803-810 Classroom Wing</u>		Room: <u>09 - Break Room RR (mens) - 9 x 6 x 9</u>				
Floor: 1" Grey Ceramic Tile	MISC	None Detected	10		54 sq	
Walls: 4" Ceramic Tile, White	MISC	None Detected	23		270 sq	
Walls: Drywall Knockdown Texture	MISC	None Detected	50		27 sq	
Ceiling: Plaster, Orange Peel Texture	SURF	None Detected	11		54 sq	
Building: <u>13 - 803-810 Classroom Wing</u>		Room: <u>10 - Room 804 - 30 x 30 x 9</u>				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		900 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		900 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		120 ln	
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		216 sq	No
Walls: Metal <i>Comment: South wall</i>	NON	Non-Suspect				
Walls: Wood	NON	Non-Suspect				
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		900 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

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HMS Project Number: P76317H

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Materials	Material Class	Percent Asbestos	Hmgn's Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>13 - 803-810 Classroom Wing</u>		Room: <u>11 - Room 806 - 30 x 30 x 9</u>				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		900 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		900 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		120 ln	
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47	47A	216 sq	No
Walls: Drywall Knockdown Texture	MISC	None Detected	50	50C	270 sq	
<i>Comment: West Wall</i>						
Walls: Metal	NON	Non-Suspect				
<i>Comment: South wall</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		900 sq	
Building: <u>13 - 803-810 Classroom Wing</u>		Room: <u>12 - 806 Storage 1 - 22 x 6 x 9</u>				
Floor: 12" Vinyl Floor Tile Off-White Oatmeal	MISC	5 %	38		132 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		132 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		56 ln	
Walls: Plaster, Orange Peel Texture	SURF	None Detected	11	11E	504 sq	
Ceiling: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		132 sq	No
Building: <u>13 - 803-810 Classroom Wing</u>		Room: <u>13 - 806 Storage 1 Closet - 4 x 4 x 9</u>				
Floor: 12" Vinyl Floor Tile Off-White Oatmeal	MISC	5 %	38	38C	16 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		16 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		7 ln	
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		7 sq	No
<i>Comment: W Wall</i>						
Walls: Plaster, Orange Peel Texture	SURF	None Detected	11		61 sq	
Ceiling: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		16 sq	No
Building: <u>13 - 803-810 Classroom Wing</u>		Room: <u>14 - 806 Storage 2 - 22 x 6 x 9</u>				
Floor: 12" Vinyl Floor Tile Off-White Oatmeal	MISC	5 %	38		132 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		132 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		56 ln	
Walls: Plaster, Orange Peel Texture	SURF	None Detected	11		504 sq	
Ceiling: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		132 sq	No
Floors: Black Mastic (Classrooms)	MISC	Assumed	49			No

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

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HMS Project Number: P76317H

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Materials	Material Class	Percent Asbestos	Hmgn's Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>13 - 803-810 Classroom Wing</u>		Room: <u>15 - 806 Storage 2 Closet - 8 x 8 x 9</u>				
Floor: 12" Vinyl Floor Tile Off-White Oatmeal	MISC	5 %	38		64 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		64 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Brown	MISC	2 %	39	39C	32 ln	No
Walls: Metal	NON	Non-Suspect				
<i>Comment: S Wall</i>						
Walls: Plaster, Stipple Texture	SURF	None Detected	8		288 sq	
Ceiling: Plaster, Stipple Texture	SURF	None Detected	8		64 sq	
Building: <u>13 - 803-810 Classroom Wing</u>		Room: <u>16 - Room 810 - 48 x 30 x 9</u>				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		1440 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		1440 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		192 ln	
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		346 sq	No
Walls: Metal	NON	Non-Suspect				
<i>Comment: South wall</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		1440 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

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Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>14 - 602-609 Classroom Wing</u>		Room: <u>01 - Room 609 - 30 x 28 x 9</u>					
Floor:	12" Vinyl Floor Tile Grey Streaks	MISC	None Detected	33	33A	840 sq	
Floor:	Black Mastic (Classrooms)	MISC	Assumed	49		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls:	Tackboard and Glue, Off White	MISC	None Detected	4		209 sq	
	<i>Comment: Upper Portion</i>						
Walls:	Wood	NON	Non-Suspect				
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Building: <u>14 - 602-609 Classroom Wing</u>		Room: <u>02 - 609 Storage - 30 x 12 x 9</u>					
Floor:	12" Vinyl Floor Tile Grey Streaks	MISC	None Detected	33		360 sq	
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		84 ln	
Walls:	Plaster, Stipple Texture	SURF	None Detected	8		756 sq	
Walls:	Tackboard and Glue, Off White	MISC	None Detected	4		529 sq	
	<i>Comment: Lower portion</i>						
Ceiling:	Plaster, Stipple Texture	SURF	None Detected	8		360 sq	
Building: <u>14 - 602-609 Classroom Wing</u>		Room: <u>03 - Room 605 - 28 x 25 x 9</u>					
Floor:	12" Vinyl Floor Tile Grey Streaks	MISC	None Detected	33		700 sq	
Floor:	Black Mastic (Classrooms)	MISC	Assumed	49		700 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		97 ln	
Walls:	Metal	NON	Non-Suspect				
	<i>Comment: North Wall</i>						
Walls:	Tackboard and Glue, Off White	MISC	None Detected	4		954 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48	48C	700 sq	
Misc:	Transite Fume Hood	MISC	Known	51		1 ea	No
	<i>Comment: West wall</i>						

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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HMS Project Number: P76317H

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Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>14 - 602-609 Classroom Wing</u>		Room: <u>04 - Lab - 30 x 28 x 9</u>					
Floor:	12" Vinyl Floor Tile Grey Streaks	MISC	None Detected	33		840 sq	
Floor:	Black Mastic (Classrooms)	MISC	Assumed	49		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls:	Metal	NON	Non-Suspect				
	<i>Comment: North Wall</i>						
Walls:	Tackboard and Glue, Off White	MISC	None Detected	4		1145 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Sink:	Sink Coating Black	MISC	None Detected	52	52A	1 ea	
Misc:	Transite Fume Hood	MISC	Known	51		1 ea	No
	<i>Comment: East wall</i>						
Building: <u>14 - 602-609 Classroom Wing</u>		Room: <u>05 - Lab Storage - 30 x 12 x 9</u>					
Floor:	12" Vinyl Floor Tile Grey Streaks	MISC	None Detected	33		360 sq	
Floor:	Black Mastic (Classrooms)	MISC	Assumed	49		360 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		84 ln	
Walls:	Plaster, Stipple Texture	SURF	None Detected	8		756 sq	
Ceiling:	Plaster, Stipple Texture	SURF	None Detected	8		360 sq	
Building: <u>14 - 602-609 Classroom Wing</u>		Room: <u>06 - Girls RR - 24 x 11 x 9</u>					
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10		264 sq	
Walls:	4" Ceramic Tile, Pink	MISC	None Detected	13		315 sq	
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11		630 sq	
Ceiling:	Plaster, Orange Peel Texture	SURF	None Detected	11		264 sq	
Building: <u>14 - 602-609 Classroom Wing</u>		Room: <u>07 - Boy's RR - 23 x 12 x 10</u>					
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10		840 sq	
Walls:	4" Ceramic Tile, Yellow	MISC	None Detected	9		1044 sq	
Ceiling:	12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		840 sq	No

Functional Space Notes

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Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>14 - 602-609 Classroom Wing</u>		Room: <u>08 - Custodial at Boys RR - 10 x 7 x 10</u>					
Floor:	Concrete	MISC	Assumed	15		70 sq	No
Baseboard:	Concrete	MISC	Assumed	15		34 ln	No
Walls:	Plaster, Stipple Texture	SURF	None Detected	8		340 sq	
Ceiling:	Plaster, Stipple Texture	SURF	None Detected	8		70 sq	
Pipes:	Fiberglass Pipe Insulation w/ Canvas Wra	TSI	None Detected	35	35B	4 ea	
<i>Room Includes vestibule</i>							
<i>Comments:</i>							
Building: <u>14 - 602-609 Classroom Wing</u>		Room: <u>09 - Room 602 - 30 x 28 x 9</u>					
Floor:	12" Vinyl Floor Tile Grey Streaks	MISC	None Detected	33		840 sq	
Floor:	Black Mastic (Classrooms)	MISC	Assumed	49		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls:	Metal	NON	Non-Suspect				
<i>Comment: S Wall</i>							
Walls:	Tackboard and Glue, Off White	MISC	None Detected	4		783 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Building: <u>14 - 602-609 Classroom Wing</u>		Room: <u>10 - Room 604 - 30 x 28 x 9</u>					
Floor:	12" Vinyl Floor Tile Grey Streaks	MISC	None Detected	33		840 sq	
Floor:	Black Mastic (Classrooms)	MISC	Assumed	49		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls:	Metal	NON	Non-Suspect				
<i>Comment: S Wall</i>							
Walls:	Tackboard and Glue, Off White	MISC	None Detected	4	4B	783 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Sink:	Sink Coating Black	MISC	None Detected	52		1 ea	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>14 - 602-609 Classroom Wing</u>		Room: <u>11 - Room 606 - 30 x 28 x 9</u>				
Floor: 12" Vinyl Floor Tile Grey Streaks	MISC	None Detected	33		840 sq	
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		840 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls: Metal	NON	Non-Suspect				
<i>Comment: S Wall</i>						
Walls: Tackboard and Glue, Off White	MISC	None Detected	4		783 sq	
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Misc: Transite Fume Hood	MISC	Known	51		1 ea	No
Building: <u>14 - 602-609 Classroom Wing</u>		Room: <u>12 - Room 608 - 30 x 28 x 9</u>				
Floor: 12" Vinyl Floor Tile Grey Streaks	MISC	None Detected	33		840 sq	
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		840 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls: Metal	NON	Non-Suspect				
<i>Comment: S Wall</i>						
Walls: Tackboard and Glue, Off White	MISC	None Detected	4		783 sq	
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Misc: Transite Fume Hood	MISC	Known	51		1 ea	No
Building: <u>14 - 602-609 Classroom Wing</u>		Room: <u>13 - 608 Storage - 28 x 10 x 9</u>				
Floor: 12" Vinyl Floor Tile Grey Streaks	MISC	None Detected	33		280 sq	
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		280 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		39 ln	
Walls: Metal	NON	Non-Suspect				
<i>Comment: S Wall</i>						
Walls: Tackboard and Glue, Off White	MISC	None Detected	4		261 sq	
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		280 sq	
Misc: Transite Fume Hood	MISC	Known	51			No

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 15 - 401-410 Classroom Wing		Room: 01 - Room 409 - 30 x 28 x 9					
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, White	MISC	None Detected	54		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48	48A	840 sq	
Building: 15 - 401-410 Classroom Wing		Room: 02 - Room 407 - 30 x 28 x 9					
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, White	MISC	None Detected	54		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Building: 15 - 401-410 Classroom Wing		Room: 03 - Room 405 - 30 x 28 x 9					
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	55A	116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, White	MISC	None Detected	54		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Building: 15 - 401-410 Classroom Wing		Room: 04 - Room 403 - 30 x 28 x 9					
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, White	MISC	None Detected	54	54A	1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Misc:	Unit Ventilator	MISC	Assumed	56		1 ea	No

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 15 - 401-410 Classroom Wing		Room: 05 - Room 401 - 30 x 28 x 9					
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	55C	116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, White	MISC	None Detected	54		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Misc:	Unit Ventilator	MISC	Assumed	56		1 ea	No
Building: 15 - 401-410 Classroom Wing		Room: 06 - Room 402 - 30 x 28 x 9					
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, White	MISC	None Detected	54	54B	1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Misc:	Unit Ventilator	MISC	Assumed	56		1 ea	No
Building: 15 - 401-410 Classroom Wing		Room: 07 - Room 404 - 30 x 28 x 9					
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, White	MISC	None Detected	54		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Misc:	Unit Ventilator	MISC	Assumed	56		1 ea	No
Building: 15 - 401-410 Classroom Wing		Room: 08 - Room 406 - 30 x 28 x 9					
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, White	MISC	None Detected	54		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Misc:	Unit Ventilator	MISC	Assumed	56		1 ea	No

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>15 - 401-410 Classroom Wing</u>		Room: <u>09 - Room 408 - 30 x 28 x 9</u>					
Floor:	Carpet and Mastic, Multi Color	MISC	<u>5 %</u>	53	53C	840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, White	MISC	None Detected	54		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Misc:	Unit Ventilator	MISC	Assumed	56		1 ea	No
Building: <u>15 - 401-410 Classroom Wing</u>		Room: <u>10 - Room 410 - 30 x 28 x 9</u>					
Floor:	Carpet and Mastic, Multi Color	MISC	<u>5 %</u>	53		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, White	MISC	None Detected	54		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Misc:	Unit Ventilator	MISC	Assumed	56		1 ea	No

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 16 - 702 - 706 Classroom Wing		Room: 01 - Room 702 - 35 x 29 x 10					
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		1015 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		128 ln	
Walls:	Drywall, Medium Texture	MISC	None Detected	59	59C	128 sq	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1280 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	25A	1280 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58		1015 sq	No
Building: 16 - 702 - 706 Classroom Wing		Room: 02 - Room 704 - 35 x 29 x 10					
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		1015 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		128 ln	
Walls:	Drywall, Medium Texture	MISC	None Detected	59	59B	128 sq	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1280 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1280 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58		1015 sq	No
Building: 16 - 702 - 706 Classroom Wing		Room: 03 - Room 706 - 35 x 29 x 10					
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		1015 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		128 ln	
Walls:	Drywall, Medium Texture	MISC	None Detected	59	59A	128 sq	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1280 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1280 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58		1015 sq	No
Building: 16 - 702 - 706 Classroom Wing		Room: 04 - Room 705 - 45 x 30 x 10					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		1350 sq	No
Floor:	Concealed Floor Tile, White	MISC	5 %	60		1350 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		150 ln	
Walls:	12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		300 sq	No
Walls:	Tackboard and Glue, White	MISC	None Detected	54		1200 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		1350 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 16 - 702 - 706 Classroom Wing		Room: 05 - Room 703 - 45 x 30 x 10				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1	1D	1350 sq	No
Floor: Concealed Floor Tile, White	MISC	5 %	60		1350 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		150 ln	
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		300 sq	No
Walls: Tackboard and Glue, White	MISC	None Detected	54		1200 sq	
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		1350 sq	
Building: 16 - 702 - 706 Classroom Wing		Room: 06 - Mechaical Room - 29 x 15 x 12				
Floor: Concrete	MISC	Assumed	15		435 sq	No
Baseboard: Concrete	MISC	Assumed	15		88 ln	No
Walls: Drywall, Unfinished <i>Comment: NW Corner</i>	MISC	None Detected	57	57B	211 sq	
Walls: Plaster, Stipple Texture	SURF	None Detected	8		1056 sq	
Ceiling: Wood	NON	Non-Suspect				
Pipes: Fiberglass Pipe Insuation w/ Canvas Wra <i>Comment: Includes boiler tank</i>	TSI	None Detected	35	35C	20 ea	
Pipes: Hard Elbows <i>Comment: Includes one T connection</i>	TSI	None Detected	37	37A, 37B	20 ea	

Functional Space Notes

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Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>17 - 901-908 Classroom Wings</u>		Room: <u>01 - Room 902 - 31 x 27 x 9</u>				
Floor:	Black Mastic (Classrooms)	MISC	Assumed	49	837 sq	No
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53	53B	837 sq No
Floor:	Concealed Floor Tile, White	MISC	5 %	60		837 sq No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	55B	116 ln
Walls:	Wood	NON	Non-Suspect			
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		837 sq
Ceiling:	Tackboard and Glue, White	MISC	None Detected	54		753 sq
Building: <u>17 - 901-908 Classroom Wings</u>		Room: <u>02 - Room 904 - 31 x 27 x 9</u>				
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		837 sq No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		116 ln
Walls:	Drywall, Unfinished	MISC	None Detected	57		783 sq
Walls:	Metal	NON	Non-Suspect			
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		837 sq
Ceiling:	Tackboard and Glue, White	MISC	None Detected	54		837 sq
Building: <u>17 - 901-908 Classroom Wings</u>		Room: <u>03 - Room 906 - 31 x 27 x 9</u>				
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		837 sq No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		116 ln
Walls:	Drywall, Unfinished	MISC	None Detected	57		783 sq
Walls:	Metal	NON	Non-Suspect			
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		837 sq
Ceiling:	Tackboard and Glue, White	MISC	None Detected	54		837 sq
Building: <u>17 - 901-908 Classroom Wings</u>		Room: <u>04 - Room 908 - 31 x 27 x 9</u>				
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		837 sq No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		116 ln
Walls:	Drywall, Unfinished	MISC	None Detected	57		783 sq
Walls:	Metal	NON	Non-Suspect			
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		837 sq
Ceiling:	Tackboard and Glue, White	MISC	None Detected	54		837 sq

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>17 - 901-908 Classroom Wings</u>		Room: <u>05 - Room 907 C - 15 x 13 x 9</u>					
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		195 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		27 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		182 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		195 sq	
Ceiling:	Tackboard and Glue, White	MISC	None Detected	54		195 sq	
Building: <u>17 - 901-908 Classroom Wings</u>		Room: <u>06 - Room 907 B - 15 x 13 x 9</u>					
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		195 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		27 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		182 sq	
Walls:	Metal	NON	Non-Suspect				
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		195 sq	
Ceiling:	Tackboard and Glue, White	MISC	None Detected	54		195 sq	
Building: <u>17 - 901-908 Classroom Wings</u>		Room: <u>07 - Room 907 - 26 x 15 x 9</u>					
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		390 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		54 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		364 sq	
Walls:	Metal	NON	Non-Suspect				
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		390 sq	
Ceiling:	Tackboard and Glue, White	MISC	None Detected	54		390 sq	
Building: <u>17 - 901-908 Classroom Wings</u>		Room: <u>08 - Room 905 - 31 x 27 x 9</u>					
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		837 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		783 sq	
Walls:	Metal	NON	Non-Suspect				
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		837 sq	
Ceiling:	Tackboard and Glue, White	MISC	None Detected	54		837 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>17 - 901-908 Classroom Wings</u>		Room: <u>09 - Room 903 - 31 x 27 x 9</u>				
Floor:	Carpet and Mastic, Multi Color	MISC	<u>5 %</u>	53	837 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57	783 sq	
Walls:	Metal	NON	Non-Suspect			
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48	837 sq	
Ceiling:	Tackboard and Glue, White	MISC	None Detected	54	837 sq	
Building: <u>17 - 901-908 Classroom Wings</u>		Room: <u>10 - Room 901 - 31 x 27 x 9</u>				
Floor:	Black Mastic (Classrooms)	MISC	Assumed	49	837 sq	No
Floor:	Carpet and Mastic, Multi Color	MISC	<u>5 %</u>	53	837 sq	No
Floor:	Concealed Floor Tile, White	MISC	<u>5 %</u>	60	837 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	116 ln	
Walls:	12" ACT Pinhole Fissure classroom wing	MISC	<u>2 %</u>	47	209 sq	No
Walls:	Wood	NON	Non-Suspect			
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48	837 sq	
Ceiling:	Tackboard and Glue, White	MISC	None Detected	54	84 sq	
<i>Comment: N Wall</i>						

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 18 - 1301-1306 Classroom Wing		Room: 01 - Room 1302 - 32 x 28 x 10				
Floor:	Black Mastic (Classrooms)	MISC	Assumed	49	896 sq	No
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53	896 sq	No
Floor:	Concealed Tile, Beige	MISC	5 %	62 62A	896 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	120 ln	
Walls:	12" ACT Small Pinhole	MISC	2 %	27 27B	240 sq	No
Walls:	Drywall, Orange Peel Texture (1300 wing <i>Comment: North Wall at Plenum</i>)	MISC	None Detected	61	120 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	1200 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48	896 sq	
Building: 18 - 1301-1306 Classroom Wing		Room: 02 - Room 1304 - 32 x 28 x 10				
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53	896 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	120 ln	
Walls:	12" ACT Small Pinhole	MISC	2 %	27	240 sq	No
Walls:	Drywall, Orange Peel Texture (1300 wing <i>Comment: North Wall at Plenum</i>)	MISC	None Detected	61 61B	120 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	1200 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48	896 sq	
Building: 18 - 1301-1306 Classroom Wing		Room: 03 - Room 1306 - 32 x 28 x 12				
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53	896 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	120 ln	
Walls:	Drywall, Orange Peel Texture (1300 wing <i>Comment: North Wall at Plenum</i>)	MISC	None Detected	61 61A	120 sq	
Walls:	Drywall, Unfinished	MISC	None Detected	57	1200 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25 25B	1200 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58	896 sq	Yes
Building: 18 - 1301-1306 Classroom Wing		Room: 04 - Boy's RR - 34 x 15 x 10				
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10	510 sq	
Walls:	4" Ceramic Tile, White	MISC	None Detected	23	980 sq	
Ceiling:	Drywall, Orange Peel Texture (1300 wing)	MISC	None Detected	61	510 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 18 - 1301-1306 Classroom Wing						
Room: 04 - Girl's RR - 34 x 15 x 10						
Floor: 1" Grey Ceramic Tile	MISC	None Detected	10		510 sq	
Walls: 4" Ceramic Tile, White	MISC	None Detected	23		980 sq	
Ceiling: Drywall, Orange Peel Texture (1300 wing)	MISC	None Detected	61		510 sq	
Building: 18 - 1301-1306 Classroom Wing						
Room: 05 - Room 1305 - 32 x 28 x 12						
Floor: Carpet and Mastic, Multi Color	MISC	5 %	53		896 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		120 ln	
Walls: Drywall, Orange Peel Texture (1300 wing) <i>Comment: South Wall at Plenum</i>	MISC	None Detected	61	61C	120 sq	
Walls: Drywall, Unfinished	MISC	None Detected	57		1200 sq	
Walls: Tackboard and Glue, Grey	MISC	None Detected	25		1200 sq	
Ceiling: 2'x4' FCP Pinhole Pissure	MISC	Assumed	58		896 sq	Yes
Building: 18 - 1301-1306 Classroom Wing						
Room: 06 - Room 1303 - 32 x 15 x 10						
Floor: Carpet and Mastic, Multi Color	MISC	5 %	53		480 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		64 ln	
Walls: 12" ACT Small Pinhole	MISC	2 %	27	27A	129 sq	No
Walls: Drywall, Orange Peel Texture (1300 wing) <i>Comment: South Wall at Plenum</i>	MISC	None Detected	61		64 sq	
Walls: Tackboard and Glue, Grey	MISC	None Detected	25		643 sq	
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		480 sq	
Building: 18 - 1301-1306 Classroom Wing						
Room: 07 - Room 1301 - 32 x 15 x 10						
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		480 sq	No
Floor: Carpet and Mastic, Multi Color	MISC	5 %	53		480 sq	No
Floor: Concealed Tile, Beige	MISC	5 %	62		480 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		64 ln	
Walls: 12" ACT Small Pinhole	MISC	2 %	27		129 sq	No
Walls: Drywall, Orange Peel Texture (1300 wing) <i>Comment: South Wall at Plenum</i>	MISC	None Detected	61		64 sq	
Walls: Tackboard and Glue, Grey	MISC	None Detected	25		643 sq	
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		480 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>19 - 1501-1508 Classroom Wing</u>		Room: <u>01 - Room 1502 - 30 x 30 x 9</u>				
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53	53A	900 sq No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		120 ln
Walls:	Drywall, Painted	MISC	None Detected	41		108 sq
<i>Comment: At Heat Pump Closet</i>						
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1080 sq
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58		900 sq Yes
Building: <u>19 - 1501-1508 Classroom Wing</u>		Room: <u>02 - Room 1504 - 30 x 30 x 9</u>				
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		900 sq No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		120 ln
Walls:	Drywall, Painted	MISC	None Detected	41		108 sq
<i>Comment: At Heat Pump Closet</i>						
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1080 sq
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58		900 sq Yes
Building: <u>19 - 1501-1508 Classroom Wing</u>		Room: <u>03 - Room 1506 - 30 x 30 x 9</u>				
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		900 sq No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		120 ln
Walls:	Drywall, Painted	MISC	None Detected	41		108 sq
<i>Comment: At Heat Pump Closet</i>						
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1080 sq
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58		900 sq Yes
Building: <u>19 - 1501-1508 Classroom Wing</u>		Room: <u>04 - Room 1508 - 30 x 30 x 9</u>				
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		900 sq No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		120 ln
Walls:	Drywall, Painted	MISC	None Detected	41	41G	108 sq
<i>Comment: At Heat Pump Closet</i>						
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1080 sq
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58		900 sq Yes

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

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Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 19 - 1501-1508 Classroom Wing		Room: 05 - Room 1507 - 30 x 30 x 9				
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53	900 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	120 ln	
Walls:	Drywall, Painted	MISC	None Detected	41	41D	108 sq
<i>Comment: At Heat Pump Closet</i>						
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	1080 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58	900 sq	Yes
Building: 19 - 1501-1508 Classroom Wing		Room: 06 - Room 1505 - 30 x 30 x 9				
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53	900 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	120 ln	
Walls:	Drywall, Painted	MISC	None Detected	41	108 sq	
<i>Comment: At Heat Pump Closet</i>						
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	1080 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58	900 sq	Yes
Building: 19 - 1501-1508 Classroom Wing		Room: 07 - Room 1503 - 30 x 30 x 9				
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53	900 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	120 ln	
Walls:	Drywall, Painted	MISC	None Detected	41	108 sq	
<i>Comment: At Heat Pump Closet</i>						
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	1080 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58	900 sq	Yes
Building: 19 - 1501-1508 Classroom Wing		Room: 08 - Room 1501 - 30 x 30 x 9				
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53	900 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	120 ln	
Walls:	Drywall, Painted	MISC	None Detected	41	108 sq	
<i>Comment: At Heat Pump Closet</i>						
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	1080 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58	900 sq	Yes

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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Site: Selma High School

HMS Project Number: P76317H

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Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>19 - 1501-1508 Classroom Wing</u>		Room: <u>09 - Server Room - 8 x 8 x 10</u>				
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1	64 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	32 ln	
Walls:	Wood	NON	Non-Suspect			
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58	64 sq	Yes
<i>Room</i>	<i>West Side ext</i>					
<i>Comments:</i>						

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>20 - Library</u>		Room: <u>01 - Library (main) - 80 x 45 x 11</u>					
Floor:	Carpet and Mastic, Grey Squares	MISC	None Detected	63	63B	3600 sq	
Baseboard:	4" Vinyl Baseboard and Mastic, Black	MISC	None Detected	44		250 ln	
Walls:	Tackboard and Glue, Tan	MISC	None Detected	64		2750 sq	
Ceiling:	12" ACT Pinhle Fissure (library)	MISC	None Detected	65		180 sq	
	<i>Comment: SE Corner</i>						
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58		3600 sq	Yes
Ceiling:	Drywall, Unfinished	MISC	None Detected	57	57A	3600 sq	
Building: <u>20 - Library</u>		Room: <u>02 - Office 1 - 16 x 12 x 12</u>					
Floor:	Carpet and Mastic, Grey Squares	MISC	None Detected	63		192 sq	
Baseboard:	4" Vinyl Baseboard and Mastic, Black	MISC	None Detected	44		56 ln	
Walls:	Tackboard and Glue, Tan	MISC	None Detected	64		672 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58		192 sq	Yes
Building: <u>20 - Library</u>		Room: <u>03 - Book Storage - 25 x 20 x 10</u>					
Floor:	12" Vinyl Floor Tile, Beige Pebble	MISC	3 %	66		500 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Brown	MISC	2 %	39		90 ln	No
Walls:	Tackboard and Glue, Tan	MISC	None Detected	64	64A	900 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58		500 sq	Yes
Building: <u>20 - Library</u>		Room: <u>04 - Book Storage Closet - 25 x 10 x 10</u>					
Floor:	12" Vinyl Floor Tile, Beige Pebble	MISC	3 %	66	66A, 66B	250 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Brown	MISC	2 %	39	39B	70 ln	No
Walls:	Tackboard and Glue, Tan	MISC	None Detected	64		700 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58		250 sq	Yes
Building: <u>20 - Library</u>		Room: <u>05 - Classroom - 25 x 36 x 10</u>					
Floor:	24" VFT White Pebble	MISC	None Detected	67	67A	900 sq	
Baseboard:	4" Vinyl Baseboard and Mastic, Black	MISC	None Detected	44	44B	122 ln	
Walls:	Tackboard and Glue, Tan	MISC	None Detected	64	64B	1220 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58		900 sq	Yes

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

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Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>20 - Library</u>		Room: <u>06 - Office 2 - 17 x 10 x 8</u>					
Floor:	Carpet and Mastic, Grey Squares	MISC	None Detected	63		170 sq	
Baseboard:	4" Vinyl Baseboard and Mastic, Black	MISC	None Detected	44		54 ln	
Walls:	Tackboard and Glue, Tan	MISC	None Detected	64		432 sq	
Ceiling:	12" ACT Pinhle Fissure (library)	MISC	None Detected	65	65B	170 sq	
Building: <u>20 - Library</u>		Room: <u>07 - Staff RR Men - 17 x 6 x 7</u>					
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10		102 sq	
Baseboard:	1" Grey Ceramic Tile	MISC	None Detected	10		46 ln	
Walls:	1" Grey Ceramic Tile	MISC	None Detected	10		322 sq	
Ceiling:	Drywall, Painted	MISC	None Detected	41		102 sq	
Building: <u>20 - Library</u>		Room: <u>08 - Staff RR Women - 12 x 9 x 7</u>					
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10		108 sq	
Baseboard:	1" Grey Ceramic Tile	MISC	None Detected	10		49 ln	
Walls:	1" Grey Ceramic Tile	MISC	None Detected	10		341 sq	
Ceiling:	Drywall, Painted	MISC	None Detected	41	41F	108 sq	
Building: <u>20 - Library</u>		Room: <u>09 - Custodial - 5 x 4 x 9</u>					
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10		20 sq	
Baseboard:	1" Grey Ceramic Tile	MISC	None Detected	10		9 ln	
Walls:	1" Grey Ceramic Tile	MISC	None Detected	10		81 sq	
Walls:	Tackboard and Glue, Tan	MISC	None Detected	64		162 sq	
Ceiling:	Drywall, Painted	MISC	None Detected	41		20 sq	
Room Comments:	<i>At women staff rr</i>						
Building: <u>20 - Library</u>		Room: <u>10 - Student unisex rr - 5 x 5 x 8</u>					
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10		25 sq	
Baseboard:	1" Grey Ceramic Tile	MISC	None Detected	10		11 ln	
Walls:	1" Grey Ceramic Tile	MISC	None Detected	10		79 sq	
Ceiling:	Drywall, Painted	MISC	None Detected	41		25 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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HMS Project Number: P76317H

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Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>20 - Library</u>		Room: <u>11 - Office 3 - 12 x 10 x 8</u>					
Floor:	Carpet and Mastic, Grey Squares	MISC	None Detected	63		120 sq	
Baseboard:	4" Vinyl Baseboard and Mastic, Black	MISC	None Detected	44		38 ln	
Walls:	Tackboard and Glue, Tan	MISC	None Detected	64		305 sq	
Ceiling:	12" ACT Pinhle Uniform	MISC	Assumed	68		120 sq	No
Building: <u>20 - Library</u>		Room: <u>12 - Office 4 - 18 x 11 x 8</u>					
Floor:	Carpet and Mastic, Grey Squares	MISC	None Detected	63	63A	198 sq	
Baseboard:	4" Vinyl Baseboard and Mastic, Black	MISC	None Detected	44		63 ln	
Walls:	Tackboard and Glue, Tan	MISC	None Detected	64		503 sq	
Ceiling:	12" ACT Pinhle Fissure (library)	MISC	None Detected	65	65A	198 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

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Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>21 - 501-504 Classroom Wing</u>		Room: <u>01 - Girl's RR - 26 x 13 x 9</u>				
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10	338 sq	
Walls:	4" Ceramic Tile, White	MISC	None Detected	23	702 sq	
Ceiling:	Plaster, Stipple Texture	SURF	None Detected	8	338 sq	
Building: <u>21 - 501-504 Classroom Wing</u>		Room: <u>02 - Custodial - 13 x 8 x 13</u>				
Floor:	Concrete	MISC	Assumed	15	104 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Brown	MISC	2 %	39	42 ln	No
Walls:	Drywall, Orange Peel Texture	MISC	None Detected	26 26A	546 sq	
Walls:	FRP and Glue, Off-White	MISC	None Detected	19	136 sq	
Ceiling:	Drywall, Painted	MISC	None Detected	41 41E	104 sq	
Building: <u>21 - 501-504 Classroom Wing</u>		Room: <u>03 - Boy's RR - 26 x 13 x 9</u>				
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10	338 sq	
Walls:	4" Ceramic Tile, White	MISC	None Detected	23	702 sq	
Ceiling:	Plaster, Stipple Texture	SURF	None Detected	8	338 sq	
Building: <u>21 - 501-504 Classroom Wing</u>		Room: <u>04 - Room 502 - 45 x 30 x 10</u>				
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1	1350 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	150 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57	1500 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	1500 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48	1350 sq	
Misc:	Transite Fume Hood	MISC	Known	51	1 ea	No
Building: <u>21 - 501-504 Classroom Wing</u>		Room: <u>05 - 502 & 504 Closet - 25 x 11 x 9</u>				
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1	275 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	72 ln	
Walls:	Drywall, Orange Peel Texture	MISC	None Detected	26 26G	324 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	648 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48	275 sq	

Functional Space Notes

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Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>21 - 501-504 Classroom Wing</u>		Room: <u>05 - HVAC Closet - 10 x 5 x 12</u>					
Floor:	Concrete	MISC	Assumed	15		25 sq	No
Walls:	Drywall, Orange Peel Texture	MISC	None Detected	26			
Walls:	Wood	NON	Non-Suspect				
Ceiling:	Fiberglass	NON	Non-Suspect				
<i>Room Comments:</i> At 502 and 504 closet							
Building: <u>21 - 501-504 Classroom Wing</u>		Room: <u>06 - HVAC Closet - 10 x 5 x 12</u>					
Floor:	Concrete	MISC	Assumed	15		50 sq	No
Walls:	Drywall, Orange Peel Texture	MISC	None Detected	26		90 sq	
Walls:	Wood	NON	Non-Suspect				
Ceiling:	Fiberglass	NON	Non-Suspect				
<i>Room Comments:</i> At 501 and 503 closet							
Building: <u>21 - 501-504 Classroom Wing</u>		Room: <u>06 - Room 504 - 35 x 30 x 10</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		1050 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		117 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1167 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1167 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		1050 sq	
Building: <u>21 - 501-504 Classroom Wing</u>		Room: <u>07 - Room 501 - 45 x 30 x 10</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		1350 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		150 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1500 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1500 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		1350 sq	
Misc:	Transite Fume Hood	MISC	Known	51		1 ea	No
Building: <u>21 - 501-504 Classroom Wing</u>		Room: <u>07 - Room 503 - 40 x 30 x 10</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		1200 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		134 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1334 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1334 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		1200 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>21 - 501-504 Classroom Wing</u>		Room: <u>08 - 501 & 503 Closet - 25 x 11 x 9</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		275 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		72 ln	
Walls:	Drywall, Orange Peel Texture	MISC	None Detected	26		324 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		648 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		275 sq	

Functional Space Notes

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Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>22 - 304-317 Wing</u>		Room: <u>01 - Room 304 - 48 x 62 x 20</u>				
Floor: Concrete	MISC	Assumed	15		2976 sq	No
Walls: Drywall Knockdown Texture (shop) <i>Comment: East wall</i>	MISC	None Detected	72	72A, 72C	1100 sq	
Walls: Metal	NON	Non-Suspect				
Walls: Window Glazing <i>Comment: North and south windows</i>	MISC	None Detected	70	70B, 70C		
Ceiling: Spray Fireproofing	SURF	None Detected	69	69A, 69B, 69C	595 sq	
Building: <u>22 - 304-317 Wing</u>		Room: <u>02 - 304 ne closet - 13 x 10 x 8</u>				
Floor: Concrete	MISC	Assumed	15		130 sq	No
Walls: Metal	NON	Non-Suspect				
Walls: Plaster, Stipple Texture	SURF	None Detected	8		368 sq	
Ceiling: Drywall, Painted (shop)	MISC	Assumed	71		130 sq	No
Ceiling: Spray Fireproofing <i>Comment: Above ceiling</i>	SURF	None Detected	69	69D	130 sq	
Building: <u>22 - 304-317 Wing</u>		Room: <u>03 - 304 e, center closet - 20 x 12 x 8</u>				
Floor: Concrete	MISC	Assumed	15		240 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Grey	MISC	None Detected	24		6 ln	
Walls: Plaster, Stipple Texture	SURF	None Detected	8		512 sq	
Ceiling: Plaster, Stipple Texture	SURF	None Detected	8		240 sq	
Ceiling: Spray Fireproofing <i>Comment: Above ceiling</i>	SURF	None Detected	69		240 sq	
Building: <u>22 - 304-317 Wing</u>		Room: <u>04 - 304 se closet - 18 x 12 x 20</u>				
Floor: Concrete	MISC	Assumed	15		216 sq	No
Walls: Metal	NON	Non-Suspect				
Walls: Plaster, Stipple Texture	SURF	None Detected	8		600 sq	
Walls: Window Glazing <i>Comment: south windows</i>	MISC	None Detected	70			
Ceiling: Spray Fireproofing	SURF	None Detected	69		43 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>22 - 304-317 Wing</u>		Room: <u>05 - Room 305 - 24 x 20 x 12</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1	1C	480 sq	No
Floor:	Black Mastic (Shop)	MISC	Assumed	73			No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		88 ln	
Walls:	12" ACT Pinhle Fissure (Shop)	MISC	2 %	74		106 sq	No
Walls:	Window Glazing	MISC	None Detected	70		106 sq	
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhle Fissure (Shop)	MISC	2 %	74	74A	480 sq	No
	<i>Comment: Splined</i>						
Ceiling:	Spray Fireproofing	SURF	None Detected	69		480 sq	
Building: <u>22 - 304-317 Wing</u>		Room: <u>06 - 305 Office - 12 x 9 x 8</u>					
Floor:	12" Vinyl Floor Tile, Beige Pebble	MISC	3 %	66	66C	108 sq	No
Floor:	Black Mastic (Shop)	MISC	Assumed	73		108 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		42 ln	
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhle Fissure (Shop)	MISC	2 %	74		108 sq	No
Building: <u>22 - 304-317 Wing</u>		Room: <u>07 - Staff RR - 5 x 5 x 8</u>					
Floor:	Concrete	MISC	Assumed	15		25 sq	No
Baseboard:	Concrete	MISC	Assumed	15		20 ln	No
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11		160 sq	
Ceiling:	Plaster, Orange Peel Texture	SURF	None Detected	11		25 sq	
Building: <u>22 - 304-317 Wing</u>		Room: <u>08 - 311 Office - 15 x 10 x 8</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		150 sq	No
Floor:	Black Mastic (Shop)	MISC	Assumed	73		150 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		58 ln	
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhle Fissure (Shop)	MISC	2 %	74		150 sq	No

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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HMS Project Number: P76317H

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Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>22 - 304-317 Wing</u>		Room: <u>09 - Room 311 - 62 x 48 x 20</u>				
Floor: Concrete	MISC	Assumed	15		2976 sq	No
Walls: Drywall Knockdown Texture (shop) <i>Comment: East wall</i>	MISC	None Detected	72	72B	1100 sq	
Walls: Metal	NON	Non-Suspect				
Walls: Plaster, Stipple Texture <i>Comment: At welding booth</i>	SURF	None Detected	8		440 sq	
Walls: Window Glazing <i>Comment: North and south windows</i>	MISC	None Detected	70			
Ceiling: Plaster, Stipple Texture <i>Comment: At welding booth</i>	SURF	None Detected	8		149 sq	
Ceiling: Spray Fireproofing	SURF	None Detected	69	69E, 69F	595 sq	
Pipes: Hard Elbows <i>Comment: Nw corner multiple connections</i>	TSI	None Detected	37	37C	10 ea	
Building: <u>22 - 304-317 Wing</u>		Room: <u>10 - 311 Storage - 11 x 5 x 8</u>				
Floor: Concrete	MISC	Assumed	15		55 sq	No
Baseboard: Concrete	MISC	Assumed	15		32 ln	No
Walls: Plaster, Stipple Texture	SURF	None Detected	8		256 sq	
Ceiling: Plaster, Stipple Texture	SURF	None Detected	8		55 sq	
Building: <u>22 - 304-317 Wing</u>		Room: <u>11 - 311 Storage 2 - 24 x 10 x 20</u>				
Floor: Concrete	MISC	Assumed	15		240 sq	No
Walls: Metal	NON	Non-Suspect				
Walls: Plaster, Stipple Texture	SURF	None Detected	8		667 sq	
Walls: Window Glazing <i>Comment: south windows</i>	MISC	None Detected	70			
Ceiling: Spray Fireproofing	SURF	None Detected	69		48 sq	
<i>Room Comments: Se corner</i>						
Building: <u>22 - 304-317 Wing</u>		Room: <u>12 - Staff RR 1 - 11 x 11 x 10</u>				
Floor: Concrete	MISC	Assumed	15		121 sq	No
Baseboard: Concrete	MISC	Assumed	15		44 ln	No
Walls: Plaster, Orange Peel Texture	SURF	None Detected	11		440 sq	
Ceiling: 12" ACT Pinhle Fissure (Shop)	MISC	2 %	74	74B	121 sq	No
Ceiling: Plaster, Orange Peel Texture	SURF	None Detected	11		121 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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Site: Selma High School

HMS Project Number: P76317H

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Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>22 - 304-317 Wing</u>		Room: <u>13 - Staff RR 2 - 12 x 6 x 10</u>				
Floor: Concrete	MISC	Assumed	15		121 sq	No
Baseboard: Concrete	MISC	Assumed	15		44 ln	No
Walls: Plaster, Orange Peel Texture	SURF	None Detected	11		440 sq	
Ceiling: 12" ACT Pinhle Fissure (Shop)	MISC	2 %	74		121 sq	No
Ceiling: Plaster, Orange Peel Texture	SURF	None Detected	11		121 sq	
Building: <u>22 - 304-317 Wing</u>		Room: <u>14 - Room 319 - 48 x 48 x 20</u>				
Floor: Concrete	MISC	Assumed	15		2304 sq	No
Baseboard: Brown Baseboard Mastic	MISC	Assumed	75		38 ln	No
<i>Comment: E Wall</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: Spray Fireproofing	SURF	None Detected	69		2304 sq	
Building: <u>22 - 304-317 Wing</u>		Room: <u>15 - 319 Storage 1 - 15 x 8 x 8</u>				
Floor: Concrete	MISC	Assumed	15		120 sq	No
Walls: Wood	NON	Non-Suspect				
Ceiling: Wood	NON	Non-Suspect				
Building: <u>22 - 304-317 Wing</u>		Room: <u>16 - 319 Storage 2 (uniforms) - 27 x 12 x 8</u>				
Floor: Concrete	MISC	Assumed	15		324 sq	No
Walls: Window Glazing	MISC	None Detected	70		31 sq	
<i>Comment: Nw corner</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: Wood	NON	Non-Suspect				
Building: <u>22 - 304-317 Wing</u>		Room: <u>17 - 319 Upstairs Storage - 40 x 15 x 9</u>				
Floor: Wood	NON	Non-Suspect				
Walls: Metal	NON	Non-Suspect				
Walls: Window Glazing	MISC	None Detected	70		99 sq	
<i>Comment: N Side</i>						
Ceiling: Spray Fireproofing	SURF	None Detected	69		600 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>22 - 304-317 Wing</u>		Room: <u>18 - NE Storage - 24 x 10 x 12</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		240 sq	No
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11		816 sq	
Ceiling:	Plaster, Orange Peel Texture	SURF	None Detected	11		240 sq	
<i>Comment: Attic Access</i>							
Building: <u>22 - 304-317 Wing</u>		Room: <u>19 - Office 1 - 12 x 10 x 8</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1	1B	120 sq	No
Floor:	Black Mastic (Shop)	MISC	Assumed	73		120 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		44 ln	
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhle Fissure (Shop)	MISC	2 %	74		120 sq	No
Building: <u>22 - 304-317 Wing</u>		Room: <u>20 - Restroom - 10 x 6 x 9</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		60 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		32 ln	
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11		288 sq	
Ceiling:	Plaster, Orange Peel Texture	SURF	None Detected	11		60 sq	
<i>Room Includes vestibule</i>							
<i>Comments:</i>							
Building: <u>22 - 304-317 Wing</u>		Room: <u>21 - Office 2 - 25 x 20 x 11</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		500 sq	No
Floor:	Black Mastic (Shop)	MISC	Assumed	73		500 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		90 ln	
Walls:	12" ACT Pinhle Fissure (Shop)	MISC	2 %	74		198 sq	No
Walls:	Window Glazing	MISC	None Detected	70		99 sq	
<i>Comment: S wall</i>							
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhle Fissure (Shop)	MISC	2 %	74		500 sq	No
Building: <u>22 - 304-317 Wing</u>		Room: <u>22 - Armory closet - 10 x 6 x 8</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		60 sq	No
Floor:	Black Mastic (Shop)	MISC	Assumed	73		60 sq	No
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11	11G	256 sq	
Ceiling:	Metal	NON	Non-Suspect				
Ceiling:	Plaster, Orange Peel Texture	SURF	None Detected	11		60 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgs Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>22 - 304-317 Wing</u>		Room: <u>23 - Room 317 - 50 x 48 x 15</u>					
Floor:	Concrete	MISC	Assumed	15		2400 sq	No
Walls:	Wood	NON	Non-Suspect				
Ceiling:	Wood	NON	Non-Suspect				
Building: <u>22 - 304-317 Wing</u>		Room: <u>24 - 317 office and vestibule - 11 x 6 x 8</u>					
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		66 sq	No
Baseboard:	Wood	NON	Non-Suspect				
Walls:	Wood	NON	Non-Suspect				
Ceiling:	Wood	NON	Non-Suspect				

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>23 - Ag Classrooms 102, 103</u>		Room: <u>01 - 102 Office - 16 x 12 x 10</u>					
Floor:	9" Vinyl Floor Tile Beige Streaks	MISC	5 %	76	76A	192 sq	No
Floor:	Black Mastic (Shop)	MISC	Assumed	73		192 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Brown	MISC	2 %	39	39A	56 ln	No
Walls:	12" ACT Pinhle Fissure (Shop)	MISC	2 %	74		140 sq	No
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhle Fissure (Shop)	MISC	2 %	74	74C	192 sq	No
Building: <u>23 - Ag Classrooms 102, 103</u>		Room: <u>02 - 102 Staff RR - 9 x 9 x 10</u>					
Floor:	Concrete	MISC	Assumed	15		81 sq	No
Baseboard:	Concrete	MISC	Assumed	15		36 ln	No
Walls:	4" Ceramic Tile, Yellow <i>Comment: At shower</i>	MISC	None Detected	9		72 sq	
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11		360 sq	
Ceiling:	Plaster, Orange Peel Texture	SURF	None Detected	11		81 sq	
Building: <u>23 - Ag Classrooms 102, 103</u>		Room: <u>03 - 102 Welding Shop - 60 x 40 x 20</u>					
Floor:	Concrete	MISC	Assumed	15		2400 sq	No
Walls:	Cement Board <i>Comment: At Welding Booth Partitions</i>	MISC	None Detected	77	77A, 77B	800 sq	
Walls:	Drywall Knockdown Texture <i>Comment: East Wall Upper Portion</i>	MISC	None Detected	50	50A, 50B	1000 sq	
Walls:	Metal	NON	Non-Suspect				
Walls:	Window Glazing <i>Comment: North and South Windows</i>	MISC	None Detected	70	70A, 70D	1000 sq	
Ceiling:	Spray Fireproofing	SURF	None Detected	69	69G	2400 sq	
Building: <u>23 - Ag Classrooms 102, 103</u>		Room: <u>05 - Welding Shop Water Heater Closet - 4 x 4 x 10</u>					
Floor:	Concrete	MISC	Assumed	15		16 sq	No
Walls:	Plaster, Stipple Texture	SURF	None Detected	8		160 sq	
Ceiling:	Plaster, Stipple Texture	SURF	None Detected	8		16 sq	
Pipes:	Transite Flue Pipe <i>Comment: Visible from attic space</i>	MISC	Known	900		20 ln	No

Functional Space Notes

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Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>23 - Ag Classrooms 102, 103</u>		Room: <u>06 - Student Restroom - 10 x 10 x 10</u>					
Floor:	Concrete	MISC	Assumed	15		100 sq	No
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11		400 sq	
Ceiling:	Plaster, Orange Peel Texture	SURF	None Detected	11	11A	100 sq	
<i>Room Comments:</i>	<i>At welding shop</i>						
Building: <u>23 - Ag Classrooms 102, 103</u>		Room: <u>08 - 102 Classroom - 34 x 25 x 9</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		850 sq	No
Floor:	Black Mastic (Shop)	MISC	Assumed	73		850 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		118 ln	
Walls:	Tackboard and Glue, Off White	MISC	None Detected	4		1062 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		850 sq	

Functional Space Notes

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Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>24 - Classrooms FCOE 1 & 2</u>		Room: <u>01 - Classroom FCOE 2 - 40 x 23 x 11</u>				
Floor:	Carpet and Mastic, Brown Multi	MISC	None Detected	78 78A	920 sq	
Baseboard:	4" Vinyl Baseboard and Mastic, Grey	MISC	None Detected	24	126 ln	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	1386 sq	
Ceiling:	Fiberglass	NON	Non-Suspect			
Building: <u>24 - Classrooms FCOE 1 & 2</u>		Room: <u>02 - Classroom FCOE 1 - 40 x 25 x 10</u>				
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3	500 sq	No
Floor:	VSF and Glue Grey Pebble w/ Backing	MISC	None Detected	79 79B	500 sq	
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	130 ln	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25 25C	1300 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58	1000 sq	Yes
Sink:	Sink Coating White	MISC	None Detected	80 80A	1 ea	
Building: <u>24 - Classrooms FCOE 1 & 2</u>		Room: <u>02 - FCOE 1 Office - 12 x 9 x 10</u>				
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3	108 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	42 ln	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	378 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58	108 sq	Yes
Building: <u>24 - Classrooms FCOE 1 & 2</u>		Room: <u>04 - FCOE 1 RR - 13 x 8 x 10</u>				
Floor:	VSF and Glue Grey Pebble w/ Backing	MISC	None Detected	79	104 sq	
Baseboard:	VSF and Glue Grey Pebble w/ Backing	MISC	None Detected	79 79A	42 ln	
	<i>Comment: Coved</i>					
Walls:	FRP and Glue, Off-White	MISC	None Detected	19	420 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58	104 sq	Yes

Functional Space Notes

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Materials		Material Class	Percent Asbestos	Hmgn's Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>25 - Classroom Wing 2200 - 2209</u>		Room: <u>01 - Room 2208 - 30 x 28 x 9</u>					
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Building: <u>25 - Classroom Wing 2200 - 2209</u>		Room: <u>02 - Room 2206 - 30 x 28 x 9</u>					
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Building: <u>25 - Classroom Wing 2200 - 2209</u>		Room: <u>03 - Room 2204 - 30 x 28 x 9</u>					
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Building: <u>25 - Classroom Wing 2200 - 2209</u>		Room: <u>04 - Room 2202 - 30 x 28 x 9</u>					
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Building: <u>25 - Classroom Wing 2200 - 2209</u>		Room: <u>05 - Room 2200 - 30 x 28 x 9</u>					
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	

Functional Space Notes

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HMS Project Number: P76317H

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Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>25 - Classroom Wing 2200 - 2209</u>		Room: <u>06 - Room 2201 - 30 x 28 x 9</u>					
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Building: <u>25 - Classroom Wing 2200 - 2209</u>		Room: <u>07 - Room 2203 - 30 x 28 x 9</u>					
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Building: <u>25 - Classroom Wing 2200 - 2209</u>		Room: <u>08 - Room 2205 - 30 x 28 x 9</u>					
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Building: <u>25 - Classroom Wing 2200 - 2209</u>		Room: <u>09 - Room 2207 - 30 x 28 x 9</u>					
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Building: <u>25 - Classroom Wing 2200 - 2209</u>		Room: <u>10 - Room 2209 - 30 x 28 x 9</u>					
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>26 - Classroom Wing 2301-2310</u>		Room: <u>01 - Room 2302 - 45 x 25 x 9</u>					
Floor:	Carpet and Mastic, Blue Multi	MISC	None Detected	34		1125 sq	
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		140 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1260 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1260 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58		1125 sq	Yes
Building: <u>26 - Classroom Wing 2301-2310</u>		Room: <u>02 - Room 2302 Office - 10 x 10 x 9</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		100 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		12 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		112 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		112 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58		100 sq	Yes
Building: <u>26 - Classroom Wing 2301-2310</u>		Room: <u>03 - Room 2306 - 45 x 25 x 9</u>					
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		1125 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		140 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1260 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1260 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58		1125 sq	Yes
Building: <u>26 - Classroom Wing 2301-2310</u>		Room: <u>03 - Room 2310 - 30 x 30 x 9</u>					
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		900 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		112 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1008 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1008 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		900 sq	
Building: <u>26 - Classroom Wing 2301-2310</u>		Room: <u>04 - Room 2309 - 30 x 30 x 9</u>					
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		900 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		112 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1008 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1008 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		900 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>26 - Classroom Wing 2301-2310</u>		Room: <u>05 - Room 2307 - 30 x 30 x 9</u>				
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3	900 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2	112 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57	1008 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	1008 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48	900 sq	
Building: <u>26 - Classroom Wing 2301-2310</u>		Room: <u>06 - Room 2305 - 30 x 30 x 9</u>				
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3	900 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2	112 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57	1008 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	1008 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48	900 sq	
Building: <u>26 - Classroom Wing 2301-2310</u>		Room: <u>07 - Room 2303 - 30 x 30 x 9</u>				
Floor:	Carpet and Mastic, Blue Multi	MISC	None Detected	34	900 sq	
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2	112 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57	1008 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	1008 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58	900 sq	Yes
Building: <u>26 - Classroom Wing 2301-2310</u>		Room: <u>08 - Room 2301 - 30 x 30 x 9</u>				
Floor:	Carpet and Mastic, Blue Multi	MISC	None Detected	34	900 sq	
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2	112 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57	1008 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	1008 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58	900 sq	Yes

FHAst Track Homogeneous Materials Record Report



Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

FACS Project Number: P76317H

Date of Inspection: 8/11/2023

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Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 01 - Admin

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	01 - Reception - Floor	5 %	170 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	04 - Hallway - Floor	5 %	250 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	10 - Custodial Closet - Floor	5 %	24 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	16 - Open Office - Floor	5 %	380 Square	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	01 - Reception - Baseboard	None Detected	74 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	02 - Principal's Office Contains Vestibule - Baseboard	None Detected	52 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	04 - Hallway - Baseboard	None Detected	110 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	05 - Admin Assistant Office - Baseboard	None Detected	45 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	06 - ASB Clerk Office - Baseboard	None Detected	45 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	07 - Registrar Office - Baseboard	None Detected	56 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	09 - Attendance Office - Baseboard	None Detected	30 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	10 - Custodial Closet - Baseboard	None Detected	20 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	12 - TOSA Office - Baseboard	None Detected	30 Linear	No



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Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	13 - Deputy Principal Office 1 - Baseboard	None Detected	48 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	14 - Deputy Principal Office 2 - Baseboard	None Detected	45 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	15 - Assistant Principal - Baseboard	None Detected	30 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	16 - Open Office - Baseboard	None Detected	118 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	17 - South Vestibule - Baseboard	None Detected	43 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	18 - NE Office At south vestibule - Baseboard	None Detected	28 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	19 - SE Office At south vestibule - Baseboard	None Detected	37 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	21 - SW Office At south vestibule - Baseboard	None Detected	34 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	23 - NW Office - Baseboard	None Detected	25 Linear	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	01 - Reception - Floor	3 %	170 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	02 - Principal's Office Contains Vestibule - Floor	3 %	168 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	05 - Admin Assistant Office - Floor	3 %	144 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

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Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	06 - ASB Clerk Office - Floor	3 %	144 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	07 - Registrar Office - Floor	3 %	180 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	09 - Attendance Office - Floor	3 %	96 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	12 - TOSA Office - Floor	3 %	96 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	13 - Deputy Principal Office 1 - Floor	3 %	156 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	14 - Deputy Principal Office 2 - Floor	3 %	144 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	15 - Assistant Principal - Floor	3 %	96 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	16 - Open Office - Floor	3 %	380 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	17 - South Vestibule - Floor	3 %	140 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	18 - NE Office At south vestibule - Floor	3 %	90 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	19 - SE Office At south vestibule - Floor	3 %	120 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	21 - SW Office At south vestibule - Floor	3 %	110 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	23 - NW Office - Floor	3 %	80 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

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Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Tackboard and Glue, Off White	MISC	4	PJ76317H-4A, 4B	01 - Reception - Walls	None Detected	740 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	01 - Reception - Ceiling	2 %	340 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	02 - Principal's Office Contains Vestibule - Walls/Ceiling Upper 2ft	2 %	272 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	03 - Principal's Restroom - Ceiling	2 %	25 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	04 - Hallway - Ceiling	2 %	250 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	05 - Admin Assistant Office - Walls/Ceiling Upper 2ft	2 %	233 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	06 - ASB Clerk Office - Walls/Ceiling Upper 2ft	2 %	233 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	07 - Registrar Office - Walls/Ceiling Upper 2ft	2 %	291 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	08 - Men's Restroom - Ceiling	2 %	91 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	09 - Attendance Office - Walls/Ceiling Upper 2ft	2 %	155 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	11 - Women's Restroom - Ceiling	2 %	91 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	12 - TOSA Office - Walls/Ceiling Upper 2ft	2 %	155 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

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Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	13 - Deputy Principal Office 1 - Walls/Ceiling Upper 2ft	2 %	253 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	14 - Deputy Principal Office 2 - Walls/Ceiling Upper 2ft	2 %	233 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	15 - Assistant Principal - Walls/Ceiling Upper 2ft	2 %	155 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	16 - Open Office - Walls/Ceiling Upper 2ft	2 %	996 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	17 - South Vestibule - Walls/Ceiling Upper 2ft	2 %	227 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	18 - NE Office At south vestibule - Walls/Ceiling Upper 2ft	2 %	146 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	19 - SE Office At south vestibule - Walls/Ceiling Upper 2ft	2 %	194 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	20 - South Vestibule Restroom 1 At SE Office - Ceiling	2 %	20 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	21 - SW Office At south vestibule - Walls/Ceiling Upper 2ft	2 %	178 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

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Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	22 - South Vestibule Restroom 2 At SW Office - Ceiling	2 %	20 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	23 - NW Office - Walls/Ceiling Upper 2ft	2 %	130 Square	No
Black Mastic (Admin)	MISC	6	PJ76317H-6A	02 - Principal's Office Contains Vestibule - Floor	5 %	168 Square	No
Black Mastic (Admin)	MISC	6	PJ76317H-6A	05 - Admin Assistant Office - Floor	5 %	144 Square	No
Black Mastic (Admin)	MISC	6	PJ76317H-6A	06 - ASB Clerk Office - Floor	5 %	144 Square	No
Black Mastic (Admin)	MISC	6	PJ76317H-6A	07 - Registrar Office - Floor	5 %	180 Square	No
Black Mastic (Admin)	MISC	6	PJ76317H-6A	09 - Attendance Office - Floor	5 %	96 Square	No
Black Mastic (Admin)	MISC	6	PJ76317H-6A	12 - TOSA Office - Floor	5 %	96 Square	No
Black Mastic (Admin)	MISC	6	PJ76317H-6A	13 - Deputy Principal Office 1 - Floor	5 %	156 Square	No
Black Mastic (Admin)	MISC	6	PJ76317H-6A	14 - Deputy Principal Office 2 - Floor	5 %	144 Square	No
Black Mastic (Admin)	MISC	6	PJ76317H-6A	15 - Assistant Principal - Floor	5 %	96 Square	No
Black Mastic (Admin)	MISC	6	PJ76317H-6A	17 - South Vestibule - Floor	5 %	140 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

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Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Black Mastic (Admin)	MISC	6	PJ76317H-6A	18 - NE Office At south vestibule - Floor	5 %	90 Square	No
Black Mastic (Admin)	MISC	6	PJ76317H-6A	19 - SE Office At south vestibule - Floor	5 %	120 Square	No
Black Mastic (Admin)	MISC	6	PJ76317H-6A	21 - SW Office At south vestibule - Floor	5 %	110 Square	No
Black Mastic (Admin)	MISC	6	PJ76317H-6A	23 - NW Office - Floor	5 %	80 Square	No
1" Blue Ceramic Tile Mosaic	MISC	7	PJ76317H-7A	03 - Principal's Restroom - Floor	None Detected	25 Square	No
1" Blue Ceramic Tile Mosaic	MISC	7	PJ76317H-7A	20 - South Vestibule Restroom 1 At SE Office - Floor	None Detected	20 Square	No
1" Blue Ceramic Tile Mosaic	MISC	7	PJ76317H-7A	22 - South Vestibule Restroom 2 At SW Office - Floor	None Detected	20 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H-8A, 8B, 8C, 8D, 8E, 8F, 8G	03 - Principal's Restroom - Walls	None Detected	200 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H-8A, 8B, 8C, 8D, 8E, 8F, 8G	10 - Custodial Closet - Walls	None Detected	240 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H-8A, 8B, 8C, 8D, 8E, 8F, 8G	20 - South Vestibule Restroom 1 At SE Office - Walls	None Detected	160 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

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Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	22 - South Vestibule Restroom 2 At SW Office - Walls	None Detected	160 Square	No
4" Ceramic Tile, Yellow	MISC	9	PJ76317H- 9A	03 - Principal's Restroom - Walls	None Detected	100 Square	No
4" Ceramic Tile, Yellow	MISC	9	PJ76317H- 9A	08 - Men's Restroom - Walls	None Detected	200 Square	No
4" Ceramic Tile, Yellow	MISC	9	PJ76317H- 9A	20 - South Vestibule Restroom 1 At SE Office - Walls	None Detected	80 Square	No
4" Ceramic Tile, Yellow	MISC	9	PJ76317H- 9A	22 - South Vestibule Restroom 2 At SW Office - Walls	None Detected	80 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	08 - Men's Restroom - Floor	None Detected	91 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	11 - Women's Restroom - Floor	None Detected	91 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	08 - Men's Restroom - Walls	None Detected	400 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	11 - Women's Restroom - Walls	None Detected	400 Square	No
Pipe Insulation	TSI	12	NOT SAMPLED	10 - Custodial Closet - Pipes At Ceiling, assumed elbows	Assumed	1 Each	No
4" Ceramic Tile, Pink	MISC	13	PJ76317H- 13A	11 - Women's Restroom - Walls	None Detected	200 Square	No
9" Vinyl Floor Tile, Grey w/ Yellow	MISC	14	PJ76317H- 14A	24 - Safe - Floor	5 %	110 Square	No



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Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Concrete	MISC	15	NOT SAMPLED	24 - Safe - Walls/Ceiling	Assumed	488 Square	No
Hard Elbows	TSI	37	PJ76317H- 37A, 37B, 37C, 37D	04 - Hallway - Pipes Two hard elbows visible in plenum, no access	None Detected	2 Each	No
Wood	NON	0	NOT SAMPLED	Various Locations	Non-Suspect		



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 02 - Cafeteria

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	03 - Break Room - Floor	5 %	625 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	04 - Restroom Vestibule - Floor	5 %	48 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	07 - Cold Storage Hallway - Floor	5 %	125 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	08 - Dry Storage - Floor	5 %	144 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	09 - Kitchen N Hallway - Floor	5 %	76 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	10 - Staff Locker Room - Floor	5 %	60 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	11 - Office - Floor	5 %	255 Square	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	01 - Cafeteria Space - Baseboard	None Detected	364 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	03 - Break Room - Baseboard	None Detected	100 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	04 - Restroom Vestibule - Baseboard	None Detected	32 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	07 - Cold Storage Hallway - Baseboard	None Detected	60 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	08 - Dry Storage - Baseboard	None Detected	69 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	09 - Kitchen N Hallway - Baseboard	None Detected	36 Linear	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 02 - Cafeteria

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	10 - Staff Locker Room - Baseboard	None Detected	28 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	11 - Office - Baseboard	None Detected	41 Linear	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	03 - Break Room - Ceiling	None Detected	625 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	08 - Dry Storage - Walls/Ceiling	None Detected	766 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	11 - Office - Ceiling	None Detected	255 Square	No
4" Ceramic Tile, Yellow	MISC	9	PJ76317H- 9A	05 - Men's Restroom - Baseboard	None Detected	26 Linear	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	05 - Men's Restroom - Floor	None Detected	40 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	06 - Women's Restroom - Floor	None Detected	40 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	12 - Cafeteria Men's RR - Floor	None Detected	117 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	13 - Cafeteria Women's RR - Floor	None Detected	117 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	02 - Kitchen - Ceiling	None Detected	1125 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	04 - Restroom Vestibule - Walls	None Detected	288 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	05 - Men's Restroom - Walls	None Detected	234 Square	No



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Building: 02 - Cafeteria

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Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	06 - Women's Restroom - Walls	None Detected	234 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	07 - Cold Storage Hallway - Ceiling	None Detected	125 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	09 - Kitchen N Hallway - Walls/Ceiling	None Detected	404 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	10 - Staff Locker Room - Walls/Ceiling	None Detected	319 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	12 - Cafeteria Men's RR - Ceiling	None Detected	117 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	13 - Cafeteria Women's RR - Ceiling	None Detected	117 Square	No
4" Ceramic Tile, Pink	MISC	13	PJ76317H- 13A	06 - Women's Restroom - Baseboard	None Detected	26 Linear	No
12" Vinyl Floor Tile, Grey Oatmeal (Caf	MISC	16	NOT SAMPLED	01 - Cafeteria Space - Floor	Assumed	7440 Square	No
12" ACT Pinhle Fissure (Cafeteria)	MISC	17	PJ76317H- 17A, 17B, 17C	01 - Cafeteria Space - Walls/Ceiling	2 %	4448 Square	No
12" ACT Pinhle Fissure (Cafeteria)	MISC	17	PJ76317H- 17A, 17B, 17C	03 - Break Room - Walls/Ceiling	2 %	845 Square	No
12" ACT Pinhle Fissure (Cafeteria)	MISC	17	PJ76317H- 17A, 17B, 17C	04 - Restroom Vestibule - Ceiling	2 %	48 Square	No
12" ACT Pinhle Fissure (Cafeteria)	MISC	17	PJ76317H- 17A, 17B, 17C	05 - Men's Restroom - Ceiling	2 %	40 Square	No
12" ACT Pinhle Fissure (Cafeteria)	MISC	17	PJ76317H- 17A, 17B, 17C	06 - Women's Restroom - Ceiling	2 %	40 Square	No



Forensic Analytical Consulting Services

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Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" ACT Pinhle Fissure (Cafeteria)	MISC	17	PJ76317H- 17A, 17B, 17C	11 - Office - Walls/Ceiling	2 %	345 Square	No
6" Ceramic Tile, Light Brown	MISC	18	PJ76317H- 18A, 18B	02 - Kitchen - Floor/Baseboard	None Detected	1265 Square	No
FRP and Glue, Off-White	MISC	19	PJ76317H- 19A, 19B, 19C	02 - Kitchen - Walls	None Detected	1400 Square	No
FRP and Glue, Off-White	MISC	19	PJ76317H- 19A, 19B, 19C	07 - Cold Storage Hallway - Walls	None Detected	540 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	02 - Kitchen - Ceiling	Known	338 Square	No
Black Mastic (Cafeteria)	MISC	22	NOT SAMPLED	01 - Cafeteria Space - Floor	Assumed	7440 Square	No
Black Mastic (Cafeteria)	MISC	22	NOT SAMPLED	03 - Break Room - Floor	Assumed	625 Square	No
Black Mastic (Cafeteria)	MISC	22	NOT SAMPLED	04 - Restroom Vestibule - Floor	Assumed	48 Square	No
Black Mastic (Cafeteria)	MISC	22	NOT SAMPLED	07 - Cold Storage Hallway - Floor	Assumed	125 Square	No
Black Mastic (Cafeteria)	MISC	22	NOT SAMPLED	08 - Dry Storage - Floor	Assumed	144 Square	No
Black Mastic (Cafeteria)	MISC	22	NOT SAMPLED	09 - Kitchen N Hallway - Floor	Assumed	76 Square	No
Black Mastic (Cafeteria)	MISC	22	NOT SAMPLED	10 - Staff Locker Room - Floor	Assumed	60 Square	No
Black Mastic (Cafeteria)	MISC	22	NOT SAMPLED	11 - Office - Floor	Assumed	255 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	12 - Cafeteria Men's RR - Walls	None Detected	396 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 02 - Cafeteria

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	13 - Cafeteria Women's RR - Walls	None Detected	396 Square	No
Wood	NON	0	NOT SAMPLED	Various Locations	Non-Suspect		



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 03 - Dining Hall

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Concrete	MISC	15	NOT SAMPLED	01- Dining Hall Area - Floor	Assumed	4400 Square	No
Concrete	MISC	15	NOT SAMPLED	02 - Hallway - Floor	Assumed	252 Square	No
Concrete	MISC	15	NOT SAMPLED	03 - Eastern Storage - Floor	Assumed	225 Square	No
Concrete	MISC	15	NOT SAMPLED	04 - Western Storage - Floor	Assumed	225 Square	No
Concrete	MISC	15	NOT SAMPLED	06 - Custodial Roof Access - Floor	Assumed	45 Square	No
FRP and Glue, Off-White	MISC	19	PJ76317H- 19A, 19B, 19C	06 - Custodial Roof Access - Walls Nw corner	None Detected	22 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	05 - Women's RR - Walls	None Detected	540 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	07 - Men's Restroom - Walls	None Detected	540 Square	No
4" Vinyl Baseboard and Mastic, Grey	MISC	24	PJ76317H- 24A, 24B, 24C	01- Dining Hall Area - Baseboard	None Detected	270 Linear	No
4" Vinyl Baseboard and Mastic, Grey	MISC	24	PJ76317H- 24A, 24B, 24C	02 - Hallway - Baseboard/Walls	None Detected	740 Linear	No
4" Vinyl Baseboard and Mastic, Grey	MISC	24	PJ76317H- 24A, 24B, 24C	03 - Eastern Storage - Baseboard	None Detected	60 Linear	No
4" Vinyl Baseboard and Mastic, Grey	MISC	24	PJ76317H- 24A, 24B, 24C	04 - Western Storage - Baseboard	None Detected	60 Linear	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 03 - Dining Hall

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
4" Vinyl Baseboard and Mastic, Grey	MISC	24	PJ76317H- 24A, 24B, 24C	06 - Custodial Roof Access - Baseboard	None Detected	28 Linear	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	01- Dining Hall Area - Walls	None Detected	5400 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	01- Dining Hall Area - Walls North and South Upper Walls	None Detected	810 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	02 - Hallway - Ceiling	None Detected	252 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	03 - Eastern Storage - Walls	None Detected	540 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	04 - Western Storage - Walls	None Detected	540 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	05 - Women's RR - Ceiling	None Detected	225 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	06 - Custodial Roof Access - Walls	None Detected	224 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	07 - Men's Restroom - Ceiling	None Detected	225 Square	No
12" ACT Small Pinhole	MISC	27	PJ76317H- 27A, 27B, 27C	02 - Hallway - Ceiling	2 %	202 Square	No
6" Ceramic Tile, Grey	MISC	28	NOT SAMPLED	05 - Women's RR - Floor	Assumed	225 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

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Site: Selma High School

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Building: 03 - Dining Hall

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Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
6" Ceramic Tile, Grey	MISC	28	NOT SAMPLED	07 - Men's Restroom - Floor	Assumed	225 Square	No
Brick & Mortar	MISC	29	PJ76317H- 29A	01- Dining Hall Area - Walls At Columns	None Detected	540 Square	No
Fiberglass	NON	0	NOT SAMPLED	Various Locations	Non-Suspect		
Metal	NON	0	NOT SAMPLED	01- Dining Hall Area - Ceiling	Non-Suspect	4400 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 04 - Band

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	01 - Classroom 1903 - Floor	5 %	2520 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	04 - Office (1903) - Floor	5 %	108 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	05 - Storage 1 (1903) - Floor	5 %	108 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	06 - Storage 2 (1903) - Floor	5 %	108 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	07- Storage 3 (1903) Contains Lockers - Floor	5 %	200 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	08 - Uniform Storage (1903) - Floor	5 %	165 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	14 - Classroom 1904 - Floor	5 %	1122 Square	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	01 - Classroom 1903 - Baseboard	None Detected	204 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	04 - Office (1903) - Baseboard	None Detected	42 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	05 - Storage 1 (1903) - Baseboard	None Detected	42 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	08 - Uniform Storage (1903) - Baseboard	None Detected	52 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	09 - NW Storage (1903) - Baseboard	None Detected	30 Linear	No



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Homogeneous Material Records

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Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 04 - Band

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	10 - N Side, Center Storage(1903) - Baseboard	None Detected	30 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	11 - NE Storage (1903) - Baseboard	None Detected	65 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	13 - Classroom Hallway - Baseboard	None Detected	34 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	14 - Classroom 1904 - Baseboard	None Detected	134 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	15 - NW Office (1904) - Baseboard	None Detected	38 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	17 - NE Storage (1904) Attic Access - Baseboard	None Detected	38 Linear	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	02 - Restroom (1903) At Main Entry - Walls	None Detected	256 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	03 - Custodial (1903) - Walls/Ceiling	None Detected	164 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	06 - Storage 2 (1903) - Walls	None Detected	336 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	07- Storage 3 (1903) Contains Lockers - Walls	None Detected	622 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	08 - Uniform Storage (1903) - Walls	None Detected	513 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	12 - Ext Chiller Room - Walls/Ceiling	None Detected	750 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	14 - Classroom 1904 - Ceiling	None Detected	1122 Square	No



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Homogeneous Material Records

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Site: Selma High School

Project #: P76317H

Building: 04 - Band

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	17 - NE Storage (1904) Attic Access - Walls/Ceiling	None Detected	430 Square	No
4" Ceramic Tile, Yellow	MISC	9	PJ76317H- 9A	02 - Restroom (1903) At Main Entry - Baseboard	None Detected	32 Linear	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	02 - Restroom (1903) At Main Entry - Floor	None Detected	64 Square	No
Concrete	MISC	15	NOT SAMPLED	03 - Custodial (1903) - Floor/Baseboard	Assumed	38 Square	No
Concrete	MISC	15	NOT SAMPLED	12 - Ext Chiller Room - Floor/Baseboard	Assumed	200 Square	No
12" ACT Pinhole Uniform	MISC	30	PJ76317H- 30A, 30B	01 - Classroom 1903 - Walls/Ceiling	2 %	3662 Square	No
12" ACT Pinhole Uniform	MISC	30	PJ76317H- 30A, 30B	09 - NW Storage (1903) - Ceiling	2 %	54 Square	No
12" ACT Pinhole Uniform	MISC	30	PJ76317H- 30A, 30B	10 - N Side, Center Storage(1903) - Ceiling	2 %	54 Square	No
12" ACT Pinhole Uniform	MISC	30	PJ76317H- 30A, 30B	11 - NE Storage (1903) - Ceiling	2 %	117 Square	No
12" ACT Pinhole Uniform	MISC	30	PJ76317H- 30A, 30B	13 - Classroom Hallway - Walls/Ceiling	2 %	97 Square	No
12" ACT Pinhole Uniform	MISC	30	PJ76317H- 30A, 30B	14 - Classroom 1904 - Walls/Ceiling Upper portion	2 %	1872 Square	No
12" ACT Pinhole Fissure (band)	MISC	31	PJ76317H- 31A, 31B	02 - Restroom (1903) At Main Entry - Ceiling	None Detected	64 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

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Site: Selma High School

Project #: P76317H

Building: 04 - Band

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" ACT Pinhole Fissure (band)	MISC	31	PJ76317H- 31A, 31B	04 - Office (1903) - Walls/Ceiling Upper 1ft	None Detected	142 Square	No
12" ACT Pinhole Fissure (band)	MISC	31	PJ76317H- 31A, 31B	05 - Storage 1 (1903) - Walls/Ceiling Upper 1ft	None Detected	142 Square	No
12" ACT Pinhole Fissure (band)	MISC	31	PJ76317H- 31A, 31B	06 - Storage 2 (1903) - Ceiling	None Detected	108 Square	No
12" ACT Pinhole Fissure (band)	MISC	31	PJ76317H- 31A, 31B	07- Storage 3 (1903) Contains Lockers - Ceiling	None Detected	200 Square	No
12" ACT Pinhole Fissure (band)	MISC	31	PJ76317H- 31A, 31B	08 - Uniform Storage (1903) - Ceiling	None Detected	165 Square	No
12" ACT Pinhole Fissure (band)	MISC	31	PJ76317H- 31A, 31B	15 - NW Office (1904) - Walls/Ceiling Upper 2 ft	None Detected	156 Square	No
12" ACT Pinhole Fissure (band)	MISC	31	PJ76317H- 31A, 31B	16 - Center Office (1904) - Walls/Ceiling Upper 2 ft	None Detected	156 Square	No
Black Mastic (Band)	MISC	32	NOT SAMPLED	01 - Classroom 1903 - Floor	Assumed	2520 Square	No
Black Mastic (Band)	MISC	32	NOT SAMPLED	04 - Office (1903) - Floor	Assumed	108 Square	No
Black Mastic (Band)	MISC	32	NOT SAMPLED	05 - Storage 1 (1903) - Floor	Assumed	108 Square	No
Black Mastic (Band)	MISC	32	NOT SAMPLED	06 - Storage 2 (1903) - Floor	Assumed	108 Square	No
Black Mastic (Band)	MISC	32	NOT SAMPLED	07- Storage 3 (1903) Contains Lockers - Floor	Assumed	200 Square	No



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Site: Selma High School

Project #: P76317H

Building: 04 - Band

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Black Mastic (Band)	MISC	32	NOT SAMPLED	08 - Uniform Storage (1903) - Floor	Assumed	165 Square	No
Black Mastic (Band)	MISC	32	NOT SAMPLED	09 - NW Storage (1903) - Floor	Assumed	54 Square	No
Black Mastic (Band)	MISC	32	NOT SAMPLED	10 - N Side, Center Storage(1903) - Floor	Assumed	54 Square	No
Black Mastic (Band)	MISC	32	NOT SAMPLED	11 - NE Storage (1903) - Floor	Assumed	117 Square	No
Black Mastic (Band)	MISC	32	NOT SAMPLED	13 - Classroom Hallway - Floor	Assumed	66 Square	No
Black Mastic (Band)	MISC	32	NOT SAMPLED	14 - Classroom 1904 - Floor	Assumed	1122 Square	No
Black Mastic (Band)	MISC	32	NOT SAMPLED	15 - NW Office (1904) - Floor	Assumed	88 Square	No
Black Mastic (Band)	MISC	32	NOT SAMPLED	16 - Center Office (1904) - Floor	Assumed	88 Square	No
Black Mastic (Band)	MISC	32	NOT SAMPLED	17 - NE Storage (1904) Attic Access - Floor	Assumed	88 Square	No
12" Vinyl Floor Tile Grey Streaks	MISC	33	PJ76317H- 33A, 33B, 33C	09 - NW Storage (1903) - Floor	None Detected	54 Square	No
12" Vinyl Floor Tile Grey Streaks	MISC	33	PJ76317H- 33A, 33B, 33C	10 - N Side, Center Storage(1903) - Floor	None Detected	54 Square	No
12" Vinyl Floor Tile Grey Streaks	MISC	33	PJ76317H- 33A, 33B, 33C	11 - NE Storage (1903) - Floor	None Detected	117 Square	No
Carpet and Mastic, Blue Multi	MISC	34	PJ76317H- 34A	09 - NW Storage (1903) - Walls Upper four feet	None Detected	135 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 04 - Band

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Carpet and Mastic, Blue Multi	MISC	34	PJ76317H-34A	10 - N Side, Center Storage(1903) - Walls Upper four feet	None Detected	135 Square	No
Carpet and Mastic, Blue Multi	MISC	34	PJ76317H-34A	11 - NE Storage (1903) - Walls Upper four feet	None Detected	293 Square	No
Fiberglass Pipe Insulation w/ Canvas Wra	TSI	35	PJ76317H-35A, 35B, 35C, 35D, 35E	12 - Ext Chiller Room - Pipes	None Detected	2 Each	No
3" Pre-Formed Block Insulation	TSI	36	PJ76317H-36A	12 - Ext Chiller Room - Pipes	None Detected	2 Each	No
Hard Elbows	TSI	37	PJ76317H-37A, 37B, 37C, 37D	12 - Ext Chiller Room - Pipes	None Detected	3 Each	No
12" Vinyl Floor Tile Off-White Oatmeal	MISC	38	PJ76317H-38A, 38B, 38C, 38D	13 - Classroom Hallway - Floor	5 %	66 Square	No
12" Vinyl Floor Tile Off-White Oatmeal	MISC	38	PJ76317H-38A, 38B, 38C, 38D	15 - NW Office (1904) - Floor	5 %	88 Square	No
12" Vinyl Floor Tile Off-White Oatmeal	MISC	38	PJ76317H-38A, 38B, 38C, 38D	16 - Center Office (1904) - Floor	5 %	88 Square	No
12" Vinyl Floor Tile Off-White Oatmeal	MISC	38	PJ76317H-38A, 38B, 38C, 38D	17 - NE Storage (1904) Attic Access - Floor	5 %	88 Square	No
4" Vinyl Baseboard and Mastic, Brown	MISC	39	PJ76317H-39A, 39B, 39C	16 - Center Office (1904) - Baseboard	2 %	38 Linear	No
Wood	NON	0	NOT SAMPLED	Various Locations	Non-Suspect		



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 05 - Pool House

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Concrete	MISC	15	NOT SAMPLED	01 - Office 1 - Floor	Assumed	160 Square	No
Concrete	MISC	15	NOT SAMPLED	02 - Office 2 - Floor	Assumed	160 Square	No
Concrete	MISC	15	NOT SAMPLED	03 - Pool Equipment Roof Access - Floor	Assumed	836 Square	No
CMU	MISC	40	PJ76317H- 40A, 40B, 40C	01 - Office 1 - Walls	None Detected	252 Square	No
CMU	MISC	40	PJ76317H- 40A, 40B, 40C	02 - Office 2 - Walls	None Detected	252 Square	No
CMU	MISC	40	PJ76317H- 40A, 40B, 40C	03 - Pool Equipment Roof Access - Walls	None Detected	1320 Square	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	01 - Office 1 - Walls S wall	None Detected	252 Square	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	02 - Office 2 - Walls N wall	None Detected	252 Square	No
Fiberglass	NON	0	NOT SAMPLED	03 - Pool Equipment Roof Access - Ceiling	Non-Suspect	836 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 06 - Snack Bar

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	02 - Girl's RR - Floor/Baseboard	None Detected	598 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	03 - Boy's RR - Floor/Baseboard	None Detected	598 Square	No
Concrete	MISC	15	NOT SAMPLED	01 - Snack Bar - Floor	Assumed	440 Square	No
6" Ceramic Tile, Light Brown	MISC	18	PJ76317H- 18A, 18B	01 - Snack Bar - Baseboard	None Detected	126 Linear	No
FRP and Glue, Off-White	MISC	19	PJ76317H- 19A, 19B, 19C	01 - Snack Bar - Walls	None Detected	1260 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	02 - Girl's RR - Walls	None Detected	1060 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	03 - Boy's RR - Walls	None Detected	1060 Square	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	01 - Snack Bar - Ceiling	None Detected	440 Square	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	02 - Girl's RR - Ceiling	None Detected	492 Square	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	03 - Boy's RR - Ceiling	None Detected	492 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 07 - Boy's Locker Room (1719)

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	08 - Coaches Office - Floor	5 %	143 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	10 - Coaches Office 2 - Floor	5 %	88 Square	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	07 - Helmet Storage - Baseboard	None Detected	54 Linear	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	01 - Locker Room - Walls	None Detected	2910 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	02 - Restroom - Walls	None Detected	960 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	03 - Custodial - Walls/Ceiling	None Detected	275 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	04 - NE Locker Room Alcove - Walls	None Detected	754 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	05 - NW Locker Room Alcove - Walls	None Detected	1148 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	06 - Foyer - Walls	None Detected	288 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	07 - Helmet Storage - Walls	None Detected	756 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	08 - Coaches Office - Walls	None Detected	384 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	09 - Coaches RR - Walls	None Detected	384 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	10 - Coaches Office 2 - Walls	None Detected	236 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	12 - Storage - Walls	None Detected	256 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 07 - Boy's Locker Room (1719)

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	13 - Exterior Boiler Room - Walls/Ceiling	None Detected	654 Square	No
4" Ceramic Tile, Yellow	MISC	9	PJ76317H- 9A	01 - Locker Room - Walls At Shower	None Detected	582 Square	No
4" Ceramic Tile, Yellow	MISC	9	PJ76317H- 9A	02 - Restroom - Walls	None Detected	480 Square	No
4" Ceramic Tile, Yellow	MISC	9	PJ76317H- 9A	09 - Coaches RR - Walls	None Detected	192 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	01 - Locker Room - Floor A Shower	None Detected	231 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	02 - Restroom - Floor	None Detected	380 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	09 - Coaches RR - Floor	None Detected	144 Square	No
Concrete	MISC	15	NOT SAMPLED	01 - Locker Room - Floor/Baseboard	Assumed	2504 Square	No
Concrete	MISC	15	NOT SAMPLED	03 - Custodial - Floor/Baseboard	Assumed	59 Square	No
Concrete	MISC	15	NOT SAMPLED	04 - NE Locker Room Alcove - Floor/Baseboard	Assumed	326 Square	No
Concrete	MISC	15	NOT SAMPLED	05 - NW Locker Room Alcove - Floor/Baseboard	Assumed	496 Square	No
Concrete	MISC	15	NOT SAMPLED	06 - Foyer - Floor/Baseboard	Assumed	116 Square	No
Concrete	MISC	15	NOT SAMPLED	07 - Helmet Storage - Floor	Assumed	152 Square	No
Concrete	MISC	15	NOT SAMPLED	12 - Storage - Floor/Baseboard	Assumed	87 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 07 - Boy's Locker Room (1719)

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Concrete	MISC	15	NOT SAMPLED	13 - Exterior Boiler Room - Floor/Baseboard	Assumed	204 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	01 - Locker Room - Ceiling	Known	2310 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	02 - Restroom - Ceiling	Known	380 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	04 - NE Locker Room Alcove - Ceiling	Known	272 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	05 - NW Locker Room Alcove - Ceiling	Known	414 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	06 - Foyer - Ceiling	Known	80 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	07 - Helmet Storage - Ceiling	Known	152 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	08 - Coaches Office - Ceiling	Known	143 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	09 - Coaches RR - Ceiling	Known	144 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	10 - Coaches Office 2 - Ceiling	Known	88 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	12 - Storage - Ceiling	Known	55 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	06 - Foyer - Walls	None Detected		No
4" Vinyl Baseboard and Mastic, Grey	MISC	24	PJ76317H- 24A, 24B, 24C	08 - Coaches Office - Baseboard	None Detected	48 Linear	No
4" Vinyl Baseboard and Mastic, Grey	MISC	24	PJ76317H- 24A, 24B, 24C	10 - Coaches Office 2 - Baseboard	None Detected	30 Linear	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 07 - Boy's Locker Room (1719)

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Fiberglass Pipe Insulation w/ Canvas Wra	TSI	35	PJ76317H- 35A, 35B, 35C, 35D, 35E	13 - Exterior Boiler Room - Pipes	None Detected	4 Each	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 08 - Concessions

Inspection Date: 8/11/2023

Building Comment: Attached to Gym East Side

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	01 - Eastern Laundry Rm - Walls/Ceiling	None Detected	480 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	02 - NW Storage - Ceiling	None Detected	104 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	02 - NW Storage - Floor	None Detected	104 Square	No
Concrete	MISC	15	NOT SAMPLED	01 - Eastern Laundry Rm - Floor/Baseboard	Assumed	158 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	02 - NW Storage - Walls	None Detected	336 Square	No
Wood	NON	0	NOT SAMPLED	Attic - Floor	Non-Suspect		No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 09 - Gym

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Concrete	MISC	15	NOT SAMPLED	Gym - Walls/Ceiling	Assumed	10400 Square	No
12" ACT Pinhole Random	MISC	42	NOT SAMPLED	Gym - Ceiling No Access	Assumed	900 Square	No
Metal	NON	0	NOT SAMPLED	Gym - Baseboard	Non-Suspect	380 Linear	No
Wood	NON	0	NOT SAMPLED	Gym - Floor/Ceiling	Non-Suspect	18000 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 10 - Girl's Locker Room (1719)

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	05 - Coaches RR - Floor	None Detected	144 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	07 - Shower Area - Floor	None Detected	300 Square	No
Concrete	MISC	15	NOT SAMPLED	01 - Foyer - Floor	Assumed	72 Square	No
Concrete	MISC	15	NOT SAMPLED	02 - Custodial Closet - Floor	Assumed	55 Square	No
Concrete	MISC	15	NOT SAMPLED	06 - Locker Room RR - Floor	Assumed	250 Square	No
Concrete	MISC	15	NOT SAMPLED	08 - Locker Room Main NE - Floor	Assumed	675 Square	No
Concrete	MISC	15	NOT SAMPLED	09 - Varsity Locker Room Center - Floor	Assumed	330 Square	No
Concrete	MISC	15	NOT SAMPLED	10 - Locker Room Main SW Includes exit foyer - Floor	Assumed	1156 Square	No
Concrete	MISC	15	NOT SAMPLED	11 - Equipment 3 - Floor	Assumed	54 Square	No
Concrete	MISC	15	NOT SAMPLED	12 - Equipment 1 (includes eq 2) - Floor	Assumed	225 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	05 - Coaches RR - Walls	None Detected	374 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	06 - Locker Room RR - Walls	None Detected	649 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	07 - Shower Area - Walls	None Detected	779 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 10 - Girl's Locker Room (1719)

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	08 - Locker Room Main NE - Walls East Wall at Sinks	None Detected	83 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	03 - Coaches Office Includes Vestibules - Walls/Ceiling	None Detected	1044 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	04 - Roof Access Closet At Coaches Office - Walls	None Detected	312 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	05 - Coaches RR - Walls/Ceiling	None Detected	612 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	06 - Locker Room RR - Walls/Ceiling	None Detected	1063 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	07 - Shower Area - Walls/Ceiling	None Detected	1275 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	08 - Locker Room Main NE - Walls	None Detected	333 Square	No
CMU	MISC	40	PJ76317H- 40A, 40B, 40C	01 - Foyer - Walls	None Detected	576 Square	No
CMU	MISC	40	PJ76317H- 40A, 40B, 40C	02 - Custodial Closet - Walls	None Detected	440 Square	No
CMU	MISC	40	PJ76317H- 40A, 40B, 40C	04 - Roof Access Closet At Coaches Office - Walls	None Detected	104 Square	No
CMU	MISC	40	PJ76317H- 40A, 40B, 40C	06 - Locker Room RR - Walls At Partition Walls	None Detected	112 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 10 - Girl's Locker Room (1719)

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
CMU	MISC	40	PJ76317H- 40A, 40B, 40C	08 - Locker Room Main NE - Walls	None Detected	1331 Square	No
CMU	MISC	40	PJ76317H- 40A, 40B, 40C	09 - Varsity Locker Room Center - Walls	None Detected	902 Square	No
CMU	MISC	40	PJ76317H- 40A, 40B, 40C	10 - Locker Room Main SW Includes exit foyer - Walls	None Detected	2176 Square	No
CMU	MISC	40	PJ76317H- 40A, 40B, 40C	11 - Equipment 3 - Walls	None Detected	360 Square	No
CMU	MISC	40	PJ76317H- 40A, 40B, 40C	12 - Equipment 1 (includes eq 2) - Walls	None Detected	612 Square	No
12" Vinyl Floor Tile, Brown Oameal	MISC	43	PJ76317H- 43A, 43B	03 - Coaches Office Includes Vestibules - Floor	None Detected	360 Square	No
12" Vinyl Floor Tile, Brown Oameal	MISC	43	PJ76317H- 43A, 43B	04 - Roof Access Closet At Coaches Office - Floor	None Detected	42 Square	No
4" Vinyl Baseboard and Mastic, Black	MISC	44	PJ76317H- 44A, 44B, 44C	03 - Coaches Office Includes Vestibules - Baseboard	None Detected	76 Linear	No
4" Vinyl Baseboard and Mastic, Black	MISC	44	PJ76317H- 44A, 44B, 44C	04 - Roof Access Closet At Coaches Office - Baseboard	None Detected	26 Linear	No
Metal	NON	0	NOT SAMPLED	Various Locations	Non-Suspect		



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 11 - Boy's Locker Room (1507)

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	06 - Coaches Office - Baseboard	None Detected	56 Linear	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	03 - Restroom - Floor	None Detected	192 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	04 - Shower - Floor	None Detected	304 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	07 - Coaches RR - Floor	None Detected	99 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	01 - Foyer - Walls	None Detected	420 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	02 - Storage 1 At foyer - Walls/Ceiling	None Detected	275 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	03 - Restroom - Walls	None Detected	560 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	04 - Shower - Walls	None Detected	887 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	05 - Locker Room Main - Walls	None Detected	1904 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	06 - Coaches Office - Walls	None Detected	448 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	07 - Coaches RR - Walls	None Detected	320 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 11 - Boy's Locker Room (1507)

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	08 - Storage 2 Near Coaches Office - Walls	None Detected	400 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	08 - Storage 3 - Walls	None Detected	224 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	09 - Electrical Closet - Walls/Ceiling	None Detected	412 Square	No
4" Ceramic Tile, Pink	MISC	13	PJ76317H- 13A	03 - Restroom - Walls	None Detected	280 Square	No
4" Ceramic Tile, Pink	MISC	13	PJ76317H- 13A	04 - Shower - Walls	None Detected	443 Square	No
4" Ceramic Tile, Pink	MISC	13	PJ76317H- 13A	07 - Coaches RR - Walls	None Detected	160 Square	No
Concrete	MISC	15	NOT SAMPLED	01 - Foyer - Floor/Baseboard	Assumed	132 Square	No
Concrete	MISC	15	NOT SAMPLED	02 - Storage 1 At foyer - Floor/Baseboard	Assumed	59 Square	No
Concrete	MISC	15	NOT SAMPLED	05 - Locker Room Main - Floor/Baseboard	Assumed	1291 Square	No
Concrete	MISC	15	NOT SAMPLED	08 - Storage 2 Near Coaches Office - Floor	Assumed	150 Square	No
Concrete	MISC	15	NOT SAMPLED	08 - Storage 3 - Floor/Baseboard	Assumed	112 Square	No
Concrete	MISC	15	NOT SAMPLED	09 - Electrical Closet - Floor/Baseboard	Assumed	106 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 11 - Boy's Locker Room (1507)

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
FRP and Glue, Off-White	MISC	19	PJ76317H- 19A, 19B, 19C	01 - Foyer - Walls	None Detected	336 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	01 - Foyer - Ceiling	Known	90 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	03 - Restroom - Ceiling	Known	192 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	04 - Shower - Ceiling	Known	304 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	05 - Locker Room Main - Ceiling	Known	1155 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	06 - Coaches Office - Ceiling	Known	187 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	07 - Coaches RR - Ceiling	Known	99 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	08 - Storage 2 Near Coaches Office - Ceiling	Known	150 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	08 - Storage 3 - Ceiling	Known	84 Square	No
4" Vinyl Baseboard and Mastic, Grey	MISC	24	PJ76317H- 24A, 24B, 24C	08 - Storage 2 Near Coaches Office - Baseboard	None Detected	50 Linear	No
Fiberglass Pipe Insulation w/ Canvas Wra	TSI	35	PJ76317H- 35A, 35B, 35C, 35D, 35E	02 - Storage 1 At foyer - Pipes	None Detected	2 Each	No
12" Vinyl Floor Tile Off-White Oatmeal	MISC	38	PJ76317H- 38A, 38B, 38C, 38D	06 - Coaches Office - Floor	5 %	187 Square	No
Black Mastic (Locker Rooms)	MISC	45	NOT SAMPLED	06 - Coaches Office - Floor	Assumed	187 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District
Building: 12 - 1001-1010 Classroom Wing

Site: Selma High School

Project #: P76317H
Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	01 - Room 1007 - Floor	5 %	900 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	02 - Room 1005 - Floor	5 %	900 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	03 - Room 1003 - Floor	5 %	900 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	04 - Room 1001 Nurse's Office - Floor	5 %	525 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	08 - Room 1002 - Floor	5 %	900 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	09 - Room 1004 - Floor	5 %	900 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	10 - Room 1006 - Floor	5 %	900 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	11 - Room 1008 - Floor	5 %	900 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	12 - Room 1010 - Floor	5 %	900 Square	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	01 - Room 1007 - Baseboard	None Detected	90 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	02 - Room 1005 - Baseboard	None Detected	90 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	03 - Room 1003 - Baseboard	None Detected	90 Linear	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District
Building: 12 - 1001-1010 Classroom Wing

Site: Selma High School

Project #: P76317H
Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	04 - Room 1001 Nurse's Office - Baseboard	None Detected	100 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	08 - Room 1002 - Baseboard	None Detected	90 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	09 - Room 1004 - Baseboard	None Detected	90 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	10 - Room 1006 - Baseboard	None Detected	90 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	11 - Room 1008 - Baseboard	None Detected	90 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	12 - Room 1010 - Baseboard	None Detected	90 Linear	No
Tackboard and Glue, Off White	MISC	4	PJ76317H- 4A, 4B	01 - Room 1007 - Walls	None Detected	864 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	05 - Boy's Restroom - Floor	None Detected	299 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	07 - Women's RR - Floor	None Detected	207 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	04 - Room 1001 Nurse's Office - Walls	None Detected	675 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	05 - Boy's Restroom - Ceiling	None Detected	299 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	06 - Custodial at Boy's Restroom - Walls/Ceiling	None Detected	296 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	07 - Women's RR - Ceiling	None Detected	207 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District
Building: 12 - 1001-1010 Classroom Wing

Site: Selma High School

Project #: P76317H
Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Concrete	MISC	15	NOT SAMPLED	06 - Custodial at Boy's Restroom - Floor	Assumed	36 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	05 - Boy's Restroom - Walls	None Detected	720 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	07 - Women's RR - Walls	None Detected	640 Square	No
Fiberglass Pipe Insulation w/ Canvas Wra	TSI	35	PJ76317H- 35A, 35B, 35C, 35D, 35E	06 - Custodial at Boy's Restroom - Pipes West Side	None Detected	4 Each	No
4" Vinyl Baseboard and Mastic, Light Gr	MISC	46	PJ76317H- 46A	01 - Room 1007 - Baseboard West Wall	None Detected	30 Linear	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	01 - Room 1007 - Walls Upper Portion	2 %	216 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	02 - Room 1005 - Walls Upper Portion	2 %	216 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	03 - Room 1003 - Walls Upper Portion	2 %	216 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	04 - Room 1001 Nurse's Office - Ceiling	2 %	525 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	08 - Room 1002 - Walls Upper Portion	2 %	216 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	09 - Room 1004 - Walls Upper Portion	2 %	216 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	10 - Room 1006 - Walls Upper Portion	2 %	216 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District
Building: 12 - 1001-1010 Classroom Wing

Site: Selma High School

Project #: P76317H
Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	11 - Room 1008 - Walls Upper Portion	2 %	216 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	12 - Room 1010 - Walls Upper Portion	2 %	216 Square	No
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	01 - Room 1007 - Ceiling	None Detected	900 Square	No
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	02 - Room 1005 - Ceiling	None Detected	225 Square	No
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	03 - Room 1003 - Ceiling	None Detected	225 Square	No
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	08 - Room 1002 - Ceiling	None Detected	225 Square	No
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	09 - Room 1004 - Ceiling	None Detected	225 Square	No
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	10 - Room 1006 - Ceiling	None Detected	225 Square	No
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	11 - Room 1008 - Ceiling	None Detected	225 Square	No
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	12 - Room 1010 - Ceiling	None Detected	225 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	01 - Room 1007 - Floor	Assumed	900 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	02 - Room 1005 - Floor	Assumed	900 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	03 - Room 1003 - Floor	Assumed	900 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	04 - Room 1001 Nurse's Office - Floor	Assumed	525 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 12 - 1001-1010 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	08 - Room 1002 - Floor	Assumed	900 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	09 - Room 1004 - Floor	Assumed	900 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	10 - Room 1006 - Floor	Assumed	900 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	11 - Room 1008 - Floor	Assumed	900 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	12 - Room 1010 - Floor	Assumed	900 Square	No
Metal	NON	0	NOT SAMPLED	Various Locations North wall	Non-Suspect		
Wood	NON	0	NOT SAMPLED	Various Locations	Non-Suspect		



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 13 - 803-810 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	01 - Room 809 - Floor	5 %	900 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	02 - Room 807 - Floor	5 %	900 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	03 - Room 805 - Floor	5 %	900 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	04 - Room 803 - Floor	5 %	900 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	10 - Room 804 - Floor	5 %	900 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	11 - Room 806 - Floor	5 %	900 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	16 - Room 810 - Floor	5 %	1440 Square	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	01 - Room 809 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	02 - Room 807 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	03 - Room 805 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	04 - Room 803 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	05 - Break Room North Includes RR Vestibule - Baseboard	None Detected	84 Linear	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 13 - 803-810 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	08 - Break Room South Includes RR Vestibule - Baseboard	None Detected	84 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	10 - Room 804 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	11 - Room 806 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	12 - 806 Storage 1 - Baseboard	None Detected	56 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	13 - 806 Storage 1 Closet - Baseboard	None Detected	7 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	14 - 806 Storage 2 - Baseboard	None Detected	56 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	16 - Room 810 - Baseboard	None Detected	192 Linear	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	05 - Break Room North Includes RR Vestibule - Floor	3 %	360 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	08 - Break Room South Includes RR Vestibule - Floor	3 %	360 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	07 - Custodial - Walls/Ceiling	None Detected	343 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	15 - 806 Storage 2 Closet - Walls/Ceiling	None Detected	352 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	06 - Break Room RR (women's) - Floor	None Detected	54 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	09 - Break Room RR (mens) - Floor	None Detected	54 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 13 - 803-810 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	05 - Break Room North Includes RR Vestibule - Ceiling At RR Vestibule	None Detected	90 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	06 - Break Room RR (women's) - Ceiling	None Detected	54 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	08 - Break Room South Includes RR Vestibule - Ceiling At RR Vestibule	None Detected	90 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	09 - Break Room RR (mens) - Ceiling	None Detected	54 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	12 - 806 Storage 1 - Walls	None Detected	504 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	13 - 806 Storage 1 Closet - Walls	None Detected	61 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	14 - 806 Storage 2 - Walls	None Detected	504 Square	No
Concrete	MISC	15	NOT SAMPLED	07 - Custodial - Floor/Baseboard	Assumed	87 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	06 - Break Room RR (women's) - Walls	None Detected	270 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	09 - Break Room RR (mens) - Walls	None Detected	270 Square	No
Fiberglass Pipe Insulation w/ Canvas Wra	TSI	35	PJ76317H- 35A, 35B, 35C, 35D, 35E	07 - Custodial - Pipes	None Detected	2 Each	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 13 - 803-810 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" Vinyl Floor Tile Off-White Oatmeal	MISC	38	PJ76317H- 38A, 38B, 38C, 38D	12 - 806 Storage 1 - Floor	5 %	132 Square	No
12" Vinyl Floor Tile Off-White Oatmeal	MISC	38	PJ76317H- 38A, 38B, 38C, 38D	13 - 806 Storage 1 Closet - Floor	5 %	16 Square	No
12" Vinyl Floor Tile Off-White Oatmeal	MISC	38	PJ76317H- 38A, 38B, 38C, 38D	14 - 806 Storage 2 - Floor	5 %	132 Square	No
12" Vinyl Floor Tile Off-White Oatmeal	MISC	38	PJ76317H- 38A, 38B, 38C, 38D	15 - 806 Storage 2 Closet - Floor	5 %	64 Square	No
4" Vinyl Baseboard and Mastic, Brown	MISC	39	PJ76317H- 39A, 39B, 39C	15 - 806 Storage 2 Closet - Baseboard	2 %	32 Linear	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	01 - Room 809 - Walls	2 %	216 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	02 - Room 807 - Walls	2 %	216 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	03 - Room 805 - Walls	2 %	216 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	04 - Room 803 - Walls	2 %	216 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	05 - Break Room North Includes RR Vestibule - Ceiling	2 %	360 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	08 - Break Room South Includes RR Vestibule - Ceiling	2 %	360 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	10 - Room 804 - Walls	2 %	216 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	11 - Room 806 - Walls	2 %	216 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 13 - 803-810 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	12 - 806 Storage 1 - Ceiling	2 %	132 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	13 - 806 Storage 1 Closet - Walls/Ceiling W Wall	2 %	23 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	14 - 806 Storage 2 - Ceiling	2 %	132 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	16 - Room 810 - Walls	2 %	346 Square	No
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	01 - Room 809 - Ceiling	None Detected	900 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	02 - Room 807 - Ceiling	None Detected	900 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	03 - Room 805 - Ceiling	None Detected	900 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	04 - Room 803 - Ceiling	None Detected	900 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	10 - Room 804 - Ceiling	None Detected	900 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	11 - Room 806 - Ceiling	None Detected	900 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	16 - Room 810 - Ceiling	None Detected	1440 Square	Yes
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	01 - Room 809 - Floor	Assumed	900 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	02 - Room 807 - Floor	Assumed	900 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	03 - Room 805 - Floor	Assumed	900 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 13 - 803-810 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	04 - Room 803 - Floor	Assumed	900 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	10 - Room 804 - Floor	Assumed	900 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	11 - Room 806 - Floor	Assumed	900 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	12 - 806 Storage 1 - Floor	Assumed	132 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	13 - 806 Storage 1 Closet - Floor	Assumed	16 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	14 - 806 Storage 2 - Floor/Floors	Assumed	132 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	15 - 806 Storage 2 Closet - Floor	Assumed	64 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	16 - Room 810 - Floor	Assumed	1440 Square	No
Drywall Knockdown Texture	MISC	50	PJ76317H- 50A, 50B, 50C	05 - Break Room North Includes RR Vestibule - Walls At RR Vestibule	None Detected	189 Square	No
Drywall Knockdown Texture	MISC	50	PJ76317H- 50A, 50B, 50C	06 - Break Room RR (women's) - Walls	None Detected	27 Square	No
Drywall Knockdown Texture	MISC	50	PJ76317H- 50A, 50B, 50C	08 - Break Room South Includes RR Vestibule - Walls At RR Vestibule	None Detected	189 Square	No
Drywall Knockdown Texture	MISC	50	PJ76317H- 50A, 50B, 50C	09 - Break Room RR (mens) - Walls	None Detected	27 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 13 - 803-810 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Drywall Knockdown Texture	MISC	50	PJ76317H- 50A, 50B, 50C	11 - Room 806 - Walls West Wall	None Detected	270 Square	No
Metal	NON	0	NOT SAMPLED	Various Locations North wall	Non-Suspect		
Wood	NON	0	NOT SAMPLED	Various Locations	Non-Suspect		



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 14 - 602-609 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	01 - Room 609 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	02 - 609 Storage - Baseboard	None Detected	84 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	03 - Room 605 - Baseboard	None Detected	97 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	04 - Lab - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	05 - Lab Storage - Baseboard	None Detected	84 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	09 - Room 602 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	10 - Room 604 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	11 - Room 606 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	12 - Room 608 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	13 - 608 Storage - Baseboard	None Detected	39 Linear	No
Tackboard and Glue, Off White	MISC	4	PJ76317H- 4A, 4B	01 - Room 609 - Walls Upper Portion	None Detected	209 Square	No
Tackboard and Glue, Off White	MISC	4	PJ76317H- 4A, 4B	02 - 609 Storage - Walls Lower portion	None Detected	529 Square	No
Tackboard and Glue, Off White	MISC	4	PJ76317H- 4A, 4B	03 - Room 605 - Walls	None Detected	954 Square	No
Tackboard and Glue, Off White	MISC	4	PJ76317H- 4A, 4B	04 - Lab - Walls	None Detected	1145 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 14 - 602-609 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Tackboard and Glue, Off White	MISC	4	PJ76317H-4A, 4B	09 - Room 602 - Walls	None Detected	783 Square	No
Tackboard and Glue, Off White	MISC	4	PJ76317H-4A, 4B	10 - Room 604 - Walls	None Detected	783 Square	No
Tackboard and Glue, Off White	MISC	4	PJ76317H-4A, 4B	11 - Room 606 - Walls	None Detected	783 Square	No
Tackboard and Glue, Off White	MISC	4	PJ76317H-4A, 4B	12 - Room 608 - Walls	None Detected	783 Square	No
Tackboard and Glue, Off White	MISC	4	PJ76317H-4A, 4B	13 - 608 Storage - Walls	None Detected	261 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H-8A, 8B, 8C, 8D, 8E, 8F, 8G	02 - 609 Storage - Walls/Ceiling	None Detected	1116 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H-8A, 8B, 8C, 8D, 8E, 8F, 8G	05 - Lab Storage - Walls/Ceiling	None Detected	1116 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H-8A, 8B, 8C, 8D, 8E, 8F, 8G	08 - Custodial at Boys RR Includes vestibule - Walls/Ceiling	None Detected	410 Square	No
4" Ceramic Tile, Yellow	MISC	9	PJ76317H-9A	07 - Boy's RR - Walls	None Detected	1044 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H-10A, 10B	06 - Girls RR - Floor	None Detected	264 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H-10A, 10B	07 - Boy's RR - Floor	None Detected	840 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H-11A, 11B, 11C, 11D, 11E, 11F, 11G	06 - Girls RR - Walls/Ceiling	None Detected	894 Square	No
4" Ceramic Tile, Pink	MISC	13	PJ76317H-13A	06 - Girls RR - Walls	None Detected	315 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 14 - 602-609 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Concrete	MISC	15	NOT SAMPLED	08 - Custodial at Boys RR Includes vestibule - Floor/Baseboard	Assumed	104 Square	No
12" Vinyl Floor Tile Grey Streaks	MISC	33	PJ76317H- 33A, 33B, 33C	01 - Room 609 - Floor	None Detected	840 Square	No
12" Vinyl Floor Tile Grey Streaks	MISC	33	PJ76317H- 33A, 33B, 33C	02 - 609 Storage - Floor	None Detected	360 Square	No
12" Vinyl Floor Tile Grey Streaks	MISC	33	PJ76317H- 33A, 33B, 33C	03 - Room 605 - Floor	None Detected	700 Square	No
12" Vinyl Floor Tile Grey Streaks	MISC	33	PJ76317H- 33A, 33B, 33C	04 - Lab - Floor	None Detected	840 Square	No
12" Vinyl Floor Tile Grey Streaks	MISC	33	PJ76317H- 33A, 33B, 33C	05 - Lab Storage - Floor	None Detected	360 Square	No
12" Vinyl Floor Tile Grey Streaks	MISC	33	PJ76317H- 33A, 33B, 33C	09 - Room 602 - Floor	None Detected	840 Square	No
12" Vinyl Floor Tile Grey Streaks	MISC	33	PJ76317H- 33A, 33B, 33C	10 - Room 604 - Floor	None Detected	840 Square	No
12" Vinyl Floor Tile Grey Streaks	MISC	33	PJ76317H- 33A, 33B, 33C	11 - Room 606 - Floor	None Detected	840 Square	No
12" Vinyl Floor Tile Grey Streaks	MISC	33	PJ76317H- 33A, 33B, 33C	12 - Room 608 - Floor	None Detected	840 Square	No
12" Vinyl Floor Tile Grey Streaks	MISC	33	PJ76317H- 33A, 33B, 33C	13 - 608 Storage - Floor	None Detected	280 Square	No
Fiberglass Pipe Insulation w/ Canvas Wra	TSI	35	PJ76317H- 35A, 35B, 35C, 35D, 35E	08 - Custodial at Boys RR Includes vestibule - Pipes	None Detected	4 Each	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	07 - Boy's RR - Ceiling	2 %	840 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 14 - 602-609 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	01 - Room 609 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	03 - Room 605 - Ceiling	None Detected	700 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	04 - Lab - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	09 - Room 602 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	10 - Room 604 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	11 - Room 606 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	12 - Room 608 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	13 - 608 Storage - Ceiling	None Detected	280 Square	Yes
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	01 - Room 609 - Floor	Assumed	840 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	03 - Room 605 - Floor	Assumed	700 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	04 - Lab - Floor	Assumed	840 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	05 - Lab Storage - Floor	Assumed	360 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	09 - Room 602 - Floor	Assumed	840 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	10 - Room 604 - Floor	Assumed	840 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 14 - 602-609 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	11 - Room 606 - Floor	Assumed	840 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	12 - Room 608 - Floor	Assumed	840 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	13 - 608 Storage - Floor	Assumed	280 Square	No
Transite Fume Hood	MISC	51	NOT SAMPLED	03 - Room 605 - Misc West wall	Known	1 Each	No
Transite Fume Hood	MISC	51	NOT SAMPLED	04 - Lab - Misc East wall	Known	1 Each	No
Transite Fume Hood	MISC	51	NOT SAMPLED	11 - Room 606 - Misc	Known	1 Each	No
Transite Fume Hood	MISC	51	NOT SAMPLED	12 - Room 608 - Misc	Known	1 Each	No
Transite Fume Hood	MISC	51	NOT SAMPLED	13 - 608 Storage - Misc	Known	0 Each	No
Sink Coating Black	MISC	52	PJ76317H- 52A	04 - Lab - Sink	None Detected	1 Each	No
Sink Coating Black	MISC	52	PJ76317H- 52A	10 - Room 604 - Sink	None Detected	1 Each	No
Metal	NON	0	NOT SAMPLED	Various Locations North Wall	Non-Suspect		
Wood	NON	0	NOT SAMPLED	01 - Room 609 - Walls	Non-Suspect	835 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 15 - 401-410 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	01 - Room 409 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	02 - Room 407 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	03 - Room 405 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	04 - Room 403 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	05 - Room 401 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	06 - Room 402 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	07 - Room 404 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	08 - Room 406 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	09 - Room 408 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	10 - Room 410 - Ceiling	None Detected	840 Square	Yes
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	01 - Room 409 - Floor	5 %	840 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	02 - Room 407 - Floor	5 %	840 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	03 - Room 405 - Floor	5 %	840 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	04 - Room 403 - Floor	5 %	840 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 15 - 401-410 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	05 - Room 401 - Floor	5 %	840 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	06 - Room 402 - Floor	5 %	840 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	07 - Room 404 - Floor	5 %	840 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	08 - Room 406 - Floor	5 %	840 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	09 - Room 408 - Floor	5 %	840 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	10 - Room 410 - Floor	5 %	840 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	01 - Room 409 - Walls	None Detected	1044 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	02 - Room 407 - Walls	None Detected	1044 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	03 - Room 405 - Walls	None Detected	1044 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	04 - Room 403 - Walls	None Detected	1044 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	05 - Room 401 - Walls	None Detected	1044 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	06 - Room 402 - Walls	None Detected	1044 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	07 - Room 404 - Walls	None Detected	1044 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	08 - Room 406 - Walls	None Detected	1044 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 15 - 401-410 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	09 - Room 408 - Walls	None Detected	1044 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	10 - Room 410 - Walls	None Detected	1044 Square	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	01 - Room 409 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	02 - Room 407 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	03 - Room 405 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	04 - Room 403 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	05 - Room 401 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	06 - Room 402 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	07 - Room 404 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	08 - Room 406 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	09 - Room 408 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	10 - Room 410 - Baseboard	None Detected	116 Linear	No
Unit Ventilator	MISC	56	NOT SAMPLED	04 - Room 403 - Misc	Assumed	1 Each	No
Unit Ventilator	MISC	56	NOT SAMPLED	05 - Room 401 - Misc	Assumed	1 Each	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 15 - 401-410 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Unit Ventilator	MISC	56	NOT SAMPLED	06 - Room 402 - Misc	Assumed	1 Each	No
Unit Ventilator	MISC	56	NOT SAMPLED	07 - Room 404 - Misc	Assumed	1 Each	No
Unit Ventilator	MISC	56	NOT SAMPLED	08 - Room 406 - Misc	Assumed	1 Each	No
Unit Ventilator	MISC	56	NOT SAMPLED	09 - Room 408 - Misc	Assumed	1 Each	No
Unit Ventilator	MISC	56	NOT SAMPLED	10 - Room 410 - Misc	Assumed	1 Each	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	01 - Room 409 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	02 - Room 407 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	03 - Room 405 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	04 - Room 403 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	05 - Room 401 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	06 - Room 402 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	07 - Room 404 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	08 - Room 406 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	09 - Room 408 - Walls	None Detected	1044 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 15 - 401-410 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	10 - Room 410 - Walls	None Detected	1044 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 16 - 702 - 706 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	04 - Room 705 - Floor	5 %	1350 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	05 - Room 703 - Floor	5 %	1350 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	06 - Mechaical Room - Walls	None Detected	1056 Square	No
Concrete	MISC	15	NOT SAMPLED	06 - Mechaical Room - Floor/Baseboard	Assumed	523 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	01 - Room 702 - Walls	None Detected	1280 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	02 - Room 704 - Walls	None Detected	1280 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	03 - Room 706 - Walls	None Detected	1280 Square	No
Fiberglass Pipe Insuation w/ Canvas Wra	TSI	35	PJ76317H- 35A, 35B, 35C, 35D, 35E	06 - Mechaical Room - Pipes Includes boiler tank	None Detected	20 Each	No
Hard Elbows	TSI	37	PJ76317H- 37A, 37B, 37C, 37D	06 - Mechaical Room - Pipes Includes one T connection	None Detected	20 Each	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	04 - Room 705 - Walls	2 %	300 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	05 - Room 703 - Walls	2 %	300 Square	No
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	04 - Room 705 - Ceiling	None Detected	1350 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	05 - Room 703 - Ceiling	None Detected	1350 Square	Yes



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 16 - 702 - 706 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	01 - Room 702 - Floor	5 %	1015 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	02 - Room 704 - Floor	5 %	1015 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	03 - Room 706 - Floor	5 %	1015 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	04 - Room 705 - Walls	None Detected	1200 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	05 - Room 703 - Walls	None Detected	1200 Square	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	01 - Room 702 - Baseboard	None Detected	128 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	02 - Room 704 - Baseboard	None Detected	128 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	03 - Room 706 - Baseboard	None Detected	128 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	04 - Room 705 - Baseboard	None Detected	150 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	05 - Room 703 - Baseboard	None Detected	150 Linear	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	01 - Room 702 - Walls	None Detected	1280 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	02 - Room 704 - Walls	None Detected	1280 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	03 - Room 706 - Walls	None Detected	1280 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	06 - Mechaical Room - Walls NW Corner	None Detected	211 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 16 - 702 - 706 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	01 - Room 702 - Ceiling	Assumed	1015 Square	No
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	02 - Room 704 - Ceiling	Assumed	1015 Square	No
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	03 - Room 706 - Ceiling	Assumed	1015 Square	No
Drywall, Medium Texture	MISC	59	PJ76317H- 59A, 59B, 59C	01 - Room 702 - Walls	None Detected	128 Square	No
Drywall, Medium Texture	MISC	59	PJ76317H- 59A, 59B, 59C	02 - Room 704 - Walls	None Detected	128 Square	No
Drywall, Medium Texture	MISC	59	PJ76317H- 59A, 59B, 59C	03 - Room 706 - Walls	None Detected	128 Square	No
Concealed Floor Tile, White	MISC	60	PJ76317H- 60A	04 - Room 705 - Floor	5 %	1350 Square	No
Concealed Floor Tile, White	MISC	60	PJ76317H- 60A	05 - Room 703 - Floor	5 %	1350 Square	No
Wood	NON	0	NOT SAMPLED	06 - Mechaical Room - Ceiling	Non-Suspect	435 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 17 - 901-908 Classroom Wlngs

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	10 - Room 901 - Walls	2 %	209 Square	No
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	01 - Room 902 - Ceiling	None Detected	837 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	02 - Room 904 - Ceiling	None Detected	837 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	03 - Room 906 - Ceiling	None Detected	837 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	04 - Room 908 - Ceiling	None Detected	837 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	05 - Room 907 C - Ceiling	None Detected	195 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	06 - Room 907 B - Ceiling	None Detected	195 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	07 - Room 907 - Ceiling	None Detected	390 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	08 - Room 905 - Ceiling	None Detected	837 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	09 - Room 903 - Ceiling	None Detected	837 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	10 - Room 901 - Ceiling	None Detected	837 Square	Yes
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	01 - Room 902 - Floor	Assumed	837 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	10 - Room 901 - Floor	Assumed	837 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	01 - Room 902 - Floor	5 %	837 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 17 - 901-908 Classroom Wlngs

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	02 - Room 904 - Floor	5 %	837 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	03 - Room 906 - Floor	5 %	837 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	04 - Room 908 - Floor	5 %	837 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	05 - Room 907 C - Floor	5 %	195 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	06 - Room 907 B - Floor	5 %	195 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	07 - Room 907 - Floor	5 %	390 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	08 - Room 905 - Floor	5 %	837 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	09 - Room 903 - Floor	5 %	837 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	10 - Room 901 - Floor	5 %	837 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	01 - Room 902 - Ceiling	None Detected	753 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	02 - Room 904 - Ceiling	None Detected	837 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	03 - Room 906 - Ceiling	None Detected	837 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	04 - Room 908 - Ceiling	None Detected	837 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	05 - Room 907 C - Ceiling	None Detected	195 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 17 - 901-908 Classroom Wlngs

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	06 - Room 907 B - Ceiling	None Detected	195 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	07 - Room 907 - Ceiling	None Detected	390 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	08 - Room 905 - Ceiling	None Detected	837 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	09 - Room 903 - Ceiling	None Detected	837 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	10 - Room 901 - Ceiling N Wall	None Detected	84 Square	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	01 - Room 902 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	02 - Room 904 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	03 - Room 906 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	04 - Room 908 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	05 - Room 907 C - Baseboard	None Detected	27 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	06 - Room 907 B - Baseboard	None Detected	27 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	07 - Room 907 - Baseboard	None Detected	54 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	08 - Room 905 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	09 - Room 903 - Baseboard	None Detected	116 Linear	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 17 - 901-908 Classroom Wlngs

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	10 - Room 901 - Baseboard	None Detected	116 Linear	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	02 - Room 904 - Walls	None Detected	783 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	03 - Room 906 - Walls	None Detected	783 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	04 - Room 908 - Walls	None Detected	783 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	05 - Room 907 C - Walls	None Detected	182 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	06 - Room 907 B - Walls	None Detected	182 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	07 - Room 907 - Walls	None Detected	364 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	08 - Room 905 - Walls	None Detected	783 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	09 - Room 903 - Walls	None Detected	783 Square	No
Concealed Floor Tile, White	MISC	60	PJ76317H- 60A	01 - Room 902 - Floor	5 %	837 Square	No
Concealed Floor Tile, White	MISC	60	PJ76317H- 60A	10 - Room 901 - Floor	5 %	837 Square	No
Metal	NON	0	NOT SAMPLED	Various Locations	Non-Suspect		
Wood	NON	0	NOT SAMPLED	Various Locations	Non-Suspect		



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District
Building: 18 - 1301-1306 Classroom Wing

Site: Selma High School

Project #: P76317H
Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	04 - Boy's RR - Floor	None Detected	510 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	04 - Girl's RR - Floor	None Detected	510 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	04 - Boy's RR - Walls	None Detected	980 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	04 - Girl's RR - Walls	None Detected	980 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	01 - Room 1302 - Walls	None Detected	1200 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	02 - Room 1304 - Walls	None Detected	1200 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	03 - Room 1306 - Walls	None Detected	1200 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	05 - Room 1305 - Walls	None Detected	1200 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	06 - Room 1303 - Walls	None Detected	643 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	07 - Room 1301 - Walls	None Detected	643 Square	No
12" ACT Small Pinhole	MISC	27	PJ76317H- 27A, 27B, 27C	01 - Room 1302 - Walls	2 %	240 Square	No
12" ACT Small Pinhole	MISC	27	PJ76317H- 27A, 27B, 27C	02 - Room 1304 - Walls	2 %	240 Square	No
12" ACT Small Pinhole	MISC	27	PJ76317H- 27A, 27B, 27C	06 - Room 1303 - Walls	2 %	129 Square	No
12" ACT Small Pinhole	MISC	27	PJ76317H- 27A, 27B, 27C	07 - Room 1301 - Walls	2 %	129 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District
Building: 18 - 1301-1306 Classroom Wing

Site: Selma High School

Project #: P76317H
Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	01 - Room 1302 - Ceiling	None Detected	896 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	02 - Room 1304 - Ceiling	None Detected	896 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	06 - Room 1303 - Ceiling	None Detected	480 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	07 - Room 1301 - Ceiling	None Detected	480 Square	Yes
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	01 - Room 1302 - Floor	Assumed	896 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	07 - Room 1301 - Floor	Assumed	480 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	01 - Room 1302 - Floor	5 %	896 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	02 - Room 1304 - Floor	5 %	896 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	03 - Room 1306 - Floor	5 %	896 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	05 - Room 1305 - Floor	5 %	896 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	06 - Room 1303 - Floor	5 %	480 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	07 - Room 1301 - Floor	5 %	480 Square	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	01 - Room 1302 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	02 - Room 1304 - Baseboard	None Detected	120 Linear	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District
Building: 18 - 1301-1306 Classroom Wing

Site: Selma High School

Project #: P76317H
Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	03 - Room 1306 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	05 - Room 1305 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	06 - Room 1303 - Baseboard	None Detected	64 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	07 - Room 1301 - Baseboard	None Detected	64 Linear	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	03 - Room 1306 - Walls	None Detected	1200 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	05 - Room 1305 - Walls	None Detected	1200 Square	No
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	03 - Room 1306 - Ceiling	Assumed	896 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	05 - Room 1305 - Ceiling	Assumed	896 Square	Yes
Drywall, Orange Peel Texture (1300 wing	MISC	61	PJ76317H- 61A, 61B, 61C	01 - Room 1302 - Walls North Wall at Plenum	None Detected	120 Square	No
Drywall, Orange Peel Texture (1300 wing	MISC	61	PJ76317H- 61A, 61B, 61C	02 - Room 1304 - Walls North Wall at Plenum	None Detected	120 Square	No
Drywall, Orange Peel Texture (1300 wing	MISC	61	PJ76317H- 61A, 61B, 61C	03 - Room 1306 - Walls North Wall at Plenum	None Detected	120 Square	No
Drywall, Orange Peel Texture (1300 wing	MISC	61	PJ76317H- 61A, 61B, 61C	04 - Boy's RR - Ceiling	None Detected	510 Square	No
Drywall, Orange Peel Texture (1300 wing	MISC	61	PJ76317H- 61A, 61B, 61C	04 - Girl's RR - Ceiling	None Detected	510 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 18 - 1301-1306 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Drywall, Orange Peel Texture (1300 wing	MISC	61	PJ76317H- 61A, 61B, 61C	05 - Room 1305 - Walls South Wall at Plenum	None Detected	120 Square	No
Drywall, Orange Peel Texture (1300 wing	MISC	61	PJ76317H- 61A, 61B, 61C	06 - Room 1303 - Walls South Wall at Plenum	None Detected	64 Square	No
Drywall, Orange Peel Texture (1300 wing	MISC	61	PJ76317H- 61A, 61B, 61C	07 - Room 1301 - Walls South Wall at Plenum	None Detected	64 Square	No
Concealed Tile, Beige	MISC	62	PJ76317H- 62A	01 - Room 1302 - Floor	5 %	896 Square	No
Concealed Tile, Beige	MISC	62	PJ76317H- 62A	07 - Room 1301 - Floor	5 %	480 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District
Building: 19 - 1501-1508 Classroom WIng

Site: Selma High School

Project #: P76317H
Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	09 - Server Room West Side ext - Floor	5 %	64 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	01 - Room 1502 - Walls	None Detected	1080 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	02 - Room 1504 - Walls	None Detected	1080 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	03 - Room 1506 - Walls	None Detected	1080 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	04 - Room 1508 - Walls	None Detected	1080 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	05 - Room 1507 - Walls	None Detected	1080 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	06 - Room 1505 - Walls	None Detected	1080 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	07 - Room 1503 - Walls	None Detected	1080 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	08 - Room 1501 - Walls	None Detected	1080 Square	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	01 - Room 1502 - Walls At Heat Pump Closet	None Detected	108 Square	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	02 - Room 1504 - Walls At Heat Pump Closet	None Detected	108 Square	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	03 - Room 1506 - Walls At Heat Pump Closet	None Detected	108 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 19 - 1501-1508 Classroom WIng

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	04 - Room 1508 - Walls At Heat Pump Closet	None Detected	108 Square	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	05 - Room 1507 - Walls At Heat Pump Closet	None Detected	108 Square	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	06 - Room 1505 - Walls At Heat Pump Closet	None Detected	108 Square	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	07 - Room 1503 - Walls At Heat Pump Closet	None Detected	108 Square	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	08 - Room 1501 - Walls At Heat Pump Closet	None Detected	108 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	01 - Room 1502 - Floor	5 %	900 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	02 - Room 1504 - Floor	5 %	900 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	03 - Room 1506 - Floor	5 %	900 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	04 - Room 1508 - Floor	5 %	900 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	05 - Room 1507 - Floor	5 %	900 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	06 - Room 1505 - Floor	5 %	900 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	07 - Room 1503 - Floor	5 %	900 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District
Building: 19 - 1501-1508 Classroom WIng

Site: Selma High School

Project #: P76317H
Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	08 - Room 1501 - Floor	5 %	900 Square	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	01 - Room 1502 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	02 - Room 1504 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	03 - Room 1506 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	04 - Room 1508 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	05 - Room 1507 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	06 - Room 1505 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	07 - Room 1503 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	08 - Room 1501 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	09 - Server Room West Side ext - Baseboard	None Detected	32 Linear	No
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	01 - Room 1502 - Ceiling	Assumed	900 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	02 - Room 1504 - Ceiling	Assumed	900 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	03 - Room 1506 - Ceiling	Assumed	900 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	04 - Room 1508 - Ceiling	Assumed	900 Square	Yes



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 19 - 1501-1508 Classroom WIng

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	05 - Room 1507 - Ceiling	Assumed	900 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	06 - Room 1505 - Ceiling	Assumed	900 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	07 - Room 1503 - Ceiling	Assumed	900 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	08 - Room 1501 - Ceiling	Assumed	900 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	09 - Server Room West Side ext - Ceiling	Assumed	64 Square	Yes
Wood	NON	0	NOT SAMPLED	09 - Server Room West Side ext - Walls	Non-Suspect	320 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 20 - Library

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	07 - Staff RR Men - Floor/Baseboard/Walls	None Detected	470 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	08 - Staff RR Women - Floor/Baseboard/Walls	None Detected	498 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	09 - Custodial At women staff rr - Floor/Baseboard/Walls	None Detected	110 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	10 - Student unisex rr - Floor/Baseboard/Walls	None Detected	115 Square	No
4" Vinyl Baseboard and Mastic, Brown	MISC	39	PJ76317H- 39A, 39B, 39C	03 - Book Storage - Baseboard	2 %	90 Linear	No
4" Vinyl Baseboard and Mastic, Brown	MISC	39	PJ76317H- 39A, 39B, 39C	04 - Book Storage Closet - Baseboard	2 %	70 Linear	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	07 - Staff RR Men - Ceiling	None Detected	102 Square	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	08 - Staff RR Women - Ceiling	None Detected	108 Square	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	09 - Custodial At women staff rr - Ceiling	None Detected	20 Square	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	10 - Student unisex rr - Ceiling	None Detected	25 Square	No
4" Vinyl Baseboard and Mastic, Black	MISC	44	PJ76317H- 44A, 44B, 44C	01 - Library (main) - Baseboard	None Detected	250 Linear	No
4" Vinyl Baseboard and Mastic, Black	MISC	44	PJ76317H- 44A, 44B, 44C	02 - Office 1 - Baseboard	None Detected	56 Linear	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 20 - Library

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
4" Vinyl Baseboard and Mastic, Black	MISC	44	PJ76317H- 44A, 44B, 44C	05 - Classroom - Baseboard	None Detected	122 Linear	No
4" Vinyl Baseboard and Mastic, Black	MISC	44	PJ76317H- 44A, 44B, 44C	06 - Office 2 - Baseboard	None Detected	54 Linear	No
4" Vinyl Baseboard and Mastic, Black	MISC	44	PJ76317H- 44A, 44B, 44C	11 - Office 3 - Baseboard	None Detected	38 Linear	No
4" Vinyl Baseboard and Mastic, Black	MISC	44	PJ76317H- 44A, 44B, 44C	12 - Office 4 - Baseboard	None Detected	63 Linear	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	01 - Library (main) - Ceiling	None Detected	3600 Square	No
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	01 - Library (main) - Ceiling	Assumed	3600 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	02 - Office 1 - Ceiling	Assumed	192 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	03 - Book Storage - Ceiling	Assumed	500 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	04 - Book Storage Closet - Ceiling	Assumed	250 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	05 - Classroom - Ceiling	Assumed	900 Square	Yes
Carpet and Mastic, Grey Squares	MISC	63	PJ76317H- 63A, 63B	01 - Library (main) - Floor	None Detected	3600 Square	No
Carpet and Mastic, Grey Squares	MISC	63	PJ76317H- 63A, 63B	02 - Office 1 - Floor	None Detected	192 Square	No
Carpet and Mastic, Grey Squares	MISC	63	PJ76317H- 63A, 63B	06 - Office 2 - Floor	None Detected	170 Square	No
Carpet and Mastic, Grey Squares	MISC	63	PJ76317H- 63A, 63B	11 - Office 3 - Floor	None Detected	120 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 20 - Library

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Carpet and Mastic, Grey Squares	MISC	63	PJ76317H- 63A, 63B	12 - Office 4 - Floor	None Detected	198 Square	No
Tackboard and Glue, Tan	MISC	64	PJ76317H- 64A, 64B	01 - Library (main) - Walls	None Detected	2750 Square	No
Tackboard and Glue, Tan	MISC	64	PJ76317H- 64A, 64B	02 - Office 1 - Walls	None Detected	672 Square	No
Tackboard and Glue, Tan	MISC	64	PJ76317H- 64A, 64B	03 - Book Storage - Walls	None Detected	900 Square	No
Tackboard and Glue, Tan	MISC	64	PJ76317H- 64A, 64B	04 - Book Storage Closet - Walls	None Detected	700 Square	No
Tackboard and Glue, Tan	MISC	64	PJ76317H- 64A, 64B	05 - Classroom - Walls	None Detected	1220 Square	No
Tackboard and Glue, Tan	MISC	64	PJ76317H- 64A, 64B	06 - Office 2 - Walls	None Detected	432 Square	No
Tackboard and Glue, Tan	MISC	64	PJ76317H- 64A, 64B	09 - Custodial At women staff rr - Walls	None Detected	162 Square	No
Tackboard and Glue, Tan	MISC	64	PJ76317H- 64A, 64B	11 - Office 3 - Walls	None Detected	305 Square	No
Tackboard and Glue, Tan	MISC	64	PJ76317H- 64A, 64B	12 - Office 4 - Walls	None Detected	503 Square	No
12" ACT Pinhle Fissure (library)	MISC	65	PJ76317H- 65A, 65B	01 - Library (main) - Ceiling SE Corner	None Detected	180 Square	No
12" ACT Pinhle Fissure (library)	MISC	65	PJ76317H- 65A, 65B	06 - Office 2 - Ceiling	None Detected	170 Square	No
12" ACT Pinhle Fissure (library)	MISC	65	PJ76317H- 65A, 65B	12 - Office 4 - Ceiling	None Detected	198 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 20 - Library

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" Vinyl Floor Tile, Beige Pebble	MISC	66	PJ76317H- 66A, 66B, 66C	03 - Book Storage - Floor	3 %	500 Square	No
12" Vinyl Floor Tile, Beige Pebble	MISC	66	PJ76317H- 66A, 66B, 66C	04 - Book Storage Closet - Floor	3 %	250 Square	No
24" VFT White Pebble	MISC	67	PJ76317H- 67A	05 - Classroom - Floor	None Detected	900 Square	No
12" ACT Pinhle Uniform	MISC	68	NOT SAMPLED	11 - Office 3 - Ceiling	Assumed	120 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 21 - 501-504 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	04 - Room 502 - Floor	5 %	1350 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	05 - 502 & 504 Closet - Floor	5 %	275 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	06 - Room 504 - Floor	5 %	1050 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	07 - Room 501 - Floor	5 %	1350 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	07 - Room 503 - Floor	5 %	1200 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	08 - 501 & 503 Closet - Floor	5 %	275 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	01 - Girl's RR - Ceiling	None Detected	338 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	03 - Boy's RR - Ceiling	None Detected	338 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	01 - Girl's RR - Floor	None Detected	338 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	03 - Boy's RR - Floor	None Detected	338 Square	No
Concrete	MISC	15	NOT SAMPLED	02 - Custodial - Floor	Assumed	104 Square	No
Concrete	MISC	15	NOT SAMPLED	05 - HVAC Closet At 502 and 504 closet - Floor	Assumed	25 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 21 - 501-504 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Concrete	MISC	15	NOT SAMPLED	06 - HVAC Closet At 501 and 503 closet - Floor	Assumed	50 Square	No
FRP and Glue, Off-White	MISC	19	PJ76317H- 19A, 19B, 19C	02 - Custodial - Walls	None Detected	136 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	01 - Girl's RR - Walls	None Detected	702 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	03 - Boy's RR - Walls	None Detected	702 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	04 - Room 502 - Walls	None Detected	1500 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	05 - 502 & 504 Closet - Walls	None Detected	648 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	06 - Room 504 - Walls	None Detected	1167 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	07 - Room 501 - Walls	None Detected	1500 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	07 - Room 503 - Walls	None Detected	1334 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	08 - 501 & 503 Closet - Walls	None Detected	648 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	02 - Custodial - Walls	None Detected	546 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	05 - 502 & 504 Closet - Walls	None Detected	324 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	05 - HVAC Closet At 502 and 504 closet - Walls	None Detected	0 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 21 - 501-504 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	06 - HVAC Closet At 501 and 503 closet - Walls	None Detected	90 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	08 - 501 & 503 Closet - Walls	None Detected	324 Square	No
4" Vinyl Baseboard and Mastic, Brown	MISC	39	PJ76317H- 39A, 39B, 39C	02 - Custodial - Baseboard	2 %	42 Linear	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	02 - Custodial - Ceiling	None Detected	104 Square	No
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	04 - Room 502 - Ceiling	None Detected	1350 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	05 - 502 & 504 Closet - Ceiling	None Detected	275 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	06 - Room 504 - Ceiling	None Detected	1050 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	07 - Room 501 - Ceiling	None Detected	1350 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	07 - Room 503 - Ceiling	None Detected	1200 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	08 - 501 & 503 Closet - Ceiling	None Detected	275 Square	Yes
Transite Fume Hood	MISC	51	NOT SAMPLED	04 - Room 502 - Misc	Known	1 Each	No
Transite Fume Hood	MISC	51	NOT SAMPLED	07 - Room 501 - Misc	Known	1 Each	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	04 - Room 502 - Baseboard	None Detected	150 Linear	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 21 - 501-504 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	05 - 502 & 504 Closet - Baseboard	None Detected	72 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	06 - Room 504 - Baseboard	None Detected	117 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	07 - Room 501 - Baseboard	None Detected	150 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	07 - Room 503 - Baseboard	None Detected	134 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	08 - 501 & 503 Closet - Baseboard	None Detected	72 Linear	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	04 - Room 502 - Walls	None Detected	1500 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	06 - Room 504 - Walls	None Detected	1167 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	07 - Room 501 - Walls	None Detected	1500 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	07 - Room 503 - Walls	None Detected	1334 Square	No
Fiberglass	NON	0	NOT SAMPLED	Various Locations At 502 and 504 closet	Non-Suspect		
Wood	NON	0	NOT SAMPLED	Various Locations At 502 and 504 closet	Non-Suspect		



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 22 - 304-317 Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	05 - Room 305 - Floor	5 %	480 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	08 - 311 Office - Floor	5 %	150 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	18 - NE Storage - Floor	5 %	240 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	19 - Office 1 - Floor	5 %	120 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	20 - Restroom Includes vestibule - Floor	5 %	60 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	21 - Office 2 - Floor	5 %	500 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	22 - Armory closet - Floor	5 %	60 Square	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	06 - 305 Office - Baseboard	None Detected	42 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	08 - 311 Office - Baseboard	None Detected	58 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	19 - Office 1 - Baseboard	None Detected	44 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	20 - Restroom Includes vestibule - Baseboard	None Detected	32 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	21 - Office 2 - Baseboard	None Detected	90 Linear	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 22 - 304-317 Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	24 - 317 office and vestibule - Floor	3 %	66 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	02 - 304 ne closet - Walls	None Detected	368 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	03 - 304 e, center closet - Walls/Ceiling	None Detected	752 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	04 - 304 se closet - Walls	None Detected	600 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	09 - Room 311 - Walls/Ceiling At welding booth	None Detected	589 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	10 - 311 Storage - Walls/Ceiling	None Detected	311 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	11 - 311 Storage 2 Se corner - Walls	None Detected	667 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	07 - Staff RR - Walls/Ceiling	None Detected	185 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	12 - Staff RR 1 - Walls/Ceiling	None Detected	561 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	13 - Staff RR 2 - Walls/Ceiling	None Detected	561 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	18 - NE Storage - Walls/Ceiling	None Detected	1056 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	20 - Restroom Includes vestibule - Walls/Ceiling	None Detected	348 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 22 - 304-317 Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	22 - Armory closet - Walls/Ceiling	None Detected	316 Square	No
Concrete	MISC	15	NOT SAMPLED	01 - Room 304 - Floor	Assumed	2976 Square	No
Concrete	MISC	15	NOT SAMPLED	02 - 304 ne closet - Floor	Assumed	130 Square	No
Concrete	MISC	15	NOT SAMPLED	03 - 304 e, center closet - Floor	Assumed	240 Square	No
Concrete	MISC	15	NOT SAMPLED	04 - 304 se closet - Floor	Assumed	216 Square	No
Concrete	MISC	15	NOT SAMPLED	07 - Staff RR - Floor/Baseboard	Assumed	45 Square	No
Concrete	MISC	15	NOT SAMPLED	09 - Room 311 - Floor	Assumed	2976 Square	No
Concrete	MISC	15	NOT SAMPLED	10 - 311 Storage - Floor/Baseboard	Assumed	87 Square	No
Concrete	MISC	15	NOT SAMPLED	11 - 311 Storage 2 Se corner - Floor	Assumed	240 Square	No
Concrete	MISC	15	NOT SAMPLED	12 - Staff RR 1 - Floor/Baseboard	Assumed	165 Square	No
Concrete	MISC	15	NOT SAMPLED	13 - Staff RR 2 - Floor/Baseboard	Assumed	165 Square	No
Concrete	MISC	15	NOT SAMPLED	14 - Room 319 - Floor	Assumed	2304 Square	No
Concrete	MISC	15	NOT SAMPLED	15 - 319 Storage 1 - Floor	Assumed	120 Square	No
Concrete	MISC	15	NOT SAMPLED	16 - 319 Storage 2 (uniforms) - Floor	Assumed	324 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 22 - 304-317 Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Concrete	MISC	15	NOT SAMPLED	23 - Room 317 - Floor	Assumed	2400 Square	No
4" Vinyl Baseboard and Mastic, Grey	MISC	24	PJ76317H- 24A, 24B, 24C	03 - 304 e, center closet - Baseboard	None Detected	6 Linear	No
Hard Elbows	TSI	37	PJ76317H- 37A, 37B, 37C, 37D	09 - Room 311 - Pipes Nw corner multiple connections	None Detected	10 Each	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	05 - Room 305 - Baseboard	None Detected	88 Linear	No
12" Vinyl Floor Tile, Beige Pebble	MISC	66	PJ76317H- 66A, 66B, 66C	06 - 305 Office - Floor	3 %	108 Square	No
Spray Fireproofing	SURF	69	PJ76317H- 69A, 69B, 69C, 69D, 69E, 69F, 69G	01 - Room 304 - Ceiling	None Detected	595 Square	No
Spray Fireproofing	SURF	69	PJ76317H- 69A, 69B, 69C, 69D, 69E, 69F, 69G	02 - 304 ne closet - Ceiling Above ceiling	None Detected	130 Square	Yes
Spray Fireproofing	SURF	69	PJ76317H- 69A, 69B, 69C, 69D, 69E, 69F, 69G	03 - 304 e, center closet - Ceiling Above ceiling	None Detected	240 Square	Yes
Spray Fireproofing	SURF	69	PJ76317H- 69A, 69B, 69C, 69D, 69E, 69F, 69G	04 - 304 se closet - Ceiling	None Detected	43 Square	No
Spray Fireproofing	SURF	69	PJ76317H- 69A, 69B, 69C, 69D, 69E, 69F, 69G	05 - Room 305 - Ceiling	None Detected	480 Square	Yes
Spray Fireproofing	SURF	69	PJ76317H- 69A, 69B, 69C, 69D, 69E, 69F, 69G	09 - Room 311 - Ceiling	None Detected	595 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 22 - 304-317 Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Spray Fireproofing	SURF	69	PJ76317H- 69A, 69B, 69C, 69D, 69E, 69F, 69G	11 - 311 Storage 2 Se corner - Ceiling	None Detected	48 Square	No
Spray Fireproofing	SURF	69	PJ76317H- 69A, 69B, 69C, 69D, 69E, 69F, 69G	14 - Room 319 - Ceiling	None Detected	2304 Square	Yes
Spray Fireproofing	SURF	69	PJ76317H- 69A, 69B, 69C, 69D, 69E, 69F, 69G	17 - 319 Upstairs Storage - Ceiling	None Detected	600 Square	Yes
Window Glazing	MISC	70	PJ76317H- 70A, 70B, 70C, 70D	01 - Room 304 - Walls North and south windows	None Detected	0 Square	No
Window Glazing	MISC	70	PJ76317H- 70A, 70B, 70C, 70D	04 - 304 se closet - Walls south windows	None Detected	0 Square	No
Window Glazing	MISC	70	PJ76317H- 70A, 70B, 70C, 70D	05 - Room 305 - Walls	None Detected	106 Square	No
Window Glazing	MISC	70	PJ76317H- 70A, 70B, 70C, 70D	09 - Room 311 - Walls North and south windows	None Detected	0 Square	No
Window Glazing	MISC	70	PJ76317H- 70A, 70B, 70C, 70D	11 - 311 Storage 2 Se corner - Walls south windows	None Detected	0 Square	No
Window Glazing	MISC	70	PJ76317H- 70A, 70B, 70C, 70D	16 - 319 Storage 2 (uniforms) - Walls Nw corner	None Detected	31 Square	No
Window Glazing	MISC	70	PJ76317H- 70A, 70B, 70C, 70D	17 - 319 Upstairs Storage - Walls N Side	None Detected	99 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 22 - 304-317 Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Window Glazing	MISC	70	PJ76317H- 70A, 70B, 70C, 70D	21 - Office 2 - Walls S wall	None Detected	99 Square	No
Drywall, Painted (shop)	MISC	71	NOT SAMPLED	02 - 304 ne closet - Ceiling	Assumed	130 Square	No
Drywall Knockdown Texture (shop)	MISC	72	PJ76317H- 72A, 72B, 72C	01 - Room 304 - Walls East wall	None Detected	1100 Square	No
Drywall Knockdown Texture (shop)	MISC	72	PJ76317H- 72A, 72B, 72C	09 - Room 311 - Walls East wall	None Detected	1100 Square	No
Black Mastic (Shop)	MISC	73	NOT SAMPLED	05 - Room 305 - Floor	Assumed		No
Black Mastic (Shop)	MISC	73	NOT SAMPLED	06 - 305 Office - Floor	Assumed	108 Square	No
Black Mastic (Shop)	MISC	73	NOT SAMPLED	08 - 311 Office - Floor	Assumed	150 Square	No
Black Mastic (Shop)	MISC	73	NOT SAMPLED	19 - Office 1 - Floor	Assumed	120 Square	No
Black Mastic (Shop)	MISC	73	NOT SAMPLED	21 - Office 2 - Floor	Assumed	500 Square	No
Black Mastic (Shop)	MISC	73	NOT SAMPLED	22 - Armory closet - Floor	Assumed	60 Square	No
12" ACT Pinhle Fissure (Shop)	MISC	74	PJ76317H- 74A, 74B, 74C	05 - Room 305 - Walls/Ceiling	2 %	586 Square	No
12" ACT Pinhle Fissure (Shop)	MISC	74	PJ76317H- 74A, 74B, 74C	06 - 305 Office - Ceiling	2 %	108 Square	No
12" ACT Pinhle Fissure (Shop)	MISC	74	PJ76317H- 74A, 74B, 74C	08 - 311 Office - Ceiling	2 %	150 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 22 - 304-317 Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" ACT Pinhle Fissure (Shop)	MISC	74	PJ76317H- 74A, 74B, 74C	12 - Staff RR 1 - Ceiling	2 %	121 Square	No
12" ACT Pinhle Fissure (Shop)	MISC	74	PJ76317H- 74A, 74B, 74C	13 - Staff RR 2 - Ceiling	2 %	121 Square	No
12" ACT Pinhle Fissure (Shop)	MISC	74	PJ76317H- 74A, 74B, 74C	19 - Office 1 - Ceiling	2 %	120 Square	No
12" ACT Pinhle Fissure (Shop)	MISC	74	PJ76317H- 74A, 74B, 74C	21 - Office 2 - Walls/Ceiling	2 %	698 Square	No
Brown Baseboard Mastic	MISC	75	NOT SAMPLED	14 - Room 319 - Baseboard E Wall	Assumed	38 Linear	No
Metal	NON	0	NOT SAMPLED	Various Locations	Non-Suspect		
Wood	NON	0	NOT SAMPLED	Various Locations	Non-Suspect		



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 23 - Ag Classrooms 102, 103

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	08 - 102 Classroom - Floor	5 %	850 Square	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	08 - 102 Classroom - Baseboard	None Detected	118 Linear	No
Tackboard and Glue, Off White	MISC	4	PJ76317H- 4A, 4B	08 - 102 Classroom - Walls	None Detected	1062 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	05 - Welding Shop Water Heater Closet - Walls/Ceiling	None Detected	176 Square	No
4" Ceramic Tile, Yellow	MISC	9	PJ76317H- 9A	02 - 102 Staff RR - Walls At shower	None Detected	72 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	02 - 102 Staff RR - Walls/Ceiling	None Detected	441 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	06 - Student Restroom At welding shop - Walls/Ceiling	None Detected	500 Square	No
Concrete	MISC	15	NOT SAMPLED	02 - 102 Staff RR - Floor/Baseboard	Assumed	117 Square	No
Concrete	MISC	15	NOT SAMPLED	03 - 102 Welding Shop - Floor	Assumed	2400 Square	No
Concrete	MISC	15	NOT SAMPLED	05 - Welding Shop Water Heater Closet - Floor	Assumed	16 Square	No
Concrete	MISC	15	NOT SAMPLED	06 - Student Restroom At welding shop - Floor	Assumed	100 Square	No
4" Vinyl Baseboard and Mastic, Brown	MISC	39	PJ76317H- 39A, 39B, 39C	01 - 102 Office - Baseboard	2 %	56 Linear	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 23 - Ag Classrooms 102, 103

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	08 - 102 Classroom - Ceiling	None Detected	850 Square	Yes
Drywall Knockdown Texture	MISC	50	PJ76317H- 50A, 50B, 50C	03 - 102 Welding Shop - Walls East Wall Upper Portion	None Detected	1000 Square	No
Spray Fireproofing	SURF	69	PJ76317H- 69A, 69B, 69C, 69D, 69E, 69F, 69G	03 - 102 Welding Shop - Ceiling	None Detected	2400 Square	Yes
Window Glazing	MISC	70	PJ76317H- 70A, 70B, 70C, 70D	03 - 102 Welding Shop - Walls North and South Windows	None Detected	1000 Square	No
Black Mastic (Shop)	MISC	73	NOT SAMPLED	01 - 102 Office - Floor	Assumed	192 Square	No
Black Mastic (Shop)	MISC	73	NOT SAMPLED	08 - 102 Classroom - Floor	Assumed	850 Square	No
12" ACT Pinhle Fissure (Shop)	MISC	74	PJ76317H- 74A, 74B, 74C	01 - 102 Office - Walls/Ceiling	2 %	332 Square	No
9" Vinyl Floor Tile Beige Streaks	MISC	76	PJ76317H- 76A	01 - 102 Office - Floor	5 %	192 Square	No
Cement Board	MISC	77	PJ76317H- 77A, 77B	03 - 102 Welding Shop - Walls At Welding Booth Partitions	None Detected	800 Square	No
Transite Flue Pipe	MISC	900	NOT SAMPLED	05 - Welding Shop Water Heater Closet - Pipes Visible from attic space	Known	20 Linear	No
Metal	NON	0	NOT SAMPLED	03 - 102 Welding Shop - Walls	Non-Suspect	4000 Square	No
Wood	NON	0	NOT SAMPLED	01 - 102 Office - Walls	Non-Suspect	420 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 24 - Classrooms FCOE 1 & 2

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	02 - Classroom FCOE 1 - Floor	3 %	500 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	02 - FCOE 1 Office - Floor	3 %	108 Square	No
FRP and Glue, Off-White	MISC	19	PJ76317H- 19A, 19B, 19C	04 - FCOE 1 RR - Walls	None Detected	420 Square	No
4" Vinyl Baseboard and Mastic, Grey	MISC	24	PJ76317H- 24A, 24B, 24C	01 - Classroom FCOE 2 - Baseboard	None Detected	126 Linear	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	01 - Classroom FCOE 2 - Walls	None Detected	1386 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	02 - Classroom FCOE 1 - Walls	None Detected	1300 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	02 - FCOE 1 Office - Walls	None Detected	378 Square	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	02 - Classroom FCOE 1 - Baseboard	None Detected	130 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	02 - FCOE 1 Office - Baseboard	None Detected	42 Linear	No
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	02 - Classroom FCOE 1 - Ceiling	Assumed	1000 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	02 - FCOE 1 Office - Ceiling	Assumed	108 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	04 - FCOE 1 RR - Ceiling	Assumed	104 Square	Yes
Carpet and Mastic, Brown Multi	MISC	78	PJ76317H- 78A	01 - Classroom FCOE 2 - Floor	None Detected	920 Square	No
VSF and Glue Grey Pebble w/ Backing	MISC	79	PJ76317H- 79A, 79B	02 - Classroom FCOE 1 - Floor	None Detected	500 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 24 - Classrooms FCOE 1 & 2

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
VSF and Glue Grey Pebble w/ Backing	MISC	79	PJ76317H- 79A, 79B	04 - FCOE 1 RR - Floor/Baseboard	None Detected	146 Square	No
Sink Coating White	MISC	80	PJ76317H- 80A	02 - Classroom FCOE 1 - Sink	None Detected	1 Each	No
Fiberglass	NON	0	NOT SAMPLED	01 - Classroom FCOE 2 - Ceiling	Non-Suspect	920 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 25 - Classroom Wing 2200 - 2209

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	01 - Room 2208 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	02 - Room 2206 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	03 - Room 2204 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	04 - Room 2202 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	05 - Room 2200 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	06 - Room 2201 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	07 - Room 2203 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	08 - Room 2205 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	09 - Room 2207 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	10 - Room 2209 - Baseboard	None Detected	116 Linear	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	01 - Room 2208 - Floor	3 %	840 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	02 - Room 2206 - Floor	3 %	840 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	03 - Room 2204 - Floor	3 %	840 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	04 - Room 2202 - Floor	3 %	840 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 25 - Classroom Wing 2200 - 2209

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	05 - Room 2200 - Floor	3 %	840 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	06 - Room 2201 - Floor	3 %	840 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	07 - Room 2203 - Floor	3 %	840 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	08 - Room 2205 - Floor	3 %	840 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	09 - Room 2207 - Floor	3 %	840 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	10 - Room 2209 - Floor	3 %	840 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	01 - Room 2208 - Walls	None Detected	1044 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	02 - Room 2206 - Walls	None Detected	1044 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	03 - Room 2204 - Walls	None Detected	1044 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	04 - Room 2202 - Walls	None Detected	1044 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	05 - Room 2200 - Walls	None Detected	1044 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	06 - Room 2201 - Walls	None Detected	1044 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	07 - Room 2203 - Walls	None Detected	1044 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	08 - Room 2205 - Walls	None Detected	1044 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 25 - Classroom Wing 2200 - 2209

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	09 - Room 2207 - Walls	None Detected	1044 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	10 - Room 2209 - Walls	None Detected	1044 Square	No
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	01 - Room 2208 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	02 - Room 2206 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	03 - Room 2204 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	04 - Room 2202 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	05 - Room 2200 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	06 - Room 2201 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	07 - Room 2203 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	08 - Room 2205 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	09 - Room 2207 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	10 - Room 2209 - Ceiling	None Detected	840 Square	Yes
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	01 - Room 2208 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	02 - Room 2206 - Walls	None Detected	1044 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 25 - Classroom Wing 2200 - 2209

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	03 - Room 2204 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	04 - Room 2202 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	05 - Room 2200 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	06 - Room 2201 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	07 - Room 2203 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	08 - Room 2205 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	09 - Room 2207 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	10 - Room 2209 - Walls	None Detected	1044 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District
Building: 26 - Classroom Wing 2301-2310

Site: Selma High School

Project #: P76317H
Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	02 - Room 2302 Office - Floor	5 %	100 Square	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	01 - Room 2302 - Baseboard	None Detected	140 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	02 - Room 2302 Office - Baseboard	None Detected	12 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	03 - Room 2306 - Baseboard	None Detected	140 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	03 - Room 2310 - Baseboard	None Detected	112 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	04 - Room 2309 - Baseboard	None Detected	112 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	05 - Room 2307 - Baseboard	None Detected	112 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	06 - Room 2305 - Baseboard	None Detected	112 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	07 - Room 2303 - Baseboard	None Detected	112 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	08 - Room 2301 - Baseboard	None Detected	112 Linear	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	03 - Room 2306 - Floor	3 %	1125 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	03 - Room 2310 - Floor	3 %	900 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	04 - Room 2309 - Floor	3 %	900 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	05 - Room 2307 - Floor	3 %	900 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 26 - Classroom Wing 2301-2310

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	06 - Room 2305 - Floor	3 %	900 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	01 - Room 2302 - Walls	None Detected	1260 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	02 - Room 2302 Office - Walls	None Detected	112 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	03 - Room 2306 - Walls	None Detected	1260 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	03 - Room 2310 - Walls	None Detected	1008 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	04 - Room 2309 - Walls	None Detected	1008 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	05 - Room 2307 - Walls	None Detected	1008 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	06 - Room 2305 - Walls	None Detected	1008 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	07 - Room 2303 - Walls	None Detected	1008 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	08 - Room 2301 - Walls	None Detected	1008 Square	No
Carpet and Mastic, Blue Multi	MISC	34	PJ76317H- 34A	01 - Room 2302 - Floor	None Detected	1125 Square	No
Carpet and Mastic, Blue Multi	MISC	34	PJ76317H- 34A	07 - Room 2303 - Floor	None Detected	900 Square	No
Carpet and Mastic, Blue Multi	MISC	34	PJ76317H- 34A	08 - Room 2301 - Floor	None Detected	900 Square	No
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	03 - Room 2310 - Ceiling	None Detected	900 Square	Yes



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 26 - Classroom Wing 2301-2310

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	04 - Room 2309 - Ceiling	None Detected	900 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	05 - Room 2307 - Ceiling	None Detected	900 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	06 - Room 2305 - Ceiling	None Detected	900 Square	Yes
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	01 - Room 2302 - Walls	None Detected	1260 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	02 - Room 2302 Office - Walls	None Detected	112 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	03 - Room 2306 - Walls	None Detected	1260 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	03 - Room 2310 - Walls	None Detected	1008 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	04 - Room 2309 - Walls	None Detected	1008 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	05 - Room 2307 - Walls	None Detected	1008 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	06 - Room 2305 - Walls	None Detected	1008 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	07 - Room 2303 - Walls	None Detected	1008 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	08 - Room 2301 - Walls	None Detected	1008 Square	No
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	01 - Room 2302 - Ceiling	Assumed	1125 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	02 - Room 2302 Office - Ceiling	Assumed	100 Square	Yes



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 26 - Classroom Wing 2301-2310

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	03 - Room 2306 - Ceiling	Assumed	1125 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	07 - Room 2303 - Ceiling	Assumed	900 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	08 - Room 2301 - Ceiling	Assumed	900 Square	Yes

Six Month Surveillance Forms

Six Month Surveillance Summary

District: Selma Unified School District

Date:

School: Selma High School

Inspector:

Building	HMR Number	Asbestos Material	Location	Condition Code/Comments
01 - Admin	1	12" Vinyl Floor Tile, Grey Oatmeal	01 - Reception, 04 - Hallway, 10 - Custodial Closet, 16 - Open Office	
01 - Admin	3	Carpet and Mastic, Grey Multi Color	01 - Reception, 02 - Principal's Office, 05 - Admin Assistant Office, 06 - ASB Clerk Office, 07 - Registrar Office, 09 - Attendance Office, 12 - TOSA Office, 13 - Deputy Principal Office 1, 14 - Deputy Principal Office 2, 15 - Assistant Principal, 16 - Open Office, 17 - South Vestibule, 18 - NE Office, 19 - SE Office, 21 - SW Office, 23 - NW Office	
01 - Admin	5	12" ACT Pinhle Fissure (Admin)	01 - Reception, 02 - Principal's Office, 03 - Principal's Restroom, 04 - Hallway, 05 - Admin Assistant Office, 06 - ASB Clerk Office, 07 - Registrar Office, 08 - Men's Restroom, 09 - Attendance Office, 11 - Women's Restroom, 12 - TOSA Office, 13 - Deputy Principal Office 1, 14 - Deputy Principal Office 2, 15 - Assistant Principal, 16 - Open Office, 17 - South Vestibule, 18 - NE Office, 19 - SE Office, 20 - South Vestibule Restroom 1, 21 - SW Office, 22 - South Vestibule Restroom 2, 23 - NW Office	
01 - Admin	6	Black Mastic (Admin)	02 - Principal's Office, 05 - Admin Assistant Office, 06 - ASB Clerk Office, 07 - Registrar Office, 09 - Attendance Office, 12 - TOSA Office, 13 - Deputy Principal Office 1, 14 - Deputy Principal Office 2, 15 - Assistant Principal, 17 - South Vestibule, 18 - NE Office, 19 - SE Office, 21 - SW Office, 23 - NW Office	
01 - Admin	12	Pipe Insulation	10 - Custodial Closet	
01 - Admin	14	9" Vinyl Floor Tile, Grey w/ Yellow	24 - Safe	
01 - Admin	15	Concrete	24 - Safe	
02 - Cafeteria	1	12" Vinyl Floor Tile, Grey Oatmeal	03 - Break Room, 04 - Restroom Vestibule, 07 - Cold Storage Hallway, 08 - Dry Storage, 09 - Kitchen N Hallway, 10 - Staff Locker Room, 11 - Office	

Condition Codes

General Condition: (1) Good (2) Damaged (3) Significantly Damaged (Damaged 25% or more)
 Change in Condition: (4) No (5) Yes (If yes, explain under comments)
 Abated: (6) Repaired (7) Removed (8) Encapsulated (9) Enclosed (10) Isolated & Restricted
 Misc: (11) Inaccessible, No surveillance data (12) Other (Explain under comments)

Six Month Surveillance Summary

District: Selma Unified School District

Date:

School: Selma High School

Inspector:

Building	HMR Number	Asbestos Material	Location	Condition Code/Comments
02 - Cafeteria	16	12" Vinyl Floor Tile, Grey Oatmeal (Caf	01 - Cafeteria Space	
02 - Cafeteria	17	12" ACT Pinhle Fissure (Cafeteria)	01 - Cafeteria Space, 03 - Break Room, 04 - Restroom Vestibule, 05 - Men's Restroom, 06 - Women's Restroom, 11 - Office	
02 - Cafeteria	21	Transite Ceiling Panels	02 - Kitchen	
02 - Cafeteria	22	Black Mastic (Cafeteria)	01 - Cafeteria Space, 03 - Break Room, 04 - Restroom Vestibule, 07 - Cold Storage Hallway, 08 - Dry Storage, 09 - Kitchen N Hallway, 10 - Staff Locker Room, 11 - Office	
03 - Dining Hall	15	Concrete	01- Dining Hall Area, 02 - Hallway, 03 - Eastern Storage, 04 - Western Storage, 06 - Custodial	
03 - Dining Hall	27	12" ACT Small Pinhole	02 - Hallway	
03 - Dining Hall	28	6" Ceramic Tile, Grey	05 - Women's RR, 07 - Men's Restroom	
04 - Band	1	12" Vinyl Floor Tile, Grey Oatmeal	01 - Classroom 1903, 04 - Office (1903), 05 - Storage 1 (1903), 06 - Storage 2 (1903), 07- Storage 3 (1903), 08 - Uniform Storage (1903), 14 - Classroom 1904	
04 - Band	15	Concrete	03 - Custodial (1903), 12 - Ext Chiller Room	
04 - Band	30	12" ACT Pinhole Uniform	01 - Classroom 1903, 09 - NW Storage (1903), 10 - N Side, Center Storage(1903), 11 - NE Storage (1903), 13 - Classroom Hallway, 14 - Classroom 1904	
04 - Band	32	Black Mastic (Band)	01 - Classroom 1903, 04 - Office (1903), 05 - Storage 1 (1903), 06 - Storage 2 (1903), 07- Storage 3 (1903), 08 - Uniform Storage (1903), 09 - NW Storage (1903), 10 - N Side, Center Storage(1903), 11 - NE Storage (1903), 13 - Classroom Hallway, 14 - Classroom 1904, 15 - NW Office (1904), 16 - Center Office (1904), 17 - NE Storage (1904)	

Condition Codes

General Condition: (1) Good (2) Damaged (3) Significantly Damaged (Damaged 25% or more)

Change in Condition: (4) No (5) Yes (If yes, explain under comments)

Abated: (6) Repaired (7) Removed (8) Encapsulated (9) Enclosed (10) Isolated & Restricted

Misc: (11) Inaccessible, No surveillance data (12) Other (Explain under comments)

Six Month Surveillance Summary

District: Selma Unified School District

Date:

School: Selma High School

Inspector:

Building	HMR Number	Asbestos Material	Location	Condition Code/Comments
04 - Band	38	12" Vinyl Floor Tile Off-White Oatmeal	13 - Classroom Hallway, 15 - NW Office (1904), 16 - Center Office (1904), 17 - NE Storage (1904)	
04 - Band	39	4" Vinyl Baseboard and Mastic, Brown	16 - Center Office (1904)	
05 - Pool House	15	Concrete	01 - Office 1, 02 - Office 2, 03 - Pool Equipment	
06 - Snack Bar	15	Concrete	01 - Snack Bar	
07 - Boy's Locker Room (1719)	1	12" Vinyl Floor Tile, Grey Oatmeal	08 - Coaches Office, 10 - Coaches Office 2	
07 - Boy's Locker Room (1719)	15	Concrete	01 - Locker Room, 03 - Custodial, 04 - NE Locker Room Alcove, 05 - NW Locker Room Alcove, 06 - Foyer, 07 - Helmet Storage, 12 - Storage, 13 - Exterior Boiler Room	
07 - Boy's Locker Room (1719)	21	Transite Ceiling Panels	01 - Locker Room, 02 - Restroom, 04 - NE Locker Room Alcove, 05 - NW Locker Room Alcove, 06 - Foyer, 07 - Helmet Storage, 08 - Coaches Office, 09 - Coaches RR, 10 - Coaches Office 2, 12 - Storage	
08 - Concessions	15	Concrete	01 - Eastern Laundry Rm	
09 - Gym	15	Concrete	Gym	
09 - Gym	42	12" ACT Pinhole Random	Gym	
10 - Girl's Locker Room (1719)	15	Concrete	01 - Foyer, 02 - Custodial Closet, 06 - Locker Room RR, 08 - Locker Room Main NE, 09 - Varsity Locker Room Center, 10 - Locker Room Main SW, 11 - Equipment 3, 12 - Equipment 1	
11 - Boy's Locker Room (1507)	15	Concrete	01 - Foyer, 02 - Storage 1, 05 - Locker Room Main, 08 - Storage 2, 08 - Storage 3, 09 - Electrical Closet	

Condition Codes

General Condition: (1) Good (2) Damaged (3) Significantly Damaged (Damaged 25% or more)
 Change in Condition: (4) No (5) Yes (If yes, explain under comments)
 Abated: (6) Repaired (7) Removed (8) Encapsulated (9) Enclosed (10) Isolated & Restricted
 Misc: (11) Inaccessible, No surveillance data (12) Other (Explain under comments)

Six Month Surveillance Summary

District: Selma Unified School District

Date:

School: Selma High School

Inspector:

Building	HMR Number	Asbestos Material	Location	Condition Code/Comments
11 - Boy's Locker Room (1507)	21	Transite Ceiling Panels	01 - Foyer, 03 - Restroom, 04 - Shower, 05 - Locker Room Main, 06 - Coaches Office, 07 - Coaches RR, 08 - Storage 2, 08 - Storage 3	
11 - Boy's Locker Room (1507)	38	12" Vinyl Floor Tile Off-White Oatmeal	06 - Coaches Office	
11 - Boy's Locker Room (1507)	45	Black Mastic (Locker Rooms)	06 - Coaches Office	
12 - 1001-1010 Classroom Wing	1	12" Vinyl Floor Tile, Grey Oatmeal	01 - Room 1007, 02 - Room 1005, 03 - Room 1003, 04 - Room 1001 Nurse's Office, 08 - Room 1002, 09 - Room 1004, 10 - Room 1006, 11 - Room 1008, 12 - Room 1010	
12 - 1001-1010 Classroom Wing	15	Concrete	06 - Custodial at Boy's Restroom	
12 - 1001-1010 Classroom Wing	47	12" ACT Pinhole Fissure classroom wing	01 - Room 1007, 02 - Room 1005, 03 - Room 1003, 04 - Room 1001 Nurse's Office, 08 - Room 1002, 09 - Room 1004, 10 - Room 1006, 11 - Room 1008, 12 - Room 1010	
12 - 1001-1010 Classroom Wing	49	Black Mastic (Classrooms)	01 - Room 1007, 02 - Room 1005, 03 - Room 1003, 04 - Room 1001 Nurse's Office, 08 - Room 1002, 09 - Room 1004, 10 - Room 1006, 11 - Room 1008, 12 - Room 1010	
13 - 803-810 Classroom Wing	1	12" Vinyl Floor Tile, Grey Oatmeal	01 - Room 809, 02 - Room 807, 03 - Room 805, 04 - Room 803, 10 - Room 804, 11 - Room 806, 16 - Room 810	
13 - 803-810 Classroom Wing	3	Carpet and Mastic, Grey Multi Color	05 - Break Room North, 08 - Break Room South	
13 - 803-810 Classroom Wing	15	Concrete	07 - Custodial	
13 - 803-810 Classroom Wing	38	12" Vinyl Floor Tile Off-White Oatmeal	12 - 806 Storage 1, 13 - 806 Storage 1 Closet, 14 - 806 Storage 2, 15 - 806 Storage 2 Closet	
13 - 803-810 Classroom Wing	39	4" Vinyl Baseboard and Mastic, Brown	15 - 806 Storage 2 Closet	

Condition Codes

General Condition: (1) Good (2) Damaged (3) Significantly Damaged (Damaged 25% or more)
 Change in Condition: (4) No (5) Yes (If yes, explain under comments)
 Abated: (6) Repaired (7) Removed (8) Encapsulated (9) Enclosed (10) Isolated & Restricted
 Misc: (11) Inaccessible, No surveillance data (12) Other (Explain under comments)

Six Month Surveillance Summary

District: Selma Unified School District

Date:

School: Selma High School

Inspector:

Building	HMR Number	Asbestos Material	Location	Condition Code/Comments
13 - 803-810 Classroom Wing	47	12" ACT Pinhole Fissure classroom wing	01 - Room 809, 02 - Room 807, 03 - Room 805, 04 - Room 803, 05 - Break Room North, 08 - Break Room South, 10 - Room 804, 11 - Room 806, 12 - 806 Storage 1, 13 - 806 Storage 1 Closet, 14 - 806 Storage 2, 16 - Room 810	
13 - 803-810 Classroom Wing	49	Black Mastic (Classrooms)	01 - Room 809, 02 - Room 807, 03 - Room 805, 04 - Room 803, 10 - Room 804, 11 - Room 806, 12 - 806 Storage 1, 13 - 806 Storage 1 Closet, 14 - 806 Storage 2, 15 - 806 Storage 2 Closet, 16 - Room 810	
14 - 602-609 Classroom Wing	15	Concrete	08 - Custodial at Boys RR	
14 - 602-609 Classroom Wing	47	12" ACT Pinhole Fissure classroom wing	07 - Boy's RR	
14 - 602-609 Classroom Wing	49	Black Mastic (Classrooms)	01 - Room 609, 03 - Room 605, 04 - Lab, 05 - Lab Storage, 09 - Room 602, 10 - Room 604, 11 - Room 606, 12 - Room 608, 13 - 608 Storage	
14 - 602-609 Classroom Wing	51	Transite Fume Hood	03 - Room 605, 04 - Lab, 11 - Room 606, 12 - Room 608, 13 - 608 Storage	
15 - 401-410 Classroom Wing	53	Carpet and Mastic, Multi Color	01 - Room 409, 02 - Room 407, 03 - Room 405, 04 - Room 403, 05 - Room 401, 06 - Room 402, 07 - Room 404, 08 - Room 406, 09 - Room 408, 10 - Room 410	
15 - 401-410 Classroom Wing	56	Unit Ventilator	04 - Room 403, 05 - Room 401, 06 - Room 402, 07 - Room 404, 08 - Room 406, 09 - Room 408, 10 - Room 410	
16 - 702 - 706 Classroom Wing	1	12" Vinyl Floor Tile, Grey Oatmeal	04 - Room 705, 05 - Room 703	
16 - 702 - 706 Classroom Wing	15	Concrete	06 - Mechaical Room	
16 - 702 - 706 Classroom Wing	47	12" ACT Pinhole Fissure classroom wing	04 - Room 705, 05 - Room 703	

Condition Codes

General Condition: (1) Good (2) Damaged (3) Significantly Damaged (Damaged 25% or more)
 Change in Condition: (4) No (5) Yes (If yes, explain under comments)
 Abated: (6) Repaired (7) Removed (8) Encapsulated (9) Enclosed (10) Isolated & Restricted
 Misc: (11) Inaccessible, No surveillance data (12) Other (Explain under comments)

Six Month Surveillance Summary

District: Selma Unified School District

Date:

School: Selma High School

Inspector:

Building	HMR Number	Asbestos Material	Location	Condition Code/Comments
16 - 702 - 706 Classroom Wing	53	Carpet and Mastic, Multi Color	01 - Room 702, 02 - Room 704, 03 - Room 706	
16 - 702 - 706 Classroom Wing	58	2'x4' FCP Pinhole Pissure	01 - Room 702, 02 - Room 704, 03 - Room 706	
16 - 702 - 706 Classroom Wing	60	Concealed Floor Tile, White	04 - Room 705, 05 - Room 703	
17 - 901-908 Classroom Wings	47	12" ACT Pinhole Fissure classroom wing	10 - Room 901	
17 - 901-908 Classroom Wings	49	Black Mastic (Classrooms)	01 - Room 902, 10 - Room 901	
17 - 901-908 Classroom Wings	53	Carpet and Mastic, Multi Color	01 - Room 902, 02 - Room 904, 03 - Room 906, 04 - Room 908, 05 - Room 907 C, 06 - Room 907 B, 07 - Room 907, 08 - Room 905, 09 - Room 903, 10 - Room 901	
17 - 901-908 Classroom Wings	60	Concealed Floor Tile, White	01 - Room 902, 10 - Room 901	
18 - 1301-1306 Classroom Wing	27	12" ACT Small Pinhole	01 - Room 1302, 02 - Room 1304, 06 - Room 1303, 07 - Room 1301	
18 - 1301-1306 Classroom Wing	49	Black Mastic (Classrooms)	01 - Room 1302, 07 - Room 1301	
18 - 1301-1306 Classroom Wing	53	Carpet and Mastic, Multi Color	01 - Room 1302, 02 - Room 1304, 03 - Room 1306, 05 - Room 1305, 06 - Room 1303, 07 - Room 1301	
18 - 1301-1306 Classroom Wing	58	2'x4' FCP Pinhole Pissure	03 - Room 1306, 05 - Room 1305	
18 - 1301-1306 Classroom Wing	62	Concealed Tile, Beige	01 - Room 1302, 07 - Room 1301	
19 - 1501-1508 Classroom WIng	1	12" Vinyl Floor Tile, Grey Oatmeal	09 - Server Room	
19 - 1501-1508 Classroom WIng	53	Carpet and Mastic, Multi Color	01 - Room 1502, 02 - Room 1504, 03 - Room 1506, 04 - Room 1508, 05 - Room 1507, 06 - Room 1505, 07 - Room 1503, 08 - Room 1501	

Condition Codes

General Condition: (1) Good (2) Damaged (3) Significantly Damaged (Damaged 25% or more)

Change in Condition: (4) No (5) Yes (If yes, explain under comments)

Abated: (6) Repaired (7) Removed (8) Encapsulated (9) Enclosed (10) Isolated & Restricted

Misc: (11) Inaccessible, No surveillance data (12) Other (Explain under comments)

Six Month Surveillance Summary

District: Selma Unified School District

Date:

School: Selma High School

Inspector:

Building	HMR Number	Asbestos Material	Location	Condition Code/Comments
19 - 1501-1508 Classroom Wing	58	2'x4' FCP Pinhole Pissure	01 - Room 1502, 02 - Room 1504, 03 - Room 1506, 04 - Room 1508, 05 - Room 1507, 06 - Room 1505, 07 - Room 1503, 08 - Room 1501, 09 - Server Room	
20 - Library	39	4" Vinyl Baseboard and Mastic, Brown	03 - Book Storage, 04 - Book Storage Closet	
20 - Library	58	2'x4' FCP Pinhole Pissure	01 - Library (main), 02 - Office 1, 03 - Book Storage, 04 - Book Storage Closet, 05 - Classroom	
20 - Library	66	12" Vinyl Floor Tile, Beige Pebble	03 - Book Storage, 04 - Book Storage Closet	
20 - Library	68	12" ACT Pinhle Uniform	11 - Office 3	
21 - 501-504 Classroom Wing	1	12" Vinyl Floor Tile, Grey Oatmeal	04 - Room 502, 05 - 502 & 504 Closet, 06 - Room 504, 07 - Room 501, 07 - Room 503, 08 - 501 & 503 Closet	
21 - 501-504 Classroom Wing	15	Concrete	02 - Custodial, 05 - HVAC Closet, 06 - HVAC Closet	
21 - 501-504 Classroom Wing	39	4" Vinyl Baseboard and Mastic, Brown	02 - Custodial	
21 - 501-504 Classroom Wing	51	Transite Fume Hood	04 - Room 502, 07 - Room 501	
22 - 304-317 Wing	1	12" Vinyl Floor Tile, Grey Oatmeal	05 - Room 305, 08 - 311 Office, 18 - NE Storage, 19 - Office 1, 20 - Restroom, 21 - Office 2, 22 - Armory closet	
22 - 304-317 Wing	3	Carpet and Mastic, Grey Multi Color	24 - 317 office and vestibule	
22 - 304-317 Wing	15	Concrete	01 - Room 304, 02 - 304 ne closet, 03 - 304 e, center closet, 04 - 304 se closet, 07 - Staff RR, 09 - Room 311, 10 - 311 Storage, 11 - 311 Storage 2, 12 - Staff RR 1, 13 - Staff RR 2, 14 - Room 319, 15 - 319 Storage 1, 16 - 319 Storage 2 (uniforms), 23 - Room 317	
22 - 304-317 Wing	66	12" Vinyl Floor Tile, Beige Pebble	06 - 305 Office	

Condition Codes

General Condition: (1) Good (2) Damaged (3) Significantly Damaged (Damaged 25% or more)

Change in Condition: (4) No (5) Yes (If yes, explain under comments)

Abated: (6) Repaired (7) Removed (8) Encapsulated (9) Enclosed (10) Isolated & Restricted

Misc: (11) Inaccessible, No surveillance data (12) Other (Explain under comments)

Six Month Surveillance Summary

District: Selma Unified School District

Date:

School: Selma High School

Inspector:

Building	HMR Number	Asbestos Material	Location	Condition Code/Comments
22 - 304-317 Wing	71	Drywall, Painted (shop)	02 - 304 ne closet	
22 - 304-317 Wing	73	Black Mastic (Shop)	05 - Room 305, 06 - 305 Office, 08 - 311 Office, 19 - Office 1, 21 - Office 2, 22 - Armory closet	
22 - 304-317 Wing	74	12" ACT Pinhle Fissure (Shop)	05 - Room 305, 06 - 305 Office, 08 - 311 Office, 12 - Staff RR 1, 13 - Staff RR 2, 19 - Office 1, 21 - Office 2	
22 - 304-317 Wing	75	Brown Baseboard Mastic	14 - Room 319	
23 - Ag Classrooms 102, 103	1	12" Vinyl Floor Tile, Grey Oatmeal	08 - 102 Classroom	
23 - Ag Classrooms 102, 103	15	Concrete	02 - 102 Staff RR, 03 - 102 Welding Shop, 05 - Welding Shop Water Heater Closet, 06 - Student Restroom	
23 - Ag Classrooms 102, 103	39	4" Vinyl Baseboard and Mastic, Brown	01 - 102 Office	
23 - Ag Classrooms 102, 103	73	Black Mastic (Shop)	01 - 102 Office, 08 - 102 Classroom	
23 - Ag Classrooms 102, 103	74	12" ACT Pinhle Fissure (Shop)	01 - 102 Office	
23 - Ag Classrooms 102, 103	76	9" Vinyl Floor Tile Beige Streaks	01 - 102 Office	
23 - Ag Classrooms 102, 103	900	Transite Flue Pipe	05 - Welding Shop Water Heater Closet	
24 - Classrooms FCOE 1 & 2	3	Carpet and Mastic, Grey Multi Color	02 - Classroom FCOE 1, 02 - FCOE 1 Office	
24 - Classrooms FCOE 1 & 2	58	2'x4' FCP Pinhole Pissure	02 - Classroom FCOE 1, 02 - FCOE 1 Office, 04 - FCOE 1 RR	
25 - Classroom Wing 2200 - 2209	3	Carpet and Mastic, Grey Multi Color	01 - Room 2208, 02 - Room 2206, 03 - Room 2204, 04 - Room 2202, 05 - Room 2200, 06 - Room 2201, 07 - Room 2203, 08 - Room 2205, 09 - Room 2207, 10 - Room 2209	

Condition Codes

General Condition: (1) Good (2) Damaged (3) Significantly Damaged (Damaged 25% or more)
 Change in Condition: (4) No (5) Yes (If yes, explain under comments)
 Abated: (6) Repaired (7) Removed (8) Encapsulated (9) Enclosed (10) Isolated & Restricted
 Misc: (11) Inaccessible, No surveillance data (12) Other (Explain under comments)

Date Printed: 10/4/2023

Six Month Surveillance Summary

District: Selma Unified School District

Date:

School: Selma High School

Inspector:

Building	HMR Number	Asbestos Material	Location	Condition Code/Comments
26 - Classroom Wing 2301-2310	1	12" Vinyl Floor Tile, Grey Oatmeal	02 - Room 2302 Office	
26 - Classroom Wing 2301-2310	3	Carpet and Mastic, Grey Multi Color	03 - Room 2306, 03 - Room 2310, 04 - Room 2309, 05 - Room 2307, 06 - Room 2305	
26 - Classroom Wing 2301-2310	58	2'x4' FCP Pinhole Pissure	01 - Room 2302, 02 - Room 2302 Office, 03 - Room 2306, 07 - Room 2303, 08 - Room 2301	

Condition Codes

General Condition: (1) Good (2) Damaged (3) Significantly Damaged (Damaged 25% or more)

Change in Condition: (4) No (5) Yes (If yes, explain under comments)

Abated: (6) Repaired (7) Removed (8) Encapsulated (9) Enclosed (10) Isolated & Restricted

Misc: (11) Inaccessible, No surveillance data (12) Other (Explain under comments)

Sample Results

Bulk Material Analysis Request Form

Forensic Analytical Consulting Services, Inc.

Fresno

371 E. Bullard Ave. Suite 109

Fresno, CA 93710-5217

(559) 436 - 0277

FAX: (559) 436 - 0279

Date Submitted: 08/23/23

Contact: Joe Blair

Collected By: Joe Blair

Date(s) Collected: 08/22/23, 08/23/23

Job ID: Selma Unified School District

Job Site: Selma High School

Site Address: 3125 Wright Street, Selma, CA 93662

Analysis Requested: **PLM with Dispersion Staining**

Turn Around Time: **5 DAY**

Laboratory: Forensic Analytical Laboratories, Inc.

Special Instructions: Please email results to
joe.blair@forensicanalytical.com

Project ID / Job No: P76317H

Bill to: Forensic Analytical Consulting Services, Inc.

Sample ID	Material Description / Location
PJ76317H-1A	12" Vinyl Floor Tile, Grey Oatmeal 01 - Admin. 16 - Open Office, Center Comment: W/ Mastic
PJ76317H-1B	12" Vinyl Floor Tile, Grey Oatmeal 22 - 304-317 Wing, 19 - Office 1, South at Entry Comment: W/ Blk Mastic
PJ76317H-1C	12" Vinyl Floor Tile, Grey Oatmeal 22 - 304-317 Wing, 05 - Room 305, East Side, South End Comment: W/ Black Mastic
PJ76317H-1D	12" Vinyl Floor Tile, Grey Oatmeal 16 - 702 - 706 Classroom Wing, 05 - Room 703, North Side, Center
PJ76317H-1E	12" Vinyl Floor Tile, Grey Oatmeal 02 - Cafeteria, 04 - Restroom Vestibule, Center Comment: W/ Black Mastic
PJ76317H-1F	12" Vinyl Floor Tile, Grey Oatmeal 02 - Cafeteria, 03 - Break Room, NE Corner Comment: W/ black mastic
PJ76317H-1G	12" Vinyl Floor Tile, Grey Oatmeal 13 - 803-810 Classroom Wing, 01 - Room 809, North Side West End Comment: W/ Black Mastic
PJ76317H-1H	12" Vinyl Floor Tile, Grey Oatmeal 12 - 1001-1010 Classroom Wing, 09 - Room 1004, North Side center Comment: W/ black mastic
PJ76317H-2A	4" Vinyl Baseboard and Mastic, Blue 02 - Cafeteria, 03 - Break Room, SW corner
PJ76317H-2B	4" Vinyl Baseboard and Mastic, Blue 01 - Admin. 16 - Open Office, S Side Center
PJ76317H-3A	Carpet and Mastic, Grey Multi Color 01 - Admin. 02 - Principal's Office, SW Corner
PJ76317H-3B	Carpet and Mastic, Grey Multi Color 13 - 803-810 Classroom Wing, 05 - Break Room North, North Side Center
PJ76317H-3C	Carpet and Mastic, Grey Multi Color 01 - Admin. 17 - South Vestibule, E Side Center
PJ76317H-3D	Carpet and Mastic, Grey Multi Color 13 - 803-810 Classroom Wing, 08 - Break Room South, North Side Center
PJ76317H-4A	Tackboard and Glue, Off White 12 - 1001-1010 Classroom Wing, 01 - Room 1007, South Side Center
PJ76317H-4B	Tackboard and Glue, Off White 14 - 602-609 Classroom Wing, 10 - Room 604, West side center
PJ76317H-6A	Black Mastic (Admin) 01 - Admin. 02 - Principal's Office, At RR Vestibule Threshold

Submitted By: 

Date Submitted: 8/23/23

Submitted Via: FedEx

Received By: _____

Date Received: / /

Received Via: _____

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AUG 24 2023 1136

BY: 

Ex-8505

Date Printed: 8/23/2023

Bulk Material Analysis Request Form

Forensic Analytical Consulting Services, Inc.

Fresno
371 E. Bullard Ave. Suite 109
Fresno, CA 93710-5217
(559) 436 - 0277
FAX: (559) 436 - 0279

Date Submitted: 08/23/23
Contact: Joe Blair
Collected By: Joe Blair
Date(s) Collected: 08/22/23, 08/23/23

Job ID: Selma Unified School District
Job Site: Selma High School
Site Address: 3125 Wright Street, Selma, CA 93662

Analysis Requested: **PLM with Dispersion Staining**
Turn Around Time: **5 DAY**
Laboratory: Forensic Analytical Laboratories, Inc.
Special Instructions: Please email results to
joe.blair@forensicanalytical.com
Project ID / Job No: P76317H
Bill to: Forensic Analytical Consulting Services, Inc.

Sample ID	Material Description / Location
PJ76317H-7A	1" Blue Ceramic Tile Mosaic 01 - Admin. 03 - Principal's Restroom. S Side Center
PJ76317H-8A	Plaster, Stipple Texture 02 - Cafeteria. 08 - Dry Storage. NE Corner
PJ76317H-8B	Plaster, Stipple Texture 13 - 803-810 Classroom Wing. 07 - Custodial. NW Corner
PJ76317H-8C	Plaster, Stipple Texture 07 - Boy's Locker Room (1719). 07 - Helmet Storage. E Side Center
PJ76317H-8D	Plaster, Stipple Texture 08 - Concessions. 01 - Eastern Laundry Rm. West Wall
PJ76317H-8E	Plaster, Stipple Texture 04 - Band. 06 - Storage 2 (1903). NW Corner
PJ76317H-8F	Plaster, Stipple Texture 04 - Band. 02 - Restroom (1903). Staff RR
PJ76317H-8G	Plaster, Stipple Texture 04 - Band. 07 - Storage 3 (1903). South Wall
PJ76317H-9A	4" Ceramic Tile, Yellow 01 - Admin. 08 - Men's Restroom. At Threshold
PJ76317H-10A	1" Grey Ceramic Tile 01 - Admin. 08 - Men's Restroom. At Threshold
PJ76317H-10B	1" Grey Ceramic Tile 02 - Cafeteria. 12 - Cafeteria Men's RR. At Threshold
PJ76317H-11A	Plaster, Orange Peel Texture 23 - Ag Classrooms 102. 103. 06 - Student Restroom. West side center
PJ76317H-11B	Plaster, Orange Peel Texture 11 - Boy's Locker Room (1507). 02 - Storage 1. East Side North End
PJ76317H-11C	Plaster, Orange Peel Texture 01 - Admin. 11 - Women's Restroom. Above Threshold
PJ76317H-11D	Plaster, Orange Peel Texture 02 - Cafeteria. 12 - Cafeteria Men's RR. Center
PJ76317H-11E	Plaster, Orange Peel Texture 13 - 803-810 Classroom Wing. 12 - 806 Storage 1. At Water Fountain
PJ76317H-11F	Plaster, Orange Peel Texture 02 - Cafeteria. 06 - Women's Restroom. SW Corner

Submitted By: 

Date Submitted: 8/23/23

Submitted Via: FedEx

Received By: _____

Date Received: 1/1

Received Via: _____

Date Printed: 8/23/2023

Bulk Material Analysis Request Form

Forensic Analytical Consulting Services, Inc.

Fresno
371 E. Bullard Ave. Suite 109
Fresno, CA 93710-5217
(559) 436 - 0277
FAX: (559) 436 - 0279

Date Submitted: 08/23/23
Contact: Joe Blair
Collected By: Joe Blair
Date(s) Collected: 08/22/23, 08/23/23

Job ID: Selma Unified School District
Job Site: Selma High School
Site Address: 3125 Wright Street, Selma, CA 93662

Analysis Requested: **PLM with Dispersion Staining**

Turn Around Time: **5 DAY**

Laboratory: Forensic Analytical Laboratories, Inc.

Special Instructions: Please email results to
joe.blair@forensicanalytical.com

Project ID / Job No: P76317H

Bill to: Forensic Analytical Consulting Services, Inc.

Sample ID	Material Description / Location
PJ76317H-11G	Plaster, Orange Peel Texture 22 - 304-317 Wing, 22 - Armory closet, North Side, East End
PJ76317H-13A	4" Ceramic Tile, Pink 01 - Admin, 11 - Women's Restroom, South Side
PJ76317H-14A	9" Vinyl Floor Tile, Grey w/ Yellow 01 - Admin, 24 - Safe, Near Threshold Comment: W/ Black mastic
PJ76317H-17A	12" ACT Pinhle Fissure (Cafeteria) 02 - Cafeteria, 03 - Break Room, East Side Comment: W/ Mastic Puck
PJ76317H-17B	12" ACT Pinhle Fissure (Cafeteria) 02 - Cafeteria, 01 - Cafeteria Space, SE Corner Comment: W/ Mastic Puck
PJ76317H-17C	12" ACT Pinhle Fissure (Cafeteria) 02 - Cafeteria, 11 - Office, Near Threshold
PJ76317H-18A	6" Ceramic Tile, Light Brown 02 - Cafeteria, 02 - Kitchen, NE Corner
PJ76317H-18B	6" Ceramic Tile, Light Brown 02 - Cafeteria, 02 - Kitchen, North Side Near Hallway
PJ76317H-19A	FRP and Glue, Off-White 02 - Cafeteria, 07 - Cold Storage Hallway, North Side East End
PJ76317H-19B	FRP and Glue, Off-White 02 - Cafeteria, 02 - Kitchen, SW Corner
PJ76317H-19C	FRP and Glue, Off-White 06 - Snack Bar, 01 - Snack Bar, South Side center
PJ76317H-23A	4" Ceramic Tile, White 02 - Cafeteria, 12 - Cafeteria Men's RR, South Side Center
PJ76317H-23B	4" Ceramic Tile, White 07 - Boy's Locker Room (1719), 06 - Foyer, West Wall
PJ76317H-24A	4" Vinyl Baseboard and Mastic, Grey 07 - Boy's Locker Room (1719), 08 - Coaches Office, Near Threshold
PJ76317H-24B	4" Vinyl Baseboard and Mastic, Grey 11 - Boy's Locker Room (1507), 08 - Storage 2, South Side, East End
PJ76317H-24C	4" Vinyl Baseboard and Mastic, Grey 03 - Dining Hall, 06 - Custodial, S Side Near Sink
PJ76317H-25A	Tackboard and Glue, Grey 16 - 702 - 706 Classroom Wing, 01 - Room 702, East Side North End

Submitted By: 

Date Submitted: 8/23/23

Submitted Via: FedEx

Received By: _____

Date Received: / /

Received Via: _____

Date Printed: 8/23/2023

Bulk Material Analysis Request Form

Forensic Analytical Consulting Services, Inc.

Fresno
371 E. Bullard Ave. Suite 109
Fresno, CA 93710-5217
(559) 436 - 0277
FAX: (559) 436 - 0279

Date Submitted: 08/23/23
Contact: Joe Blair
Collected By: Joe Blair
Date(s) Collected: 08/22/23, 08/23/23

Job ID: Selma Unified School District
Job Site: Selma High School
Site Address: 3125 Wright Street, Selma, CA 93662

Analysis Requested: **PLM with Dispersion Staining**
Turn Around Time: **5 DAY**
Laboratory: Forensic Analytical Laboratories, Inc.
Special Instructions: Please email results to
joe.blair@forensicanalytical.com
Project ID / Job No: P76317H
Bill to: Forensic Analytical Consulting Services, Inc.

Sample ID	Material Description / Location
PJ76317H-25B	Tackboard and Glue, Grey 18 - 1301-1306 Classroom Wing. 03 - Room 1306. South Side West End
PJ76317H-25C	Tackboard and Glue, Grey 24 - Classrooms FCOE 1 & 2. 02 - Classroom FCOE 1. South side east end. Comment: W drywall
PJ76317H-26A	Drywall, Orange Peel Texture 21 - 501-504 Classroom Wing. 02 - Custodial. NE Corner
PJ76317H-26B	Drywall, Orange Peel Texture 10 - Girl's Locker Room (1719). 03 - Coaches Office. SE Corner
PJ76317H-26C	Drywall, Orange Peel Texture 10 - Girl's Locker Room (1719). 03 - Coaches Office. East Side at Handicap lift
PJ76317H-26D	Drywall, Orange Peel Texture 03 - Dining Hall. 07 - Men's Restroom. S Side Center
PJ76317H-26E	Drywall, Orange Peel Texture 03 - Dining Hall. 03 - Eastern Storage. N Side E End
PJ76317H-26F	Drywall, Orange Peel Texture 03 - Dining Hall. 01 - Dining Hall Area. East Side
PJ76317H-26G	Drywall, Orange Peel Texture 21 - 501-504 Classroom Wing. 05 - 502 & 504 Closet. South Side Center
PJ76317H-27A	12" ACT Small Pinhole 18 - 1301-1306 Classroom Wing. 06 - Room 1303. North Side East End
PJ76317H-27B	12" ACT Small Pinhole 18 - 1301-1306 Classroom Wing. 01 - Room 1302. West Side North End
PJ76317H-27C	12" ACT Small Pinhole 03 - Dining Hall. 02 - Hallway. East End
PJ76317H-29A	Brick & Mortar 03 - Dining Hall. 01 - Dining Hall Area. NE Corner
PJ76317H-30A	12" ACT Pinhole Uniform 04 - Band. 14 - Classroom 1904. Center
PJ76317H-30B	12" ACT Pinhole Uniform 04 - Band. 01 - Classroom 1903. NW Corner
PJ76317H-31A	12" ACT Pinhole Fissure (band) 04 - Band. 04 - Office (1903). NE Corner
PJ76317H-31B	12" ACT Pinhole Fissure (band) 04 - Band. 16 - Center Office (1904). Center. Comment: W/ Mastic Puck

Submitted By: 

Date Submitted: 8/23/23

Submitted Via: Fedex

Received By: _____

Date Received: 1/1

Received Via: _____

Date Printed: 8/23/2023

Bulk Material Analysis Request Form

Forensic Analytical Consulting Services, Inc.

Fresno
371 E. Bullard Ave. Suite 109
Fresno, CA 93710-5217
(559) 436 - 0277
FAX: (559) 436 - 0279

Date Submitted: 08/23/23
Contact: Joe Blair
Collected By: Joe Blair
Date(s) Collected: 08/22/23, 08/23/23

Job ID: Selma Unified School District
Job Site: Selma High School
Site Address: 3125 Wright Street, Selma, CA 93662

Analysis Requested: **PLM with Dispersion Staining**

Turn Around Time: **5 DAY**

Laboratory: Forensic Analytical Laboratories, Inc.

Special Instructions: Please email results to
joe.blair@forensicanalytical.com

Project ID / Job No: P76317H

Bill to: Forensic Analytical Consulting Services, Inc.

Sample ID	Material Description / Location
PJ76317H-33A	12" Vinyl Floor Tile Grey Streaks 14 - 602-609 Classroom Wing. 01 - Room 609. South Side East End
PJ76317H-33B	12" Vinyl Floor Tile Grey Streaks 04 - Band. 11 - NE Storage (1903). Center Comment: W/ Black Mastic
PJ76317H-33C	12" Vinyl Floor Tile Grey Streaks 04 - Band. 09 - NW Storage (1903). Center Comment: W/ Black Mastic
PJ76317H-34A	Carpet and Mastic, Blue Multi 04 - Band. 11 - NE Storage (1903). North side at Threshold
PJ76317H-35A	Fiberglass Pipe Insulation w/ Canvas Wra 12 - 1001-1010 Classroom Wing. 06 - Custodial at Boy's Restroom. North Side Center
PJ76317H-35B	Fiberglass Pipe Insulation w/ Canvas Wra 14 - 602-609 Classroom Wing. 08 - Custodial at Boys RR. West Side Center
PJ76317H-35C	Fiberglass Pipe Insulation w/ Canvas Wra 16 - 702 - 706 Classroom Wing. 06 - Mechanical Room. South Side Center
PJ76317H-35D	Fiberglass Pipe Insulation w/ Canvas Wra 07 - Boy's Locker Room (1719). 13 - Exterior Boiler Room. West Side
PJ76317H-35E	Fiberglass Pipe Insulation w/ Canvas Wra 04 - Band. 12 - Ext Chiller Room. North Side
PJ76317H-36A	3" Pre-Formed Block Insulation 04 - Band. 12 - Ext Chiller Room. North Side
PJ76317H-37A	Hard Elbows 16 - 702 - 706 Classroom Wing. 06 - Mechanical Room. East Side. North End
PJ76317H-37B	Hard Elbows 16 - 702 - 706 Classroom Wing. 06 - Mechanical Room. West Side
PJ76317H-37C	Hard Elbows 22 - 304-317 Wing. 09 - Room 311. North Side West End
PJ76317H-37D	Hard Elbows 04 - Band. 12 - Ext Chiller Room. North Side
PJ76317H-38A	12" Vinyl Floor Tile Off-White Oatmeal 04 - Band. 13 - Classroom Hallway. Center
PJ76317H-38B	12" Vinyl Floor Tile Off-White Oatmeal 04 - Band. 17 - NE Storage (1904). Center Comment: W/ Black Mastic

Submitted By: 

Date Submitted: 8/23/23

Submitted Via: FedEx

Received By: _____

Date Received: 1/1

Received Via: _____

Date Printed: 8/23/2023

Bulk Material Analysis Request Form

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Fresno
371 E. Bullard Ave. Suite 109
Fresno, CA 93710-5217
(559) 436 - 0277
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Date Submitted: 08/23/23
Contact: Joe Blair
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Job ID: Selma Unified School District
Job Site: Selma High School
Site Address: 3125 Wright Street, Selma, CA 93662

Analysis Requested: **PLM with Dispersion Staining**
Turn Around Time: **5 DAY**
Laboratory: Forensic Analytical Laboratories, Inc.
Special Instructions: Please email results to
joe.blair@forensicanalytical.com
Project ID / Job No: P76317H
Bill to: Forensic Analytical Consulting Services, Inc.

Sample ID	Material Description / Location
PJ76317H-38C	12" Vinyl Floor Tile Off-White Oatmeal 13 - 803-810 Classroom Wing, 13 - 806 Storage 1 Closet, Center at Damage Comment: W/ Black mastic
HMS---P76317H-38D	12" Vinyl Floor Tile Off-White Oatmeal 11 - Boy's Locker Room (1507), 06 - Coaches Office, West Side North End Comment: W/ Black Mastic
PJ76317H-39A	4" Vinyl Baseboard and Mastic, Brown 23 - Ag Classrooms 102, 103, 01 - 102 Office, South Side Comment: Brown Mastic
PJ76317H-39B	4" Vinyl Baseboard and Mastic, Brown 20 - Library, 04 - Book Storage Closet, North Side West End Comment: Brown mastic
PJ76317H-39C	4" Vinyl Baseboard and Mastic, Brown 13 - 803-810 Classroom Wing, 15 - 806 Storage 2 Closet, West Side Center Comment: Brown mastic
PJ76317H-40A	CMU 10 - Girl's Locker Room (1719), 04 - Roof Access Closet, West Wall
PJ76317H-40B	CMU 05 - Pool House, 03 - Pool Equipment, NW Corner
PJ76317H-40C	CMU 05 - Pool House, 01 - Office 1, West Wall
PJ76317H-41A	Drywall, Painted 05 - Pool House, 02 - Office 2, N Wall
PJ76317H-41B	Drywall, Painted 05 - Pool House, 01 - Office 1, S Wall
PJ76317H-41C	Drywall, Painted 06 - Snack Bar, 01 - Snack Bar, SE Corner
PJ76317H-41D	Drywall, Painted 19 - 1501-1508 Classroom Wing, 05 - Room 1507, Heater Closet NE Corner
PJ76317H-41E	Drywall, Painted 21 - 501-504 Classroom Wing, 02 - Custodial, Center
PJ76317H-41F	Drywall, Painted 20 - Library, 08 - Staff RR Women, At Threshold
PJ76317H-41G	Drywall, Painted 19 - 1501-1508 Classroom Wing, 04 - Room 1508, Water heater closet N Wall
PJ76317H-43A	12" Vinyl Floor Tile, Brown Oameal 10 - Girl's Locker Room (1719), 03 - Coaches Office, Center

Submitted By: 

Date Submitted: 8/23/23

Submitted Via: Fedex

Received By: _____

Date Received: / /

Received Via: _____

Date Printed: 8/23/2023

Bulk Material Analysis Request Form

Forensic Analytical Consulting Services, Inc.

Fresno
371 E. Bullard Ave. Suite 109
Fresno, CA 93710-5217
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FAX: (559) 436 - 0279

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Job ID: Selma Unified School District
Job Site: Selma High School
Site Address: 3125 Wright Street, Selma, CA 93662

Analysis Requested: **PLM with Dispersion Staining**
Turn Around Time: **5 DAY**
Laboratory: Forensic Analytical Laboratories, Inc.
Special Instructions: Please email results to
joe.blair@forensicanalytical.com
Project ID / Job No: P76317H
Bill to: Forensic Analytical Consulting Services, Inc.

Sample ID	Material Description / Location
PJ76317H-43B	12" Vinyl Floor Tile, Brown Oameal 10 - Girl's Locker Room (1719). 04 - Roof Access Closet, Center
PJ76317H-44A	4" Vinyl Baseboard and Mastic, Black 10 - Girl's Locker Room (1719). 03 - Coaches Office, NE Corner
HMS---P76317H-44B	4" Vinyl Baseboard and Mastic, Black 20 - Library, 05 - Classroom, East Side Center at Entry
PJ76317H-44C	4" Vinyl Baseboard and Mastic, Black 10 - Girl's Locker Room (1719). 04 - Roof Access Closet, East Side North End
PJ76317H-46A	4" Vinyl Baseboard and Mastic, Light Gr 12 - 1001-1010 Classroom Wing, 01 - Room 1007, North Side Center
PJ76317H-47A	12" ACT Pinhole Fissure classroom wing 13 - 803-810 Classroom Wing, 11 - Room 806, East Side north end
PJ76317H-47B	12" ACT Pinhole Fissure classroom wing 13 - 803-810 Classroom Wing, 03 - Room 805, East Side Center Comment: W/ mastic
PJ76317H-47C	12" ACT Pinhole Fissure classroom wing 12 - 1001-1010 Classroom Wing, 04 - Room 1001 Nurse's Office, West Side Center
PJ76317H-47D	12" ACT Pinhole Fissure classroom wing 12 - 1001-1010 Classroom Wing, 09 - Room 1004, East Side Center Comment: W/ Mastic
PJ76317H-47E	12" ACT Pinhole Fissure classroom wing 12 - 1001-1010 Classroom Wing, 10 - Room 1006, South Side center Comment: W/ mastic
PJ76317H-48A	2'x4' FCP Acoustic Texture 15 - 401-410 Classroom Wing, 01 - Room 409, Center
PJ76317H-48B	2'x4' FCP Acoustic Texture 12 - 1001-1010 Classroom Wing, 10 - Room 1006, South Side East End
PJ76317H-48C	2'x4' FCP Acoustic Texture 14 - 602-609 Classroom Wing, 03 - Room 605
PJ76317H-50A	Drywall Knockdown Texture 23 - Ag Classrooms 102, 103, 03 - 102 Welding Shop, North Side
PJ76317H-50B	Drywall Knockdown Texture 23 - Ag Classrooms 102, 103, 03 - 102 Welding Shop, South Side
PJ76317H-50C	Drywall Knockdown Texture 13 - 803-810 Classroom Wing, 11 - Room 806, West Side Center
PJ76317H-52A	Sink Coating Black 14 - 602-609 Classroom Wing, 04 - Lab, East Side at Sink

Submitted By: 

Date Submitted: 8/23/23

Submitted Via: FedEx

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Date Received: / /

Received Via: _____

Date Printed: 8/23/2023

Bulk Material Analysis Request Form

Forensic Analytical Consulting Services, Inc.

Fresno
371 E. Bullard Ave. Suite 109
Fresno, CA 93710-5217
(559) 436 - 0277
FAX: (559) 436 - 0279

Date Submitted: 08/23/23
Contact: Joe Blair
Collected By: Joe Blair
Date(s) Collected: 08/22/23, 08/23/23

Job ID: Selma Unified School District
Job Site: Selma High School
Site Address: 3125 Wright Street, Selma, CA 93662

Analysis Requested: **PLM with Dispersion Staining**

Turn Around Time: **5 DAY**

Laboratory: Forensic Analytical Laboratories, Inc.

Special Instructions: Please email results to
joe.blair@forensicanalytical.com

Project ID / Job No: P76317H

Bill to: Forensic Analytical Consulting Services, Inc.

Sample ID	Material Description / Location
PJ76317H-53A	Carpet and Mastic, Multi Color 19 - 1501-1508 Classroom Wing, 01 - Room 1502, Center
PJ76317H-53B	Carpet and Mastic, Multi Color 17 - 901-908 Classroom Wings, 01 - Room 902, West Side South End Comment: W/ concealed tile and mastic
PJ76317H-53C	Carpet and Mastic, Multi Color 15 - 401-410 Classroom Wing, 09 - Room 408, North Side West end
PJ76317H-54A	Tackboard and Glue, White 15 - 401-410 Classroom Wing, 04 - Room 403, West Side East End
PJ76317H-54B	Tackboard and Glue, White 15 - 401-410 Classroom Wing, 06 - Room 402, East Side South End
PJ76317H-55A	4" Vinyl Baseboard and Mastic, Dark Blu 15 - 401-410 Classroom Wing, 03 - Room 405, North Side East End
PJ76317H-55B	4" Vinyl Baseboard and Mastic, Dark Blu 17 - 901-908 Classroom Wings, 01 - Room 902, North Side Center
PJ76317H-55C	4" Vinyl Baseboard and Mastic, Dark Blu 15 - 401-410 Classroom Wing, 05 - Room 401, North Side East End
PJ76317H-57A	Drywall, Unfinished 20 - Library, 01 - Library (main), East Side North End Above Ceiling Tiles
PJ76317H-57B	Drywall, Unfinished 16 - 702 - 706 Classroom Wing, 06 - Mechanical Room, North Side West End
PJ76317H-59A	Drywall, Medium Texture 16 - 702 - 706 Classroom Wing, 03 - Room 706, North Side West End
PJ76317H-59B	Drywall, Medium Texture 16 - 702 - 706 Classroom Wing, 02 - Room 704, North Side West End
PJ76317H-59C	Drywall, Medium Texture 16 - 702 - 706 Classroom Wing, 01 - Room 702, North Side West End
PJ76317H-60A	Concealed Floor Tile, White 17 - 901-908 Classroom Wings, 10 - Room 901, Center
PJ76317H-61A	Drywall, Orange Peel Texture (1300 wing 18 - 1301-1306 Classroom Wing, 03 - Room 1306, North Side Center
PJ76317H-61B	Drywall, Orange Peel Texture (1300 wing 18 - 1301-1306 Classroom Wing, 02 - Room 1304, North Side Center

Submitted By: 

Date Submitted: 8/23/23

Submitted Via: FedEx

Received By: _____

Date Received: / /

Received Via: _____

Date Printed: 8/23/2023

Bulk Material Analysis Request Form

Forensic Analytical Consulting Services, Inc.

Fresno
371 E. Bullard Ave. Suite 109
Fresno, CA 93710-5217
(559) 436 - 0277
FAX: (559) 436 - 0279

Date Submitted: 08/23/23
Contact: Joe Blair
Collected By: Joe Blair
Date(s) Collected: 08/22/23, 08/23/23

Job ID: Selma Unified School District
Job Site: Selma High School
Site Address: 3125 Wright Street, Selma, CA 93662

Analysis Requested: **PLM with Dispersion Staining**
Turn Around Time: **5 DAY**
Laboratory: Forensic Analytical Laboratories, Inc.
Special Instructions: Please email results to
joe.blair@forensicanalytical.com
Project ID / Job No: P76317H
Bill to: Forensic Analytical Consulting Services, Inc.

Sample ID	Material Description / Location
PJ76317H-61C	Drywall, Orange Peel Texture (1300 wing 18 - 1301-1306 Classroom Wing. 05 - Room 1305, South Side East End
PJ76317H-62A	Concealed Tile, Beige 18 - 1301-1306 Classroom Wing. 01 - Room 1302, East Side Center Comment: Black mastic
PJ76317H-63A	Carpet and Mastic, Grey Squares 20 - Library. 12 - Office 4, SE Corner
PJ76317H-63B	Carpet and Mastic, Grey Squares 20 - Library. 01 - Library (main), South Side Center
PJ76317H-64A	Tackboard and Glue, Tan 20 - Library. 03 - Book Storage, East Side Center
PJ76317H-64B	Tackboard and Glue, Tan 20 - Library. 05 - Classroom, East Side Center
PJ76317H-65A	12" ACT Pinhole Fissure (library) 20 - Library. 12 - Office 4, South Side Center
PJ76317H-65B	12" ACT Pinhole Fissure (library) 20 - Library. 06 - Office 2, South Side Center
PJ76317H-66A	12" Vinyl Floor Tile, Beige Pebble 20 - Library. 04 - Book Storage Closet, West Side Center
PJ76317H-66B	12" Vinyl Floor Tile, Beige Pebble 20 - Library. 04 - Book Storage Closet, West Side North End
PJ76317H-66C	12" Vinyl Floor Tile, Beige Pebble 22 - 304-317 Wing. 06 - 305 Office, North Side Center
PJ76317H-67A	24" VFT White Pebble 20 - Library. 05 - Classroom, North Side East End
PJ76317H-69A	Spray Fireproofing 22 - 304-317 Wing. 01 - Room 304, West Side
PJ76317H-69B	Spray Fireproofing 22 - 304-317 Wing. 01 - Room 304, East Side
PJ76317H-69C	Spray Fireproofing 22 - 304-317 Wing. 01 - Room 304, Center
HMS---P76317H-69D	Spray Fireproofing 22 - 304-317 Wing. 02 - 304 ne closet, Center
PJ76317H-69E	Spray Fireproofing 22 - 304-317 Wing. 09 - Room 311, East Side

Submitted By: 

Date Submitted: 8/23/23

Submitted Via: FedEx

Received By: _____

Date Received: 1/1

Received Via: _____

Date Printed: 8/23/2023

Bulk Material Analysis Request Form

Forensic Analytical Consulting Services, Inc.

Fresno
371 E. Bullard Ave. Suite 109
Fresno, CA 93710-5217
(559) 436 - 0277
FAX: (559) 436 - 0279

Date Submitted: 08/23/23
Contact: Joe Blair
Collected By: Joe Blair
Date(s) Collected: 08/22/23, 08/23/23

Job ID: Selma Unified School District
Job Site: Selma High School
Site Address: 3125 Wright Street, Selma, CA 93662

Analysis Requested: **PLM with Dispersion Staining**
Turn Around Time: **5 DAY**
Laboratory: Forensic Analytical Laboratories, Inc.
Special Instructions: Please email results to
joe.blair@forensicanalytical.com
Project ID / Job No: P76317H
Bill to: Forensic Analytical Consulting Services, Inc.

Sample ID	Material Description / Location
PJ76317H-69F	Spray Fireproofing 22 - 304-317 Wing. 09 - Room 311. Center
PJ76317H-69G	Spray Fireproofing 23 - Ag Classrooms 102, 103, 03 - 102 Welding Shop, West Side
PJ76317H-70A	Window Glazing 23 - Ag Classrooms 102, 103, 03 - 102 Welding Shop, North Windows
PJ76317H-70B	Window Glazing 22 - 304-317 Wing. 01 - Room 304, North Side Center
PJ76317H-70C	Window Glazing 22 - 304-317 Wing. 01 - Room 304, South Side
PJ76317H-70D	Window Glazing 23 - Ag Classrooms 102, 103, 03 - 102 Welding Shop, South wall
PJ76317H-72A	Drywall Knockdown Texture (shop) 22 - 304-317 Wing. 01 - Room 304, North Side
PJ76317H-72B	Drywall Knockdown Texture (shop) 22 - 304-317 Wing. 09 - Room 311, Center
PJ76317H-72C	Drywall Knockdown Texture (shop) 22 - 304-317 Wing. 01 - Room 304, South Side
PJ76317H-74A	12" ACT Pinhle Fissure (Shop) 22 - 304-317 Wing. 05 - Room 305, East Side South End
PJ76317H-74B	12" ACT Pinhle Fissure (Shop) 22 - 304-317 Wing. 12 - Staff RR 1, South Side Center
PJ76317H-74C	12" ACT Pinhle Fissure (Shop) 23 - Ag Classrooms 102, 103, 01 - 102 Office, NW Corner
PJ76317H-76A	9" Vinyl Floor Tile Beige Streaks 23 - Ag Classrooms 102, 103, 01 - 102 Office, West Side Center Comment: Black mastic
PJ76317H-77A	Cement Board 23 - Ag Classrooms 102, 103, 03 - 102 Welding Shop, Northeast Corner
PJ76317H-77B	Cement Board 23 - Ag Classrooms 102, 103, 03 - 102 Welding Shop, SW Corner
PJ76317H-78A	Carpet and Mastic, Brown Multi 24 - Classrooms FCOE 1 & 2, 01 - Classroom FCOE 2, Center
PJ76317H-79A	VSF and Glue Grey Pebble w/ Backing 24 - Classrooms FCOE 1 & 2, 04 - FCOE 1 RR, At threshold

Submitted By: 

Date Submitted: 8/23/23

Submitted Via: FedEx

Received By: _____

Date Received: 1/1

Received Via: _____

Date Printed: 8/23/2023


Bulk Material Analysis Request Form

Forensic Analytical Consulting Services, Inc.

Fresno
371 E. Bullard Ave. Suite 109
Fresno, CA 93710-5217
(559) 436 - 0277
FAX: (559) 436 - 0279

Date Submitted: 08/23/23 Analysis Requested: **PLM with Dispersion Staining**
Contact: Joe Blair Turn Around Time: **5 DAY**
Collected By: Joe Blair Laboratory: Forensic Analytical Laboratories, Inc.
Date(s) Collected: 08/22/23, 08/23/23 Special Instructions: Please email results to
joe.blair@forensicanalytical.com
Job ID: Selma Unified School District Project ID / Job No: P76317H
Job Site: Selma High School Bill to: Forensic Analytical Consulting Services, Inc.
Site Address: 3125 Wright Street, Selma, CA 93662

Sample ID	Material Description / Location
PJ76317H-79B	VSF and Glue Grey Pebble w/ Backing 24 - Classrooms FCOE 1 & 2. 02 - Classroom FCOE 1. North side
PJ76317H-80A	Sink Coating White 24 - Classrooms FCOE 1 & 2. 02 - Classroom FCOE 1. At sink

Submitted By: 

Date Submitted: 8/23/23

Submitted Via: Fed'g

Received By: _____

Date Received: / /

Received Via: _____

Date Printed: 8/23/2023

Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)

NVLAP Lab Code: 101459-0

FACS - Fresno
Joseph Blair
21228 Cabot Blvd.

Hayward, CA 94545

Client ID: FR09
Report Number: B351104
Date Received: 08/24/23
Date Analyzed: 08/31/23
Date Printed: 08/31/23
First Reported: 08/31/23

Job ID/Site: PJ76317; Selma Unified School District Various Sites Selma CA

SGSFL Job ID: FR09
Total Samples Submitted: 169
Total Samples Analyzed: 169

Date(s) Collected:

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PJ76317-1A	12687878						
Layer: Grey Tile			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-1B	12687879						
Layer: Grey Tile			ND				
Layer: Tan Mastic			ND				
Layer: Black Mastic		Chrysotile	5 %				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (Trace)							
PJ76317-1C	12687880						
Layer: Grey Tile			ND				
Layer: Tan/Black Mastic		Chrysotile	Trace				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (Trace)							
PJ76317-1D	12687881						
Layer: Grey Tile			ND				
Layer: Tan Mastic			ND				
Layer: Grey Cementitious Material		Chrysotile	Trace				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (Trace)							
PJ76317-1E	12687882						
Layer: Grey Tile		Chrysotile	3 %				
Layer: Black Mastic		Chrysotile	5 %				
Total Composite Values of Fibrous Components:		Asbestos (3%)					
Cellulose (Trace)							
PJ76317-1F	12687883						
Layer: Grey Tile		Chrysotile	5 %				
Layer: Black Mastic		Chrysotile	5 %				
Total Composite Values of Fibrous Components:		Asbestos (5%)					
Cellulose (Trace)							

Client Name: FACS - Fresno

Report Number: B351104

Date Printed: 08/31/23

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PJ76317-1G	12687884						
Layer: Grey Tile		Chrysotile	5 %				
Layer: Black Mastic		Chrysotile	5 %				
Layer: Grey Cementitious Material		Chrysotile	Trace				
Total Composite Values of Fibrous Components:		Asbestos (5%)					
Cellulose (Trace)							
PJ76317-1H	12687885						
Layer: Grey Tile		Chrysotile	5 %				
Layer: Black Mastic		Chrysotile	5 %				
Total Composite Values of Fibrous Components:		Asbestos (5%)					
Cellulose (Trace)							
PJ76317-2A	12687886						
Layer: Blue Non-Fibrous Material			ND				
Layer: Beige Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-2B	12687887						
Layer: Blue Non-Fibrous Material			ND				
Layer: Beige Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-3A	12687888						
Layer: Multicolored Carpet			ND				
Layer: Tan/Black Mastic		Chrysotile	3 %				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (Trace)	Synthetic (85 %)						
PJ76317-3B	12687889						
Layer: Multicolored Carpet			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)	Synthetic (85 %)						
PJ76317-3C	12687890						
Layer: Multicolored Carpet			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)	Synthetic (85 %)						
PJ76317-3D	12687891						
Layer: Multicolored Carpet			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)	Synthetic (85 %)						

Client Name: FACS - Fresno

Report Number: B351104

Date Printed: 08/31/23

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PJ76317-4A	12687892						
Layer: Off-White Mastic			ND				
Layer: Tan Fibrous Material			ND				
Layer: White Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (95 %)							
PJ76317-4B	12687893						
Layer: Off-White Mastic			ND				
Layer: Tan Fibrous Material			ND				
Layer: White Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (95 %)							
PJ76317-6A	12687894						
Layer: Grey Cementitious Material			ND				
Layer: Black Mastic		Chrysotile	5 %				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (Trace)							
PJ76317-7A	12687895						
Layer: Blue Ceramic Tile			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-8A	12687896						
Layer: White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-8B	12687897						
Layer: White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-8C	12687898						
Layer: Off-White Plaster			ND				
Layer: White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-8D	12687899						
Layer: Grey Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: FACS - Fresno**Report Number:** B351104**Date Printed:** 08/31/23

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PJ76317-8E	12687900						
Layer: White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-8F	12687901						
Layer: Grey Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-8G	12687902						
Layer: Grey Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-9A	12687903						
Layer: White Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-10A	12687904						
Layer: Grey Ceramic Tile			ND				
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-10B	12687905						
Layer: Grey Ceramic Tile			ND				
Layer: Grey Cementitious Material			ND				
Layer: White Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-11A	12687906						
Layer: White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-11B	12687907						
Layer: Grey Plaster			ND				
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: FACS - Fresno

Report Number: B351104

Date Printed: 08/31/23

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PJ76317-11C	12687908						
Layer: Off-White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-11D	12687909						
Layer: Grey Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-11E	12687910						
Layer: Off-White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-11F	12687911						
Layer: Off-White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-11G	12687912						
Layer: Off-White Plaster			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-13A	12687913						
Layer: White Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-14A	12687914						
Layer: Grey Tile		Chrysotile	5 %				
Layer: Black Mastic		Chrysotile	5 %				
Layer: Brown Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (5%)					
Cellulose (Trace)							
PJ76317-17A	12687915						
Layer: Brown Mastic		Chrysotile	2 %				
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (95 %)							

Client Name: FACS - Fresno**Report Number:** B351104**Date Printed:** 08/31/23

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PJ76317-17B	12687916						
Layer: Brown Mastic		Chrysotile	2 %				
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (95 %)							
PJ76317-17C	12687917						
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-18A	12687918						
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-18B	12687919						
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-19A	12687920						
Layer: Grey Cementitious Material			ND				
Layer: Off-White Mastic			ND				
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-19B	12687921						
Layer: White Non-Fibrous Material			ND				
Layer: Off-White Mastic			ND				
Layer: White Drywall			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-19C	12687922						
Layer: Grey Cementitious Material			ND				
Layer: Off-White Mastic			ND				
Layer: White Drywall			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-23A	12687923						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: FACS - Fresno

Report Number: B351104

Date Printed: 08/31/23

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PJ76317-23B	12687924						
Layer: Off-White Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-24A	12687925						
Layer: Grey Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-24B	12687926						
Layer: Grey Non-Fibrous Material			ND				
Layer: Black Mastic			ND				
Layer: White Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-24C	12687927						
Layer: Grey Non-Fibrous Material			ND				
Layer: Off-White Mastic			ND				
Layer: White Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-25A	12687928						
Layer: White Drywall			ND				
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (75 %)							
PJ76317-25B	12687929						
Layer: White Drywall			ND				
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (75 %)							
PJ76317-25C	12687930						
Layer: White Drywall			ND				
Layer: Tan Fibrous Material			ND				
Layer: Off-White Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (75 %)							

Client Name: FACS - Fresno

Report Number: B351104

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PJ76317-26A	12687931						
Layer: White Drywall			ND				
Layer: White Joint Compound			ND				
Layer: Drywall Tape			ND				
Layer: White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (10 %)						
PJ76317-26B	12687932						
Layer: White Drywall			ND				
Layer: White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (10 %)						
PJ76317-26C	12687933						
Layer: Grey Drywall			ND				
Layer: White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (10 %)						
PJ76317-26D	12687934						
Layer: Grey Drywall			ND				
Layer: White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (10 %)						
PJ76317-26E	12687935						
Layer: Grey Drywall			ND				
Layer: White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (10 %)						
PJ76317-26F	12687936						
Layer: Grey Drywall			ND				
Layer: White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (10 %)						
PJ76317-26G	12687937						
Layer: White Drywall			ND				
Layer: White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (10 %)						

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PJ76317-27A	12687938						
Layer: White Drywall			ND				
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (80 %)							
PJ76317-27B	12687939						
Layer: Brown Mastic		Anthophyllite	2 %				
Layer: White Drywall			ND				
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (80 %)							
PJ76317-27C	12687940						
Layer: Brown Mastic			ND				
Layer: White Drywall			ND				
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (80 %)							
PJ76317-29A	12687941						
Layer: Red-Brown Cementitious Material			ND				
Layer: Grey Mortar			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-30A	12687942						
Layer: Brown Mastic		Chrysotile	2 %				
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (80 %)							
PJ76317-30B	12687943						
Layer: Brown Mastic			ND				
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (80 %)							
PJ76317-31A	12687944						
Layer: Brown Mastic			ND				
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (80 %)							

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PJ76317-31B	12687945						
Layer: Brown Mastic			ND				
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (80 %)							
PJ76317-33A	12687946						
Layer: Off-White Tile			ND				
Layer: Grey Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-33B	12687947						
Layer: Off-White Tile			ND				
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-33C	12687948						
Layer: Off-White Tile			ND				
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-34A	12687949						
Layer: Blue Carpet			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace) Synthetic (85 %)							
PJ76317-35A	12687950						
Layer: Yellow Fibrous Material			ND				
Layer: Off-White Woven Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace) Fibrous Glass (95 %) Synthetic (2 %)							
PJ76317-35B	12687951						
Layer: Yellow Fibrous Material			ND				
Layer: Off-White Woven Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace) Fibrous Glass (95 %) Synthetic (2 %)							
PJ76317-35C	12687952						
Layer: Yellow Fibrous Material			ND				
Layer: Off-White Woven Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace) Fibrous Glass (95 %) Synthetic (2 %)							

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PJ76317-35D	12687953						
Layer: Yellow Fibrous Material			ND				
Layer: Off-White Woven Material			ND				
Layer: Silver Foil			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)	Fibrous Glass (95 %)	Synthetic (2 %)					
PJ76317-35E	12687954						
Layer: Yellow Fibrous Material			ND				
Layer: Off-White Woven Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)	Fibrous Glass (95 %)	Synthetic (2 %)					
PJ76317-36A	12687955						
Layer: Grey Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)	Fibrous Glass (30 %)						
PJ76317-37A	12687956						
Layer: Grey Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)	Fibrous Glass (30 %)						
PJ76317-37B	12687957						
Layer: Grey Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)	Fibrous Glass (30 %)						
PJ76317-37C	12687958						
Layer: Grey Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)	Fibrous Glass (30 %)						
PJ76317-37D	12687959						
Layer: Grey Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)	Fibrous Glass (30 %)						
PJ76317-38A	12687960						
Layer: Grey Tile			ND				
Layer: Black Mastic		Chrysotile	5 %				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (Trace)							
PJ76317-38B	12687961						
Layer: Grey Tile			ND				
Layer: Tan Mastic			ND				
Layer: Black Mastic		Chrysotile	5 %				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (Trace)							

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PJ76317-38C	12687962						
Layer: Grey Tile		Chrysotile	2 %				
Layer: Black Mastic		Chrysotile	5 %				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							
HMS---PJ76317-38D	12687963						
Layer: Grey Tile		Chrysotile	2 %				
Layer: Black Mastic		Chrysotile	5 %				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							
PJ76317-39A	12687964						
Layer: Tan Non-Fibrous Material			ND				
Layer: Brown Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-39B	12687965						
Layer: Tan Non-Fibrous Material			ND				
Layer: Brown Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-39C	12687966						
Layer: Tan Non-Fibrous Material			ND				
Layer: Brown Mastic		Chrysotile	2 %				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (Trace)							
PJ76317-40A	12687967						
Layer: Grey Cementitious Material			ND				
Layer: Dark Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-40B	12687968						
Layer: Tan Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-40C	12687969						
Layer: Tan Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PJ76317-41A	12687970						
Layer: White Drywall			ND				
Layer: White Skimcoat/Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (10 %)						
PJ76317-41B	12687971						
Layer: White Drywall			ND				
Layer: White Skimcoat/Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (10 %)						
PJ76317-41C	12687972						
Layer: White Drywall			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)							
PJ76317-41D	12687973						
Layer: White Drywall			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)							
PJ76317-41E	12687974						
Layer: White Drywall			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)							
PJ76317-41F	12687975						
Layer: White Drywall			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)							
PJ76317-41G	12687976						
Layer: White Drywall			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)							
PJ76317-43A	12687977						
Layer: Tan Tile			ND				
Layer: Grey Debris			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PJ76317-43B	12687978						
Layer: Tan Tile			ND				
Layer: Tan Mastic			ND				
Layer: Grey Debris			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-44A	12687979						
Layer: Brown Non-Fibrous Material			ND				
Layer: Off-White Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
HMS---PJ76317-44B	12687980						
Layer: Grey Non-Fibrous Material			ND				
Layer: Off-White Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-44C	12687981						
Layer: Grey Non-Fibrous Material			ND				
Layer: Off-White Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-46A	12687982						
Layer: Grey Non-Fibrous Material			ND				
Layer: Off-White Mastic			ND				
Layer: Brown Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-47A	12687983						
Layer: Brown Mastic			ND				
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (70 %)							
PJ76317-47B	12687984						
Layer: Brown Mastic			ND				
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (70 %)							

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PJ76317-47C	12687985						
Layer: Brown Mastic		Anthophyllite	2 %				
Layer: Off-White Drywall			ND				
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (70 %)							
PJ76317-47D	12687986						
Layer: Brown Mastic			ND				
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (70 %)							
PJ76317-47E	12687987						
Layer: Brown Mastic			ND				
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (70 %)							
PJ76317-48A	12687988						
Layer: Grey Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (35 %) Fibrous Glass (45 %)							
PJ76317-48B	12687989						
Layer: Grey Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (35 %) Fibrous Glass (45 %)							
PJ76317-48C	12687990						
Layer: Grey Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (35 %) Fibrous Glass (45 %)							
PJ76317-50A	12687991						
Layer: White Drywall			ND				
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (10 %)							

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PJ76317-50B	12687992						
Layer: White Drywall			ND				
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (10 %)						
PJ76317-50C	12687993						
Layer: White Drywall			ND				
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (10 %)						
PJ76317-52A	12687994						
Layer: Black Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-53A	12687995						
Layer: Multicolored Carpet			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)	Synthetic (85 %)						
PJ76317-53B	12687996						
Layer: Multicolored Carpet			ND				
Layer: Tan Mastic			ND				
Layer: Off-White Tile			ND				
Layer: Black Mastic		Chrysotile	5 %				
Layer: Grey Non-Fibrous Material			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (Trace)	Synthetic (20 %)						
Comment: Bulk complex sample.							
PJ76317-53C	12687997						
Layer: Multicolored Carpet			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)	Synthetic (85 %)						
PJ76317-54A	12687998						
Layer: White Drywall			ND				
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (60 %)							

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PJ76317-54B	12687999						
Layer: White Drywall			ND				
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (60 %)							
PJ76317-55A	12688000						
Layer: Blue Non-Fibrous Material			ND				
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-55B	12688001						
Layer: Blue Non-Fibrous Material			ND				
Layer: Yellow Mastic			ND				
Layer: Off-White Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-55C	12688002						
Layer: Blue Non-Fibrous Material			ND				
Layer: Yellow Mastic			ND				
Layer: Off-White Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace) Synthetic (Trace)							
PJ76317-57A	12688003						
Layer: White Drywall			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)							
PJ76317-57B	12688004						
Layer: White Drywall			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)							
PJ76317-59A	12688005						
Layer: White Drywall			ND				
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (10 %)							
PJ76317-59B	12688006						
Layer: White Drywall			ND				
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (10 %)							

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PJ76317-59C	12688007						
Layer: White Drywall			ND				
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (10 %)						
PJ76317-60A	12688008						
Layer: Tan Mastic			ND				
Layer: Off-White Tile			ND				
Layer: Black Mastic		Chrysotile	5 %				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (Trace)							
PJ76317-61A	12688009						
Layer: White Drywall			ND				
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (10 %)						
PJ76317-61B	12688010						
Layer: White Drywall			ND				
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (10 %)						
PJ76317-61C	12688011						
Layer: White Drywall			ND				
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (10 %)						
PJ76317-62A	12688012						
Layer: Tan Tile		Chrysotile	3 %				
Layer: Black Mastic		Chrysotile	5 %				
Total Composite Values of Fibrous Components:		Asbestos (3%)					
Cellulose (Trace)							
PJ76317-63A	12688013						
Layer: Blue Carpet with Pad			ND				
Layer: Green Mastic			ND				
Layer: White Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)	Synthetic (85 %)						

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PJ76317-63B	12688014						
Layer: Blue Carpet with Pad			ND				
Layer: Green Mastic			ND				
Layer: Grey Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)	Synthetic (85 %)						
PJ76317-64A	12688015						
Layer: Brown Mastic			ND				
Layer: White Drywall			ND				
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (75 %)							
PJ76317-64B	12688016						
Layer: Brown Mastic			ND				
Layer: White Drywall			ND				
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (75 %)							
PJ76317-65A	12688017						
Layer: White Drywall			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)							
PJ76317-65B	12688018						
Layer: White Drywall			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)							
PJ76317-66A	12688019						
Layer: Beige Tile		Chrysotile	3 %				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (3%)					
Cellulose (Trace)							
PJ76317-66B	12688020						
Layer: Beige Tile		Chrysotile	3 %				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (3%)					
Cellulose (Trace)							

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PJ76317-66C	12688021						
Layer: Beige Tile			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-67A	12688022						
Layer: Off-White Sheet Flooring			ND				
Layer: Black Non-Fibrous Backing			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-69A	12688023						
Layer: Tan Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (95 %)							
PJ76317-69B	12688024						
Layer: Tan Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (95 %)							
PJ76317-69C	12688025						
Layer: Tan Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (95 %)							
HMS---PJ76317-69D	12688026						
Layer: Tan Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (95 %)							
PJ76317-69E	12688027						
Layer: Tan Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (95 %)							
PJ76317-69F	12688028						
Layer: Tan Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (95 %)							
PJ76317-69G	12688029						
Layer: Tan Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (95 %)							

Client Name: FACS - Fresno

Report Number: B351104

Date Printed: 08/31/23

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PJ76317-70A	12688030						
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-70B	12688031						
Layer: Light Blue Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-70C	12688032						
Layer: Light Blue Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-70D	12688033						
Layer: Light Blue Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
PJ76317-72A	12688034						
Layer: White Drywall			ND				
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (10 %)							
PJ76317-72B	12688035						
Layer: White Drywall			ND				
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (10 %)							
PJ76317-72C	12688036						
Layer: White Drywall			ND				
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (10 %)							
PJ76317-74A	12688037						
Layer: Brown Mastic		Chrysotile	2 %				
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (95 %)							

Client Name: FACS - Fresno

Report Number: B351104

Date Printed: 08/31/23

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PJ76317-74B	12688038						
Layer: Brown Mastic		Chrysotile	2 %				
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (95 %)							
PJ76317-74C	12688039						
Layer: Brown Mastic		Chrysotile	2 %				
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (95 %)							
PJ76317-76A	12688040						
Layer: Tan Tile		Chrysotile	5 %				
Layer: Black Mastic		Chrysotile	5 %				
Total Composite Values of Fibrous Components:		Asbestos (5%)					
Cellulose (Trace)							
PJ76317-77A	12688041						
Layer: Beige Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (10 %)	Synthetic (10 %)						
PJ76317-77B	12688042						
Layer: Beige Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (10 %)	Synthetic (10 %)						
PJ76317-78A	12688043						
Layer: Multicolored Carpet			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)	Synthetic (85 %)						
PJ76317-79A	12688044						
Layer: Grey Sheet Flooring			ND				
Layer: Fibrous Backing			ND				
Layer: Beige Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (5 %)	Synthetic (10 %)					
PJ76317-79B	12688045						
Layer: Grey Sheet Flooring			ND				
Layer: Fibrous Backing			ND				
Layer: Beige Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (5 %)	Synthetic (10 %)					

Client Name: FACS - Fresno

Report Number: B351104

Date Printed: 08/31/23

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PJ76317-80A	12688046						
Layer: Off-White Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (10 %)							



Maria Cosper, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by SGS Forensic Laboratories (SGSFL) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGSFL to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGSFL. The client is solely responsible for the use and interpretation of test results and reports requested from SGSFL. This report must not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government. SGSFL is not able to assess the degree of hazard resulting from materials analyzed. SGS Forensic Laboratories reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

FACS Personnel and SGS Laboratory Certifications

DEPARTMENT OF INDUSTRIAL RELATIONS

Division of Occupational Safety and Health-Asbestos Certification

1750 Howe Avenue, Suite 460

Sacramento, CA 95825

(916) 574-2993 Office <http://www.dir.ca.gov/dosh/asbestos.html> actu@dir.ca.gov

008186824C

461

463

December 22, 2022

Tyler J Faison
3417 Switzer Avenue
Modesto CA 95350

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. Your certification card number has changed to reflect the year you were first certified. If you have any questions regarding this matter please email our office and we will be happy to answer any questions. To maintain your certification, you must abide by the rules printed on the back of the certification card.

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please contact our office at the above address or email w any changes in your contact/ mailing information within 15 days of the change.

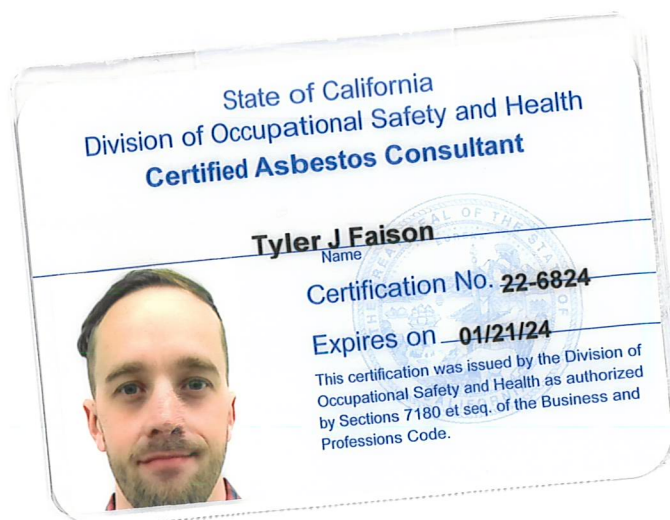
Sincerely,

Jeff Ferrell
Senior Safety Engineer

Attachment: Certification Card

cc: File

Renewal – Card Attached



Forensic Analytical Consulting Services, Inc.

This is to confirm that

Tyler Faison

Has attended the four-hour

AHERA Refresher Course for Asbestos Inspectors

And has completed the requisite training for

asbestos accreditation under TSCA Title II

September 05, 2023

Certificate Number: FACSBIR1519

Valid Until: 9/05/24

Cal/OSHA Approval Number: CA-025-06



Fred J. Vinciguerra, Chief Executive Officer
Forensic Analytical Consulting Services, Inc.
21228 Cabot Blvd, Hayward, CA 94545
(800) 677-1483

Forensic Analytical Consulting Services, Inc.

This is to confirm that

Tyler Faison

Has attended the four-hour

AHERA Refresher Course for Management Planners

And has completed the requisite training for

asbestos accreditation under TSCA Title II

September 05, 2023

Certificate Number: FACSMPR0958

Valid Until: 9/05/24

Cal/OSHA Approval Number: CA-025-08



Fred J. Vinciguerra, Chief Executive Officer
Forensic Analytical Consulting Services, Inc.
21228 Cabot Blvd, Hayward, CA 94545
(800) 677-1483

DEPARTMENT OF INDUSTRIAL RELATIONS

Division of Occupational Safety and Health-Asbestos Certification

1750 Howe Avenue, Suite 460

Sacramento, CA 95825

(916) 574-2993 Office <http://www.dir.ca.gov/dosh/asbestos.html> actu@dir.ca.gov

209237228C

474

Forensic Analytical Consulting Services, Inc.**Joseph T. Blair****371 E Bullard Ave, #109****Fresno CA 93710****February 06, 2023**

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, you must abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please contact our office at the above address or email w any changes in your contact/mailing information within 15 days of the change.

Sincerely,

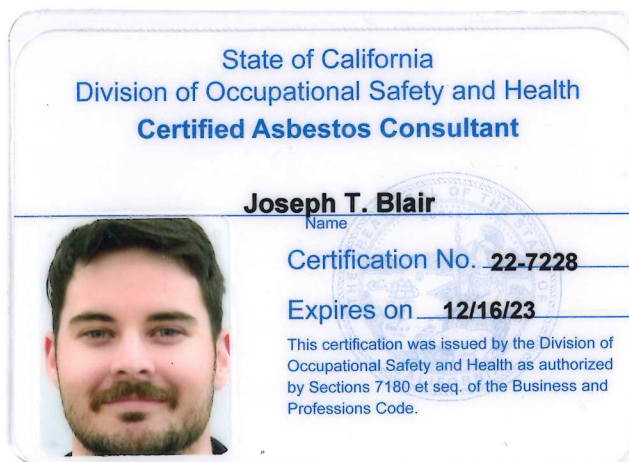
Eric Berg

Eric Berg
Deputy Chief of Health

Attachment: Certification Card

cc: File

Renewal – Card Attached



Forensic Analytical Consulting Services, Inc.

This is to confirm that

Joseph Blair

Has attended the four-hour

AHERA Refresher Course for Asbestos Inspectors

And has completed the requisite training for

asbestos accreditation under TSCA Title II

September 05, 2023

Certificate Number: FACSBIR1512

Valid Until: 9/05/24

Cal/OSHA Approval Number: CA-025-06



A handwritten signature in blue ink, which appears to read "Fred J. Vinciguerra", is positioned above the printed name.

Fred J. Vinciguerra, Chief Executive Officer
Forensic Analytical Consulting Services, Inc.
21228 Cabot Blvd, Hayward, CA 94545
(800) 677-1483

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 101459-0

SGS Forensic Laboratories

Hayward, CA

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2022-07-01 through 2023-06-30

Effective Dates



A handwritten signature in blue ink, reading "Dana S. Laman".

For the National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

SGS Forensic Laboratories

3777 Depot Road, Suite 409

Hayward, CA 94545-2761

Mr. Steven Takahashi

Phone: 310-294-4365 Fax: 310-764-1136

Email: steven.takahashi@sgs.com

<http://www.falaboratories.com>

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 101459-0

Bulk Asbestos Analysis

Code

Description

18/A01

EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples

18/A03

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

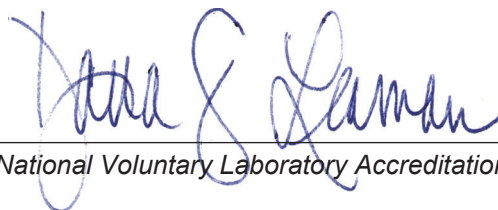
Airborne Asbestos Analysis

Code

Description

18/A02

U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.



For the National Voluntary Laboratory Accreditation Program

Abatement Records


Project Manager's Daily Log

Date: August 14, 2023 Project Number: PJ78195 FACS Representative on Site: SB

Client: Selma Unified School District Contact: Selma Unified School District
Phone: 559-898-6500 Fax: _____
Project (Site): Selma High School Work Location: Admin Building



Contractor: Cencal Services Inc. Number of Personnel on Site: 3
Phone: (559) 291-3366 Fax: (559) 291-3369
Other Contact Info: none

Number of Asbestos Samples Collected: PCM: 1 TEM: _____ BULK: _____ OTHER: _____
Number of Lead Samples Collected: A-AIR: _____ P-AIR: _____ BULK: _____ WIPE: _____ OTHER: _____
Start Time: 0600 End Time: 1330

Time	Detail of Work
0600	Forensic Analytical Consulting Services (FACS) Sean Baker, Joe Blair arrives on site along with Cencal Services Inc.,
0630	<p>Crews go over the scope of work and agree on containment set up of drop poly on the walls and floor of each office space.</p>  <p>(picture of drop poly on wall and office equipment)</p>
0730	All drop poly is in place in all areas. Cencal crew asks for a pre-start visual. FACS observes drop poly on walls and floors, with a HEPA vacuum, and a mobile hygiene station. The entire administration area is regulated with caution tape. FACS passes pre-start visual.
0800	Cencal workers don full personal protective equipment (PPE) before entering the regulated area. Full PPE includes disposable coveralls with booties and hoods, hard hats, gloves, and tight fitting, qualitatively fit tested half face negative pressure respirators with magenta P-100 HEPA cartridges. Furthermore, all workers on ladders will maintain three points of contact at all times. FACS begins


Project Manager's Daily Log

Date: August 14, 2023 Project Number: PJ78195 FACS Representative on Site: SB

Time	Detail of Work
	<p>daily air monitoring and will move the sampling train with the crew as they work within different spaces.</p>  <p>(picture of air monitoring pump)</p>
0830	Cencal removes tiles with pucks intact and wet materials before putting into poly bags and sealing bags with goose neck. No disturbance to mastic pucks is observed.
0955	Cencal workers have finished with the southern end of the admin building and have requested FACS to do a final visual. FACS Joe Blair has noted that all materials have been removed from the containment area per scope of work. Cencal wet wiped, and HEPA vacuumed all surfaces within work area. FACS observes no three-dimensional dust or debris visible within the containment. Final visual pass by FACS.
1050	Cencal crew continues to remove ACT with pucks intact and bagging with goose neck seals.
1230	<p>Cencal workers have finished with all areas in the admin building and have requested FACS to do a final visual. FACS Joe Blair has noted that all materials have been removed from the containment area per scope of work. Cencal wet wiped, and HEPA vacuumed all surfaces within work area. FACS observes no three-dimensional dust or debris visible within the containment. Final visual pass by FACS.</p> 

Project Manager's Daily Log

Date: August 14, 2023 Project Number: PJ78195 FACS Representative on Site: SB

Time	Detail of Work
	 (pictures of removed tiles and no debris on the carpet floors)
1300	All areas to be abated are finished and have passed final visual by certified FACS personnel.



Sean Baker

Airborne Sample Analysis Request Form

August 14, 2023

Joe Blair

Date: _____
 Collected by: Joe Blair
 Date Collected: 08/14/2023
 Laboratory: SGS Forensics

Contact Name: _____
 Bill: FR09
 Type of Analysis: _____
 Turn Around Time: Other: 2 DAY
48hr

Job ID: PJ78195
 Job Site: Selma Unified School District - Selma High School
 Special: _____
 Instructions: _____
 Send Results: Joe.blair@forensicanalytical.com

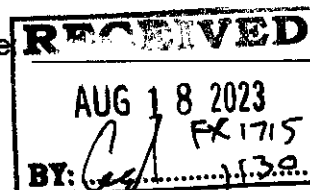
Sample ID	Sample Location & Activity	Rotometer & Pump ID	Time		Flow Rate (L/min)		Total Volume (L)
PJ78195-DA01	Admin Building – Various locations	LV21	On:	0800	On:	2.0	450 L
			Off:	1145	Off:	2.0	
			Total:	225 Mins	Avg:	2.0	
			On:		On:		
			Off:		Off:		
			Total:		Avg:		
			On:		On:		
			Off:		Off:		
			Total:		Avg:		
			On:		On:		
			Off:		Off:		
			Total:		Avg:		
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			Total:		Avg:		
			On:		On:		
			Off:		Off:		
			Total:		Avg:		

Submitted By: [Signature]

Date: 8/14/2023

Received By: _____

Date: _____





Airborne Fiber Analysis

NIOSH 7400 Method, Issue 3, 14 June 2019, counting rules 'A'

FACS - Fresno
Joseph Blair
21228 Cabot Blvd.

Hayward, CA 94545

Client ID: FR09
Report Number: A308977
Date Received: 08/18/23
Date Analyzed: 08/21/23
Date Printed: 08/21/23
First Reported: 08/21/23

Job ID/Site: PJ78195; Selma Unified School District Selma High School 3125 Wright St
Selma CA 93662

SGSFL Job ID: FR09
Total Samples Submitted: 1
Total Samples Analyzed: 1

Sample ID	Lab Number	Date Collected	Volume (L)	Fibers	Fields	Fibers/mm ²	LOD F/cc	Fibers/cc
PJ78195-DA01	12686891	08/14/23	450.0	18.0	100	23.8	0.006	0.020

Maria Casper, Laboratory Supervisor, Hayward Laboratory

Intralaboratory Relative Standard Deviation (Sr) per 100 graticule fields: 5 to 20 fibers: 0.19; >20 to 50 fibers: 0.17; >50 fibers: 0.20

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Note* Sampling data used in this report was provided by the client as noted on the associated chain of custody form.

Forensic Analytical Consulting Services, Inc.

Abbreviations

The following list includes most of the abbreviations you may find within this report.

<u>ACT:</u>	Acoustic Ceiling/Wall Tile
<u>B-I-I:</u>	Blown-In-Insulation
<u>BLR:</u>	Boiler
<u>C'Ing</u>	Ceiling
<u>Carp:</u>	Carpet
<u>Carp&Mast</u>	Carpet and Mastic
<u>Bsbrd&Glue</u>	Baseboard and Glue
<u>DIP:</u>	Drop In Panel
<u>DIT:</u>	Drop In Tile
<u>FCP:</u>	False Ceiling Panel
<u>FRP:</u>	Fiberglass Reinforced Plastic
<u>FG:</u>	Fiberglass
<u>HMR #:</u>	Homogeneous Material Number
<u>HTR:</u>	Heater
<u>LINO:</u>	Linoleum
<u>MISC</u>	Miscellaneous
<u>PW:</u>	Pipe Wrap
<u>S-O-C:</u>	Sprayed-On Ceiling
<u>SOFP:</u>	Sprayed on Fire Proofing
<u>S-O-W:</u>	Sprayed-On Wall
<u>SURF:</u>	Surfacing
<u>T-O-C:</u>	Troweled-On Ceiling
<u>T-O-W:</u>	Troweled-On Wall
<u>TSI:</u>	Thermal System Insulation
<u>VFT:</u>	Vinyl Floor Tile
<u>W & C:</u>	Walls and Ceilings

Forensic Analytical Consulting Services, Inc.
Selma Unified School District **Selma High School**

August 11, 2023

This report is broken into four main sections:

1. This Cover Letter, which is a brief summary of the suspect materials found during the inspection.
2. A Functional Space Notes (FSN) report, which is a room by room breakdown of all materials found during the inspection. The FSN is the report that is most useful for creating demolition or renovation specifications, or for notifying contractors who are working on site.
3. A Homogeneous Material Record (HMR), which is a material by material breakdown of all materials found during the inspection that are suspected to contain asbestos. This HMR satisfies the EPA's AHERA regulations for listing asbestos-containing materials. It can, also, be useful when planning renovation/demolition projects, especially those that will have all asbestos-containing materials removed.
4. The Form C Assessments are case by case assessments. This includes required response action options for all friable asbestos containing materials, all friable assumed (to contain asbestos) materials, and all Thermal System Insulation (TSI) found during the inspection. These assessments have response action dates that have been left blank. The Designated Person for your Local Education Agency (LEA) should place dates into these forms that are reasonable for the district to meet.

Also, included in this report, you will find FAC's Special Notes page concerning possible problems with drywall sampling and renovation/demolition projects, and a list of commonly used abbreviations that are found throughout the reports noted above.

Forensic Analytical Consulting Services, Inc.

Selma Unified School District Selma High School

August 11, 2023

At this site, Selma High School, all non-friable materials listed below were inspected and were found to be in good condition. These materials will remain non-friable as long as they are not sanded, drilled, cut or otherwise abused so that a powder is produced. Removal of these materials will require an asbestos abatement contractor, in most cases.

12" ACT Pinhle Fissure (Admin) — MISC — 2 %	12" ACT Pinhle Fissure (Cafeteria) — MISC — 2 %
12" ACT Pinhle Fissure (Shop) — MISC — 2 %	12" ACT Pinhle Uniform — MISC — Assumed
12" ACT Pinhole Fissure classroom wing — MISC — 2 %	12" ACT Pinhole Random — MISC — Assumed
12" ACT Pinhole Uniform — MISC — 2 %	12" ACT Small Pinhole — MISC — 2 %
12" Vinyl Floor Tile Off-White Oatmeal — MISC — 5 %	12" Vinyl Floor Tile, Beige Pebble — MISC — 3 %
12" Vinyl Floor Tile, Grey Oatmeal — MISC — 5 %	12" Vinyl Floor Tile, Grey Oatmeal (Caf) — MISC — Assumed
2'x4' FCP Pinhole Pissure — MISC — Assumed	4" Vinyl Baseboard and Mastic, Brown — MISC — 2 %
6" Ceramic Tile, Grey — MISC — Assumed	9" Vinyl Floor Tile Beige Streaks — MISC — 5 %
9" Vinyl Floor Tile, Grey w/ Yellow — MISC — 5 %	Black Mastic (Admin) — MISC — 5 %
Black Mastic (Band) — MISC — Assumed	Black Mastic (Cafeteria) — MISC — Assumed
Black Mastic (Classrooms) — MISC — Assumed	Black Mastic (Locker Rooms) — MISC — Assumed
Black Mastic (Shop) — MISC — Assumed	Brown Baseboard Mastic — MISC — Assumed
Carpet and Mastic, Grey Multi Color — MISC — 3 %	Carpet and Mastic, Multi Color — MISC — 5 %
Concealed Floor Tile, White — MISC — 5 %	Concealed Tile, Beige — MISC — 5 %
Concrete — MISC — Assumed	Drywall, Painted (shop) — MISC — Assumed
Pipe Insulation — TSI — Assumed	Transite Ceiling Panels — MISC — Known
Transite Flue Pipe — MISC — Known	Transite Fume Hood — MISC — Known
Unit Ventilator — MISC — Assumed	

Forensic Analytical Consulting Services, Inc.

Selma Unified School District Selma High School

August 11, 2023

The following non-friable thermal system insulation (TSI) materials were found at this site. Even though these materials are technically friable by definition, they may be treated as non-friable materials as long as they remain in an intact condition. A Form C and an evaluation sheet are included for these materials.

Pipe Insulation	— TSI — Assumed	01 - Admin	— 10 - Custodial Closet
-----------------	-----------------	------------	-------------------------

The following friable asbestos-containing materials were noted at this site. Friable materials are those that can release asbestos fibers with a minimum of contact or disturbance. Friable asbestos-containing materials can only be handled by an asbestos abatement contractor. Evaluation sheets and Form Cs are provided for the materials listed.

2'x4' FCP Pinhole Pissure	— MISC — Assumed	18 - 1301-1306 Classroom Wing	— 03 - Room 1306
2'x4' FCP Pinhole Pissure	— MISC — Assumed	18 - 1301-1306 Classroom Wing	— 05 - Room 1305
2'x4' FCP Pinhole Pissure	— MISC — Assumed	19 - 1501-1508 Classroom Wing	— 01 - Room 1502
2'x4' FCP Pinhole Pissure	— MISC — Assumed	19 - 1501-1508 Classroom Wing	— 02 - Room 1504
2'x4' FCP Pinhole Pissure	— MISC — Assumed	19 - 1501-1508 Classroom Wing	— 03 - Room 1506
2'x4' FCP Pinhole Pissure	— MISC — Assumed	19 - 1501-1508 Classroom Wing	— 04 - Room 1508
2'x4' FCP Pinhole Pissure	— MISC — Assumed	19 - 1501-1508 Classroom Wing	— 05 - Room 1507
2'x4' FCP Pinhole Pissure	— MISC — Assumed	19 - 1501-1508 Classroom Wing	— 06 - Room 1505
2'x4' FCP Pinhole Pissure	— MISC — Assumed	19 - 1501-1508 Classroom Wing	— 07 - Room 1503
2'x4' FCP Pinhole Pissure	— MISC — Assumed	19 - 1501-1508 Classroom Wing	— 08 - Room 1501
2'x4' FCP Pinhole Pissure	— MISC — Assumed	19 - 1501-1508 Classroom Wing	— 09 - Server Room
2'x4' FCP Pinhole Pissure	— MISC — Assumed	20 - Library	— 01 - Library (main)
2'x4' FCP Pinhole Pissure	— MISC — Assumed	20 - Library	— 02 - Office 1
2'x4' FCP Pinhole Pissure	— MISC — Assumed	20 - Library	— 03 - Book Storage

Forensic Analytical Consulting Services, Inc.

Selma Unified School District Selma High School

August 11, 2023

2'x4' FCP Pinhole Pissure — MISC — Assumed	20 - Library	— 04 - Book Storage Closet
2'x4' FCP Pinhole Pissure — MISC — Assumed	20 - Library	— 05 - Classroom
2'x4' FCP Pinhole Pissure — MISC — Assumed	24 - Classrooms FCOE 1 & 2	— 02 - Classroom FCOE 1
2'x4' FCP Pinhole Pissure — MISC — Assumed	24 - Classrooms FCOE 1 & 2	— 02 - FCOE 1 Office
2'x4' FCP Pinhole Pissure — MISC — Assumed	24 - Classrooms FCOE 1 & 2	— 04 - FCOE 1 RR
2'x4' FCP Pinhole Pissure — MISC — Assumed	26 - Classroom Wing 2301-2310	— 01 - Room 2302
2'x4' FCP Pinhole Pissure — MISC — Assumed	26 - Classroom Wing 2301-2310	— 02 - Room 2302 Office
2'x4' FCP Pinhole Pissure — MISC — Assumed	26 - Classroom Wing 2301-2310	— 03 - Room 2306
2'x4' FCP Pinhole Pissure — MISC — Assumed	26 - Classroom Wing 2301-2310	— 07 - Room 2303
2'x4' FCP Pinhole Pissure — MISC — Assumed	26 - Classroom Wing 2301-2310	— 08 - Room 2301

See "Special Notes" section concerning drywall sampling and renovations/demolitions. This page contains valuable information which must be considered before any alterations, modernization, renovations or demolitions occur.

Following the "Special Notes" and "Abbreviations" pages you will find the "Homogeneous Materials Record (HMR)". The HMR lists each suspect material (asbestos-containing or not), sample numbers, the location of the material in each building, the percent asbestos of each suspect material, the approximate square footage of each material in these locations and the friability of the material. When you use the HMR sheets you can pick a material and then go through the list and note every location where that material is located.

All materials not identified in this report that are discovered at the site must be assumed to contain asbestos until sampled and proven otherwise. Although there may be materials that have been excluded from the AHERA Management Plan by a letter stating it is non-asbestos-containing, the EPA's "National Emission Standards for Hazardous Air Pollutants (NESHAP)" does not allow for materials to be considered non-asbestos through the use of written documentation. This makes it necessary to bulk sample materials to prove they are non-asbestos-containing prior to renovations, demolitions and modernizations, no matter when they were installed.

Be sure to add this report to your management plan at the facilities office.

Date Printed: 10/4/2023

**ASBESTOS HAZARD EMERGENCY RESPONSE ACT (AHERA)
GENERAL DATA
(FORM A)**

Inspection Date: August 11, 2023

LOCAL EDUCATION AGENCY				COUNTY	
Selma Unified School District					
SCHOOL NAME				SCHOOL PHONE NUMBER	
Selma High School				(559) 898 - 6550	
ADDRESS (Number)		(Street)	(City)	(State)	(Zip)
3125 South Wright Street			Selma	CA	93662
CDS CODE*	SCHOOL ENROLLMENT*		NO. SCHOOL EMPLOYEES*		NO. BUILDINGS AT SCHOOL
10-62430-1036672	1		0		0

LEA AHERA DESIGNEE

NAME			PHONE NUMBER		
Marty Hooton			(559) 898 - 6500		
ADDRESS (Number)		(Street)	(City)	(State)	(Zip)
3036 Thompson Avenue			Selma	CA	93662
TRAINING COURSE(S) AND DATE(S)					

TOTAL TRAINING HOURS

0

MANAGEMENT PLANNER

NAME			PHONE NUMBER		
Tyler Faison			(209) 551 - 2000		
ADDRESS (Number)		(Street)	(City)	(State)	(Zip)
313 Banner Court, STE B			Modesto	CA	95356
ACCREDITATION NUMBER		TRAINING AGENCY			
FACSMR0854		FACS, Inc.			

DOCUMENTS ATTACHED (CHECK APPROPRIATE BOXES)

<input checked="" type="checkbox"/> Record of Friable and Non-Friable ACBM (Form B)	<input checked="" type="checkbox"/> Physical and Hazard Assessment of Friable ACBM or Friable Assumed ACBM (Form C)	<input checked="" type="checkbox"/> Operations and Maintenance Program	<input checked="" type="checkbox"/> Periodic Surveillance Plan
<input checked="" type="checkbox"/> Reinspection Plan (Form F)	<input checked="" type="checkbox"/> Parent/Employee Notification	<input checked="" type="checkbox"/> Resources Needed (Form H)	

We certify that the general Local Education Agency (LEA) responsibilities, as stipulated by 40 CFR Part 763, have been met or will be met and that this Management Plan includes all buildings at this school.

MANAGEMENT PLANNER SIGNATURE	DATE
LEA DESIGNEE SIGNATURE	DATE
LEA SUPERINTENDENT SIGNATURE	DATE

Date Printed: 10/4/2023

RECORD OF FRIABLE AND NONFRIABLE ACM (FORM B)

Inspection Date: August 11, 2023

					CDS CODE 10-62430-1036672	
SCHOOL Selma High School					SCHOOL PHONE NUMBER (559) 898 - 6550	
ADDRESS	(Number)	(Street)	(City)	(State)	(Zip)	
3125 South Wright Street			Selma	CA	93662	

- IMPORTANT -

Each building and functional space with friable ACBM or friable assumed ACBM listed on this form requires completion of FORM C (PHYSICAL AND HAZARD ASSESSMENT OF FRIABLE ACBM OR FRIABLE ASSUMED ACBM). Indicate location of material on blueprint, diagram or narrative in square or linear feet, and attach a copy (Sec. 763.93).

LINE	BUILDING NAME & FUNCTIONAL SPACE <i>(Indicate Address if Different From Above)</i>	CHECK ONE			CHECK ONE			
		SUR-FACING	TSI	MISC	ACBM		ASSUMED ACBM	
					FRIABLE	NON-FRIABLE	FRIABLE	NON-FRIABLE
1.	01 - Admin - 12" Vinyl Floor Tile, Grey Oatmeal			X		X		
2.	01 - Admin - Carpet and Mastic, Grey Multi Color			X		X		
3.	01 - Admin - 12" ACT Pinhle Fissure (Admin)			X		X		
4.	01 - Admin - Black Mastic (Admin)			X		X		
5.	01 - Admin - Pipe Insulation		X					X
6.	01 - Admin - 9" Vinyl Floor Tile, Grey w/ Yellow			X		X		
7.	01 - Admin - Concrete			X				X
8.	02 - Cafeteria - 12" Vinyl Floor Tile, Grey Oatmeal			X		X		
9.	02 - Cafeteria - 12" Vinyl Floor Tile, Grey Oatmeal (Caf			X				X
10.	02 - Cafeteria - 12" ACT Pinhle Fissure (Cafeteria)			X		X		
11.	02 - Cafeteria - Transite Ceiling Panels			X		X		
12.	02 - Cafeteria - Black Mastic (Cafeteria)			X				X
13.	03 - Dining Hall - Concrete			X				X
14.	03 - Dining Hall - 12" ACT Small Pinhole			X		X		
15.	03 - Dining Hall - 6" Ceramic Tile, Grey			X				X
16.	04 - Band - 12" Vinyl Floor Tile, Grey Oatmeal			X		X		
17.	04 - Band - Concrete			X				X
18.	04 - Band - 12" ACT Pinhole Uniform			X		X		
19.	04 - Band - Black Mastic (Band)			X				X
20.	04 - Band - 12" Vinyl Floor Tile Off-White Oatmeal			X		X		
21.	04 - Band - 4" Vinyl Baseboard and Mastic, Brown			X		X		

See attached 'Homogeneous Materials Records' for all materials and their locations by building. On Form B all buildings are listed, and a summary of all non-friable and friable materials is provided. Friable materials and their locations are listed separately under each building on Form B.

Date Printed: 10/4/2023

RECORD OF FRIABLE AND NONFRIABLE ACM (FORM B)

Inspection Date: August 11, 2023

					CDS CODE	
					10-62430-1036672	
SCHOOL					SCHOOL PHONE NUMBER	
Selma High School					(559) 898 - 6550	
ADDRESS		(Number)	(Street)	(City)	(State)	(Zip)
3125 South Wright Street				Selma	CA	93662

- IMPORTANT -

Each building and functional space with friable ACBM or friable assumed ACBM listed on this form requires completion of FORM C (PHYSICAL AND HAZARD ASSESSMENT OF FRIABLE ACBM OR FRIABLE ASSUMED ACBM). Indicate location of material on blueprint, diagram or narrative in square or linear feet, and attach a copy (Sec. 763.93).

LINE	BUILDING NAME & FUNCTIONAL SPACE <i>(Indicate Address if Different From Above)</i>	CHECK ONE			CHECK ONE			
		SUR-FACING	TSI	MISC	ACBM		ASSUMED ACBM	
					FRIABLE	NON-FRIABLE	FRIABLE	NON-FRIABLE
22.	05 - Pool House - Concrete			X				X
23.	06 - Snack Bar - Concrete			X				X
24.	07 - Boy's Locker Room (1719) - 12" Vinyl Floor Tile, Grey Oatmeal			X		X		
25.	07 - Boy's Locker Room (1719) - Concrete			X				X
26.	07 - Boy's Locker Room (1719) - Transite Ceiling Panels			X		X		
27.	08 - Concessions - Concrete			X				X
28.	09 - Gym - Concrete			X				X
29.	09 - Gym - 12" ACT Pinhole Random			X				X
30.	10 - Girl's Locker Room (1719) - Concrete			X				X
31.	11 - Boy's Locker Room (1507) - Concrete			X				X
32.	11 - Boy's Locker Room (1507) - Transite Ceiling Panels			X		X		
33.	11 - Boy's Locker Room (1507) - 12" Vinyl Floor Tile Off-White Oatmeal			X		X		
34.	11 - Boy's Locker Room (1507) - Black Mastic (Locker Rooms)			X				X
35.	12 - 1001-1010 Classroom Wing - 12" Vinyl Floor Tile, Grey Oatmeal			X		X		
36.	12 - 1001-1010 Classroom Wing - Concrete			X				X
37.	12 - 1001-1010 Classroom Wing - 12" ACT Pinhole Fissure classroom wing			X		X		
38.	12 - 1001-1010 Classroom Wing - Black Mastic (Classrooms)			X				X

See attached 'Homogeneous Materials Records' for all materials and their locations by building. On Form B all buildings are listed, and a summary of all non-friable and friable materials is provided. Friable materials and their locations are listed separately under each building on Form B.

Date Printed: 10/4/2023

RECORD OF FRIABLE AND NONFRIABLE ACM (FORM B)

Inspection Date: August 11, 2023

					CDS CODE 10-62430-1036672	
SCHOOL Selma High School					SCHOOL PHONE NUMBER (559) 898 - 6550	
ADDRESS	(Number)	(Street)	(City)	(State)	(Zip)	
3125 South Wright Street			Selma	CA	93662	

- IMPORTANT -

Each building and functional space with friable ACM or friable assumed ACM listed on this form requires completion of FORM C (PHYSICAL AND HAZARD ASSESSMENT OF FRIABLE ACM OR FRIABLE ASSUMED ACM). Indicate location of material on blueprint, diagram or narrative in square or linear feet, and attach a copy (Sec. 763.93).

LINE	BUILDING NAME & FUNCTIONAL SPACE <i>(Indicate Address if Different From Above)</i>	CHECK ONE			CHECK ONE			
		SUR-FACING	TSI	MISC	ACBM		ASSUMED ACBM	
					FRIABLE	NON-FRIABLE	FRIABLE	NON-FRIABLE
39.	13 - 803-810 Classroom Wing - 12" Vinyl Floor Tile, Grey Oatmeal			X		X		
40.	13 - 803-810 Classroom Wing - Carpet and Mastic, Grey Multi Color			X		X		
41.	13 - 803-810 Classroom Wing - Concrete			X				X
42.	13 - 803-810 Classroom Wing - 12" Vinyl Floor Tile Off-White Oatmeal			X		X		
43.	13 - 803-810 Classroom Wing - 4" Vinyl Baseboard and Mastic, Brown			X		X		
44.	13 - 803-810 Classroom Wing - 12" ACT Pinhole Fissure classroom wing			X		X		
45.	13 - 803-810 Classroom Wing - Black Mastic (Classrooms)			X				X
46.	14 - 602-609 Classroom Wing - Concrete			X				X
47.	14 - 602-609 Classroom Wing - 12" ACT Pinhole Fissure classroom wing			X		X		
48.	14 - 602-609 Classroom Wing - Black Mastic (Classrooms)			X				X
49.	14 - 602-609 Classroom Wing - Transite Fume Hood			X		X		
50.	15 - 401-410 Classroom Wing - Carpet and Mastic, Multi Color			X		X		
51.	15 - 401-410 Classroom Wing - Unit Ventilator			X				X
52.	16 - 702 - 706 Classroom Wing - 12" Vinyl Floor Tile, Grey Oatmeal			X		X		
53.	16 - 702 - 706 Classroom Wing - Concrete			X				X

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Date Printed: 10/4/2023

RECORD OF FRIABLE AND NONFRIABLE ACM (FORM B)

Inspection Date: August 11, 2023

					CDS CODE	
					10-62430-1036672	
SCHOOL					SCHOOL PHONE NUMBER	
Selma High School					(559) 898 - 6550	
ADDRESS		(Number)	(Street)	(City)	(State)	(Zip)
3125 South Wright Street				Selma	CA	93662

- IMPORTANT -

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LINE	BUILDING NAME & FUNCTIONAL SPACE <i>(Indicate Address if Different From Above)</i>	CHECK ONE			CHECK ONE			
		SUR-FACING	TSI	MISC	ACBM		ASSUMED ACBM	
					FRIABLE	NON-FRIABLE	FRIABLE	NON-FRIABLE
54.	16 - 702 - 706 Classroom Wing - 12" ACT Pinhole Fissure classroom wing			X		X		
55.	16 - 702 - 706 Classroom Wing - Carpet and Mastic, Multi Color			X		X		
56.	16 - 702 - 706 Classroom Wing - 2'x4' FCP Pinhole Pissure			X				X
57.	16 - 702 - 706 Classroom Wing - Concealed Floor Tile, White			X		X		
58.	17 - 901-908 Classroom Wlngs - 12" ACT Pinhole Fissure classroom wing			X		X		
59.	17 - 901-908 Classroom Wlngs - Black Mastic (Classrooms)			X				X
60.	17 - 901-908 Classroom Wlngs - Carpet and Mastic, Multi Color			X		X		
61.	17 - 901-908 Classroom Wlngs - Concealed Floor Tile, White			X		X		
62.	18 - 1301-1306 Classroom Wing - 12" ACT Small Pinhole			X		X		
63.	18 - 1301-1306 Classroom Wing - Black Mastic (Classrooms)			X				X
64.	18 - 1301-1306 Classroom Wing - Carpet and Mastic, Multi Color			X		X		
65.	18 - 1301-1306 Classroom Wing - 2'x4' FCP Pinhole Pissure			X			X	
66.	18 - 1301-1306 Classroom Wing - Concealed Tile, Beige			X		X		

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Date Printed: 10/4/2023

RECORD OF FRIABLE AND NONFRIABLE ACM (FORM B)

Inspection Date: August 11, 2023

					CDS CODE 10-62430-1036672	
SCHOOL Selma High School					SCHOOL PHONE NUMBER (559) 898 - 6550	
ADDRESS	(Number)	(Street)	(City)	(State)	(Zip)	
3125 South Wright Street			Selma	CA	93662	

- IMPORTANT -

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LINE	BUILDING NAME & FUNCTIONAL SPACE <i>(Indicate Address if Different From Above)</i>	CHECK ONE			CHECK ONE			
		SUR-FACING	TSI	MISC	ACBM		ASSUMED ACBM	
					FRIABLE	NON-FRIABLE	FRIABLE	NON-FRIABLE
67.	19 - 1501-1508 Classroom WIng - 12" Vinyl Floor Tile, Grey Oatmeal			X		X		
68.	19 - 1501-1508 Classroom WIng - Carpet and Mastic, Multi Color			X		X		
69.	19 - 1501-1508 Classroom WIng - 2'x4' FCP Pinhole Pissure			X			X	
70.	20 - Library - 4" Vinyl Baseboard and Mastic, Brown			X		X		
71.	20 - Library - 2'x4' FCP Pinhole Pissure			X			X	
72.	20 - Library - 12" Vinyl Floor Tile, Beige Pebble			X		X		
73.	20 - Library - 12" ACT Pinhle Uniform			X				X
74.	21 - 501-504 Classroom Wing - 12" Vinyl Floor Tile, Grey Oatmeal			X		X		
75.	21 - 501-504 Classroom Wing - Concrete			X				X
76.	21 - 501-504 Classroom Wing - 4" Vinyl Baseboard and Mastic, Brown			X		X		
77.	21 - 501-504 Classroom Wing - Transite Fume Hood			X		X		
78.	22 - 304-317 Wing - 12" Vinyl Floor Tile, Grey Oatmeal			X		X		
79.	22 - 304-317 Wing - Carpet and Mastic, Grey Multi Color			X		X		
80.	22 - 304-317 Wing - Concrete			X				X
81.	22 - 304-317 Wing - 12" Vinyl Floor Tile, Beige Pebble			X		X		
82.	22 - 304-317 Wing - Drywall, Painted (shop)			X				X
83.	22 - 304-317 Wing - Black Mastic (Shop)			X				X

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Date Printed: 10/4/2023

RECORD OF FRIABLE AND NONFRIABLE ACM (FORM B)

Inspection Date: August 11, 2023

					CDS CODE	
					10-62430-1036672	
SCHOOL					SCHOOL PHONE NUMBER	
Selma High School					(559) 898 - 6550	
ADDRESS		(Number)	(Street)	(City)	(State)	(Zip)
3125 South Wright Street				Selma	CA	93662

- IMPORTANT -

Each building and functional space with friable ACBM or friable assumed ACBM listed on this form requires completion of FORM C (PHYSICAL AND HAZARD ASSESSMENT OF FRIABLE ACBM OR FRIABLE ASSUMED ACBM). Indicate location of material on blueprint, diagram or narrative in square or linear feet, and attach a copy (Sec. 763.93).

LINE	BUILDING NAME & FUNCTIONAL SPACE <i>(Indicate Address if Different From Above)</i>	CHECK ONE			CHECK ONE			
		SUR-FACING	TSI	MISC	ACBM		ASSUMED ACBM	
					FRIABLE	NON-FRIABLE	FRIABLE	NON-FRIABLE
84.	22 - 304-317 Wing - 12" ACT Pinhle Fissure (Shop)			X		X		
85.	22 - 304-317 Wing - Brown Baseboard Mastic			X				X
86.	23 - Ag Classrooms 102, 103 - 12" Vinyl Floor Tile, Grey Oatmeal			X		X		
87.	23 - Ag Classrooms 102, 103 - Concrete			X				X
88.	23 - Ag Classrooms 102, 103 - 4" Vinyl Baseboard and Mastic, Brown			X		X		
89.	23 - Ag Classrooms 102, 103 - Black Mastic (Shop)			X				X
90.	23 - Ag Classrooms 102, 103 - 12" ACT Pinhle Fissure (Shop)			X		X		
91.	23 - Ag Classrooms 102, 103 - 9" Vinyl Floor Tile Beige Streaks			X		X		
92.	23 - Ag Classrooms 102, 103 - Transite Flue Pipe			X		X		
93.	24 - Classrooms FCOE 1 & 2 - Carpet and Mastic, Grey Multi Color			X		X		
94.	24 - Classrooms FCOE 1 & 2 - 2'x4' FCP Pinhole Pissure			X			X	
95.	25 - Classroom Wing 2200 - 2209 - Carpet and Mastic, Grey Multi Color			X		X		
96.	26 - Classroom Wing 2301-2310 - 12" Vinyl Floor Tile, Grey Oatmeal			X		X		
97.	26 - Classroom Wing 2301-2310 - Carpet and Mastic, Grey Multi Color			X		X		
98.	26 - Classroom Wing 2301-2310 - 2'x4' FCP Pinhole Pissure			X			X	

See attached 'Homogeneous Materials Records' for all materials and their locations by building. On Form B all buildings are listed, and a summary of all non-friable and friable materials is provided. Friable materials and their locations are listed separately under each building on Form B.

Date Printed: 10/4/2023

PHYSICAL AND HAZARD ASSESSMENT OF FRIABLE ACBM OR FRIABLE ASSUMED ACBM (SEC. 763.93)

(FORM C)

DISTRICT Selma Unified School District	CDS CODE 10-62430-1036672
SCHOOL Selma High School	SCHOOL PHONE NUMBER (559) 898 - 6550
ADDRESS 3125 South Wright Street Selma, CA 93662	
BUILDING NAME 20 - Library	INSPECTION DATE August 11, 2023
FUNCTIONAL SPACE 01 - Library (main)	LINE NO. FROM FORM B 71

TYPE OF FRIABLE ACBM MISC - 2'x4' FCP Pinhole Pissure - Assumed

1. CONDITION OF ACBM (Overall Rating) Significantly Damaged

2. POTENTIAL FOR DISTURBANCE (Overall Rating) High

3. HAZARD ASSESSMENT (Combine Ratings From Items 1 and 2 and Check Appropriate Box)

CONDITION OF ACBM	POTENTIAL FOR DISTURBANCE		
	LOW	MODERATE	HIGH
GOOD	1	2	3
DAMAGED	4	5	6
SIGNIFICANTLY DAMAGED	7	7	7 XXX

4. RECOMMENDED RESPONSE ACTION(S) AND COST(S)

RESPONSE ACTION	ESTIMATED COSTS	
<input checked="" type="checkbox"/> A. OPERATION AND MAINTENANCE	\$	150.00
<input type="checkbox"/> B. REPAIR	\$	0.00
<input type="checkbox"/> C. ENCAPSULATION	\$	0.00
<input type="checkbox"/> D. ENCLOSURE	\$	0.00
<input type="checkbox"/> E. REMOVAL	\$	0.00
Total Cost		\$ 150.00

5. NARRATIVE OF RECOMMENDED RESPONSE

(Attach Additional Sheets If Necessary)

A. This material should be reinspected every 6 months and every 3 years in accordance with AHERA 40 CFR 763.85.

SCHEDULE	
START	FINISH
02/11/24	08/11/26

Comments: This area is in need of immediate attention.

**PHYSICAL AND HAZARD ASSESSMENT OF FRIABLE ACBM OR FRIABLE
ASSUMED ACBM (SEC. 763.93)
(FORM C)**

DISTRICT Selma Unified School District	CDS CODE 10-62430-1036672
SCHOOL Selma High School	SCHOOL PHONE NUMBER (559) 898 - 6550
ADDRESS 3125 South Wright Street Selma, CA 93662	
BUILDING NAME 20 - Library	INSPECTION DATE August 11, 2023
FUNCTIONAL SPACE 05 - Classroom	LINE NO. FROM FORM B 71
TYPE OF FRIABLE ACBM MISC - 2'x4' FCP Pinhole Pissure - Assumed	

- 1. CONDITION OF ACBM** (Overall Rating) Good
- 2. POTENTIAL FOR DISTURBANCE** (Overall Rating) Moderate
- 3. HAZARD ASSESSMENT** (Combine Ratings From Items 1 and 2 and Check Appropriate Box)

CONDITION OF ACBM	POTENTIAL FOR DISTURBANCE		
	LOW	MODERATE	HIGH
GOOD	1	2 XXX	3
DAMAGED	4	5	6
SIGNIFICANTLY DAMAGED	7	7	7

4. RECOMMENDED RESPONSE ACTION(S) AND COST(S)

RESPONSE ACTION	ESTIMATED COSTS	
<input checked="" type="checkbox"/> A. OPERATION AND MAINTENANCE	\$	0.00
<input type="checkbox"/> B. REPAIR	\$	0.00
<input type="checkbox"/> C. ENCAPSULATION	\$	0.00
<input type="checkbox"/> D. ENCLOSURE	\$	0.00
<input type="checkbox"/> E. REMOVAL	\$	0.00
Total Cost	\$	0.00

5. NARRATIVE OF RECOMMENDED RESPONSE

(Attach Additional Sheets If Necessary)

	SCHEDULE	
	START	FINISH
A. This material should be reinspected every 6 months and every 3 years in accordance with AHERA 40 CFR 763.85.	02/11/24	08/11/26

Comments:

**OPERATIONS AND MAINTENANCE PROGRAM
(FORM D)**

Inspection Date August 11, 2023

					CDS CODE	
					10-62430-1036672	
SCHOOL					SCHOOL PHONE NUMBER	
Selma High School					(559) 898 - 6550	
ADDRESS	(Number)	(Street)	(City)	(State)	(Zip)	
3125 South Wright Street			Selma	CA	93662	

TRAINING

All maintenance and custodial workers will receive a 2-hour asbestos awareness training. The training will include information on asbestos, its uses, its products, where it was found in the school, how to recognize friable asbestos and damage and who will take care of incidents and questions relating to asbestos. It will also cover where copies of the inspection report and Management Plan should be kept.

NOTIFICATION OF NON-DISTRICT WORKERS

Short-term non-district workers shall be advised of the presence of ACBM in areas they will be working. Initial written notification of the location of ACBM shall be provided to outside contractors, when the contract is written or with the purchase order for services. Outside workmen are required to sign a statement individually, (a sample form is provided for your use), acknowledging receipt of information regarding the location of asbestos, prior to commencing their work activities. A copy of this signed statement shall be put into the Management Plan. They shall perform no activities that will disturb the asbestos, unless they are fully licensed and accredited to do so.

INITIAL AND ADDITIONAL CLEANING

Steam cleaning/HEPA vacuuming of the carpets and wet-mopping, HEPA vacuuming, wet-wiping of floors and/or horizontal surfaces where there is no asbestos debris or residue of ACBM, can be performed by workers who have received only the 2-hour awareness training, although it is recommended that this be done by a licensed asbestos contractor. If those workers encounter ACBM debris, or if they do any cleaning, which of itself may result in the disturbance of ACBM, they must not proceed with cleaning. At this point, the district shall determine if EPA-accredited asbestos-abatement contractors and workers are required to complete the cleaning. The school district may utilize their own employees who have received EPA-accredited Contractor/Supervisor training for cleaning.

The cleaning schedule at Selma High School is as follows:

periodic cleaning utilizing HEPA vacuums and wet methods

DISPOSAL

All of the requirements and recommendations of CFR, 763, Appendix D to Subpart E (AHERA) and requirements of the California Department of Health Services (or CAL-EPA) shall be adhered to by the district.

ABATEMENT AND FIBER RELEASE EPISODES

All abatement projects and activities related to major release episodes, shall be designed by personnel with EPA accreditation for project designers. All response actions involving the disturbance of ACBM shall be performed by asbestos-abatement contractors who are EPA accredited and licensed by the California State Contractor Licensing Board and registered with Cal-OSHA. The asbestos-abatement contractor shall utilize, for the response action, only EPA-accredited workers and supervisors. All clearance-air samples will be taken by an independent, professional before reoccupancy is permitted. Air-clearance sampling will comply with AHERA standards.

Date Printed: 10/4/2023

WORK AUTHORIZATION

OPERATIONS AND MAINTENANCE ACTIVITIES; WORK AUTHORIZATION

In case of any O & M or repair activity that may disturb asbestos, prior written approval of the LEA Designee must be obtained. Work authorization forms will include a certifying statement signed and dated by the LEA Designee that the work will be performed in accordance with EPA/Cal-OSHA regulations. Copies of all asbestos-related Work Authorizations shall be maintained in the Management Plan.

BUILDING OCCUPANT PROTECTION

All Local, State, and Federal regulations will be followed during cleaning (other than steam cleaning) or abatement projects. Security of the area will be provided, required signs will be posted, air systems will be shut down, sealed off and the containment area will have a negative pressure established. Work practices will be as required by Local, State, and Federal regulations, and disposal of asbestos waste will follow EPA and California Department of Toxic Substance Control regulations. Routine maintenance areas shall be posted with warning labels as described in 40 CFR, Part 763, Subpart E, Section 763.95.

The following areas at Selma High School contain asbestos, those areas receiving routine maintenance should be posted:

- 01 - Admin - 01 - Reception
- 01 - Admin - 02 - Principal's Office
- 01 - Admin - 03 - Principal's Restroom
- 01 - Admin - 04 - Hallway
- 01 - Admin - 05 - Admin Assistant Office
- 01 - Admin - 06 - ASB Clerk Office
- 01 - Admin - 07 - Registrar Office
- 01 - Admin - 08 - Men's Restroom
- 01 - Admin - 09 - Attendance Office
- 01 - Admin - 10 - Custodial Closet
- 01 - Admin - 11 - Women's Restroom
- 01 - Admin - 12 - TOSA Office
- 01 - Admin - 13 - Deputy Principal Office 1
- 01 - Admin - 14 - Deputy Principal Office 2
- 01 - Admin - 15 - Assistant Principal
- 01 - Admin - 16 - Open Office
- 01 - Admin - 17 - South Vestibule
- 01 - Admin - 18 - NE Office
- 01 - Admin - 19 - SE Office
- 01 - Admin - 20 - South Vestibule Restroom 1
- 01 - Admin - 21 - SW Office
- 01 - Admin - 22 - South Vestibule Restroom 2
- 01 - Admin - 23 - NW Office
- 01 - Admin - 24 - Safe
- 02 - Cafeteria - 01 - Cafeteria Space
- 02 - Cafeteria - 02 - Kitchen
- 02 - Cafeteria - 03 - Break Room
- 02 - Cafeteria - 04 - Restroom Vestibule
- 02 - Cafeteria - 05 - Men's Restroom
- 02 - Cafeteria - 06 - Women's Restroom
- 02 - Cafeteria - 07 - Cold Storage Hallway
- 02 - Cafeteria - 08 - Dry Storage
- 02 - Cafeteria - 09 - Kitchen N Hallway
- 02 - Cafeteria - 10 - Staff Locker Room
- 02 - Cafeteria - 11 - Office
- 03 - Dining Hall - 01 - Dining Hall Area

03 - Dining Hall - 02 - Hallway
03 - Dining Hall - 03 - Eastern Storage
03 - Dining Hall - 04 - Western Storage
03 - Dining Hall - 05 - Women's RR
03 - Dining Hall - 06 - Custodial
03 - Dining Hall - 07 - Men's Restroom
04 - Band - 01 - Classroom 1903
04 - Band - 03 - Custodial (1903)
04 - Band - 04 - Office (1903)
04 - Band - 05 - Storage 1 (1903)
04 - Band - 06 - Storage 2 (1903)
04 - Band - 07 - Storage 3 (1903)
04 - Band - 08 - Uniform Storage (1903)
04 - Band - 09 - NW Storage (1903)
04 - Band - 10 - N Side, Center Storage(1903)
04 - Band - 11 - NE Storage (1903)
04 - Band - 12 - Ext Chiller Room
04 - Band - 13 - Classroom Hallway
04 - Band - 14 - Classroom 1904
04 - Band - 15 - NW Office (1904)
04 - Band - 16 - Center Office (1904)
04 - Band - 17 - NE Storage (1904)
05 - Pool House - 01 - Office 1
05 - Pool House - 02 - Office 2
05 - Pool House - 03 - Pool Equipment
06 - Snack Bar - 01 - Snack Bar
07 - Boy's Locker Room (1719) - 01 - Locker Room
07 - Boy's Locker Room (1719) - 02 - Restroom
07 - Boy's Locker Room (1719) - 03 - Custodial
07 - Boy's Locker Room (1719) - 04 - NE Locker Room Alcove
07 - Boy's Locker Room (1719) - 05 - NW Locker Room Alcove
07 - Boy's Locker Room (1719) - 06 - Foyer
07 - Boy's Locker Room (1719) - 07 - Helmet Storage
07 - Boy's Locker Room (1719) - 08 - Coaches Office
07 - Boy's Locker Room (1719) - 09 - Coaches RR
07 - Boy's Locker Room (1719) - 10 - Coaches Office 2
07 - Boy's Locker Room (1719) - 12 - Storage
07 - Boy's Locker Room (1719) - 13 - Exterior Boiler Room
08 - Concessions - 01 - Eastern Laundry Rm
09 - Gym - Gym
10 - Girl's Locker Room (1719) - 01 - Foyer
10 - Girl's Locker Room (1719) - 02 - Custodial Closet
10 - Girl's Locker Room (1719) - 06 - Locker Room RR
10 - Girl's Locker Room (1719) - 08 - Locker Room Main NE
10 - Girl's Locker Room (1719) - 09 - Varsity Locker Room Center
10 - Girl's Locker Room (1719) - 10 - Locker Room Main SW
10 - Girl's Locker Room (1719) - 11 - Equipment 3
10 - Girl's Locker Room (1719) - 12 - Equipment 1
11 - Boy's Locker Room (1507) - 01 - Foyer
11 - Boy's Locker Room (1507) - 02 - Storage 1
11 - Boy's Locker Room (1507) - 03 - Restroom
11 - Boy's Locker Room (1507) - 04 - Shower
11 - Boy's Locker Room (1507) - 05 - Locker Room Main
11 - Boy's Locker Room (1507) - 06 - Coaches Office
11 - Boy's Locker Room (1507) - 07 - Coaches RR

11 - Boy's Locker Room (1507) - 08 - Storage 2
11 - Boy's Locker Room (1507) - 08 - Storage 3
11 - Boy's Locker Room (1507) - 09 - Electrical Closet
12 - 1001-1010 Classroom Wing - 01 - Room 1007
12 - 1001-1010 Classroom Wing - 02 - Room 1005
12 - 1001-1010 Classroom Wing - 03 - Room 1003
12 - 1001-1010 Classroom Wing - 04 - Room 1001 Nurse's Office
12 - 1001-1010 Classroom Wing - 06 - Custodial at Boy's Restroom
12 - 1001-1010 Classroom Wing - 08 - Room 1002
12 - 1001-1010 Classroom Wing - 09 - Room 1004
12 - 1001-1010 Classroom Wing - 10 - Room 1006
12 - 1001-1010 Classroom Wing - 11 - Room 1008
12 - 1001-1010 Classroom Wing - 12 - Room 1010
13 - 803-810 Classroom Wing - 01 - Room 809
13 - 803-810 Classroom Wing - 02 - Room 807
13 - 803-810 Classroom Wing - 03 - Room 805
13 - 803-810 Classroom Wing - 04 - Room 803
13 - 803-810 Classroom Wing - 05 - Break Room North
13 - 803-810 Classroom Wing - 07 - Custodial
13 - 803-810 Classroom Wing - 08 - Break Room South
13 - 803-810 Classroom Wing - 10 - Room 804
13 - 803-810 Classroom Wing - 11 - Room 806
13 - 803-810 Classroom Wing - 12 - 806 Storage 1
13 - 803-810 Classroom Wing - 13 - 806 Storage 1 Closet
13 - 803-810 Classroom Wing - 14 - 806 Storage 2
13 - 803-810 Classroom Wing - 15 - 806 Storage 2 Closet
13 - 803-810 Classroom Wing - 16 - Room 810
14 - 602-609 Classroom Wing - 01 - Room 609
14 - 602-609 Classroom Wing - 03 - Room 605
14 - 602-609 Classroom Wing - 04 - Lab
14 - 602-609 Classroom Wing - 05 - Lab Storage
14 - 602-609 Classroom Wing - 07 - Boy's RR
14 - 602-609 Classroom Wing - 08 - Custodial at Boys RR
14 - 602-609 Classroom Wing - 09 - Room 602
14 - 602-609 Classroom Wing - 10 - Room 604
14 - 602-609 Classroom Wing - 11 - Room 606
14 - 602-609 Classroom Wing - 12 - Room 608
14 - 602-609 Classroom Wing - 13 - 608 Storage
15 - 401-410 Classroom Wing - 01 - Room 409
15 - 401-410 Classroom Wing - 02 - Room 407
15 - 401-410 Classroom Wing - 03 - Room 405
15 - 401-410 Classroom Wing - 04 - Room 403
15 - 401-410 Classroom Wing - 05 - Room 401
15 - 401-410 Classroom Wing - 06 - Room 402
15 - 401-410 Classroom Wing - 07 - Room 404
15 - 401-410 Classroom Wing - 08 - Room 406
15 - 401-410 Classroom Wing - 09 - Room 408
15 - 401-410 Classroom Wing - 10 - Room 410
16 - 702 - 706 Classroom Wing - 01 - Room 702
16 - 702 - 706 Classroom Wing - 02 - Room 704
16 - 702 - 706 Classroom Wing - 03 - Room 706
16 - 702 - 706 Classroom Wing - 04 - Room 705
16 - 702 - 706 Classroom Wing - 05 - Room 703
16 - 702 - 706 Classroom Wing - 06 - Mechanical Room
17 - 901-908 Classroom Wings - 01 - Room 902

17 - 901-908 Classroom Wings - 02 - Room 904
17 - 901-908 Classroom Wings - 03 - Room 906
17 - 901-908 Classroom Wings - 04 - Room 908
17 - 901-908 Classroom Wings - 05 - Room 907 C
17 - 901-908 Classroom Wings - 06 - Room 907 B
17 - 901-908 Classroom Wings - 07 - Room 907
17 - 901-908 Classroom Wings - 08 - Room 905
17 - 901-908 Classroom Wings - 09 - Room 903
17 - 901-908 Classroom Wings - 10 - Room 901
18 - 1301-1306 Classroom Wing - 01 - Room 1302
18 - 1301-1306 Classroom Wing - 02 - Room 1304
18 - 1301-1306 Classroom Wing - 03 - Room 1306
18 - 1301-1306 Classroom Wing - 05 - Room 1305
18 - 1301-1306 Classroom Wing - 06 - Room 1303
18 - 1301-1306 Classroom Wing - 07 - Room 1301
19 - 1501-1508 Classroom Wing - 01 - Room 1502
19 - 1501-1508 Classroom Wing - 02 - Room 1504
19 - 1501-1508 Classroom Wing - 03 - Room 1506
19 - 1501-1508 Classroom Wing - 04 - Room 1508
19 - 1501-1508 Classroom Wing - 05 - Room 1507
19 - 1501-1508 Classroom Wing - 06 - Room 1505
19 - 1501-1508 Classroom Wing - 07 - Room 1503
19 - 1501-1508 Classroom Wing - 08 - Room 1501
19 - 1501-1508 Classroom Wing - 09 - Server Room
20 - Library - 01 - Library (main)
20 - Library - 02 - Office 1
20 - Library - 03 - Book Storage
20 - Library - 04 - Book Storage Closet
20 - Library - 05 - Classroom
20 - Library - 11 - Office 3
21 - 501-504 Classroom Wing - 02 - Custodial
21 - 501-504 Classroom Wing - 04 - Room 502
21 - 501-504 Classroom Wing - 05 - 502 & 504 Closet
21 - 501-504 Classroom Wing - 05 - HVAC Closet
21 - 501-504 Classroom Wing - 06 - HVAC Closet
21 - 501-504 Classroom Wing - 06 - Room 504
21 - 501-504 Classroom Wing - 07 - Room 501
21 - 501-504 Classroom Wing - 07 - Room 503
21 - 501-504 Classroom Wing - 08 - 501 & 503 Closet
22 - 304-317 Wing - 01 - Room 304
22 - 304-317 Wing - 02 - 304 ne closet
22 - 304-317 Wing - 03 - 304 e, center closet
22 - 304-317 Wing - 04 - 304 se closet
22 - 304-317 Wing - 05 - Room 305
22 - 304-317 Wing - 06 - 305 Office
22 - 304-317 Wing - 07 - Staff RR
22 - 304-317 Wing - 08 - 311 Office
22 - 304-317 Wing - 09 - Room 311
22 - 304-317 Wing - 10 - 311 Storage
22 - 304-317 Wing - 11 - 311 Storage 2
22 - 304-317 Wing - 12 - Staff RR 1
22 - 304-317 Wing - 13 - Staff RR 2
22 - 304-317 Wing - 14 - Room 319
22 - 304-317 Wing - 15 - 319 Storage 1
22 - 304-317 Wing - 16 - 319 Storage 2 (uniforms)

22 - 304-317 Wing - 18 - NE Storage
22 - 304-317 Wing - 19 - Office 1
22 - 304-317 Wing - 20 - Restroom
22 - 304-317 Wing - 21 - Office 2
22 - 304-317 Wing - 22 - Armory closet
22 - 304-317 Wing - 23 - Room 317
22 - 304-317 Wing - 24 - 317 office and vestibule
23 - Ag Classrooms 102, 103 - 01 - 102 Office
23 - Ag Classrooms 102, 103 - 02 - 102 Staff RR
23 - Ag Classrooms 102, 103 - 03 - 102 Welding Shop
23 - Ag Classrooms 102, 103 - 05 - Welding Shop Water Heater Closet
23 - Ag Classrooms 102, 103 - 06 - Student Restroom
23 - Ag Classrooms 102, 103 - 08 - 102 Classroom
24 - Classrooms FCOE 1 & 2 - 02 - Classroom FCOE 1
24 - Classrooms FCOE 1 & 2 - 02 - FCOE 1 Office
24 - Classrooms FCOE 1 & 2 - 04 - FCOE 1 RR
25 - Classroom Wing 2200 - 2209 - 01 - Room 2208
25 - Classroom Wing 2200 - 2209 - 02 - Room 2206
25 - Classroom Wing 2200 - 2209 - 03 - Room 2204
25 - Classroom Wing 2200 - 2209 - 04 - Room 2202
25 - Classroom Wing 2200 - 2209 - 05 - Room 2200
25 - Classroom Wing 2200 - 2209 - 06 - Room 2201
25 - Classroom Wing 2200 - 2209 - 07 - Room 2203
25 - Classroom Wing 2200 - 2209 - 08 - Room 2205
25 - Classroom Wing 2200 - 2209 - 09 - Room 2207
25 - Classroom Wing 2200 - 2209 - 10 - Room 2209
26 - Classroom Wing 2301-2310 - 01 - Room 2302
26 - Classroom Wing 2301-2310 - 02 - Room 2302 Office
26 - Classroom Wing 2301-2310 - 03 - Room 2306
26 - Classroom Wing 2301-2310 - 03 - Room 2310
26 - Classroom Wing 2301-2310 - 04 - Room 2309
26 - Classroom Wing 2301-2310 - 05 - Room 2307
26 - Classroom Wing 2301-2310 - 06 - Room 2305
26 - Classroom Wing 2301-2310 - 07 - Room 2303
26 - Classroom Wing 2301-2310 - 08 - Room 2301

RECORDKEEPING

All recordkeeping will be entered into the Management Plan at the District Office and each affected site within 30 days of the last day of the month in which the event occurred. Recordkeeping will include:

1. Training Sessions

All training received by maintenance custodial or designees, etc. will be documented in the Management Plan.

2. Fiber Release Episodes

All data accumulated during minor or major fiber release episodes will be entered into the Management Plan, (sample forms are provided for your use). This will include what happened, where it happened, who was present and documentation of remedial actions.

3. Abatement Projects

All abatement projects will be documented. This will include records of project design, contractor documents and clearance sample results, as well as evidence of compliance with all regulatory requirements.

4. Periodic

All data collected during scheduled or unscheduled observations of ACBM will be recorded in the Management Plan. This includes 3-year accredited reinspection data.

5. Outside Service

All service contractors will receive notices that ACBM may be present in areas where they may be providing services. Data will be recorded in the plan showing that these personnel have been advised of the presence of ACBM.

6. Miscellaneous

Any other data produced which involves asbestos with our district, will be included in the Management Plan.

7. Record of Remaining ACBM

As part of the recordkeeping function, the LEA designated person, shall maintain the list of ACBM and assumed ACBM in an on-going current status, by indicating on the Homogeneous Materials Record, the removal of any ACBM or assumed ACBM. Thus, the list of ACBM and assumed ACBM, will indicate at all times, which materials remain after response actions are undertaken and completed.

8. Location of Management Plan

Inspection Reports and Management Plans for each site are located in the administrative offices of each school, and a complete set is kept at the District Office.

9. Other Records

Records of all cleaning, preventative measures, annual notifications and work authorization, will also become a part of the file.

10. Record Retention

All records will be kept on file at the District Office and at each site where ACBM is located. For each homogeneous area where all ACBM has been removed, records of abatement shall be retained for 30 years following the next reinspection.

NEW BUILDINGS

Any new buildings constructed onsite, or new portable buildings brought onsite, must have letters from the manufacturer certifying that the building materials do not contain asbestos. It is possible that older portable buildings from another school site within the district may be moved to this school site. It is also possible that portable buildings constructed prior to October 12, 1988, may be moved to the school site from another location. The LEA Designee will be responsible for obtaining all copies of inspection reports, laboratory reports, and other pertinent information regarding the older portable building, and inserting it into the asbestos Management Plan.

**PERIODIC SURVEILLANCE PLAN
(FORM E)**

Inspection Date August 11, 2023

				CDS CODE	
				10-62430-1036672	
SCHOOL				SCHOOL PHONE NUMBER	
Selma High School				(559) 898 - 6550	
ADDRESS	(Number)	(Street)	(City)	(State)	(Zip)
3125 South Wright Street			Selma	CA	93662

This plan must include a periodic surveillance of each building with friable ACBM and nonfriable ACBM at least every six months. The person performing periodic surveillance must have received, at a minimum, two hours general training and 14 hours of additional training if work performed might disturb asbestos. The person will record the date, the area of inspection, the inspector's name, the description of any changes of the materials, and also visually inspect the areas (Sec. 763.92).

Six-month surveillances may be conducted by District personnel who have received at least 2 hours of general awareness training regarding asbestos. All ACBM will be observed, its condition and change in condition shall be recorded. If the surveillance requires that any ACBM be disturbed, the surveillance of such ACBM will be conducted by an EPA-AHERA accredited inspector.

The written, dated signed records of the surveillance shall be included in the Management Plan.

**REINSPECTION PLAN
(FORM F)**

Inspection Date: August 11, 2023

					CDS CODE	
					10-62430-1036672	
SCHOOL					SCHOOL PHONE NUMBER	
Selma High School					(559) 898 - 6550	
ADDRESS	(Number)	(Street)	(City)	(State)	(Zip)	
3125 South Wright Street			Selma	CA	93662	

The plan must meet the reinspection requirements of Section 763.85. This plan will include a reinspection every three years by an accredited inspector.

The three-year reinspection will be conducted by an EPA-AHERA accredited inspector. Written records of the reinspection shall be included in the Management Plan. Records shall include the dates of reinspection, signature of the inspector, and documentation of the inspector's accreditation. Inspection data shall include information on the condition of all known ACBM or assumed ACBM, or change in condition, and friability of material. The ACBM shall be touched to determined friability.

The inspector shall provide a written, signed, dated assessment, in conformity with Section 763.88 of AHERA, of all friable known or assumed ACBM. If assessments indicate a change in response action from that of the previous inspection, an EPA-AHERA accredited Management Planner shall recommend in writing, the appropriate response action.

**PARENT/EMPLOYEE NOTIFICATION PROGRAM
(FORM G)**

Inspection Date: August 11, 2023

					CDS CODE	
					10-62430-1036672	
SCHOOL					SCHOOL PHONE NUMBER	
Selma High School					(559) 898 - 6550	
ADDRESS	(Number)	(Street)	(City)	(State)	(Zip)	
3125 South Wright Street			Selma	CA	93662	

In the discussion section of this form, information should be included that describes steps taken to inform workers and building occupants, or their legal guardians, about inspections, response actions, and post response action activities, including periodic reinspection and surveillance activities that are planned or in progress. Notifications must be made once each school year (Sec. 763.84).

A signed and dated copy of each annual notification shall be included in the Management Plan. Also included in the Management Plan with each notification, shall be a statement describing, in detail, the steps taken to notify parents/employees.

The annual notification shall include information regarding actions taken in the previous year and actions planned for the coming year. It shall advise where the Management Plan is kept, and it will state the cost and conditions for obtaining copies of the Management Plan.

**EVALUATION OF RESOURCES NEEDED
(FORM H)**

Inspection Date: August 11, 2023

					CDS CODE	
					10-62430-1036672	
SCHOOL					SCHOOL PHONE NUMBER	
Selma High School					(559) 898 - 6550	
ADDRESS	(Number)	(Street)	(City)	(State)	(Zip)	
3125 South Wright Street			Selma	CA	93662	

Discussion should include such information as funding required equipment, facilities, support personnel (Sec. 763.93).

The costs associated with the management of asbestos at this site is primarily administrative, since the district has chosen to subcontract any asbestos related work to a licensed asbestos contractor. The total estimated cost to administer this Management Plan on an annual basis is \$1,950.00, and includes costs for training, six month inspections, annual notifications, record keeping, etc.

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 01 - Admin		Room: 01 - Reception - 20 x 17 x 10				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		170 sq	No
Floor: Carpet and Mastic, Grey Multi Color	MISC	3 %	3		170 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		74 ln	
Walls: Tackboard and Glue, Off White	MISC	None Detected	4		740 sq	
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		340 sq	No
Building: 01 - Admin		Room: 02 - Principal's Office - 14 x 12 x 10				
Floor: Black Mastic (Admin)	MISC	5 %	6	6A	168 sq	No
Floor: Carpet and Mastic, Grey Multi Color	MISC	3 %	3	3A	168 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		52 ln	
Walls: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		104 sq	No
<i>Comment: Upper 2ft</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		168 sq	No
<i>Room Contains Vestibule</i>						
<i>Comments:</i>						
Building: 01 - Admin		Room: 03 - Principal's Restroom - 5 x 5 x 10				
Floor: 1" Blue Ceramic Tile Mosaic	MISC	None Detected	7	7A	25 sq	
Walls: 4" Ceramic Tile, Yellow	MISC	None Detected	9		100 sq	
Walls: Plaster, Stipple Texture	SURF	None Detected	8		200 sq	
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		25 sq	No
Building: 01 - Admin		Room: 04 - Hallway - 50 x 5 x 8				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		250 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		110 ln	
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		250 sq	No
Pipes: Hard Elbows	TSI	None Detected	37		2 ea	
<i>Comment: Two hard elbows visible in plenum, no access</i>						

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 01 - Admin		Room: 05 - Admin Assistant Office - 12 x 12 x 10				
Floor: Black Mastic (Admin)	MISC	5 %	6		144 sq	No
Floor: Carpet and Mastic, Grey Multi Color	MISC	3 %	3		144 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		45 ln	
Walls: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		89 sq	No
<i>Comment: Upper 2ft</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		144 sq	No
Building: 01 - Admin		Room: 06 - ASB Clerk Office - 12 x 12 x 10				
Floor: Black Mastic (Admin)	MISC	5 %	6		144 sq	No
Floor: Carpet and Mastic, Grey Multi Color	MISC	3 %	3		144 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		45 ln	
Walls: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		89 sq	No
<i>Comment: Upper 2ft</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		144 sq	No
Building: 01 - Admin		Room: 07 - Registrar Office - 12 x 15 x 10				
Floor: Black Mastic (Admin)	MISC	5 %	6		180 sq	No
Floor: Carpet and Mastic, Grey Multi Color	MISC	3 %	3		180 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		56 ln	
Walls: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		111 sq	No
<i>Comment: Upper 2ft</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		180 sq	No
Building: 01 - Admin		Room: 08 - Men's Restroom - 13 x 7 x 10				
Floor: 1" Grey Ceramic Tile	MISC	None Detected	10	10A	91 sq	
Walls: 4" Ceramic Tile, Yellow	MISC	None Detected	9	9A	200 sq	
Walls: Plaster, Orange Peel Texture	SURF	None Detected	11		400 sq	
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		91 sq	No

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 01 - Admin		Room: 09 - Attendance Office - 12 x 8 x 10				
Floor: Black Mastic (Admin)	MISC	5 %	6		96 sq	No
Floor: Carpet and Mastic, Grey Multi Color	MISC	3 %	3		96 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		30 ln	
Walls: 12" ACT Pinhle Fissure (Admin) <i>Comment: Upper 2ft</i>	MISC	2 %	5		59 sq	No
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		96 sq	No
Building: 01 - Admin		Room: 10 - Custodial Closet - 6 x 4 x 12				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		24 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		20 ln	
Walls: Plaster, Stipple Texture	SURF	None Detected	8		240 sq	
Ceiling: Wood	NON	Non-Suspect				
Pipes: Pipe Insulation <i>Comment: At Ceiling, assumed elbows</i>	TSI	Assumed	12		1 ea	No
Building: 01 - Admin		Room: 11 - Women's Restroom - 13 x 7 x 10				
Floor: 1" Grey Ceramic Tile	MISC	None Detected	10		91 sq	
Walls: 4" Ceramic Tile, Pink	MISC	None Detected	13	13A	200 sq	
Walls: Plaster, Orange Peel Texture	SURF	None Detected	11	11C	400 sq	
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		91 sq	No
Building: 01 - Admin		Room: 12 - TOSA Office - 12 x 8 x 10				
Floor: Black Mastic (Admin)	MISC	5 %	6		96 sq	No
Floor: Carpet and Mastic, Grey Multi Color	MISC	3 %	3		96 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		30 ln	
Walls: 12" ACT Pinhle Fissure (Admin) <i>Comment: Upper 2ft</i>	MISC	2 %	5		59 sq	No
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		96 sq	No

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgn's Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 01 - Admin		Room: 13 - Deputy Principal Office 1 - 13 x 12 x 10				
Floor: Black Mastic (Admin)	MISC	5 %	6		156 sq	No
Floor: Carpet and Mastic, Grey Multi Color	MISC	3 %	3		156 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		48 ln	
Walls: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		97 sq	No
<i>Comment: Upper 2ft</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		156 sq	No
Building: 01 - Admin		Room: 14 - Deputy Principal Office 2 - 12 x 12 x 10				
Floor: Black Mastic (Admin)	MISC	5 %	6		144 sq	No
Floor: Carpet and Mastic, Grey Multi Color	MISC	3 %	3		144 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		45 ln	
Walls: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		89 sq	No
<i>Comment: Upper 2ft</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		144 sq	No
Building: 01 - Admin		Room: 15 - Assistant Principal - 12 x 8 x 10				
Floor: Black Mastic (Admin)	MISC	5 %	6		96 sq	No
Floor: Carpet and Mastic, Grey Multi Color	MISC	3 %	3		96 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		30 ln	
Walls: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		59 sq	No
<i>Comment: Upper 2ft</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		96 sq	No
Building: 01 - Admin		Room: 16 - Open Office - 40 x 19 x 10				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1	1A	380 sq	No
Floor: Carpet and Mastic, Grey Multi Color	MISC	3 %	3		380 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2	2B	118 ln	
Walls: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		236 sq	No
<i>Comment: Upper 2ft</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		760 sq	No

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 01 - Admin		Room: 17 - South Vestibule - 14 x 10 x 10				
Floor: Black Mastic (Admin)	MISC	5 %	6		140 sq	No
Floor: Carpet and Mastic, Grey Multi Color	MISC	3 %	3	3C	140 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		43 ln	
Walls: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		87 sq	No
<i>Comment: Upper 2ft</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		140 sq	No
Building: 01 - Admin		Room: 18 - NE Office - 10 x 9 x 10				
Floor: Black Mastic (Admin)	MISC	5 %	6		90 sq	No
Floor: Carpet and Mastic, Grey Multi Color	MISC	3 %	3		90 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		28 ln	
Walls: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		56 sq	No
<i>Comment: Upper 2ft</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		90 sq	No
<i>Room At south vestibule</i>						
<i>Comments:</i>						
Building: 01 - Admin		Room: 19 - SE Office - 10 x 12 x 10				
Floor: Black Mastic (Admin)	MISC	5 %	6		120 sq	No
Floor: Carpet and Mastic, Grey Multi Color	MISC	3 %	3		120 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		37 ln	
Walls: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		74 sq	No
<i>Comment: Upper 2ft</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		120 sq	No
<i>Room At south vestibule</i>						
<i>Comments:</i>						
Building: 01 - Admin		Room: 20 - South Vestibule Restroom 1 - 5 x 4 x 10				
Floor: 1" Blue Ceramic Tile Mosaic	MISC	None Detected	7		20 sq	
Walls: 4" Ceramic Tile, Yellow	MISC	None Detected	9		80 sq	
Walls: Plaster, Stipple Texture	SURF	None Detected	8		160 sq	
Ceiling: 12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		20 sq	No
<i>Room At SE Office</i>						
<i>Comments:</i>						

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 01 - Admin		Room: 21 - SW Office - 11 x 10 x 10					
Floor:	Black Mastic (Admin)	MISC	5 %	6		110 sq	No
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		110 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		34 ln	
Walls:	12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		68 sq	No
	<i>Comment: Upper 2ft</i>						
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		110 sq	No
Room	<i>At south vestibule</i>						
Comments:							
Building: 01 - Admin		Room: 22 - South Vestibule Restroom 2 - 5 x 4 x 10					
Floor:	1" Blue Ceramic Tile Mosaic	MISC	None Detected	7		20 sq	
Walls:	4" Ceramic Tile, Yellow	MISC	None Detected	9		80 sq	
Walls:	Plaster, Stipple Texture	SURF	None Detected	8		160 sq	
Ceiling:	12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		20 sq	No
Room	<i>At SW Office</i>						
Comments:							
Building: 01 - Admin		Room: 23 - NW Office - 10 x 8 x 10					
Floor:	Black Mastic (Admin)	MISC	5 %	6		80 sq	No
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		80 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		25 ln	
Walls:	12" ACT Pinhle Fissure (Admin)	MISC	2 %	5		50 sq	No
	<i>Comment: Upper 2ft</i>						
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhle Fissure (Admin)	MISC	2 %	5	5A	80 sq	No
Building: 01 - Admin		Room: 24 - Safe - 11 x 10 x 9					
Floor:	9" Vinyl Floor Tile, Grey w/ Yellow	MISC	5 %	14	14A	110 sq	No
Walls:	Concrete	MISC	Assumed	15		378 sq	No
Ceiling:	Concrete	MISC	Assumed	15		110 sq	No

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>02 - Cafeteria</u>		Room: <u>01 - Cafeteria Space - 120 x 62 x 20</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal (Caf)	MISC	Assumed	16		7440 sq	No
Floor:	Black Mastic (Cafeteria)	MISC	Assumed	22		7440 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		364 ln	
Walls:	12" ACT Pinhle Fissure (Cafeteria)	MISC	2 %	17	17B	728 sq	No
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhle Fissure (Cafeteria)	MISC	2 %	17		3720 sq	No
Ceiling:	Wood	NON	Non-Suspect				
Building: <u>02 - Cafeteria</u>		Room: <u>02 - Kitchen - 45 x 25 x 10</u>					
Floor:	6" Ceramic Tile, Light Brown	MISC	None Detected	18	18B	1125 sq	
Baseboard:	6" Ceramic Tile, Light Brown	MISC	None Detected	18	18A	140 ln	
Walls:	FRP and Glue, Off-White	MISC	None Detected	19	19B	1400 sq	
Ceiling:	Plaster, Orange Peel Texture	SURF	None Detected	11		1125 sq	
Ceiling:	Transite Ceiling Panels	MISC	Known	21		338 sq	No
Building: <u>02 - Cafeteria</u>		Room: <u>03 - Break Room - 25 x 25 x 11</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1	1F	625 sq	No
Floor:	Black Mastic (Cafeteria)	MISC	Assumed	22		625 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2	2A	100 ln	
Walls:	12" ACT Pinhle Fissure (Cafeteria)	MISC	2 %	17	17A	220 sq	No
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhle Fissure (Cafeteria)	MISC	2 %	17		625 sq	No
Ceiling:	Plaster, Stipple Texture	SURF	None Detected	8		625 sq	
Building: <u>02 - Cafeteria</u>		Room: <u>04 - Restroom Vestibule - 12 x 4 x 9</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1	1E	48 sq	No
Floor:	Black Mastic (Cafeteria)	MISC	Assumed	22		48 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		32 ln	
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11		288 sq	
Ceiling:	12" ACT Pinhle Fissure (Cafeteria)	MISC	2 %	17		48 sq	No

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgn's Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>02 - Cafeteria</u>		Room: <u>05 - Men's Restroom - 8 x 5 x 9</u>				
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10	40 sq	
Baseboard:	4" Ceramic Tile, Yellow	MISC	None Detected	9	26 ln	
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11	234 sq	
Ceiling:	12" ACT Pinhle Fissure (Cafeteria)	MISC	2 %	17	40 sq	No
Building: <u>02 - Cafeteria</u>		Room: <u>06 - Women's Restroom - 8 x 5 x 9</u>				
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10	40 sq	
Baseboard:	4" Ceramic Tile, Pink	MISC	None Detected	13	26 ln	
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11 11F	234 sq	
Ceiling:	12" ACT Pinhle Fissure (Cafeteria)	MISC	2 %	17	40 sq	No
Building: <u>02 - Cafeteria</u>		Room: <u>07 - Cold Storage Hallway - 25 x 5 x 9</u>				
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1	125 sq	No
Floor:	Black Mastic (Cafeteria)	MISC	Assumed	22	125 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2	60 ln	
Walls:	FRP and Glue, Off-White	MISC	None Detected	19 19A	540 sq	
Ceiling:	Plaster, Orange Peel Texture	SURF	None Detected	11	125 sq	
Building: <u>02 - Cafeteria</u>		Room: <u>08 - Dry Storage - 12 x 12 x 9</u>				
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1	144 sq	No
Floor:	Black Mastic (Cafeteria)	MISC	Assumed	22	144 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2	69 ln	
Walls:	Plaster, Stipple Texture	SURF	None Detected	8	622 sq	
Ceiling:	Plaster, Stipple Texture	SURF	None Detected	8 8A	144 sq	
Building: <u>02 - Cafeteria</u>		Room: <u>09 - Kitchen N Hallway - 19 x 4 x 9</u>				
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1	76 sq	No
Floor:	Black Mastic (Cafeteria)	MISC	Assumed	22	76 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2	36 ln	
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11	328 sq	
Ceiling:	Plaster, Orange Peel Texture	SURF	None Detected	11	76 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

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HMS Project Number: P76317H

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Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>02 - Cafeteria</u>		Room: <u>10 - Staff Locker Room - 10 x 6 x 9</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		60 sq	No
Floor:	Black Mastic (Cafeteria)	MISC	Assumed	22		60 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		28 ln	
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11		259 sq	
Ceiling:	Plaster, Orange Peel Texture	SURF	None Detected	11		60 sq	
Building: <u>02 - Cafeteria</u>		Room: <u>11 - Office - 17 x 15 x 9</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		255 sq	No
Floor:	Black Mastic (Cafeteria)	MISC	Assumed	22		255 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		41 ln	
Walls:	12" ACT Pinhle Fissure (Cafeteria)	MISC	2 %	17		90 sq	No
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhle Fissure (Cafeteria)	MISC	2 %	17	17C	255 sq	No
Ceiling:	Plaster, Stipple Texture	SURF	None Detected	8		255 sq	
Building: <u>02 - Cafeteria</u>		Room: <u>12 - Cafeteria Men's RR - 13 x 9 x 9</u>					
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10	10B	117 sq	
Walls:	4" Ceramic Tile, White	MISC	None Detected	23	23A	396 sq	
Ceiling:	Plaster, Orange Peel Texture	SURF	None Detected	11	11D	117 sq	
Building: <u>02 - Cafeteria</u>		Room: <u>13 - Cafeteria Women's RR - 13 x 9 x 9</u>					
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10		117 sq	
Walls:	4" Ceramic Tile, White	MISC	None Detected	23		396 sq	
Ceiling:	Plaster, Orange Peel Texture	SURF	None Detected	11		117 sq	

Functional Space Notes

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Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>03 - Dining Hall</u>		Room: <u>01- Dining Hall Area - 80 x 55 x 20</u>				
Floor: Concrete	MISC	Assumed	15		4400 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Grey	MISC	None Detected	24		270 ln	
Walls: Brick & Mortar <i>Comment: At Columns</i>	MISC	None Detected	29	29A	540 sq	
Walls: Drywall, Orange Peel Texture <i>Comment: North and South Upper Walls</i>	MISC	None Detected	26	26F	810 sq	
Walls: Tackboard and Glue, Grey	MISC	None Detected	25		5400 sq	
Ceiling: Metal	NON	Non-Suspect				
Building: <u>03 - Dining Hall</u>		Room: <u>02 - Hallway - 28 x 9 x 9</u>				
Floor: Concrete	MISC	Assumed	15		252 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Grey	MISC	None Detected	24		74 ln	
Walls: 4" Vinyl Baseboard and Mastic, Grey	MISC	None Detected	24		666 sq	
Ceiling: 12" ACT Small Pinhole	MISC	2 %	27	27C	202 sq	No
Ceiling: Drywall, Orange Peel Texture	MISC	None Detected	26		252 sq	
Building: <u>03 - Dining Hall</u>		Room: <u>03 - Eastern Storage - 15 x 15 x 9</u>				
Floor: Concrete	MISC	Assumed	15		225 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Grey	MISC	None Detected	24		60 ln	
Walls: Drywall, Orange Peel Texture	MISC	None Detected	26	26E	540 sq	
Ceiling: Fiberglass	NON	Non-Suspect				
Building: <u>03 - Dining Hall</u>		Room: <u>04 - Western Storage - 15 x 15 x 9</u>				
Floor: Concrete	MISC	Assumed	15		225 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Grey	MISC	None Detected	24		60 ln	
Walls: Drywall, Orange Peel Texture	MISC	None Detected	26		540 sq	
Ceiling: Fiberglass	NON	Non-Suspect				
Building: <u>03 - Dining Hall</u>		Room: <u>05 - Women's RR - 15 x 15 x 9</u>				
Floor: 6" Ceramic Tile, Grey	MISC	Assumed	28		225 sq	No
Walls: 4" Ceramic Tile, White	MISC	None Detected	23		540 sq	
Ceiling: Drywall, Orange Peel Texture	MISC	None Detected	26		225 sq	

Functional Space Notes

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Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 03 - Dining Hall		Room: 06 - Custodial - 9 x 5 x 8					
Floor:	Concrete	MISC	Assumed	15		45 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Grey	MISC	None Detected	24	24C	28 ln	
Walls:	Drywall, Orange Peel Texture	MISC	None Detected	26		224 sq	
Walls:	FRP and Glue, Off-White	MISC	None Detected	19		22 sq	
Comment: Nw corner							
Ceiling:	Fiberglass	NON	Non-Suspect				
Room Roof Access							
Comments:							
Building: 03 - Dining Hall		Room: 07 - Men's Restroom - 15 x 15 x 9					
Floor:	6" Ceramic Tile, Grey	MISC	Assumed	28		225 sq	No
Walls:	4" Ceramic Tile, White	MISC	None Detected	23		540 sq	
Ceiling:	Drywall, Orange Peel Texture	MISC	None Detected	26	26D	225 sq	

Functional Space Notes

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Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 04 - Band		Room: 01 - Classroom 1903 - 60 x 42 x 14					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		2520 sq	No
Floor:	Black Mastic (Band)	MISC	Assumed	32		2520 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		204 ln	
Walls:	12" ACT Pinhole Uniform	MISC	2 %	30	30B	1142 sq	No
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhole Uniform	MISC	2 %	30		2520 sq	No
Building: 04 - Band		Room: 02 - Restroom (1903) - 8 x 8 x 8					
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10		64 sq	
Baseboard:	4" Ceramic Tile, Yellow	MISC	None Detected	9		32 ln	
Walls:	Plaster, Stipple Texture	SURF	None Detected	8	8F	256 sq	
Ceiling:	12" ACT Pinhole Fissure (band)	MISC	None Detected	31		64 sq	
Room	<i>At Main Entry</i>						
Comments:							
Building: 04 - Band		Room: 03 - Custodial (1903) - 5 x 4 x 8					
Floor:	Concrete	MISC	Assumed	15		20 sq	No
Baseboard:	Concrete	MISC	Assumed	15		18 ln	No
Walls:	Plaster, Stipple Texture	SURF	None Detected	8		144 sq	
Ceiling:	Plaster, Stipple Texture	SURF	None Detected	8		20 sq	
Building: 04 - Band		Room: 04 - Office (1903) - 12 x 9 x 8					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		108 sq	No
Floor:	Black Mastic (Band)	MISC	Assumed	32		108 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		42 ln	
Walls:	12" ACT Pinhole Fissure (band)	MISC	None Detected	31	31A	34 sq	
	<i>Comment: Upper 1ft</i>						
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhole Fissure (band)	MISC	None Detected	31		108 sq	

Functional Space Notes

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Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 04 - Band		Room: 05 - Storage 1 (1903) - 12 x 9 x 8				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		108 sq	No
Floor: Black Mastic (Band)	MISC	Assumed	32		108 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		42 ln	
Walls: 12" ACT Pinhole Fissure (band) <i>Comment: Upper 1ft</i>	MISC	None Detected	31		34 sq	
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhole Fissure (band)	MISC	None Detected	31		108 sq	
Building: 04 - Band		Room: 06 - Storage 2 (1903) - 12 x 9 x 8				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		108 sq	No
Floor: Black Mastic (Band)	MISC	Assumed	32		108 sq	No
Walls: Plaster, Stipple Texture	SURF	None Detected	8	8E	336 sq	
Ceiling: 12" ACT Pinhole Fissure (band)	MISC	None Detected	31		108 sq	
Building: 04 - Band		Room: 07 - Storage 3 (1903) - 10 x 20 x 8				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		200 sq	No
Floor: Black Mastic (Band)	MISC	Assumed	32		200 sq	No
Walls: Plaster, Stipple Texture	SURF	None Detected	8	8G	622 sq	
Ceiling: 12" ACT Pinhole Fissure (band)	MISC	None Detected	31		200 sq	
<i>Room Comments:</i> Contains Lockers						
Building: 04 - Band		Room: 08 - Uniform Storage (1903) - 15 x 11 x 9				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		165 sq	No
Floor: Black Mastic (Band)	MISC	Assumed	32		165 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		52 ln	
Walls: Plaster, Stipple Texture	SURF	None Detected	8		513 sq	
Ceiling: 12" ACT Pinhole Fissure (band)	MISC	None Detected	31		165 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 04 - Band		Room: 09 - NW Storage (1903) - 9 x 6 x 9					
Floor:	12" Vinyl Floor Tile Grey Streaks	MISC	None Detected	33	33C	54 sq	
Floor:	Black Mastic (Band)	MISC	Assumed	32		54 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		30 ln	
Walls:	Carpet and Mastic, Blue Multi	MISC	None Detected	34		135 sq	
	<i>Comment: Upper four feet</i>						
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhole Uniform	MISC	2 %	30		54 sq	No
Building: 04 - Band		Room: 10 - N Side, Center Storage(1903) - 9 x 6 x 9					
Floor:	12" Vinyl Floor Tile Grey Streaks	MISC	None Detected	33		54 sq	
Floor:	Black Mastic (Band)	MISC	Assumed	32		54 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		30 ln	
Walls:	Carpet and Mastic, Blue Multi	MISC	None Detected	34		135 sq	
	<i>Comment: Upper four feet</i>						
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhole Uniform	MISC	2 %	30		54 sq	No
Building: 04 - Band		Room: 11 - NE Storage (1903) - 13 x 9 x 9					
Floor:	12" Vinyl Floor Tile Grey Streaks	MISC	None Detected	33	33B	117 sq	
Floor:	Black Mastic (Band)	MISC	Assumed	32		117 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		65 ln	
Walls:	Carpet and Mastic, Blue Multi	MISC	None Detected	34	34A	293 sq	
	<i>Comment: Upper four feet</i>						
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhole Uniform	MISC	2 %	30		117 sq	No
Building: 04 - Band		Room: 12 - Ext Chiller Room - 15 x 10 x 12					
Floor:	Concrete	MISC	Assumed	15		150 sq	No
Baseboard:	Concrete	MISC	Assumed	15		50 ln	No
Walls:	Plaster, Stipple Texture	SURF	None Detected	8		600 sq	
Ceiling:	Plaster, Stipple Texture	SURF	None Detected	8		150 sq	
Pipes:	3" Pre-Formed Block Insulation	TSI	None Detected	36	36A	2 ea	
Pipes:	Fiberglass Pipe Insulation w/ Canvas Wra	TSI	None Detected	35	35E	2 ea	
Pipes:	Hard Elbows	TSI	None Detected	37	37D	3 ea	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 04 - Band		Room: 13 - Classroom Hallway - 11 x 6 x 9				
Floor: 12" Vinyl Floor Tile Off-White Oatmeal	MISC	5 %	38	38A	66 sq	No
Floor: Black Mastic (Band)	MISC	Assumed	32		66 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		34 ln	
Walls: 12" ACT Pinhole Uniform	MISC	2 %	30		31 sq	No
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhole Uniform	MISC	2 %	30		66 sq	No
Building: 04 - Band		Room: 14 - Classroom 1904 - 34 x 33 x 14				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		1122 sq	No
Floor: Black Mastic (Band)	MISC	Assumed	32		1122 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		134 ln	
Walls: 12" ACT Pinhole Uniform	MISC	2 %	30		750 sq	No
<i>Comment: Upper portion</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhole Uniform	MISC	2 %	30	30A	1122 sq	No
Ceiling: Plaster, Stipple Texture	SURF	None Detected	8		1122 sq	
Building: 04 - Band		Room: 15 - NW Office (1904) - 11 x 8 x 9				
Floor: 12" Vinyl Floor Tile Off-White Oatmeal	MISC	5 %	38		88 sq	No
Floor: Black Mastic (Band)	MISC	Assumed	32		88 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		38 ln	
Walls: 12" ACT Pinhole Fissure (band)	MISC	None Detected	31		68 sq	
<i>Comment: Upper 2 ft</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhole Fissure (band)	MISC	None Detected	31		88 sq	
Building: 04 - Band		Room: 16 - Center Office (1904) - 11 x 8 x 9				
Floor: 12" Vinyl Floor Tile Off-White Oatmeal	MISC	5 %	38		88 sq	No
Floor: Black Mastic (Band)	MISC	Assumed	32		88 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Brown	MISC	2 %	39		38 ln	No
Walls: 12" ACT Pinhole Fissure (band)	MISC	None Detected	31		68 sq	
<i>Comment: Upper 2 ft</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhole Fissure (band)	MISC	None Detected	31	31B	88 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 04 - Band		Room: 17 - NE Storage (1904) - 11 x 8 x 9				
Floor: 12" Vinyl Floor Tile Off-White Oatmeal	MISC	5 %	38	38B	88 sq	No
Floor: Black Mastic (Band)	MISC	Assumed	32		88 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		38 ln	
Walls: Plaster, Stipple Texture	SURF	None Detected	8		342 sq	
Ceiling: Plaster, Stipple Texture	SURF	None Detected	8		88 sq	
<i>Room Attic Access</i>						
<i>Comments:</i>						

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>05 - Pool House</u>		Room: <u>01 - Office 1 - 20 x 8 x 9</u>				
Floor: Concrete	MISC	Assumed	15		160 sq	No
Walls: CMU	MISC	None Detected	40	40C	252 sq	
Walls: Drywall, Painted <i>Comment: S wall</i>	MISC	None Detected	41	41B	252 sq	
Building: <u>05 - Pool House</u>		Room: <u>02 - Office 2 - 20 x 8 x 9</u>				
Floor: Concrete	MISC	Assumed	15		160 sq	No
Walls: CMU	MISC	None Detected	40		252 sq	
Walls: Drywall, Painted <i>Comment: N wall</i>	MISC	None Detected	41	41A	252 sq	
Building: <u>05 - Pool House</u>		Room: <u>03 - Pool Equipment - 38 x 22 x 11</u>				
Floor: Concrete	MISC	Assumed	15		836 sq	No
Walls: CMU	MISC	None Detected	40	40B	1320 sq	
Ceiling: Fiberglass	NON	Non-Suspect				
<i>Room Comments: Roof Access</i>						

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

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HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>06 - Snack Bar</u>		Room: <u>01 - Snack Bar - 55 x 8 x 10</u>				
Floor:	Concrete	MISC	Assumed	15	440 sq	No
Baseboard:	6" Ceramic Tile, Light Brown	MISC	None Detected	18	126 ln	
Walls:	FRP and Glue, Off-White	MISC	None Detected	19	1260 sq	
Ceiling:	Drywall, Painted	MISC	None Detected	41	440 sq	
Building: <u>06 - Snack Bar</u>		Room: <u>02 - Girl's RR - 41 x 12 x 10</u>				
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10	492 sq	
Baseboard:	1" Grey Ceramic Tile	MISC	None Detected	10	106 ln	
Walls:	4" Ceramic Tile, White	MISC	None Detected	23	1060 sq	
Ceiling:	Drywall, Painted	MISC	None Detected	41	492 sq	
Building: <u>06 - Snack Bar</u>		Room: <u>03 - Boy's RR - 41 x 12 x 10</u>				
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10	492 sq	
Baseboard:	1" Grey Ceramic Tile	MISC	None Detected	10	106 ln	
Walls:	4" Ceramic Tile, White	MISC	None Detected	23	1060 sq	
Ceiling:	Drywall, Painted	MISC	None Detected	41	492 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

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HMS Project Number: P76317H

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Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>07 - Boy's Locker Room (1719)</u>		Room: <u>01 - Locker Room - 55 x 42 x 15</u>				
Floor: 1" Grey Ceramic Tile <i>Comment: A Shower</i>	MISC	None Detected	10		231 sq	
Floor: Concrete	MISC	Assumed	15		2310 sq	No
Baseboard: Concrete	MISC	Assumed	15		194 ln	No
Walls: 4" Ceramic Tile, Yellow <i>Comment: At Shower</i>	MISC	None Detected	9		582 sq	
Walls: Plaster, Stipple Texture	SURF	None Detected	8		2910 sq	
Ceiling: Transite Ceiling Panels	MISC	Known	21		2310 sq	No
Building: <u>07 - Boy's Locker Room (1719)</u>		Room: <u>02 - Restroom - 38 x 10 x 10</u>				
Floor: 1" Grey Ceramic Tile	MISC	None Detected	10		380 sq	
Walls: 4" Ceramic Tile, Yellow	MISC	None Detected	9		480 sq	
Walls: Plaster, Stipple Texture	SURF	None Detected	8		960 sq	
Ceiling: Transite Ceiling Panels	MISC	Known	21		380 sq	No
Building: <u>07 - Boy's Locker Room (1719)</u>		Room: <u>03 - Custodial - 7 x 5 x 10</u>				
Floor: Concrete	MISC	Assumed	15		35 sq	No
Baseboard: Concrete	MISC	Assumed	15		24 ln	No
Walls: Plaster, Stipple Texture	SURF	None Detected	8		240 sq	
Ceiling: Plaster, Stipple Texture	SURF	None Detected	8		35 sq	
Building: <u>07 - Boy's Locker Room (1719)</u>		Room: <u>04 - NE Locker Room Alcove - 17 x 16 x 10</u>				
Floor: Concrete	MISC	Assumed	15		272 sq	No
Baseboard: Concrete	MISC	Assumed	15		54 ln	No
Walls: Plaster, Stipple Texture	SURF	None Detected	8		754 sq	
Ceiling: Transite Ceiling Panels	MISC	Known	21		272 sq	No
Building: <u>07 - Boy's Locker Room (1719)</u>		Room: <u>05 - NW Locker Room Alcove - 23 x 18 x 14</u>				
Floor: Concrete	MISC	Assumed	15		414 sq	No
Baseboard: Concrete	MISC	Assumed	15		82 ln	No
Walls: Plaster, Stipple Texture	SURF	None Detected	8		1148 sq	
Ceiling: Transite Ceiling Panels	MISC	Known	21		414 sq	No

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgn's Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>07 - Boy's Locker Room (1719)</u>		Room: <u>06 - Foyer - 10 x 8 x 8</u>					
Floor:	Concrete	MISC	Assumed	15		80 sq	No
Baseboard:	Concrete	MISC	Assumed	15		36 ln	No
Walls:	4" Ceramic Tile, White	MISC	None Detected	23	23B		
Walls:	Plaster, Stipple Texture	SURF	None Detected	8		288 sq	
Ceiling:	Transite Ceiling Panels	MISC	Known	21		80 sq	No
Building: <u>07 - Boy's Locker Room (1719)</u>		Room: <u>07 - Helmet Storage - 19 x 8 x 14</u>					
Floor:	Concrete	MISC	Assumed	15		152 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		54 ln	
Walls:	Plaster, Stipple Texture	SURF	None Detected	8	8C	756 sq	
Ceiling:	Transite Ceiling Panels	MISC	Known	21		152 sq	No
Building: <u>07 - Boy's Locker Room (1719)</u>		Room: <u>08 - Coaches Office - 13 x 11 x 8</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		143 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Grey	MISC	None Detected	24	24A	48 ln	
Walls:	Plaster, Stipple Texture	SURF	None Detected	8		384 sq	
Ceiling:	Transite Ceiling Panels	MISC	Known	21		143 sq	No
Building: <u>07 - Boy's Locker Room (1719)</u>		Room: <u>09 - Coaches RR - 12 x 12 x 8</u>					
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10		144 sq	
Walls:	4" Ceramic Tile, Yellow	MISC	None Detected	9		192 sq	
Walls:	Plaster, Stipple Texture	SURF	None Detected	8		384 sq	
Ceiling:	Transite Ceiling Panels	MISC	Known	21		144 sq	No
Building: <u>07 - Boy's Locker Room (1719)</u>		Room: <u>10 - Coaches Office 2 - 8 x 11 x 8</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		88 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Grey	MISC	None Detected	24		30 ln	
Walls:	Plaster, Stipple Texture	SURF	None Detected	8		236 sq	
Ceiling:	Transite Ceiling Panels	MISC	Known	21		88 sq	No
Building: <u>07 - Boy's Locker Room (1719)</u>		Room: <u>12 - Storage - 11 x 5 x 8</u>					
Floor:	Concrete	MISC	Assumed	15		55 sq	No
Baseboard:	Concrete	MISC	Assumed	15		32 ln	No
Walls:	Plaster, Stipple Texture	SURF	None Detected	8		256 sq	
Ceiling:	Transite Ceiling Panels	MISC	Known	21		55 sq	No

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>07 - Boy's Locker Room (1719)</u>		Room: <u>13 - Exterior Boiler Room - 14 x 11 x 10</u>					
Floor:	Concrete	MISC	Assumed	15		154 sq	No
Baseboard:	Concrete	MISC	Assumed	15		50 ln	No
Walls:	Plaster, Stipple Texture	SURF	None Detected	8		500 sq	
Ceiling:	Plaster, Stipple Texture	SURF	None Detected	8		154 sq	
Pipes:	Fiberglass Pipe Insuation w/ Canvas Wra	TSI	None Detected	35	35D	4 ea	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

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HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Building: 08 - Concessions

Building Comment: *Attached to Gym East Side*

Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>08 - Concessions</u>		Room: <u>01 - Eastern Laundry Rm - 16 x 7 x 8</u>					
Floor:	Concrete	MISC	Assumed	15		112 sq	No
Baseboard:	Concrete	MISC	Assumed	15		46 ln	No
Walls:	Plaster, Stipple Texture	SURF	None Detected	8	8D	368 sq	
Ceiling:	Plaster, Stipple Texture	SURF	None Detected	8		112 sq	
Building: <u>08 - Concessions</u>		Room: <u>02 - NW Storage - 13 x 8 x 8</u>					
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10		104 sq	
Walls:	4" Ceramic Tile, White	MISC	None Detected	23		336 sq	
Ceiling:	Plaster, Stipple Texture	SURF	None Detected	8		104 sq	
Building: <u>08 - Concessions</u>		Room: <u>Attic</u>					
Floor:	Wood	NON	Non-Suspect				

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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Site: Selma High School

HMS Project Number: P76317H

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Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 09 - Gym		Room: Gym - 100 x 90 x 25				
Floor: Wood	NON	Non-Suspect				
Baseboard: Metal	NON	Non-Suspect				
Walls: Concrete	MISC	Assumed	15		9500 sq	No
Ceiling: 12" ACT Pinhole Random <i>Comment: No Access</i>	MISC	Assumed	42		900 sq	No
Ceiling: Concrete <i>Comment: North Side</i>	MISC	Assumed	15		900 sq	No
Ceiling: Wood	NON	Non-Suspect				

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

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HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>10 - Girl's Locker Room (1719)</u>		Room: <u>01 - Foyer - 12 x 6 x 16</u>					
Floor:	Concrete	MISC	Assumed	15		72 sq	No
Walls:	CMU	MISC	None Detected	40		576 sq	
Ceiling:	Metal	NON	Non-Suspect				
Building: <u>10 - Girl's Locker Room (1719)</u>		Room: <u>02 - Custodial Closet - 11 x 5 x 12</u>					
Floor:	Concrete	MISC	Assumed	15		55 sq	No
Walls:	CMU	MISC	None Detected	40		440 sq	
Ceiling:	Metal	NON	Non-Suspect				
Building: <u>10 - Girl's Locker Room (1719)</u>		Room: <u>03 - Coaches Office - 20 x 18 x 9</u>					
Floor:	12" Vinyl Floor Tile, Brown Oameal	MISC	None Detected	43	43A	360 sq	
Baseboard:	4" Vinyl Baseboard and Mastic, Black	MISC	None Detected	44	44A	76 ln	
Walls:	Drywall, Orange Peel Texture	MISC	None Detected	26	26C	684 sq	
Ceiling:	Drywall, Orange Peel Texture	MISC	None Detected	26	26B	360 sq	
Room Comments:	<i>Includes Vestibules</i>						
Building: <u>10 - Girl's Locker Room (1719)</u>		Room: <u>04 - Roof Access Closet - 7 x 6 x 16</u>					
Floor:	12" Vinyl Floor Tile, Brown Oameal	MISC	None Detected	43	43B	42 sq	
Baseboard:	4" Vinyl Baseboard and Mastic, Black	MISC	None Detected	44	44C	26 ln	
Walls:	CMU	MISC	None Detected	40	40A	104 sq	
Walls:	Drywall, Orange Peel Texture	MISC	None Detected	26		312 sq	
Ceiling:	Metal	NON	Non-Suspect				
Room Comments:	<i>At Coaches Office</i>						
Building: <u>10 - Girl's Locker Room (1719)</u>		Room: <u>05 - Coaches RR - 18 x 8 x 9</u>					
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10		144 sq	
Walls:	4" Ceramic Tile, White	MISC	None Detected	23		374 sq	
Walls:	Drywall, Orange Peel Texture	MISC	None Detected	26		468 sq	
Ceiling:	Drywall, Orange Peel Texture	MISC	None Detected	26		144 sq	

Functional Space Notes

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Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 10 - Girl's Locker Room (1719)		Room: 06 - Locker Room RR - 25 x 10 x 16					
Floor:	Concrete	MISC	Assumed	15		250 sq	No
Walls:	4" Ceramic Tile, White	MISC	None Detected	23		649 sq	
Walls:	CMU	MISC	None Detected	40		112 sq	
	<i>Comment: At Partition Walls</i>						
Walls:	Drywall, Orange Peel Texture	MISC	None Detected	26		813 sq	
Ceiling:	Drywall, Orange Peel Texture	MISC	None Detected	26		250 sq	
Building: 10 - Girl's Locker Room (1719)		Room: 07 - Shower Area - 30 x 10 x 11					
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10		300 sq	
Walls:	4" Ceramic Tile, White	MISC	None Detected	23		779 sq	
Walls:	Drywall, Orange Peel Texture	MISC	None Detected	26		975 sq	
Ceiling:	Drywall, Orange Peel Texture	MISC	None Detected	26		300 sq	
Building: 10 - Girl's Locker Room (1719)		Room: 08 - Locker Room Main NE - 27 x 25 x 16					
Floor:	Concrete	MISC	Assumed	15		675 sq	No
Walls:	4" Ceramic Tile, White	MISC	None Detected	23		83 sq	
	<i>Comment: East Wall at Sinks</i>						
Walls:	CMU	MISC	None Detected	40		1331 sq	
Walls:	Drywall, Orange Peel Texture	MISC	None Detected	26		333 sq	
Ceiling:	Metal	NON	Non-Suspect				
Building: 10 - Girl's Locker Room (1719)		Room: 09 - Varsity Locker Room Center - 30 x 11 x 11					
Floor:	Concrete	MISC	Assumed	15		330 sq	No
Walls:	CMU	MISC	None Detected	40		902 sq	
Ceiling:	Metal	NON	Non-Suspect				
Building: 10 - Girl's Locker Room (1719)		Room: 10 - Locker Room Main SW - 34 x 34 x 16					
Floor:	Concrete	MISC	Assumed	15		1156 sq	No
Walls:	CMU	MISC	None Detected	40		2176 sq	
Ceiling:	Metal	NON	Non-Suspect				
<i>Room Comments:</i>		<i>Includes exit foyer</i>					

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgs Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>10 - Girl's Locker Room (1719)</u>		Room: <u>11 - Equipment 3 - 9 x 6 x 12</u>				
Floor:	Concrete	MISC	Assumed	15	54 sq	No
Walls:	CMU	MISC	None Detected	40	360 sq	
Ceiling:	Metal	NON	Non-Suspect			
Building: <u>10 - Girl's Locker Room (1719)</u>		Room: <u>12 - Equipment 1 - 25 x 9 x 9</u>				
Floor:	Concrete	MISC	Assumed	15	225 sq	No
Walls:	CMU	MISC	None Detected	40	612 sq	
Ceiling:	Metal	NON	Non-Suspect			
<i>Room Comments: (includes eq 2)</i>						

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgn's Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>11 - Boy's Locker Room (1507)</u>		Room: <u>01 - Foyer - 15 x 6 x 10</u>					
Floor:	Concrete	MISC	Assumed	15		90 sq	No
Baseboard:	Concrete	MISC	Assumed	15		42 ln	No
Walls:	FRP and Glue, Off-White	MISC	None Detected	19		336 sq	
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11		420 sq	
Ceiling:	Transite Ceiling Panels	MISC	Known	21		90 sq	No
Building: <u>11 - Boy's Locker Room (1507)</u>		Room: <u>02 - Storage 1 - 7 x 5 x 10</u>					
Floor:	Concrete	MISC	Assumed	15		35 sq	No
Baseboard:	Concrete	MISC	Assumed	15		24 ln	No
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11		240 sq	
Ceiling:	Plaster, Orange Peel Texture	SURF	None Detected	11	11B	35 sq	
Pipes:	Fiberglass Pipe Insulation w/ Canvas Wra	TSI	None Detected	35		2 ea	
Room Comments:	<i>At foyer</i>						
Building: <u>11 - Boy's Locker Room (1507)</u>		Room: <u>03 - Restroom - 16 x 12 x 10</u>					
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10		192 sq	
Walls:	4" Ceramic Tile, Pink	MISC	None Detected	13		280 sq	
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11		560 sq	
Ceiling:	Transite Ceiling Panels	MISC	Known	21		192 sq	No
Building: <u>11 - Boy's Locker Room (1507)</u>		Room: <u>04 - Shower - 38 x 8 x 10</u>					
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10		304 sq	
Walls:	4" Ceramic Tile, Pink	MISC	None Detected	13		443 sq	
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11		887 sq	
Ceiling:	Transite Ceiling Panels	MISC	Known	21		304 sq	No
Building: <u>11 - Boy's Locker Room (1507)</u>		Room: <u>05 - Locker Room Main - 35 x 33 x 14</u>					
Floor:	Concrete	MISC	Assumed	15		1155 sq	No
Baseboard:	Concrete	MISC	Assumed	15		136 ln	No
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11		1904 sq	
Ceiling:	Transite Ceiling Panels	MISC	Known	21		1155 sq	No

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>11 - Boy's Locker Room (1507)</u>		Room: <u>06 - Coaches Office - 17 x 11 x 8</u>				
Floor:	12" Vinyl Floor Tile Off-White Oatmeal	MISC	5 %	38	38D	187 sq No
Floor:	Black Mastic (Locker Rooms)	MISC	Assumed	45		187 sq No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		56 ln
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11		448 sq
Ceiling:	Transite Ceiling Panels	MISC	Known	21		187 sq No
Building: <u>11 - Boy's Locker Room (1507)</u>		Room: <u>07 - Coaches RR - 11 x 9 x 8</u>				
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10		99 sq
Walls:	4" Ceramic Tile, Pink	MISC	None Detected	13		160 sq
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11		320 sq
Ceiling:	Transite Ceiling Panels	MISC	Known	21		99 sq No
Building: <u>11 - Boy's Locker Room (1507)</u>		Room: <u>08 - Storage 2 - 15 x 10 x 8</u>				
Floor:	Concrete	MISC	Assumed	15		150 sq No
Baseboard:	4" Vinyl Baseboard and Mastic, Grey	MISC	None Detected	24	24B	50 ln
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11		400 sq
Ceiling:	Transite Ceiling Panels	MISC	Known	21		150 sq No
<i>Room Comments:</i> <u>Near Coaches Office</u>						
Building: <u>11 - Boy's Locker Room (1507)</u>		Room: <u>08 - Storage 3 - 12 x 7 x 10</u>				
Floor:	Concrete	MISC	Assumed	15		84 sq No
Baseboard:	Concrete	MISC	Assumed	15		28 ln No
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11		224 sq
Ceiling:	Transite Ceiling Panels	MISC	Known	21		84 sq No
Building: <u>11 - Boy's Locker Room (1507)</u>		Room: <u>09 - Electrical Closet - 9 x 8 x 10</u>				
Floor:	Concrete	MISC	Assumed	15		72 sq No
Baseboard:	Concrete	MISC	Assumed	15		34 ln No
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11		340 sq
Ceiling:	Plaster, Orange Peel Texture	SURF	None Detected	11		72 sq

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 12 - 1001-1010 Classroom Wing		Room: 01 - Room 1007 - 30 x 30 x 9				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		900 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		900 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		90 ln	
Baseboard: 4" Vinyl Baseboard and Mastic, Light Gr	MISC	None Detected	46	46A	30 ln	
<i>Comment: West Wall</i>						
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		216 sq	No
<i>Comment: Upper Portion</i>						
Walls: Metal	NON	Non-Suspect				
<i>Comment: North wall</i>						
Walls: Tackboard and Glue, Off White	MISC	None Detected	4	4A	864 sq	
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		900 sq	
Building: 12 - 1001-1010 Classroom Wing		Room: 02 - Room 1005 - 30 x 30 x 9				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		900 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		900 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		90 ln	
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		216 sq	No
<i>Comment: Upper Portion</i>						
Walls: Metal	NON	Non-Suspect				
<i>Comment: North Wall</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		225 sq	
Building: 12 - 1001-1010 Classroom Wing		Room: 03 - Room 1003 - 30 x 30 x 9				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		900 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		900 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		90 ln	
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		216 sq	No
<i>Comment: Upper Portion</i>						
Walls: Metal	NON	Non-Suspect				
<i>Comment: North Wall</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		225 sq	

Functional Space Notes

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Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>12 - 1001-1010 Classroom Wing</u>		Room: <u>04 - Room 1001 Nurse's Office - 35 x 15 x 9</u>				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		525 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		525 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		100 ln	
Walls: Metal	NON	Non-Suspect				
Walls: Plaster, Orange Peel Texture	SURF	None Detected	11		675 sq	
Ceiling: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47	47C	525 sq	No
Building: <u>12 - 1001-1010 Classroom Wing</u>		Room: <u>05 - Boy's Restroom - 23 x 13 x 10</u>				
Floor: 1" Grey Ceramic Tile	MISC	None Detected	10		299 sq	
Walls: 4" Ceramic Tile, White	MISC	None Detected	23		720 sq	
Ceiling: Plaster, Orange Peel Texture	SURF	None Detected	11		299 sq	
Building: <u>12 - 1001-1010 Classroom Wing</u>		Room: <u>06 - Custodial at Boy's Restroom - 9 x 4 x 10</u>				
Floor: Concrete	MISC	Assumed	15		36 sq	No
Walls: Plaster, Orange Peel Texture	SURF	None Detected	11		260 sq	
Ceiling: Plaster, Orange Peel Texture	SURF	None Detected	11		36 sq	
Pipes: Fiberglass Pipe Insulation w/ Canvas Wra	TSI	None Detected	35	35A	4 ea	
<i>Comment: West Side</i>						
Building: <u>12 - 1001-1010 Classroom Wing</u>		Room: <u>07 - Women's RR - 23 x 9 x 10</u>				
Floor: 1" Grey Ceramic Tile	MISC	None Detected	10		207 sq	
Walls: 4" Ceramic Tile, White	MISC	None Detected	23		640 sq	
Ceiling: Plaster, Orange Peel Texture	SURF	None Detected	11		207 sq	
Building: <u>12 - 1001-1010 Classroom Wing</u>		Room: <u>08 - Room 1002 - 30 x 30 x 9</u>				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		900 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		900 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		90 ln	
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		216 sq	No
<i>Comment: Upper Portion</i>						
Walls: Metal	NON	Non-Suspect				
<i>Comment: South Wall</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		225 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>12 - 1001-1010 Classroom Wing</u>		Room: <u>09 - Room 1004 - 30 x 30 x 9</u>				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1	1H	900 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		900 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		90 ln	
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47	47D	216 sq	No
<i>Comment: Upper Portion</i>						
Walls: Metal	NON	Non-Suspect				
<i>Comment: South Wall</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		225 sq	
Building: <u>12 - 1001-1010 Classroom Wing</u>		Room: <u>10 - Room 1006 - 30 x 30 x 9</u>				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		900 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		900 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		90 ln	
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47	47E	216 sq	No
<i>Comment: Upper Portion</i>						
Walls: Metal	NON	Non-Suspect				
<i>Comment: South Wall</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48	48B	225 sq	
Building: <u>12 - 1001-1010 Classroom Wing</u>		Room: <u>11 - Room 1008 - 30 x 30 x 9</u>				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		900 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		900 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		90 ln	
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		216 sq	No
<i>Comment: Upper Portion</i>						
Walls: Metal	NON	Non-Suspect				
<i>Comment: South Wall</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		225 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>12 - 1001-1010 Classroom Wing</u>		Room: <u>12 - Room 1010 - 30 x 30 x 9</u>				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		900 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		900 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		90 ln	
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		216 sq	No
<i>Comment: Upper Portion</i>						
Walls: Metal	NON	Non-Suspect				
<i>Comment: South Wall</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		225 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>13 - 803-810 Classroom Wing</u>		Room: <u>01 - Room 809 - 30 x 30 x 9</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1	1G	900 sq	No
Floor:	Black Mastic (Classrooms)	MISC	Assumed	49		900 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		120 ln	
Walls:	12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		216 sq	No
Walls:	Metal	NON	Non-Suspect				
	<i>Comment: North wall</i>						
Walls:	Wood	NON	Non-Suspect				
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		900 sq	
Building: <u>13 - 803-810 Classroom Wing</u>		Room: <u>02 - Room 807 - 30 x 30 x 9</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		900 sq	No
Floor:	Black Mastic (Classrooms)	MISC	Assumed	49		900 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		120 ln	
Walls:	12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		216 sq	No
Walls:	Metal	NON	Non-Suspect				
	<i>Comment: North wall</i>						
Walls:	Wood	NON	Non-Suspect				
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		900 sq	
Building: <u>13 - 803-810 Classroom Wing</u>		Room: <u>03 - Room 805 - 30 x 30 x 9</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		900 sq	No
Floor:	Black Mastic (Classrooms)	MISC	Assumed	49		900 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		120 ln	
Walls:	12" ACT Pinhole Fissure classroom wing	MISC	2 %	47	47B	216 sq	No
Walls:	Metal	NON	Non-Suspect				
	<i>Comment: North wall</i>						
Walls:	Wood	NON	Non-Suspect				
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		900 sq	

Functional Space Notes

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Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 13 - 803-810 Classroom Wing		Room: 04 - Room 803 - 30 x 30 x 9				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		900 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		900 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		120 ln	
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		216 sq	No
Walls: Metal	NON	Non-Suspect				
<i>Comment: North wall</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		900 sq	
Building: 13 - 803-810 Classroom Wing		Room: 05 - Break Room North - 30 x 12 x 9				
Floor: Carpet and Mastic, Grey Multi Color	MISC	3 %	3	3B	360 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		84 ln	
Walls: Drywall Knockdown Texture	MISC	None Detected	50		189 sq	
<i>Comment: At RR Vestibule</i>						
Walls: Metal	NON	Non-Suspect				
<i>Comment: N Wall</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		360 sq	No
Ceiling: Plaster, Orange Peel Texture	SURF	None Detected	11		90 sq	
<i>Comment: At RR Vestibule</i>						
<i>Room Includes RR Vestibule</i>						
<i>Comments:</i>						
Building: 13 - 803-810 Classroom Wing		Room: 06 - Break Room RR (women's) - 9 x 6 x 9				
Floor: 1" Grey Ceramic Tile	MISC	None Detected	10		54 sq	
Walls: 4" Ceramic Tile, White	MISC	None Detected	23		270 sq	
Walls: Drywall Knockdown Texture	MISC	None Detected	50		27 sq	
Ceiling: Plaster, Orange Peel Texture	SURF	None Detected	11		54 sq	
Building: 13 - 803-810 Classroom Wing		Room: 07 - Custodial - 11 x 5 x 9				
Floor: Concrete	MISC	Assumed	15		55 sq	No
Baseboard: Concrete	MISC	Assumed	15		32 ln	No
Walls: Plaster, Stipple Texture	SURF	None Detected	8	8B	288 sq	
Ceiling: Plaster, Stipple Texture	SURF	None Detected	8		55 sq	
Pipes: Fiberglass Pipe Insulation w/ Canvas Wra	TSI	None Detected	35		2 ea	

Functional Space Notes

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Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>13 - 803-810 Classroom Wing</u>		Room: <u>08 - Break Room South - 30 x 12 x 9</u>				
Floor: Carpet and Mastic, Grey Multi Color	MISC	3 %	3	3D	360 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		84 ln	
Walls: Drywall Knockdown Texture <i>Comment: At RR Vestibule</i>	MISC	None Detected	50		189 sq	
Walls: Metal <i>Comment: S Wall</i>	NON	Non-Suspect				
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		360 sq	No
Ceiling: Plaster, Orange Peel Texture <i>Comment: At RR Vestibule</i>	SURF	None Detected	11		90 sq	
<i>Room Comments: Includes RR Vestibule</i>						
Building: <u>13 - 803-810 Classroom Wing</u>		Room: <u>09 - Break Room RR (mens) - 9 x 6 x 9</u>				
Floor: 1" Grey Ceramic Tile	MISC	None Detected	10		54 sq	
Walls: 4" Ceramic Tile, White	MISC	None Detected	23		270 sq	
Walls: Drywall Knockdown Texture	MISC	None Detected	50		27 sq	
Ceiling: Plaster, Orange Peel Texture	SURF	None Detected	11		54 sq	
Building: <u>13 - 803-810 Classroom Wing</u>		Room: <u>10 - Room 804 - 30 x 30 x 9</u>				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		900 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		900 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		120 ln	
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		216 sq	No
Walls: Metal <i>Comment: South wall</i>	NON	Non-Suspect				
Walls: Wood	NON	Non-Suspect				
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		900 sq	

Functional Space Notes

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Materials	Material Class	Percent Asbestos	Hmgn's Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 13 - 803-810 Classroom Wing		Room: 11 - Room 806 - 30 x 30 x 9				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		900 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		900 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		120 ln	
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47	47A	216 sq	No
Walls: Drywall Knockdown Texture	MISC	None Detected	50	50C	270 sq	
<i>Comment: West Wall</i>						
Walls: Metal	NON	Non-Suspect				
<i>Comment: South wall</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		900 sq	
Building: 13 - 803-810 Classroom Wing		Room: 12 - 806 Storage 1 - 22 x 6 x 9				
Floor: 12" Vinyl Floor Tile Off-White Oatmeal	MISC	5 %	38		132 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		132 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		56 ln	
Walls: Plaster, Orange Peel Texture	SURF	None Detected	11	11E	504 sq	
Ceiling: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		132 sq	No
Building: 13 - 803-810 Classroom Wing		Room: 13 - 806 Storage 1 Closet - 4 x 4 x 9				
Floor: 12" Vinyl Floor Tile Off-White Oatmeal	MISC	5 %	38	38C	16 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		16 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		7 ln	
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		7 sq	No
<i>Comment: W Wall</i>						
Walls: Plaster, Orange Peel Texture	SURF	None Detected	11		61 sq	
Ceiling: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		16 sq	No
Building: 13 - 803-810 Classroom Wing		Room: 14 - 806 Storage 2 - 22 x 6 x 9				
Floor: 12" Vinyl Floor Tile Off-White Oatmeal	MISC	5 %	38		132 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		132 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		56 ln	
Walls: Plaster, Orange Peel Texture	SURF	None Detected	11		504 sq	
Ceiling: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		132 sq	No
Floors: Black Mastic (Classrooms)	MISC	Assumed	49			No

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgn's Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>13 - 803-810 Classroom Wing</u>		Room: <u>15 - 806 Storage 2 Closet - 8 x 8 x 9</u>				
Floor: 12" Vinyl Floor Tile Off-White Oatmeal	MISC	5 %	38		64 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		64 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Brown	MISC	2 %	39	39C	32 ln	No
Walls: Metal	NON	Non-Suspect				
<i>Comment: S Wall</i>						
Walls: Plaster, Stipple Texture	SURF	None Detected	8		288 sq	
Ceiling: Plaster, Stipple Texture	SURF	None Detected	8		64 sq	
Building: <u>13 - 803-810 Classroom Wing</u>		Room: <u>16 - Room 810 - 48 x 30 x 9</u>				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		1440 sq	No
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		1440 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		192 ln	
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		346 sq	No
Walls: Metal	NON	Non-Suspect				
<i>Comment: South wall</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		1440 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>14 - 602-609 Classroom Wing</u>		Room: <u>01 - Room 609 - 30 x 28 x 9</u>					
Floor:	12" Vinyl Floor Tile Grey Streaks	MISC	None Detected	33	33A	840 sq	
Floor:	Black Mastic (Classrooms)	MISC	Assumed	49		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls:	Tackboard and Glue, Off White	MISC	None Detected	4		209 sq	
	<i>Comment: Upper Portion</i>						
Walls:	Wood	NON	Non-Suspect				
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Building: <u>14 - 602-609 Classroom Wing</u>		Room: <u>02 - 609 Storage - 30 x 12 x 9</u>					
Floor:	12" Vinyl Floor Tile Grey Streaks	MISC	None Detected	33		360 sq	
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		84 ln	
Walls:	Plaster, Stipple Texture	SURF	None Detected	8		756 sq	
Walls:	Tackboard and Glue, Off White	MISC	None Detected	4		529 sq	
	<i>Comment: Lower portion</i>						
Ceiling:	Plaster, Stipple Texture	SURF	None Detected	8		360 sq	
Building: <u>14 - 602-609 Classroom Wing</u>		Room: <u>03 - Room 605 - 28 x 25 x 9</u>					
Floor:	12" Vinyl Floor Tile Grey Streaks	MISC	None Detected	33		700 sq	
Floor:	Black Mastic (Classrooms)	MISC	Assumed	49		700 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		97 ln	
Walls:	Metal	NON	Non-Suspect				
	<i>Comment: North Wall</i>						
Walls:	Tackboard and Glue, Off White	MISC	None Detected	4		954 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48	48C	700 sq	
Misc:	Transite Fume Hood	MISC	Known	51		1 ea	No
	<i>Comment: West wall</i>						

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 14 - 602-609 Classroom Wing		Room: 04 - Lab - 30 x 28 x 9					
Floor:	12" Vinyl Floor Tile Grey Streaks	MISC	None Detected	33		840 sq	
Floor:	Black Mastic (Classrooms)	MISC	Assumed	49		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls:	Metal	NON	Non-Suspect				
	<i>Comment: North Wall</i>						
Walls:	Tackboard and Glue, Off White	MISC	None Detected	4		1145 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Sink:	Sink Coating Black	MISC	None Detected	52	52A	1 ea	
Misc:	Transite Fume Hood	MISC	Known	51		1 ea	No
	<i>Comment: East wall</i>						
Building: 14 - 602-609 Classroom Wing		Room: 05 - Lab Storage - 30 x 12 x 9					
Floor:	12" Vinyl Floor Tile Grey Streaks	MISC	None Detected	33		360 sq	
Floor:	Black Mastic (Classrooms)	MISC	Assumed	49		360 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		84 ln	
Walls:	Plaster, Stipple Texture	SURF	None Detected	8		756 sq	
Ceiling:	Plaster, Stipple Texture	SURF	None Detected	8		360 sq	
Building: 14 - 602-609 Classroom Wing		Room: 06 - Girls RR - 24 x 11 x 9					
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10		264 sq	
Walls:	4" Ceramic Tile, Pink	MISC	None Detected	13		315 sq	
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11		630 sq	
Ceiling:	Plaster, Orange Peel Texture	SURF	None Detected	11		264 sq	
Building: 14 - 602-609 Classroom Wing		Room: 07 - Boy's RR - 23 x 12 x 10					
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10		840 sq	
Walls:	4" Ceramic Tile, Yellow	MISC	None Detected	9		1044 sq	
Ceiling:	12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		840 sq	No

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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Site: Selma High School

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Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 14 - 602-609 Classroom Wing		Room: 08 - Custodial at Boys RR - 10 x 7 x 10					
Floor:	Concrete	MISC	Assumed	15		70 sq	No
Baseboard:	Concrete	MISC	Assumed	15		34 ln	No
Walls:	Plaster, Stipple Texture	SURF	None Detected	8		340 sq	
Ceiling:	Plaster, Stipple Texture	SURF	None Detected	8		70 sq	
Pipes:	Fiberglass Pipe Insulation w/ Canvas Wra	TSI	None Detected	35	35B	4 ea	
<i>Room Includes vestibule</i>							
<i>Comments:</i>							
Building: 14 - 602-609 Classroom Wing		Room: 09 - Room 602 - 30 x 28 x 9					
Floor:	12" Vinyl Floor Tile Grey Streaks	MISC	None Detected	33		840 sq	
Floor:	Black Mastic (Classrooms)	MISC	Assumed	49		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls:	Metal	NON	Non-Suspect				
<i>Comment: S Wall</i>							
Walls:	Tackboard and Glue, Off White	MISC	None Detected	4		783 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Building: 14 - 602-609 Classroom Wing		Room: 10 - Room 604 - 30 x 28 x 9					
Floor:	12" Vinyl Floor Tile Grey Streaks	MISC	None Detected	33		840 sq	
Floor:	Black Mastic (Classrooms)	MISC	Assumed	49		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls:	Metal	NON	Non-Suspect				
<i>Comment: S Wall</i>							
Walls:	Tackboard and Glue, Off White	MISC	None Detected	4	4B	783 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Sink:	Sink Coating Black	MISC	None Detected	52		1 ea	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>14 - 602-609 Classroom Wing</u>		Room: <u>11 - Room 606 - 30 x 28 x 9</u>				
Floor: 12" Vinyl Floor Tile Grey Streaks	MISC	None Detected	33		840 sq	
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		840 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls: Metal	NON	Non-Suspect				
<i>Comment: S Wall</i>						
Walls: Tackboard and Glue, Off White	MISC	None Detected	4		783 sq	
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Misc: Transite Fume Hood	MISC	Known	51		1 ea	No
Building: <u>14 - 602-609 Classroom Wing</u>		Room: <u>12 - Room 608 - 30 x 28 x 9</u>				
Floor: 12" Vinyl Floor Tile Grey Streaks	MISC	None Detected	33		840 sq	
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		840 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls: Metal	NON	Non-Suspect				
<i>Comment: S Wall</i>						
Walls: Tackboard and Glue, Off White	MISC	None Detected	4		783 sq	
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Misc: Transite Fume Hood	MISC	Known	51		1 ea	No
Building: <u>14 - 602-609 Classroom Wing</u>		Room: <u>13 - 608 Storage - 28 x 10 x 9</u>				
Floor: 12" Vinyl Floor Tile Grey Streaks	MISC	None Detected	33		280 sq	
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		280 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		39 ln	
Walls: Metal	NON	Non-Suspect				
<i>Comment: S Wall</i>						
Walls: Tackboard and Glue, Off White	MISC	None Detected	4		261 sq	
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		280 sq	
Misc: Transite Fume Hood	MISC	Known	51			No

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 15 - 401-410 Classroom Wing		Room: 01 - Room 409 - 30 x 28 x 9				
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53	840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57	1044 sq	
Walls:	Tackboard and Glue, White	MISC	None Detected	54	1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48 48A	840 sq	
Building: 15 - 401-410 Classroom Wing		Room: 02 - Room 407 - 30 x 28 x 9				
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53	840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57	1044 sq	
Walls:	Tackboard and Glue, White	MISC	None Detected	54	1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48	840 sq	
Building: 15 - 401-410 Classroom Wing		Room: 03 - Room 405 - 30 x 28 x 9				
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53	840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55 55A	116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57	1044 sq	
Walls:	Tackboard and Glue, White	MISC	None Detected	54	1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48	840 sq	
Building: 15 - 401-410 Classroom Wing		Room: 04 - Room 403 - 30 x 28 x 9				
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53	840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57	1044 sq	
Walls:	Tackboard and Glue, White	MISC	None Detected	54 54A	1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48	840 sq	
Misc:	Unit Ventilator	MISC	Assumed	56	1 ea	No

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

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HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>15 - 401-410 Classroom Wing</u>		Room: <u>05 - Room 401 - 30 x 28 x 9</u>					
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	55C	116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, White	MISC	None Detected	54		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Misc:	Unit Ventilator	MISC	Assumed	56		1 ea	No
Building: <u>15 - 401-410 Classroom Wing</u>		Room: <u>06 - Room 402 - 30 x 28 x 9</u>					
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, White	MISC	None Detected	54	54B	1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Misc:	Unit Ventilator	MISC	Assumed	56		1 ea	No
Building: <u>15 - 401-410 Classroom Wing</u>		Room: <u>07 - Room 404 - 30 x 28 x 9</u>					
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, White	MISC	None Detected	54		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Misc:	Unit Ventilator	MISC	Assumed	56		1 ea	No
Building: <u>15 - 401-410 Classroom Wing</u>		Room: <u>08 - Room 406 - 30 x 28 x 9</u>					
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, White	MISC	None Detected	54		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Misc:	Unit Ventilator	MISC	Assumed	56		1 ea	No

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

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Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>15 - 401-410 Classroom Wing</u>		Room: <u>09 - Room 408 - 30 x 28 x 9</u>					
Floor:	Carpet and Mastic, Multi Color	MISC	<u>5 %</u>	53	53C	840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, White	MISC	None Detected	54		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Misc:	Unit Ventilator	MISC	Assumed	56		1 ea	No
Building: <u>15 - 401-410 Classroom Wing</u>		Room: <u>10 - Room 410 - 30 x 28 x 9</u>					
Floor:	Carpet and Mastic, Multi Color	MISC	<u>5 %</u>	53		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, White	MISC	None Detected	54		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Misc:	Unit Ventilator	MISC	Assumed	56		1 ea	No

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 16 - 702 - 706 Classroom Wing		Room: 01 - Room 702 - 35 x 29 x 10					
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		1015 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		128 ln	
Walls:	Drywall, Medium Texture	MISC	None Detected	59	59C	128 sq	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1280 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	25A	1280 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58		1015 sq	No
Building: 16 - 702 - 706 Classroom Wing		Room: 02 - Room 704 - 35 x 29 x 10					
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		1015 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		128 ln	
Walls:	Drywall, Medium Texture	MISC	None Detected	59	59B	128 sq	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1280 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1280 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58		1015 sq	No
Building: 16 - 702 - 706 Classroom Wing		Room: 03 - Room 706 - 35 x 29 x 10					
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		1015 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		128 ln	
Walls:	Drywall, Medium Texture	MISC	None Detected	59	59A	128 sq	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1280 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1280 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58		1015 sq	No
Building: 16 - 702 - 706 Classroom Wing		Room: 04 - Room 705 - 45 x 30 x 10					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		1350 sq	No
Floor:	Concealed Floor Tile, White	MISC	5 %	60		1350 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		150 ln	
Walls:	12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		300 sq	No
Walls:	Tackboard and Glue, White	MISC	None Detected	54		1200 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		1350 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>16 - 702 - 706 Classroom Wing</u>		Room: <u>05 - Room 703 - 45 x 30 x 10</u>				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1	1D	1350 sq	No
Floor: Concealed Floor Tile, White	MISC	5 %	60		1350 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		150 ln	
Walls: 12" ACT Pinhole Fissure classroom wing	MISC	2 %	47		300 sq	No
Walls: Tackboard and Glue, White	MISC	None Detected	54		1200 sq	
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		1350 sq	
Building: <u>16 - 702 - 706 Classroom Wing</u>		Room: <u>06 - Mechaical Room - 29 x 15 x 12</u>				
Floor: Concrete	MISC	Assumed	15		435 sq	No
Baseboard: Concrete	MISC	Assumed	15		88 ln	No
Walls: Drywall, Unfinished <i>Comment: NW Corner</i>	MISC	None Detected	57	57B	211 sq	
Walls: Plaster, Stipple Texture	SURF	None Detected	8		1056 sq	
Ceiling: Wood	NON	Non-Suspect				
Pipes: Fiberglass Pipe Insuation w/ Canvas Wra <i>Comment: Includes boiler tank</i>	TSI	None Detected	35	35C	20 ea	
Pipes: Hard Elbows <i>Comment: Includes one T connection</i>	TSI	None Detected	37	37A, 37B	20 ea	

Functional Space Notes

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Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>17 - 901-908 Classroom Wings</u>		Room: <u>01 - Room 902 - 31 x 27 x 9</u>				
Floor:	Black Mastic (Classrooms)	MISC	Assumed	49	837 sq	No
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53	53B	837 sq No
Floor:	Concealed Floor Tile, White	MISC	5 %	60		837 sq No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	55B	116 ln
Walls:	Wood	NON	Non-Suspect			
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		837 sq
Ceiling:	Tackboard and Glue, White	MISC	None Detected	54		753 sq
Building: <u>17 - 901-908 Classroom Wings</u>		Room: <u>02 - Room 904 - 31 x 27 x 9</u>				
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		837 sq No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		116 ln
Walls:	Drywall, Unfinished	MISC	None Detected	57		783 sq
Walls:	Metal	NON	Non-Suspect			
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		837 sq
Ceiling:	Tackboard and Glue, White	MISC	None Detected	54		837 sq
Building: <u>17 - 901-908 Classroom Wings</u>		Room: <u>03 - Room 906 - 31 x 27 x 9</u>				
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		837 sq No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		116 ln
Walls:	Drywall, Unfinished	MISC	None Detected	57		783 sq
Walls:	Metal	NON	Non-Suspect			
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		837 sq
Ceiling:	Tackboard and Glue, White	MISC	None Detected	54		837 sq
Building: <u>17 - 901-908 Classroom Wings</u>		Room: <u>04 - Room 908 - 31 x 27 x 9</u>				
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		837 sq No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		116 ln
Walls:	Drywall, Unfinished	MISC	None Detected	57		783 sq
Walls:	Metal	NON	Non-Suspect			
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		837 sq
Ceiling:	Tackboard and Glue, White	MISC	None Detected	54		837 sq

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>17 - 901-908 Classroom Wings</u>		Room: <u>05 - Room 907 C - 15 x 13 x 9</u>					
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		195 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		27 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		182 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		195 sq	
Ceiling:	Tackboard and Glue, White	MISC	None Detected	54		195 sq	
Building: <u>17 - 901-908 Classroom Wings</u>		Room: <u>06 - Room 907 B - 15 x 13 x 9</u>					
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		195 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		27 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		182 sq	
Walls:	Metal	NON	Non-Suspect				
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		195 sq	
Ceiling:	Tackboard and Glue, White	MISC	None Detected	54		195 sq	
Building: <u>17 - 901-908 Classroom Wings</u>		Room: <u>07 - Room 907 - 26 x 15 x 9</u>					
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		390 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		54 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		364 sq	
Walls:	Metal	NON	Non-Suspect				
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		390 sq	
Ceiling:	Tackboard and Glue, White	MISC	None Detected	54		390 sq	
Building: <u>17 - 901-908 Classroom Wings</u>		Room: <u>08 - Room 905 - 31 x 27 x 9</u>					
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		837 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		783 sq	
Walls:	Metal	NON	Non-Suspect				
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		837 sq	
Ceiling:	Tackboard and Glue, White	MISC	None Detected	54		837 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>17 - 901-908 Classroom Wings</u>		Room: <u>09 - Room 903 - 31 x 27 x 9</u>				
Floor:	Carpet and Mastic, Multi Color	MISC	<u>5 %</u>	53	837 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57	783 sq	
Walls:	Metal	NON	Non-Suspect			
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48	837 sq	
Ceiling:	Tackboard and Glue, White	MISC	None Detected	54	837 sq	
Building: <u>17 - 901-908 Classroom Wings</u>		Room: <u>10 - Room 901 - 31 x 27 x 9</u>				
Floor:	Black Mastic (Classrooms)	MISC	Assumed	49	837 sq	No
Floor:	Carpet and Mastic, Multi Color	MISC	<u>5 %</u>	53	837 sq	No
Floor:	Concealed Floor Tile, White	MISC	<u>5 %</u>	60	837 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	116 ln	
Walls:	12" ACT Pinhole Fissure classroom wing	MISC	<u>2 %</u>	47	209 sq	No
Walls:	Wood	NON	Non-Suspect			
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48	837 sq	
Ceiling:	Tackboard and Glue, White	MISC	None Detected	54	84 sq	
<i>Comment: N Wall</i>						

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 18 - 1301-1306 Classroom Wing		Room: 01 - Room 1302 - 32 x 28 x 10				
Floor:	Black Mastic (Classrooms)	MISC	Assumed	49	896 sq	No
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53	896 sq	No
Floor:	Concealed Tile, Beige	MISC	5 %	62	62A	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	120 ln	
Walls:	12" ACT Small Pinhole	MISC	2 %	27	27B	No
Walls:	Drywall, Orange Peel Texture (1300 wing <i>Comment: North Wall at Plenum</i>)	MISC	None Detected	61	120 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	1200 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48	896 sq	
Building: 18 - 1301-1306 Classroom Wing		Room: 02 - Room 1304 - 32 x 28 x 10				
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53	896 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	120 ln	
Walls:	12" ACT Small Pinhole	MISC	2 %	27	240 sq	No
Walls:	Drywall, Orange Peel Texture (1300 wing <i>Comment: North Wall at Plenum</i>)	MISC	None Detected	61	61B	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	1200 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48	896 sq	
Building: 18 - 1301-1306 Classroom Wing		Room: 03 - Room 1306 - 32 x 28 x 12				
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53	896 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	120 ln	
Walls:	Drywall, Orange Peel Texture (1300 wing <i>Comment: North Wall at Plenum</i>)	MISC	None Detected	61	61A	
Walls:	Drywall, Unfinished	MISC	None Detected	57	1200 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	25B	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58	896 sq	Yes
Building: 18 - 1301-1306 Classroom Wing		Room: 04 - Boy's RR - 34 x 15 x 10				
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10	510 sq	
Walls:	4" Ceramic Tile, White	MISC	None Detected	23	980 sq	
Ceiling:	Drywall, Orange Peel Texture (1300 wing)	MISC	None Detected	61	510 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 18 - 1301-1306 Classroom Wing		Room: 04 - Girl's RR - 34 x 15 x 10				
Floor: 1" Grey Ceramic Tile	MISC	None Detected	10		510 sq	
Walls: 4" Ceramic Tile, White	MISC	None Detected	23		980 sq	
Ceiling: Drywall, Orange Peel Texture (1300 wing)	MISC	None Detected	61		510 sq	
Building: 18 - 1301-1306 Classroom Wing		Room: 05 - Room 1305 - 32 x 28 x 12				
Floor: Carpet and Mastic, Multi Color	MISC	5 %	53		896 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		120 ln	
Walls: Drywall, Orange Peel Texture (1300 wing) <i>Comment: South Wall at Plenum</i>	MISC	None Detected	61	61C	120 sq	
Walls: Drywall, Unfinished	MISC	None Detected	57		1200 sq	
Walls: Tackboard and Glue, Grey	MISC	None Detected	25		1200 sq	
Ceiling: 2'x4' FCP Pinhole Pissure	MISC	Assumed	58		896 sq	Yes
Building: 18 - 1301-1306 Classroom Wing		Room: 06 - Room 1303 - 32 x 15 x 10				
Floor: Carpet and Mastic, Multi Color	MISC	5 %	53		480 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		64 ln	
Walls: 12" ACT Small Pinhole	MISC	2 %	27	27A	129 sq	No
Walls: Drywall, Orange Peel Texture (1300 wing) <i>Comment: South Wall at Plenum</i>	MISC	None Detected	61		64 sq	
Walls: Tackboard and Glue, Grey	MISC	None Detected	25		643 sq	
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		480 sq	
Building: 18 - 1301-1306 Classroom Wing		Room: 07 - Room 1301 - 32 x 15 x 10				
Floor: Black Mastic (Classrooms)	MISC	Assumed	49		480 sq	No
Floor: Carpet and Mastic, Multi Color	MISC	5 %	53		480 sq	No
Floor: Concealed Tile, Beige	MISC	5 %	62		480 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		64 ln	
Walls: 12" ACT Small Pinhole	MISC	2 %	27		129 sq	No
Walls: Drywall, Orange Peel Texture (1300 wing) <i>Comment: South Wall at Plenum</i>	MISC	None Detected	61		64 sq	
Walls: Tackboard and Glue, Grey	MISC	None Detected	25		643 sq	
Ceiling: 2'x4' FCP Acoustic Texture	MISC	None Detected	48		480 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 19 - 1501-1508 Classroom Wing		Room: 01 - Room 1502 - 30 x 30 x 9				
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53	53A	900 sq No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		120 ln
Walls:	Drywall, Painted	MISC	None Detected	41		108 sq
<i>Comment: At Heat Pump Closet</i>						
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1080 sq
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58		900 sq Yes
Building: 19 - 1501-1508 Classroom Wing		Room: 02 - Room 1504 - 30 x 30 x 9				
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		900 sq No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		120 ln
Walls:	Drywall, Painted	MISC	None Detected	41		108 sq
<i>Comment: At Heat Pump Closet</i>						
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1080 sq
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58		900 sq Yes
Building: 19 - 1501-1508 Classroom Wing		Room: 03 - Room 1506 - 30 x 30 x 9				
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		900 sq No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		120 ln
Walls:	Drywall, Painted	MISC	None Detected	41		108 sq
<i>Comment: At Heat Pump Closet</i>						
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1080 sq
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58		900 sq Yes
Building: 19 - 1501-1508 Classroom Wing		Room: 04 - Room 1508 - 30 x 30 x 9				
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53		900 sq No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		120 ln
Walls:	Drywall, Painted	MISC	None Detected	41	41G	108 sq
<i>Comment: At Heat Pump Closet</i>						
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1080 sq
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58		900 sq Yes

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgn's Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: 19 - 1501-1508 Classroom Wing		Room: 05 - Room 1507 - 30 x 30 x 9				
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53	900 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	120 ln	
Walls:	Drywall, Painted	MISC	None Detected	41	41D	108 sq
<i>Comment: At Heat Pump Closet</i>						
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	1080 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58	900 sq	Yes
Building: 19 - 1501-1508 Classroom Wing		Room: 06 - Room 1505 - 30 x 30 x 9				
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53	900 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	120 ln	
Walls:	Drywall, Painted	MISC	None Detected	41	108 sq	
<i>Comment: At Heat Pump Closet</i>						
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	1080 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58	900 sq	Yes
Building: 19 - 1501-1508 Classroom Wing		Room: 07 - Room 1503 - 30 x 30 x 9				
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53	900 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	120 ln	
Walls:	Drywall, Painted	MISC	None Detected	41	108 sq	
<i>Comment: At Heat Pump Closet</i>						
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	1080 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58	900 sq	Yes
Building: 19 - 1501-1508 Classroom Wing		Room: 08 - Room 1501 - 30 x 30 x 9				
Floor:	Carpet and Mastic, Multi Color	MISC	5 %	53	900 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	120 ln	
Walls:	Drywall, Painted	MISC	None Detected	41	108 sq	
<i>Comment: At Heat Pump Closet</i>						
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	1080 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58	900 sq	Yes

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>19 - 1501-1508 Classroom Wing</u>		Room: <u>09 - Server Room - 8 x 8 x 10</u>				
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1	64 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	32 ln	
Walls:	Wood	NON	Non-Suspect			
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58	64 sq	Yes
<i>Room</i>	<i>West Side ext</i>					
<i>Comments:</i>						

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>20 - Library</u>		Room: <u>01 - Library (main) - 80 x 45 x 11</u>					
Floor:	Carpet and Mastic, Grey Squares	MISC	None Detected	63	63B	3600 sq	
Baseboard:	4" Vinyl Baseboard and Mastic, Black	MISC	None Detected	44		250 ln	
Walls:	Tackboard and Glue, Tan	MISC	None Detected	64		2750 sq	
Ceiling:	12" ACT Pinhle Fissure (library)	MISC	None Detected	65		180 sq	
	<i>Comment: SE Corner</i>						
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58		3600 sq	Yes
Ceiling:	Drywall, Unfinished	MISC	None Detected	57	57A	3600 sq	
Building: <u>20 - Library</u>		Room: <u>02 - Office 1 - 16 x 12 x 12</u>					
Floor:	Carpet and Mastic, Grey Squares	MISC	None Detected	63		192 sq	
Baseboard:	4" Vinyl Baseboard and Mastic, Black	MISC	None Detected	44		56 ln	
Walls:	Tackboard and Glue, Tan	MISC	None Detected	64		672 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58		192 sq	Yes
Building: <u>20 - Library</u>		Room: <u>03 - Book Storage - 25 x 20 x 10</u>					
Floor:	12" Vinyl Floor Tile, Beige Pebble	MISC	3 %	66		500 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Brown	MISC	2 %	39		90 ln	No
Walls:	Tackboard and Glue, Tan	MISC	None Detected	64	64A	900 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58		500 sq	Yes
Building: <u>20 - Library</u>		Room: <u>04 - Book Storage Closet - 25 x 10 x 10</u>					
Floor:	12" Vinyl Floor Tile, Beige Pebble	MISC	3 %	66	66A, 66B	250 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Brown	MISC	2 %	39	39B	70 ln	No
Walls:	Tackboard and Glue, Tan	MISC	None Detected	64		700 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58		250 sq	Yes
Building: <u>20 - Library</u>		Room: <u>05 - Classroom - 25 x 36 x 10</u>					
Floor:	24" VFT White Pebble	MISC	None Detected	67	67A	900 sq	
Baseboard:	4" Vinyl Baseboard and Mastic, Black	MISC	None Detected	44	44B	122 ln	
Walls:	Tackboard and Glue, Tan	MISC	None Detected	64	64B	1220 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58		900 sq	Yes

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>20 - Library</u>		Room: <u>06 - Office 2 - 17 x 10 x 8</u>					
Floor:	Carpet and Mastic, Grey Squares	MISC	None Detected	63		170 sq	
Baseboard:	4" Vinyl Baseboard and Mastic, Black	MISC	None Detected	44		54 ln	
Walls:	Tackboard and Glue, Tan	MISC	None Detected	64		432 sq	
Ceiling:	12" ACT Pinhle Fissure (library)	MISC	None Detected	65	65B	170 sq	
Building: <u>20 - Library</u>		Room: <u>07 - Staff RR Men - 17 x 6 x 7</u>					
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10		102 sq	
Baseboard:	1" Grey Ceramic Tile	MISC	None Detected	10		46 ln	
Walls:	1" Grey Ceramic Tile	MISC	None Detected	10		322 sq	
Ceiling:	Drywall, Painted	MISC	None Detected	41		102 sq	
Building: <u>20 - Library</u>		Room: <u>08 - Staff RR Women - 12 x 9 x 7</u>					
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10		108 sq	
Baseboard:	1" Grey Ceramic Tile	MISC	None Detected	10		49 ln	
Walls:	1" Grey Ceramic Tile	MISC	None Detected	10		341 sq	
Ceiling:	Drywall, Painted	MISC	None Detected	41	41F	108 sq	
Building: <u>20 - Library</u>		Room: <u>09 - Custodial - 5 x 4 x 9</u>					
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10		20 sq	
Baseboard:	1" Grey Ceramic Tile	MISC	None Detected	10		9 ln	
Walls:	1" Grey Ceramic Tile	MISC	None Detected	10		81 sq	
Walls:	Tackboard and Glue, Tan	MISC	None Detected	64		162 sq	
Ceiling:	Drywall, Painted	MISC	None Detected	41		20 sq	
Room Comments:	<i>At women staff rr</i>						
Building: <u>20 - Library</u>		Room: <u>10 - Student unisex rr - 5 x 5 x 8</u>					
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10		25 sq	
Baseboard:	1" Grey Ceramic Tile	MISC	None Detected	10		11 ln	
Walls:	1" Grey Ceramic Tile	MISC	None Detected	10		79 sq	
Ceiling:	Drywall, Painted	MISC	None Detected	41		25 sq	

Functional Space Notes

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Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>20 - Library</u>		Room: <u>11 - Office 3 - 12 x 10 x 8</u>					
Floor:	Carpet and Mastic, Grey Squares	MISC	None Detected	63		120 sq	
Baseboard:	4" Vinyl Baseboard and Mastic, Black	MISC	None Detected	44		38 ln	
Walls:	Tackboard and Glue, Tan	MISC	None Detected	64		305 sq	
Ceiling:	12" ACT Pinhle Uniform	MISC	Assumed	68		120 sq	No
Building: <u>20 - Library</u>		Room: <u>12 - Office 4 - 18 x 11 x 8</u>					
Floor:	Carpet and Mastic, Grey Squares	MISC	None Detected	63	63A	198 sq	
Baseboard:	4" Vinyl Baseboard and Mastic, Black	MISC	None Detected	44		63 ln	
Walls:	Tackboard and Glue, Tan	MISC	None Detected	64		503 sq	
Ceiling:	12" ACT Pinhle Fissure (library)	MISC	None Detected	65	65A	198 sq	

Functional Space Notes

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Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>21 - 501-504 Classroom Wing</u>		Room: <u>01 - Girl's RR - 26 x 13 x 9</u>				
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10	338 sq	
Walls:	4" Ceramic Tile, White	MISC	None Detected	23	702 sq	
Ceiling:	Plaster, Stipple Texture	SURF	None Detected	8	338 sq	
Building: <u>21 - 501-504 Classroom Wing</u>		Room: <u>02 - Custodial - 13 x 8 x 13</u>				
Floor:	Concrete	MISC	Assumed	15	104 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Brown	MISC	2 %	39	42 ln	No
Walls:	Drywall, Orange Peel Texture	MISC	None Detected	26 26A	546 sq	
Walls:	FRP and Glue, Off-White	MISC	None Detected	19	136 sq	
Ceiling:	Drywall, Painted	MISC	None Detected	41 41E	104 sq	
Building: <u>21 - 501-504 Classroom Wing</u>		Room: <u>03 - Boy's RR - 26 x 13 x 9</u>				
Floor:	1" Grey Ceramic Tile	MISC	None Detected	10	338 sq	
Walls:	4" Ceramic Tile, White	MISC	None Detected	23	702 sq	
Ceiling:	Plaster, Stipple Texture	SURF	None Detected	8	338 sq	
Building: <u>21 - 501-504 Classroom Wing</u>		Room: <u>04 - Room 502 - 45 x 30 x 10</u>				
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1	1350 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	150 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57	1500 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	1500 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48	1350 sq	
Misc:	Transite Fume Hood	MISC	Known	51	1 ea	No
Building: <u>21 - 501-504 Classroom Wing</u>		Room: <u>05 - 502 & 504 Closet - 25 x 11 x 9</u>				
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1	275 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	72 ln	
Walls:	Drywall, Orange Peel Texture	MISC	None Detected	26 26G	324 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	648 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48	275 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>21 - 501-504 Classroom Wing</u>		Room: <u>05 - HVAC Closet - 10 x 5 x 12</u>					
Floor:	Concrete	MISC	Assumed	15		25 sq	No
Walls:	Drywall, Orange Peel Texture	MISC	None Detected	26			
Walls:	Wood	NON	Non-Suspect				
Ceiling:	Fiberglass	NON	Non-Suspect				
<i>Room Comments:</i> At 502 and 504 closet							
Building: <u>21 - 501-504 Classroom Wing</u>		Room: <u>06 - HVAC Closet - 10 x 5 x 12</u>					
Floor:	Concrete	MISC	Assumed	15		50 sq	No
Walls:	Drywall, Orange Peel Texture	MISC	None Detected	26		90 sq	
Walls:	Wood	NON	Non-Suspect				
Ceiling:	Fiberglass	NON	Non-Suspect				
<i>Room Comments:</i> At 501 and 503 closet							
Building: <u>21 - 501-504 Classroom Wing</u>		Room: <u>06 - Room 504 - 35 x 30 x 10</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		1050 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		117 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1167 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1167 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		1050 sq	
Building: <u>21 - 501-504 Classroom Wing</u>		Room: <u>07 - Room 501 - 45 x 30 x 10</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		1350 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		150 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1500 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1500 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		1350 sq	
Misc:	Transite Fume Hood	MISC	Known	51		1 ea	No
Building: <u>21 - 501-504 Classroom Wing</u>		Room: <u>07 - Room 503 - 40 x 30 x 10</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		1200 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		134 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1334 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1334 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		1200 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>21 - 501-504 Classroom Wing</u>		Room: <u>08 - 501 & 503 Closet - 25 x 11 x 9</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		275 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		72 ln	
Walls:	Drywall, Orange Peel Texture	MISC	None Detected	26		324 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		648 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		275 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>22 - 304-317 Wing</u>		Room: <u>01 - Room 304 - 48 x 62 x 20</u>				
Floor: Concrete	MISC	Assumed	15		2976 sq	No
Walls: Drywall Knockdown Texture (shop) <i>Comment: East wall</i>	MISC	None Detected	72	72A, 72C	1100 sq	
Walls: Metal	NON	Non-Suspect				
Walls: Window Glazing <i>Comment: North and south windows</i>	MISC	None Detected	70	70B, 70C		
Ceiling: Spray Fireproofing	SURF	None Detected	69	69A, 69B, 69C	595 sq	
Building: <u>22 - 304-317 Wing</u>		Room: <u>02 - 304 ne closet - 13 x 10 x 8</u>				
Floor: Concrete	MISC	Assumed	15		130 sq	No
Walls: Metal	NON	Non-Suspect				
Walls: Plaster, Stipple Texture	SURF	None Detected	8		368 sq	
Ceiling: Drywall, Painted (shop)	MISC	Assumed	71		130 sq	No
Ceiling: Spray Fireproofing <i>Comment: Above ceiling</i>	SURF	None Detected	69	69D	130 sq	
Building: <u>22 - 304-317 Wing</u>		Room: <u>03 - 304 e, center closet - 20 x 12 x 8</u>				
Floor: Concrete	MISC	Assumed	15		240 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Grey	MISC	None Detected	24		6 ln	
Walls: Plaster, Stipple Texture	SURF	None Detected	8		512 sq	
Ceiling: Plaster, Stipple Texture	SURF	None Detected	8		240 sq	
Ceiling: Spray Fireproofing <i>Comment: Above ceiling</i>	SURF	None Detected	69		240 sq	
Building: <u>22 - 304-317 Wing</u>		Room: <u>04 - 304 se closet - 18 x 12 x 20</u>				
Floor: Concrete	MISC	Assumed	15		216 sq	No
Walls: Metal	NON	Non-Suspect				
Walls: Plaster, Stipple Texture	SURF	None Detected	8		600 sq	
Walls: Window Glazing <i>Comment: south windows</i>	MISC	None Detected	70			
Ceiling: Spray Fireproofing	SURF	None Detected	69		43 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>22 - 304-317 Wing</u>		Room: <u>05 - Room 305 - 24 x 20 x 12</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1	1C	480 sq	No
Floor:	Black Mastic (Shop)	MISC	Assumed	73			No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55		88 ln	
Walls:	12" ACT Pinhle Fissure (Shop)	MISC	2 %	74		106 sq	No
Walls:	Window Glazing	MISC	None Detected	70		106 sq	
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhle Fissure (Shop)	MISC	2 %	74	74A	480 sq	No
	<i>Comment: Splined</i>						
Ceiling:	Spray Fireproofing	SURF	None Detected	69		480 sq	
Building: <u>22 - 304-317 Wing</u>		Room: <u>06 - 305 Office - 12 x 9 x 8</u>					
Floor:	12" Vinyl Floor Tile, Beige Pebble	MISC	3 %	66	66C	108 sq	No
Floor:	Black Mastic (Shop)	MISC	Assumed	73		108 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		42 ln	
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhle Fissure (Shop)	MISC	2 %	74		108 sq	No
Building: <u>22 - 304-317 Wing</u>		Room: <u>07 - Staff RR - 5 x 5 x 8</u>					
Floor:	Concrete	MISC	Assumed	15		25 sq	No
Baseboard:	Concrete	MISC	Assumed	15		20 ln	No
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11		160 sq	
Ceiling:	Plaster, Orange Peel Texture	SURF	None Detected	11		25 sq	
Building: <u>22 - 304-317 Wing</u>		Room: <u>08 - 311 Office - 15 x 10 x 8</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		150 sq	No
Floor:	Black Mastic (Shop)	MISC	Assumed	73		150 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		58 ln	
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhle Fissure (Shop)	MISC	2 %	74		150 sq	No

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgn's Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>22 - 304-317 Wing</u>		Room: <u>09 - Room 311 - 62 x 48 x 20</u>				
Floor: Concrete	MISC	Assumed	15		2976 sq	No
Walls: Drywall Knockdown Texture (shop) <i>Comment: East wall</i>	MISC	None Detected	72	72B	1100 sq	
Walls: Metal	NON	Non-Suspect				
Walls: Plaster, Stipple Texture <i>Comment: At welding booth</i>	SURF	None Detected	8		440 sq	
Walls: Window Glazing <i>Comment: North and south windows</i>	MISC	None Detected	70			
Ceiling: Plaster, Stipple Texture <i>Comment: At welding booth</i>	SURF	None Detected	8		149 sq	
Ceiling: Spray Fireproofing	SURF	None Detected	69	69E, 69F	595 sq	
Pipes: Hard Elbows <i>Comment: Nw corner multiple connections</i>	TSI	None Detected	37	37C	10 ea	
Building: <u>22 - 304-317 Wing</u>		Room: <u>10 - 311 Storage - 11 x 5 x 8</u>				
Floor: Concrete	MISC	Assumed	15		55 sq	No
Baseboard: Concrete	MISC	Assumed	15		32 ln	No
Walls: Plaster, Stipple Texture	SURF	None Detected	8		256 sq	
Ceiling: Plaster, Stipple Texture	SURF	None Detected	8		55 sq	
Building: <u>22 - 304-317 Wing</u>		Room: <u>11 - 311 Storage 2 - 24 x 10 x 20</u>				
Floor: Concrete	MISC	Assumed	15		240 sq	No
Walls: Metal	NON	Non-Suspect				
Walls: Plaster, Stipple Texture	SURF	None Detected	8		667 sq	
Walls: Window Glazing <i>Comment: south windows</i>	MISC	None Detected	70			
Ceiling: Spray Fireproofing	SURF	None Detected	69		48 sq	
<i>Room Comments:</i> Se corner						
Building: <u>22 - 304-317 Wing</u>		Room: <u>12 - Staff RR 1 - 11 x 11 x 10</u>				
Floor: Concrete	MISC	Assumed	15		121 sq	No
Baseboard: Concrete	MISC	Assumed	15		44 ln	No
Walls: Plaster, Orange Peel Texture	SURF	None Detected	11		440 sq	
Ceiling: 12" ACT Pinhle Fissure (Shop)	MISC	2 %	74	74B	121 sq	No
Ceiling: Plaster, Orange Peel Texture	SURF	None Detected	11		121 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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Materials	Material Class	Percent Asbestos	Hmgs Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>22 - 304-317 Wing</u>		Room: <u>13 - Staff RR 2 - 12 x 6 x 10</u>				
Floor: Concrete	MISC	Assumed	15		121 sq	No
Baseboard: Concrete	MISC	Assumed	15		44 ln	No
Walls: Plaster, Orange Peel Texture	SURF	None Detected	11		440 sq	
Ceiling: 12" ACT Pinhle Fissure (Shop)	MISC	2 %	74		121 sq	No
Ceiling: Plaster, Orange Peel Texture	SURF	None Detected	11		121 sq	
Building: <u>22 - 304-317 Wing</u>		Room: <u>14 - Room 319 - 48 x 48 x 20</u>				
Floor: Concrete	MISC	Assumed	15		2304 sq	No
Baseboard: Brown Baseboard Mastic	MISC	Assumed	75		38 ln	No
<i>Comment: E Wall</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: Spray Fireproofing	SURF	None Detected	69		2304 sq	
Building: <u>22 - 304-317 Wing</u>		Room: <u>15 - 319 Storage 1 - 15 x 8 x 8</u>				
Floor: Concrete	MISC	Assumed	15		120 sq	No
Walls: Wood	NON	Non-Suspect				
Ceiling: Wood	NON	Non-Suspect				
Building: <u>22 - 304-317 Wing</u>		Room: <u>16 - 319 Storage 2 (uniforms) - 27 x 12 x 8</u>				
Floor: Concrete	MISC	Assumed	15		324 sq	No
Walls: Window Glazing	MISC	None Detected	70		31 sq	
<i>Comment: Nw corner</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: Wood	NON	Non-Suspect				
Building: <u>22 - 304-317 Wing</u>		Room: <u>17 - 319 Upstairs Storage - 40 x 15 x 9</u>				
Floor: Wood	NON	Non-Suspect				
Walls: Metal	NON	Non-Suspect				
Walls: Window Glazing	MISC	None Detected	70		99 sq	
<i>Comment: N Side</i>						
Ceiling: Spray Fireproofing	SURF	None Detected	69		600 sq	

Functional Space Notes

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Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>22 - 304-317 Wing</u>		Room: <u>18 - NE Storage - 24 x 10 x 12</u>				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		240 sq	No
Walls: Plaster, Orange Peel Texture	SURF	None Detected	11		816 sq	
Ceiling: Plaster, Orange Peel Texture	SURF	None Detected	11		240 sq	
<i>Comment: Attic Access</i>						
Building: <u>22 - 304-317 Wing</u>		Room: <u>19 - Office 1 - 12 x 10 x 8</u>				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1	1B	120 sq	No
Floor: Black Mastic (Shop)	MISC	Assumed	73		120 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		44 ln	
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhle Fissure (Shop)	MISC	2 %	74		120 sq	No
Building: <u>22 - 304-317 Wing</u>		Room: <u>20 - Restroom - 10 x 6 x 9</u>				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		60 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		32 ln	
Walls: Plaster, Orange Peel Texture	SURF	None Detected	11		288 sq	
Ceiling: Plaster, Orange Peel Texture	SURF	None Detected	11		60 sq	
<i>Room Includes vestibule</i>						
<i>Comments:</i>						
Building: <u>22 - 304-317 Wing</u>		Room: <u>21 - Office 2 - 25 x 20 x 11</u>				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		500 sq	No
Floor: Black Mastic (Shop)	MISC	Assumed	73		500 sq	No
Baseboard: 4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		90 ln	
Walls: 12" ACT Pinhle Fissure (Shop)	MISC	2 %	74		198 sq	No
Walls: Window Glazing	MISC	None Detected	70		99 sq	
<i>Comment: S wall</i>						
Walls: Wood	NON	Non-Suspect				
Ceiling: 12" ACT Pinhle Fissure (Shop)	MISC	2 %	74		500 sq	No
Building: <u>22 - 304-317 Wing</u>		Room: <u>22 - Armory closet - 10 x 6 x 8</u>				
Floor: 12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		60 sq	No
Floor: Black Mastic (Shop)	MISC	Assumed	73		60 sq	No
Walls: Plaster, Orange Peel Texture	SURF	None Detected	11	11G	256 sq	
Ceiling: Metal	NON	Non-Suspect				
Ceiling: Plaster, Orange Peel Texture	SURF	None Detected	11		60 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>22 - 304-317 Wing</u>		Room: <u>23 - Room 317 - 50 x 48 x 15</u>					
Floor:	Concrete	MISC	Assumed	15		2400 sq	No
Walls:	Wood	NON	Non-Suspect				
Ceiling:	Wood	NON	Non-Suspect				
Building: <u>22 - 304-317 Wing</u>		Room: <u>24 - 317 office and vestibule - 11 x 6 x 8</u>					
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		66 sq	No
Baseboard:	Wood	NON	Non-Suspect				
Walls:	Wood	NON	Non-Suspect				
Ceiling:	Wood	NON	Non-Suspect				

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>23 - Ag Classrooms 102, 103</u>		Room: <u>01 - 102 Office - 16 x 12 x 10</u>					
Floor:	9" Vinyl Floor Tile Beige Streaks	MISC	5 %	76	76A	192 sq	No
Floor:	Black Mastic (Shop)	MISC	Assumed	73		192 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Brown	MISC	2 %	39	39A	56 ln	No
Walls:	12" ACT Pinhle Fissure (Shop)	MISC	2 %	74		140 sq	No
Walls:	Wood	NON	Non-Suspect				
Ceiling:	12" ACT Pinhle Fissure (Shop)	MISC	2 %	74	74C	192 sq	No
Building: <u>23 - Ag Classrooms 102, 103</u>		Room: <u>02 - 102 Staff RR - 9 x 9 x 10</u>					
Floor:	Concrete	MISC	Assumed	15		81 sq	No
Baseboard:	Concrete	MISC	Assumed	15		36 ln	No
Walls:	4" Ceramic Tile, Yellow <i>Comment: At shower</i>	MISC	None Detected	9		72 sq	
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11		360 sq	
Ceiling:	Plaster, Orange Peel Texture	SURF	None Detected	11		81 sq	
Building: <u>23 - Ag Classrooms 102, 103</u>		Room: <u>03 - 102 Welding Shop - 60 x 40 x 20</u>					
Floor:	Concrete	MISC	Assumed	15		2400 sq	No
Walls:	Cement Board <i>Comment: At Welding Booth Partitions</i>	MISC	None Detected	77	77A, 77B	800 sq	
Walls:	Drywall Knockdown Texture <i>Comment: East Wall Upper Portion</i>	MISC	None Detected	50	50A, 50B	1000 sq	
Walls:	Metal	NON	Non-Suspect				
Walls:	Window Glazing <i>Comment: North and South Windows</i>	MISC	None Detected	70	70A, 70D	1000 sq	
Ceiling:	Spray Fireproofing	SURF	None Detected	69	69G	2400 sq	
Building: <u>23 - Ag Classrooms 102, 103</u>		Room: <u>05 - Welding Shop Water Heater Closet - 4 x 4 x 10</u>					
Floor:	Concrete	MISC	Assumed	15		16 sq	No
Walls:	Plaster, Stipple Texture	SURF	None Detected	8		160 sq	
Ceiling:	Plaster, Stipple Texture	SURF	None Detected	8		16 sq	
Pipes:	Transite Flue Pipe <i>Comment: Visible from attic space</i>	MISC	Known	900		20 ln	No

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

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Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>23 - Ag Classrooms 102, 103</u>		Room: <u>06 - Student Restroom - 10 x 10 x 10</u>					
Floor:	Concrete	MISC	Assumed	15		100 sq	No
Walls:	Plaster, Orange Peel Texture	SURF	None Detected	11		400 sq	
Ceiling:	Plaster, Orange Peel Texture	SURF	None Detected	11	11A	100 sq	
<i>Room Comments:</i> At welding shop							
Building: <u>23 - Ag Classrooms 102, 103</u>		Room: <u>08 - 102 Classroom - 34 x 25 x 9</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		850 sq	No
Floor:	Black Mastic (Shop)	MISC	Assumed	73		850 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		118 ln	
Walls:	Tackboard and Glue, Off White	MISC	None Detected	4		1062 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		850 sq	

Functional Space Notes

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Materials	Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>24 - Classrooms FCOE 1 & 2</u>		Room: <u>01 - Classroom FCOE 2 - 40 x 23 x 11</u>				
Floor:	Carpet and Mastic, Brown Multi	MISC	None Detected	78 78A	920 sq	
Baseboard:	4" Vinyl Baseboard and Mastic, Grey	MISC	None Detected	24	126 ln	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	1386 sq	
Ceiling:	Fiberglass	NON	Non-Suspect			
Building: <u>24 - Classrooms FCOE 1 & 2</u>		Room: <u>02 - Classroom FCOE 1 - 40 x 25 x 10</u>				
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3	500 sq	No
Floor:	VSF and Glue Grey Pebble w/ Backing	MISC	None Detected	79 79B	500 sq	
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	130 ln	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25 25C	1300 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58	1000 sq	Yes
Sink:	Sink Coating White	MISC	None Detected	80 80A	1 ea	
Building: <u>24 - Classrooms FCOE 1 & 2</u>		Room: <u>02 - FCOE 1 Office - 12 x 9 x 10</u>				
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3	108 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Dark Blu	MISC	None Detected	55	42 ln	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	378 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58	108 sq	Yes
Building: <u>24 - Classrooms FCOE 1 & 2</u>		Room: <u>04 - FCOE 1 RR - 13 x 8 x 10</u>				
Floor:	VSF and Glue Grey Pebble w/ Backing	MISC	None Detected	79	104 sq	
Baseboard:	VSF and Glue Grey Pebble w/ Backing	MISC	None Detected	79 79A	42 ln	
	<i>Comment: Coved</i>					
Walls:	FRP and Glue, Off-White	MISC	None Detected	19	420 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58	104 sq	Yes

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>25 - Classroom Wing 2200 - 2209</u>		Room: <u>01 - Room 2208 - 30 x 28 x 9</u>					
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Building: <u>25 - Classroom Wing 2200 - 2209</u>		Room: <u>02 - Room 2206 - 30 x 28 x 9</u>					
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Building: <u>25 - Classroom Wing 2200 - 2209</u>		Room: <u>03 - Room 2204 - 30 x 28 x 9</u>					
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Building: <u>25 - Classroom Wing 2200 - 2209</u>		Room: <u>04 - Room 2202 - 30 x 28 x 9</u>					
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Building: <u>25 - Classroom Wing 2200 - 2209</u>		Room: <u>05 - Room 2200 - 30 x 28 x 9</u>					
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>25 - Classroom Wing 2200 - 2209</u>		Room: <u>06 - Room 2201 - 30 x 28 x 9</u>					
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Building: <u>25 - Classroom Wing 2200 - 2209</u>		Room: <u>07 - Room 2203 - 30 x 28 x 9</u>					
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Building: <u>25 - Classroom Wing 2200 - 2209</u>		Room: <u>08 - Room 2205 - 30 x 28 x 9</u>					
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Building: <u>25 - Classroom Wing 2200 - 2209</u>		Room: <u>09 - Room 2207 - 30 x 28 x 9</u>					
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	
Building: <u>25 - Classroom Wing 2200 - 2209</u>		Room: <u>10 - Room 2209 - 30 x 28 x 9</u>					
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		840 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		116 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1044 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1044 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		840 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials		Material Class	Percent Asbestos	Hmgns Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>26 - Classroom Wing 2301-2310</u>		Room: <u>01 - Room 2302 - 45 x 25 x 9</u>					
Floor:	Carpet and Mastic, Blue Multi	MISC	None Detected	34		1125 sq	
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		140 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1260 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1260 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58		1125 sq	Yes
Building: <u>26 - Classroom Wing 2301-2310</u>		Room: <u>02 - Room 2302 Office - 10 x 10 x 9</u>					
Floor:	12" Vinyl Floor Tile, Grey Oatmeal	MISC	5 %	1		100 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		12 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		112 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		112 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58		100 sq	Yes
Building: <u>26 - Classroom Wing 2301-2310</u>		Room: <u>03 - Room 2306 - 45 x 25 x 9</u>					
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		1125 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		140 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1260 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1260 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58		1125 sq	Yes
Building: <u>26 - Classroom Wing 2301-2310</u>		Room: <u>03 - Room 2310 - 30 x 30 x 9</u>					
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		900 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		112 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1008 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1008 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		900 sq	
Building: <u>26 - Classroom Wing 2301-2310</u>		Room: <u>04 - Room 2309 - 30 x 30 x 9</u>					
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3		900 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2		112 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57		1008 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25		1008 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48		900 sq	

Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

HMS Project Number: P76317H

Date of Inspection: August 11, 2023

Materials	Material Class	Percent Asbestos	Hmgn's Matrl #	Sampled Here?	Footage Sq/Ln/Jnts	Friable? Yes/No
Building: <u>26 - Classroom Wing 2301-2310</u>		Room: <u>05 - Room 2307 - 30 x 30 x 9</u>				
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3	900 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2	112 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57	1008 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	1008 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48	900 sq	
Building: <u>26 - Classroom Wing 2301-2310</u>		Room: <u>06 - Room 2305 - 30 x 30 x 9</u>				
Floor:	Carpet and Mastic, Grey Multi Color	MISC	3 %	3	900 sq	No
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2	112 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57	1008 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	1008 sq	
Ceiling:	2'x4' FCP Acoustic Texture	MISC	None Detected	48	900 sq	
Building: <u>26 - Classroom Wing 2301-2310</u>		Room: <u>07 - Room 2303 - 30 x 30 x 9</u>				
Floor:	Carpet and Mastic, Blue Multi	MISC	None Detected	34	900 sq	
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2	112 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57	1008 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	1008 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58	900 sq	Yes
Building: <u>26 - Classroom Wing 2301-2310</u>		Room: <u>08 - Room 2301 - 30 x 30 x 9</u>				
Floor:	Carpet and Mastic, Blue Multi	MISC	None Detected	34	900 sq	
Baseboard:	4" Vinyl Baseboard and Mastic, Blue	MISC	None Detected	2	112 ln	
Walls:	Drywall, Unfinished	MISC	None Detected	57	1008 sq	
Walls:	Tackboard and Glue, Grey	MISC	None Detected	25	1008 sq	
Ceiling:	2'x4' FCP Pinhole Pissure	MISC	Assumed	58	900 sq	Yes



Functional Space Notes

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

FACS Project Number: P76317H

Date of Inspection: August 11, 2023

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Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 01 - Admin

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	01 - Reception - Floor	5 %	170 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	04 - Hallway - Floor	5 %	250 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	10 - Custodial Closet - Floor	5 %	24 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	16 - Open Office - Floor	5 %	380 Square	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	01 - Reception - Baseboard	None Detected	74 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	02 - Principal's Office Contains Vestibule - Baseboard	None Detected	52 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	04 - Hallway - Baseboard	None Detected	110 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	05 - Admin Assistant Office - Baseboard	None Detected	45 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	06 - ASB Clerk Office - Baseboard	None Detected	45 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	07 - Registrar Office - Baseboard	None Detected	56 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	09 - Attendance Office - Baseboard	None Detected	30 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	10 - Custodial Closet - Baseboard	None Detected	20 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	12 - TOSA Office - Baseboard	None Detected	30 Linear	No



Forensic Analytical Consulting Services

Homogeneous Material Records

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Client: Selma Unified School District

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Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	13 - Deputy Principal Office 1 - Baseboard	None Detected	48 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	14 - Deputy Principal Office 2 - Baseboard	None Detected	45 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	15 - Assistant Principal - Baseboard	None Detected	30 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	16 - Open Office - Baseboard	None Detected	118 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	17 - South Vestibule - Baseboard	None Detected	43 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	18 - NE Office At south vestibule - Baseboard	None Detected	28 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	19 - SE Office At south vestibule - Baseboard	None Detected	37 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	21 - SW Office At south vestibule - Baseboard	None Detected	34 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	23 - NW Office - Baseboard	None Detected	25 Linear	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	01 - Reception - Floor	3 %	170 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	02 - Principal's Office Contains Vestibule - Floor	3 %	168 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	05 - Admin Assistant Office - Floor	3 %	144 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

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Building: 01 - Admin

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	06 - ASB Clerk Office - Floor	3 %	144 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	07 - Registrar Office - Floor	3 %	180 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	09 - Attendance Office - Floor	3 %	96 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	12 - TOSA Office - Floor	3 %	96 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	13 - Deputy Principal Office 1 - Floor	3 %	156 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	14 - Deputy Principal Office 2 - Floor	3 %	144 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	15 - Assistant Principal - Floor	3 %	96 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	16 - Open Office - Floor	3 %	380 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	17 - South Vestibule - Floor	3 %	140 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	18 - NE Office At south vestibule - Floor	3 %	90 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	19 - SE Office At south vestibule - Floor	3 %	120 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	21 - SW Office At south vestibule - Floor	3 %	110 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	23 - NW Office - Floor	3 %	80 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

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Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 01 - Admin

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Tackboard and Glue, Off White	MISC	4	PJ76317H-4A, 4B	01 - Reception - Walls	None Detected	740 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	01 - Reception - Ceiling	2 %	340 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	02 - Principal's Office Contains Vestibule - Walls/Ceiling Upper 2ft	2 %	272 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	03 - Principal's Restroom - Ceiling	2 %	25 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	04 - Hallway - Ceiling	2 %	250 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	05 - Admin Assistant Office - Walls/Ceiling Upper 2ft	2 %	233 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	06 - ASB Clerk Office - Walls/Ceiling Upper 2ft	2 %	233 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	07 - Registrar Office - Walls/Ceiling Upper 2ft	2 %	291 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	08 - Men's Restroom - Ceiling	2 %	91 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	09 - Attendance Office - Walls/Ceiling Upper 2ft	2 %	155 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	11 - Women's Restroom - Ceiling	2 %	91 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	12 - TOSA Office - Walls/Ceiling Upper 2ft	2 %	155 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

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Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	13 - Deputy Principal Office 1 - Walls/Ceiling Upper 2ft	2 %	253 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	14 - Deputy Principal Office 2 - Walls/Ceiling Upper 2ft	2 %	233 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	15 - Assistant Principal - Walls/Ceiling Upper 2ft	2 %	155 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	16 - Open Office - Walls/Ceiling Upper 2ft	2 %	996 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	17 - South Vestibule - Walls/Ceiling Upper 2ft	2 %	227 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	18 - NE Office At south vestibule - Walls/Ceiling Upper 2ft	2 %	146 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	19 - SE Office At south vestibule - Walls/Ceiling Upper 2ft	2 %	194 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	20 - South Vestibule Restroom 1 At SE Office - Ceiling	2 %	20 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	21 - SW Office At south vestibule - Walls/Ceiling Upper 2ft	2 %	178 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 01 - Admin

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	22 - South Vestibule Restroom 2 At SW Office - Ceiling	2 %	20 Square	No
12" ACT Pinhle Fissure (Admin)	MISC	5	PJ76317H-5A	23 - NW Office - Walls/Ceiling Upper 2ft	2 %	130 Square	No
Black Mastic (Admin)	MISC	6	PJ76317H-6A	02 - Principal's Office Contains Vestibule - Floor	5 %	168 Square	No
Black Mastic (Admin)	MISC	6	PJ76317H-6A	05 - Admin Assistant Office - Floor	5 %	144 Square	No
Black Mastic (Admin)	MISC	6	PJ76317H-6A	06 - ASB Clerk Office - Floor	5 %	144 Square	No
Black Mastic (Admin)	MISC	6	PJ76317H-6A	07 - Registrar Office - Floor	5 %	180 Square	No
Black Mastic (Admin)	MISC	6	PJ76317H-6A	09 - Attendance Office - Floor	5 %	96 Square	No
Black Mastic (Admin)	MISC	6	PJ76317H-6A	12 - TOSA Office - Floor	5 %	96 Square	No
Black Mastic (Admin)	MISC	6	PJ76317H-6A	13 - Deputy Principal Office 1 - Floor	5 %	156 Square	No
Black Mastic (Admin)	MISC	6	PJ76317H-6A	14 - Deputy Principal Office 2 - Floor	5 %	144 Square	No
Black Mastic (Admin)	MISC	6	PJ76317H-6A	15 - Assistant Principal - Floor	5 %	96 Square	No
Black Mastic (Admin)	MISC	6	PJ76317H-6A	17 - South Vestibule - Floor	5 %	140 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 01 - Admin

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Black Mastic (Admin)	MISC	6	PJ76317H-6A	18 - NE Office At south vestibule - Floor	5 %	90 Square	No
Black Mastic (Admin)	MISC	6	PJ76317H-6A	19 - SE Office At south vestibule - Floor	5 %	120 Square	No
Black Mastic (Admin)	MISC	6	PJ76317H-6A	21 - SW Office At south vestibule - Floor	5 %	110 Square	No
Black Mastic (Admin)	MISC	6	PJ76317H-6A	23 - NW Office - Floor	5 %	80 Square	No
1" Blue Ceramic Tile Mosaic	MISC	7	PJ76317H-7A	03 - Principal's Restroom - Floor	None Detected	25 Square	No
1" Blue Ceramic Tile Mosaic	MISC	7	PJ76317H-7A	20 - South Vestibule Restroom 1 At SE Office - Floor	None Detected	20 Square	No
1" Blue Ceramic Tile Mosaic	MISC	7	PJ76317H-7A	22 - South Vestibule Restroom 2 At SW Office - Floor	None Detected	20 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H-8A, 8B, 8C, 8D, 8E, 8F, 8G	03 - Principal's Restroom - Walls	None Detected	200 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H-8A, 8B, 8C, 8D, 8E, 8F, 8G	10 - Custodial Closet - Walls	None Detected	240 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H-8A, 8B, 8C, 8D, 8E, 8F, 8G	20 - South Vestibule Restroom 1 At SE Office - Walls	None Detected	160 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 01 - Admin

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	22 - South Vestibule Restroom 2 At SW Office - Walls	None Detected	160 Square	No
4" Ceramic Tile, Yellow	MISC	9	PJ76317H- 9A	03 - Principal's Restroom - Walls	None Detected	100 Square	No
4" Ceramic Tile, Yellow	MISC	9	PJ76317H- 9A	08 - Men's Restroom - Walls	None Detected	200 Square	No
4" Ceramic Tile, Yellow	MISC	9	PJ76317H- 9A	20 - South Vestibule Restroom 1 At SE Office - Walls	None Detected	80 Square	No
4" Ceramic Tile, Yellow	MISC	9	PJ76317H- 9A	22 - South Vestibule Restroom 2 At SW Office - Walls	None Detected	80 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	08 - Men's Restroom - Floor	None Detected	91 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	11 - Women's Restroom - Floor	None Detected	91 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	08 - Men's Restroom - Walls	None Detected	400 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	11 - Women's Restroom - Walls	None Detected	400 Square	No
Pipe Insulation	TSI	12	NOT SAMPLED	10 - Custodial Closet - Pipes At Ceiling, assumed elbows	Assumed	1 Each	No
4" Ceramic Tile, Pink	MISC	13	PJ76317H- 13A	11 - Women's Restroom - Walls	None Detected	200 Square	No
9" Vinyl Floor Tile, Grey w/ Yellow	MISC	14	PJ76317H- 14A	24 - Safe - Floor	5 %	110 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 01 - Admin

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Concrete	MISC	15	NOT SAMPLED	24 - Safe - Walls/Ceiling	Assumed	488 Square	No
Hard Elbows	TSI	37	PJ76317H- 37A, 37B, 37C, 37D	04 - Hallway - Pipes Two hard elbows visible in plenum, no access	None Detected	2 Each	No
Wood	NON	0	NOT SAMPLED	Various Locations	Non-Suspect		



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 02 - Cafeteria

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	03 - Break Room - Floor	5 %	625 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	04 - Restroom Vestibule - Floor	5 %	48 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	07 - Cold Storage Hallway - Floor	5 %	125 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	08 - Dry Storage - Floor	5 %	144 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	09 - Kitchen N Hallway - Floor	5 %	76 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	10 - Staff Locker Room - Floor	5 %	60 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	11 - Office - Floor	5 %	255 Square	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	01 - Cafeteria Space - Baseboard	None Detected	364 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	03 - Break Room - Baseboard	None Detected	100 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	04 - Restroom Vestibule - Baseboard	None Detected	32 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	07 - Cold Storage Hallway - Baseboard	None Detected	60 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	08 - Dry Storage - Baseboard	None Detected	69 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	09 - Kitchen N Hallway - Baseboard	None Detected	36 Linear	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 02 - Cafeteria

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	10 - Staff Locker Room - Baseboard	None Detected	28 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	11 - Office - Baseboard	None Detected	41 Linear	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	03 - Break Room - Ceiling	None Detected	625 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	08 - Dry Storage - Walls/Ceiling	None Detected	766 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	11 - Office - Ceiling	None Detected	255 Square	No
4" Ceramic Tile, Yellow	MISC	9	PJ76317H- 9A	05 - Men's Restroom - Baseboard	None Detected	26 Linear	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	05 - Men's Restroom - Floor	None Detected	40 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	06 - Women's Restroom - Floor	None Detected	40 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	12 - Cafeteria Men's RR - Floor	None Detected	117 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	13 - Cafeteria Women's RR - Floor	None Detected	117 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	02 - Kitchen - Ceiling	None Detected	1125 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	04 - Restroom Vestibule - Walls	None Detected	288 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	05 - Men's Restroom - Walls	None Detected	234 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 02 - Cafeteria

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	06 - Women's Restroom - Walls	None Detected	234 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	07 - Cold Storage Hallway - Ceiling	None Detected	125 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	09 - Kitchen N Hallway - Walls/Ceiling	None Detected	404 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	10 - Staff Locker Room - Walls/Ceiling	None Detected	319 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	12 - Cafeteria Men's RR - Ceiling	None Detected	117 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	13 - Cafeteria Women's RR - Ceiling	None Detected	117 Square	No
4" Ceramic Tile, Pink	MISC	13	PJ76317H- 13A	06 - Women's Restroom - Baseboard	None Detected	26 Linear	No
12" Vinyl Floor Tile, Grey Oatmeal (Caf	MISC	16	NOT SAMPLED	01 - Cafeteria Space - Floor	Assumed	7440 Square	No
12" ACT Pinhle Fissure (Cafeteria)	MISC	17	PJ76317H- 17A, 17B, 17C	01 - Cafeteria Space - Walls/Ceiling	2 %	4448 Square	No
12" ACT Pinhle Fissure (Cafeteria)	MISC	17	PJ76317H- 17A, 17B, 17C	03 - Break Room - Walls/Ceiling	2 %	845 Square	No
12" ACT Pinhle Fissure (Cafeteria)	MISC	17	PJ76317H- 17A, 17B, 17C	04 - Restroom Vestibule - Ceiling	2 %	48 Square	No
12" ACT Pinhle Fissure (Cafeteria)	MISC	17	PJ76317H- 17A, 17B, 17C	05 - Men's Restroom - Ceiling	2 %	40 Square	No
12" ACT Pinhle Fissure (Cafeteria)	MISC	17	PJ76317H- 17A, 17B, 17C	06 - Women's Restroom - Ceiling	2 %	40 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 02 - Cafeteria

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" ACT Pinhle Fissure (Cafeteria)	MISC	17	PJ76317H- 17A, 17B, 17C	11 - Office - Walls/Ceiling	2 %	345 Square	No
6" Ceramic Tile, Light Brown	MISC	18	PJ76317H- 18A, 18B	02 - Kitchen - Floor/Baseboard	None Detected	1265 Square	No
FRP and Glue, Off-White	MISC	19	PJ76317H- 19A, 19B, 19C	02 - Kitchen - Walls	None Detected	1400 Square	No
FRP and Glue, Off-White	MISC	19	PJ76317H- 19A, 19B, 19C	07 - Cold Storage Hallway - Walls	None Detected	540 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	02 - Kitchen - Ceiling	Known	338 Square	No
Black Mastic (Cafeteria)	MISC	22	NOT SAMPLED	01 - Cafeteria Space - Floor	Assumed	7440 Square	No
Black Mastic (Cafeteria)	MISC	22	NOT SAMPLED	03 - Break Room - Floor	Assumed	625 Square	No
Black Mastic (Cafeteria)	MISC	22	NOT SAMPLED	04 - Restroom Vestibule - Floor	Assumed	48 Square	No
Black Mastic (Cafeteria)	MISC	22	NOT SAMPLED	07 - Cold Storage Hallway - Floor	Assumed	125 Square	No
Black Mastic (Cafeteria)	MISC	22	NOT SAMPLED	08 - Dry Storage - Floor	Assumed	144 Square	No
Black Mastic (Cafeteria)	MISC	22	NOT SAMPLED	09 - Kitchen N Hallway - Floor	Assumed	76 Square	No
Black Mastic (Cafeteria)	MISC	22	NOT SAMPLED	10 - Staff Locker Room - Floor	Assumed	60 Square	No
Black Mastic (Cafeteria)	MISC	22	NOT SAMPLED	11 - Office - Floor	Assumed	255 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	12 - Cafeteria Men's RR - Walls	None Detected	396 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 02 - Cafeteria

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	13 - Cafeteria Women's RR - Walls	None Detected	396 Square	No
Wood	NON	0	NOT SAMPLED	Various Locations	Non-Suspect		



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 03 - Dining Hall

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Concrete	MISC	15	NOT SAMPLED	01- Dining Hall Area - Floor	Assumed	4400 Square	No
Concrete	MISC	15	NOT SAMPLED	02 - Hallway - Floor	Assumed	252 Square	No
Concrete	MISC	15	NOT SAMPLED	03 - Eastern Storage - Floor	Assumed	225 Square	No
Concrete	MISC	15	NOT SAMPLED	04 - Western Storage - Floor	Assumed	225 Square	No
Concrete	MISC	15	NOT SAMPLED	06 - Custodial Roof Access - Floor	Assumed	45 Square	No
FRP and Glue, Off-White	MISC	19	PJ76317H- 19A, 19B, 19C	06 - Custodial Roof Access - Walls Nw corner	None Detected	22 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	05 - Women's RR - Walls	None Detected	540 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	07 - Men's Restroom - Walls	None Detected	540 Square	No
4" Vinyl Baseboard and Mastic, Grey	MISC	24	PJ76317H- 24A, 24B, 24C	01- Dining Hall Area - Baseboard	None Detected	270 Linear	No
4" Vinyl Baseboard and Mastic, Grey	MISC	24	PJ76317H- 24A, 24B, 24C	02 - Hallway - Baseboard/Walls	None Detected	740 Linear	No
4" Vinyl Baseboard and Mastic, Grey	MISC	24	PJ76317H- 24A, 24B, 24C	03 - Eastern Storage - Baseboard	None Detected	60 Linear	No
4" Vinyl Baseboard and Mastic, Grey	MISC	24	PJ76317H- 24A, 24B, 24C	04 - Western Storage - Baseboard	None Detected	60 Linear	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 03 - Dining Hall

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
4" Vinyl Baseboard and Mastic, Grey	MISC	24	PJ76317H- 24A, 24B, 24C	06 - Custodial Roof Access - Baseboard	None Detected	28 Linear	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	01- Dining Hall Area - Walls	None Detected	5400 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	01- Dining Hall Area - Walls North and South Upper Walls	None Detected	810 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	02 - Hallway - Ceiling	None Detected	252 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	03 - Eastern Storage - Walls	None Detected	540 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	04 - Western Storage - Walls	None Detected	540 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	05 - Women's RR - Ceiling	None Detected	225 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	06 - Custodial Roof Access - Walls	None Detected	224 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	07 - Men's Restroom - Ceiling	None Detected	225 Square	No
12" ACT Small Pinhole	MISC	27	PJ76317H- 27A, 27B, 27C	02 - Hallway - Ceiling	2 %	202 Square	No
6" Ceramic Tile, Grey	MISC	28	NOT SAMPLED	05 - Women's RR - Floor	Assumed	225 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 03 - Dining Hall

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
6" Ceramic Tile, Grey	MISC	28	NOT SAMPLED	07 - Men's Restroom - Floor	Assumed	225 Square	No
Brick & Mortar	MISC	29	PJ76317H- 29A	01- Dining Hall Area - Walls At Columns	None Detected	540 Square	No
Fiberglass	NON	0	NOT SAMPLED	Various Locations	Non-Suspect		
Metal	NON	0	NOT SAMPLED	01- Dining Hall Area - Ceiling	Non-Suspect	4400 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 04 - Band

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	01 - Classroom 1903 - Floor	5 %	2520 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	04 - Office (1903) - Floor	5 %	108 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	05 - Storage 1 (1903) - Floor	5 %	108 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	06 - Storage 2 (1903) - Floor	5 %	108 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	07- Storage 3 (1903) Contains Lockers - Floor	5 %	200 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	08 - Uniform Storage (1903) - Floor	5 %	165 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	14 - Classroom 1904 - Floor	5 %	1122 Square	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	01 - Classroom 1903 - Baseboard	None Detected	204 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	04 - Office (1903) - Baseboard	None Detected	42 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	05 - Storage 1 (1903) - Baseboard	None Detected	42 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	08 - Uniform Storage (1903) - Baseboard	None Detected	52 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	09 - NW Storage (1903) - Baseboard	None Detected	30 Linear	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 04 - Band

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	10 - N Side, Center Storage(1903) - Baseboard	None Detected	30 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	11 - NE Storage (1903) - Baseboard	None Detected	65 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	13 - Classroom Hallway - Baseboard	None Detected	34 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	14 - Classroom 1904 - Baseboard	None Detected	134 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	15 - NW Office (1904) - Baseboard	None Detected	38 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	17 - NE Storage (1904) Attic Access - Baseboard	None Detected	38 Linear	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	02 - Restroom (1903) At Main Entry - Walls	None Detected	256 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	03 - Custodial (1903) - Walls/Ceiling	None Detected	164 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	06 - Storage 2 (1903) - Walls	None Detected	336 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	07- Storage 3 (1903) Contains Lockers - Walls	None Detected	622 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	08 - Uniform Storage (1903) - Walls	None Detected	513 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	12 - Ext Chiller Room - Walls/Ceiling	None Detected	750 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	14 - Classroom 1904 - Ceiling	None Detected	1122 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 04 - Band

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	17 - NE Storage (1904) Attic Access - Walls/Ceiling	None Detected	430 Square	No
4" Ceramic Tile, Yellow	MISC	9	PJ76317H- 9A	02 - Restroom (1903) At Main Entry - Baseboard	None Detected	32 Linear	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	02 - Restroom (1903) At Main Entry - Floor	None Detected	64 Square	No
Concrete	MISC	15	NOT SAMPLED	03 - Custodial (1903) - Floor/Baseboard	Assumed	38 Square	No
Concrete	MISC	15	NOT SAMPLED	12 - Ext Chiller Room - Floor/Baseboard	Assumed	200 Square	No
12" ACT Pinhole Uniform	MISC	30	PJ76317H- 30A, 30B	01 - Classroom 1903 - Walls/Ceiling	2 %	3662 Square	No
12" ACT Pinhole Uniform	MISC	30	PJ76317H- 30A, 30B	09 - NW Storage (1903) - Ceiling	2 %	54 Square	No
12" ACT Pinhole Uniform	MISC	30	PJ76317H- 30A, 30B	10 - N Side, Center Storage(1903) - Ceiling	2 %	54 Square	No
12" ACT Pinhole Uniform	MISC	30	PJ76317H- 30A, 30B	11 - NE Storage (1903) - Ceiling	2 %	117 Square	No
12" ACT Pinhole Uniform	MISC	30	PJ76317H- 30A, 30B	13 - Classroom Hallway - Walls/Ceiling	2 %	97 Square	No
12" ACT Pinhole Uniform	MISC	30	PJ76317H- 30A, 30B	14 - Classroom 1904 - Walls/Ceiling Upper portion	2 %	1872 Square	No
12" ACT Pinhole Fissure (band)	MISC	31	PJ76317H- 31A, 31B	02 - Restroom (1903) At Main Entry - Ceiling	None Detected	64 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 04 - Band

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" ACT Pinhole Fissure (band)	MISC	31	PJ76317H- 31A, 31B	04 - Office (1903) - Walls/Ceiling Upper 1ft	None Detected	142 Square	No
12" ACT Pinhole Fissure (band)	MISC	31	PJ76317H- 31A, 31B	05 - Storage 1 (1903) - Walls/Ceiling Upper 1ft	None Detected	142 Square	No
12" ACT Pinhole Fissure (band)	MISC	31	PJ76317H- 31A, 31B	06 - Storage 2 (1903) - Ceiling	None Detected	108 Square	No
12" ACT Pinhole Fissure (band)	MISC	31	PJ76317H- 31A, 31B	07- Storage 3 (1903) Contains Lockers - Ceiling	None Detected	200 Square	No
12" ACT Pinhole Fissure (band)	MISC	31	PJ76317H- 31A, 31B	08 - Uniform Storage (1903) - Ceiling	None Detected	165 Square	No
12" ACT Pinhole Fissure (band)	MISC	31	PJ76317H- 31A, 31B	15 - NW Office (1904) - Walls/Ceiling Upper 2 ft	None Detected	156 Square	No
12" ACT Pinhole Fissure (band)	MISC	31	PJ76317H- 31A, 31B	16 - Center Office (1904) - Walls/Ceiling Upper 2 ft	None Detected	156 Square	No
Black Mastic (Band)	MISC	32	NOT SAMPLED	01 - Classroom 1903 - Floor	Assumed	2520 Square	No
Black Mastic (Band)	MISC	32	NOT SAMPLED	04 - Office (1903) - Floor	Assumed	108 Square	No
Black Mastic (Band)	MISC	32	NOT SAMPLED	05 - Storage 1 (1903) - Floor	Assumed	108 Square	No
Black Mastic (Band)	MISC	32	NOT SAMPLED	06 - Storage 2 (1903) - Floor	Assumed	108 Square	No
Black Mastic (Band)	MISC	32	NOT SAMPLED	07- Storage 3 (1903) Contains Lockers - Floor	Assumed	200 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 04 - Band

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Black Mastic (Band)	MISC	32	NOT SAMPLED	08 - Uniform Storage (1903) - Floor	Assumed	165 Square	No
Black Mastic (Band)	MISC	32	NOT SAMPLED	09 - NW Storage (1903) - Floor	Assumed	54 Square	No
Black Mastic (Band)	MISC	32	NOT SAMPLED	10 - N Side, Center Storage(1903) - Floor	Assumed	54 Square	No
Black Mastic (Band)	MISC	32	NOT SAMPLED	11 - NE Storage (1903) - Floor	Assumed	117 Square	No
Black Mastic (Band)	MISC	32	NOT SAMPLED	13 - Classroom Hallway - Floor	Assumed	66 Square	No
Black Mastic (Band)	MISC	32	NOT SAMPLED	14 - Classroom 1904 - Floor	Assumed	1122 Square	No
Black Mastic (Band)	MISC	32	NOT SAMPLED	15 - NW Office (1904) - Floor	Assumed	88 Square	No
Black Mastic (Band)	MISC	32	NOT SAMPLED	16 - Center Office (1904) - Floor	Assumed	88 Square	No
Black Mastic (Band)	MISC	32	NOT SAMPLED	17 - NE Storage (1904) Attic Access - Floor	Assumed	88 Square	No
12" Vinyl Floor Tile Grey Streaks	MISC	33	PJ76317H- 33A, 33B, 33C	09 - NW Storage (1903) - Floor	None Detected	54 Square	No
12" Vinyl Floor Tile Grey Streaks	MISC	33	PJ76317H- 33A, 33B, 33C	10 - N Side, Center Storage(1903) - Floor	None Detected	54 Square	No
12" Vinyl Floor Tile Grey Streaks	MISC	33	PJ76317H- 33A, 33B, 33C	11 - NE Storage (1903) - Floor	None Detected	117 Square	No
Carpet and Mastic, Blue Multi	MISC	34	PJ76317H- 34A	09 - NW Storage (1903) - Walls Upper four feet	None Detected	135 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 04 - Band

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Carpet and Mastic, Blue Multi	MISC	34	PJ76317H-34A	10 - N Side, Center Storage(1903) - Walls Upper four feet	None Detected	135 Square	No
Carpet and Mastic, Blue Multi	MISC	34	PJ76317H-34A	11 - NE Storage (1903) - Walls Upper four feet	None Detected	293 Square	No
Fiberglass Pipe Insulation w/ Canvas Wra	TSI	35	PJ76317H-35A, 35B, 35C, 35D, 35E	12 - Ext Chiller Room - Pipes	None Detected	2 Each	No
3" Pre-Formed Block Insulation	TSI	36	PJ76317H-36A	12 - Ext Chiller Room - Pipes	None Detected	2 Each	No
Hard Elbows	TSI	37	PJ76317H-37A, 37B, 37C, 37D	12 - Ext Chiller Room - Pipes	None Detected	3 Each	No
12" Vinyl Floor Tile Off-White Oatmeal	MISC	38	PJ76317H-38A, 38B, 38C, 38D	13 - Classroom Hallway - Floor	5 %	66 Square	No
12" Vinyl Floor Tile Off-White Oatmeal	MISC	38	PJ76317H-38A, 38B, 38C, 38D	15 - NW Office (1904) - Floor	5 %	88 Square	No
12" Vinyl Floor Tile Off-White Oatmeal	MISC	38	PJ76317H-38A, 38B, 38C, 38D	16 - Center Office (1904) - Floor	5 %	88 Square	No
12" Vinyl Floor Tile Off-White Oatmeal	MISC	38	PJ76317H-38A, 38B, 38C, 38D	17 - NE Storage (1904) Attic Access - Floor	5 %	88 Square	No
4" Vinyl Baseboard and Mastic, Brown	MISC	39	PJ76317H-39A, 39B, 39C	16 - Center Office (1904) - Baseboard	2 %	38 Linear	No
Wood	NON	0	NOT SAMPLED	Various Locations	Non-Suspect		



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 05 - Pool House

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Concrete	MISC	15	NOT SAMPLED	01 - Office 1 - Floor	Assumed	160 Square	No
Concrete	MISC	15	NOT SAMPLED	02 - Office 2 - Floor	Assumed	160 Square	No
Concrete	MISC	15	NOT SAMPLED	03 - Pool Equipment Roof Access - Floor	Assumed	836 Square	No
CMU	MISC	40	PJ76317H- 40A, 40B, 40C	01 - Office 1 - Walls	None Detected	252 Square	No
CMU	MISC	40	PJ76317H- 40A, 40B, 40C	02 - Office 2 - Walls	None Detected	252 Square	No
CMU	MISC	40	PJ76317H- 40A, 40B, 40C	03 - Pool Equipment Roof Access - Walls	None Detected	1320 Square	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	01 - Office 1 - Walls S wall	None Detected	252 Square	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	02 - Office 2 - Walls N wall	None Detected	252 Square	No
Fiberglass	NON	0	NOT SAMPLED	03 - Pool Equipment Roof Access - Ceiling	Non-Suspect	836 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 06 - Snack Bar

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	02 - Girl's RR - Floor/Baseboard	None Detected	598 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	03 - Boy's RR - Floor/Baseboard	None Detected	598 Square	No
Concrete	MISC	15	NOT SAMPLED	01 - Snack Bar - Floor	Assumed	440 Square	No
6" Ceramic Tile, Light Brown	MISC	18	PJ76317H- 18A, 18B	01 - Snack Bar - Baseboard	None Detected	126 Linear	No
FRP and Glue, Off-White	MISC	19	PJ76317H- 19A, 19B, 19C	01 - Snack Bar - Walls	None Detected	1260 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	02 - Girl's RR - Walls	None Detected	1060 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	03 - Boy's RR - Walls	None Detected	1060 Square	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	01 - Snack Bar - Ceiling	None Detected	440 Square	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	02 - Girl's RR - Ceiling	None Detected	492 Square	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	03 - Boy's RR - Ceiling	None Detected	492 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 07 - Boy's Locker Room (1719)

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	08 - Coaches Office - Floor	5 %	143 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	10 - Coaches Office 2 - Floor	5 %	88 Square	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	07 - Helmet Storage - Baseboard	None Detected	54 Linear	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	01 - Locker Room - Walls	None Detected	2910 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	02 - Restroom - Walls	None Detected	960 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	03 - Custodial - Walls/Ceiling	None Detected	275 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	04 - NE Locker Room Alcove - Walls	None Detected	754 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	05 - NW Locker Room Alcove - Walls	None Detected	1148 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	06 - Foyer - Walls	None Detected	288 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	07 - Helmet Storage - Walls	None Detected	756 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	08 - Coaches Office - Walls	None Detected	384 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	09 - Coaches RR - Walls	None Detected	384 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	10 - Coaches Office 2 - Walls	None Detected	236 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	12 - Storage - Walls	None Detected	256 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 07 - Boy's Locker Room (1719)

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	13 - Exterior Boiler Room - Walls/Ceiling	None Detected	654 Square	No
4" Ceramic Tile, Yellow	MISC	9	PJ76317H- 9A	01 - Locker Room - Walls At Shower	None Detected	582 Square	No
4" Ceramic Tile, Yellow	MISC	9	PJ76317H- 9A	02 - Restroom - Walls	None Detected	480 Square	No
4" Ceramic Tile, Yellow	MISC	9	PJ76317H- 9A	09 - Coaches RR - Walls	None Detected	192 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	01 - Locker Room - Floor A Shower	None Detected	231 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	02 - Restroom - Floor	None Detected	380 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	09 - Coaches RR - Floor	None Detected	144 Square	No
Concrete	MISC	15	NOT SAMPLED	01 - Locker Room - Floor/Baseboard	Assumed	2504 Square	No
Concrete	MISC	15	NOT SAMPLED	03 - Custodial - Floor/Baseboard	Assumed	59 Square	No
Concrete	MISC	15	NOT SAMPLED	04 - NE Locker Room Alcove - Floor/Baseboard	Assumed	326 Square	No
Concrete	MISC	15	NOT SAMPLED	05 - NW Locker Room Alcove - Floor/Baseboard	Assumed	496 Square	No
Concrete	MISC	15	NOT SAMPLED	06 - Foyer - Floor/Baseboard	Assumed	116 Square	No
Concrete	MISC	15	NOT SAMPLED	07 - Helmet Storage - Floor	Assumed	152 Square	No
Concrete	MISC	15	NOT SAMPLED	12 - Storage - Floor/Baseboard	Assumed	87 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 07 - Boy's Locker Room (1719)

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Concrete	MISC	15	NOT SAMPLED	13 - Exterior Boiler Room - Floor/Baseboard	Assumed	204 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	01 - Locker Room - Ceiling	Known	2310 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	02 - Restroom - Ceiling	Known	380 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	04 - NE Locker Room Alcove - Ceiling	Known	272 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	05 - NW Locker Room Alcove - Ceiling	Known	414 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	06 - Foyer - Ceiling	Known	80 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	07 - Helmet Storage - Ceiling	Known	152 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	08 - Coaches Office - Ceiling	Known	143 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	09 - Coaches RR - Ceiling	Known	144 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	10 - Coaches Office 2 - Ceiling	Known	88 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	12 - Storage - Ceiling	Known	55 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	06 - Foyer - Walls	None Detected		No
4" Vinyl Baseboard and Mastic, Grey	MISC	24	PJ76317H- 24A, 24B, 24C	08 - Coaches Office - Baseboard	None Detected	48 Linear	No
4" Vinyl Baseboard and Mastic, Grey	MISC	24	PJ76317H- 24A, 24B, 24C	10 - Coaches Office 2 - Baseboard	None Detected	30 Linear	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 07 - Boy's Locker Room (1719)

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Fiberglass Pipe Insulation w/ Canvas Wra	TSI	35	PJ76317H- 35A, 35B, 35C, 35D, 35E	13 - Exterior Boiler Room - Pipes	None Detected	4 Each	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 08 - Concessions

Inspection Date: 8/11/2023

Building Comment: Attached to Gym East Side

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	01 - Eastern Laundry Rm - Walls/Ceiling	None Detected	480 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	02 - NW Storage - Ceiling	None Detected	104 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	02 - NW Storage - Floor	None Detected	104 Square	No
Concrete	MISC	15	NOT SAMPLED	01 - Eastern Laundry Rm - Floor/Baseboard	Assumed	158 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	02 - NW Storage - Walls	None Detected	336 Square	No
Wood	NON	0	NOT SAMPLED	Attic - Floor	Non-Suspect		No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 09 - Gym

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Concrete	MISC	15	NOT SAMPLED	Gym - Walls/Ceiling	Assumed	10400 Square	No
12" ACT Pinhole Random	MISC	42	NOT SAMPLED	Gym - Ceiling No Access	Assumed	900 Square	No
Metal	NON	0	NOT SAMPLED	Gym - Baseboard	Non-Suspect	380 Linear	No
Wood	NON	0	NOT SAMPLED	Gym - Floor/Ceiling	Non-Suspect	18000 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 10 - Girl's Locker Room (1719)

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	05 - Coaches RR - Floor	None Detected	144 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	07 - Shower Area - Floor	None Detected	300 Square	No
Concrete	MISC	15	NOT SAMPLED	01 - Foyer - Floor	Assumed	72 Square	No
Concrete	MISC	15	NOT SAMPLED	02 - Custodial Closet - Floor	Assumed	55 Square	No
Concrete	MISC	15	NOT SAMPLED	06 - Locker Room RR - Floor	Assumed	250 Square	No
Concrete	MISC	15	NOT SAMPLED	08 - Locker Room Main NE - Floor	Assumed	675 Square	No
Concrete	MISC	15	NOT SAMPLED	09 - Varsity Locker Room Center - Floor	Assumed	330 Square	No
Concrete	MISC	15	NOT SAMPLED	10 - Locker Room Main SW Includes exit foyer - Floor	Assumed	1156 Square	No
Concrete	MISC	15	NOT SAMPLED	11 - Equipment 3 - Floor	Assumed	54 Square	No
Concrete	MISC	15	NOT SAMPLED	12 - Equipment 1 (includes eq 2) - Floor	Assumed	225 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	05 - Coaches RR - Walls	None Detected	374 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	06 - Locker Room RR - Walls	None Detected	649 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	07 - Shower Area - Walls	None Detected	779 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 10 - Girl's Locker Room (1719)

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	08 - Locker Room Main NE - Walls East Wall at Sinks	None Detected	83 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	03 - Coaches Office Includes Vestibules - Walls/Ceiling	None Detected	1044 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	04 - Roof Access Closet At Coaches Office - Walls	None Detected	312 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	05 - Coaches RR - Walls/Ceiling	None Detected	612 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	06 - Locker Room RR - Walls/Ceiling	None Detected	1063 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	07 - Shower Area - Walls/Ceiling	None Detected	1275 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	08 - Locker Room Main NE - Walls	None Detected	333 Square	No
CMU	MISC	40	PJ76317H- 40A, 40B, 40C	01 - Foyer - Walls	None Detected	576 Square	No
CMU	MISC	40	PJ76317H- 40A, 40B, 40C	02 - Custodial Closet - Walls	None Detected	440 Square	No
CMU	MISC	40	PJ76317H- 40A, 40B, 40C	04 - Roof Access Closet At Coaches Office - Walls	None Detected	104 Square	No
CMU	MISC	40	PJ76317H- 40A, 40B, 40C	06 - Locker Room RR - Walls At Partition Walls	None Detected	112 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 10 - Girl's Locker Room (1719)

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
CMU	MISC	40	PJ76317H- 40A, 40B, 40C	08 - Locker Room Main NE - Walls	None Detected	1331 Square	No
CMU	MISC	40	PJ76317H- 40A, 40B, 40C	09 - Varsity Locker Room Center - Walls	None Detected	902 Square	No
CMU	MISC	40	PJ76317H- 40A, 40B, 40C	10 - Locker Room Main SW Includes exit foyer - Walls	None Detected	2176 Square	No
CMU	MISC	40	PJ76317H- 40A, 40B, 40C	11 - Equipment 3 - Walls	None Detected	360 Square	No
CMU	MISC	40	PJ76317H- 40A, 40B, 40C	12 - Equipment 1 (includes eq 2) - Walls	None Detected	612 Square	No
12" Vinyl Floor Tile, Brown Oameal	MISC	43	PJ76317H- 43A, 43B	03 - Coaches Office Includes Vestibules - Floor	None Detected	360 Square	No
12" Vinyl Floor Tile, Brown Oameal	MISC	43	PJ76317H- 43A, 43B	04 - Roof Access Closet At Coaches Office - Floor	None Detected	42 Square	No
4" Vinyl Baseboard and Mastic, Black	MISC	44	PJ76317H- 44A, 44B, 44C	03 - Coaches Office Includes Vestibules - Baseboard	None Detected	76 Linear	No
4" Vinyl Baseboard and Mastic, Black	MISC	44	PJ76317H- 44A, 44B, 44C	04 - Roof Access Closet At Coaches Office - Baseboard	None Detected	26 Linear	No
Metal	NON	0	NOT SAMPLED	Various Locations	Non-Suspect		



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 11 - Boy's Locker Room (1507)

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	06 - Coaches Office - Baseboard	None Detected	56 Linear	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	03 - Restroom - Floor	None Detected	192 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	04 - Shower - Floor	None Detected	304 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	07 - Coaches RR - Floor	None Detected	99 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	01 - Foyer - Walls	None Detected	420 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	02 - Storage 1 At foyer - Walls/Ceiling	None Detected	275 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	03 - Restroom - Walls	None Detected	560 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	04 - Shower - Walls	None Detected	887 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	05 - Locker Room Main - Walls	None Detected	1904 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	06 - Coaches Office - Walls	None Detected	448 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	07 - Coaches RR - Walls	None Detected	320 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 11 - Boy's Locker Room (1507)

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	08 - Storage 2 Near Coaches Office - Walls	None Detected	400 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	08 - Storage 3 - Walls	None Detected	224 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	09 - Electrical Closet - Walls/Ceiling	None Detected	412 Square	No
4" Ceramic Tile, Pink	MISC	13	PJ76317H- 13A	03 - Restroom - Walls	None Detected	280 Square	No
4" Ceramic Tile, Pink	MISC	13	PJ76317H- 13A	04 - Shower - Walls	None Detected	443 Square	No
4" Ceramic Tile, Pink	MISC	13	PJ76317H- 13A	07 - Coaches RR - Walls	None Detected	160 Square	No
Concrete	MISC	15	NOT SAMPLED	01 - Foyer - Floor/Baseboard	Assumed	132 Square	No
Concrete	MISC	15	NOT SAMPLED	02 - Storage 1 At foyer - Floor/Baseboard	Assumed	59 Square	No
Concrete	MISC	15	NOT SAMPLED	05 - Locker Room Main - Floor/Baseboard	Assumed	1291 Square	No
Concrete	MISC	15	NOT SAMPLED	08 - Storage 2 Near Coaches Office - Floor	Assumed	150 Square	No
Concrete	MISC	15	NOT SAMPLED	08 - Storage 3 - Floor/Baseboard	Assumed	112 Square	No
Concrete	MISC	15	NOT SAMPLED	09 - Electrical Closet - Floor/Baseboard	Assumed	106 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 11 - Boy's Locker Room (1507)

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
FRP and Glue, Off-White	MISC	19	PJ76317H- 19A, 19B, 19C	01 - Foyer - Walls	None Detected	336 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	01 - Foyer - Ceiling	Known	90 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	03 - Restroom - Ceiling	Known	192 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	04 - Shower - Ceiling	Known	304 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	05 - Locker Room Main - Ceiling	Known	1155 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	06 - Coaches Office - Ceiling	Known	187 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	07 - Coaches RR - Ceiling	Known	99 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	08 - Storage 2 Near Coaches Office - Ceiling	Known	150 Square	No
Transite Ceiling Panels	MISC	21	NOT SAMPLED	08 - Storage 3 - Ceiling	Known	84 Square	No
4" Vinyl Baseboard and Mastic, Grey	MISC	24	PJ76317H- 24A, 24B, 24C	08 - Storage 2 Near Coaches Office - Baseboard	None Detected	50 Linear	No
Fiberglass Pipe Insulation w/ Canvas Wra	TSI	35	PJ76317H- 35A, 35B, 35C, 35D, 35E	02 - Storage 1 At foyer - Pipes	None Detected	2 Each	No
12" Vinyl Floor Tile Off-White Oatmeal	MISC	38	PJ76317H- 38A, 38B, 38C, 38D	06 - Coaches Office - Floor	5 %	187 Square	No
Black Mastic (Locker Rooms)	MISC	45	NOT SAMPLED	06 - Coaches Office - Floor	Assumed	187 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District
Building: 12 - 1001-1010 Classroom Wing

Site: Selma High School

Project #: P76317H
Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	01 - Room 1007 - Floor	5 %	900 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	02 - Room 1005 - Floor	5 %	900 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	03 - Room 1003 - Floor	5 %	900 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	04 - Room 1001 Nurse's Office - Floor	5 %	525 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	08 - Room 1002 - Floor	5 %	900 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	09 - Room 1004 - Floor	5 %	900 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	10 - Room 1006 - Floor	5 %	900 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	11 - Room 1008 - Floor	5 %	900 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	12 - Room 1010 - Floor	5 %	900 Square	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	01 - Room 1007 - Baseboard	None Detected	90 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	02 - Room 1005 - Baseboard	None Detected	90 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	03 - Room 1003 - Baseboard	None Detected	90 Linear	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District
Building: 12 - 1001-1010 Classroom Wing

Site: Selma High School

Project #: P76317H
Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	04 - Room 1001 Nurse's Office - Baseboard	None Detected	100 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	08 - Room 1002 - Baseboard	None Detected	90 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	09 - Room 1004 - Baseboard	None Detected	90 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	10 - Room 1006 - Baseboard	None Detected	90 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	11 - Room 1008 - Baseboard	None Detected	90 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	12 - Room 1010 - Baseboard	None Detected	90 Linear	No
Tackboard and Glue, Off White	MISC	4	PJ76317H- 4A, 4B	01 - Room 1007 - Walls	None Detected	864 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	05 - Boy's Restroom - Floor	None Detected	299 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	07 - Women's RR - Floor	None Detected	207 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	04 - Room 1001 Nurse's Office - Walls	None Detected	675 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	05 - Boy's Restroom - Ceiling	None Detected	299 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	06 - Custodial at Boy's Restroom - Walls/Ceiling	None Detected	296 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	07 - Women's RR - Ceiling	None Detected	207 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District
Building: 12 - 1001-1010 Classroom Wing

Site: Selma High School

Project #: P76317H
Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Concrete	MISC	15	NOT SAMPLED	06 - Custodial at Boy's Restroom - Floor	Assumed	36 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	05 - Boy's Restroom - Walls	None Detected	720 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	07 - Women's RR - Walls	None Detected	640 Square	No
Fiberglass Pipe Insulation w/ Canvas Wra	TSI	35	PJ76317H- 35A, 35B, 35C, 35D, 35E	06 - Custodial at Boy's Restroom - Pipes West Side	None Detected	4 Each	No
4" Vinyl Baseboard and Mastic, Light Gr	MISC	46	PJ76317H- 46A	01 - Room 1007 - Baseboard West Wall	None Detected	30 Linear	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	01 - Room 1007 - Walls Upper Portion	2 %	216 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	02 - Room 1005 - Walls Upper Portion	2 %	216 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	03 - Room 1003 - Walls Upper Portion	2 %	216 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	04 - Room 1001 Nurse's Office - Ceiling	2 %	525 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	08 - Room 1002 - Walls Upper Portion	2 %	216 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	09 - Room 1004 - Walls Upper Portion	2 %	216 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	10 - Room 1006 - Walls Upper Portion	2 %	216 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District
Building: 12 - 1001-1010 Classroom Wing

Site: Selma High School

Project #: P76317H
Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	11 - Room 1008 - Walls Upper Portion	2 %	216 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	12 - Room 1010 - Walls Upper Portion	2 %	216 Square	No
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	01 - Room 1007 - Ceiling	None Detected	900 Square	No
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	02 - Room 1005 - Ceiling	None Detected	225 Square	No
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	03 - Room 1003 - Ceiling	None Detected	225 Square	No
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	08 - Room 1002 - Ceiling	None Detected	225 Square	No
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	09 - Room 1004 - Ceiling	None Detected	225 Square	No
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	10 - Room 1006 - Ceiling	None Detected	225 Square	No
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	11 - Room 1008 - Ceiling	None Detected	225 Square	No
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	12 - Room 1010 - Ceiling	None Detected	225 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	01 - Room 1007 - Floor	Assumed	900 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	02 - Room 1005 - Floor	Assumed	900 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	03 - Room 1003 - Floor	Assumed	900 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	04 - Room 1001 Nurse's Office - Floor	Assumed	525 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 12 - 1001-1010 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	08 - Room 1002 - Floor	Assumed	900 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	09 - Room 1004 - Floor	Assumed	900 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	10 - Room 1006 - Floor	Assumed	900 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	11 - Room 1008 - Floor	Assumed	900 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	12 - Room 1010 - Floor	Assumed	900 Square	No
Metal	NON	0	NOT SAMPLED	Various Locations North wall	Non-Suspect		
Wood	NON	0	NOT SAMPLED	Various Locations	Non-Suspect		



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 13 - 803-810 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	01 - Room 809 - Floor	5 %	900 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	02 - Room 807 - Floor	5 %	900 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	03 - Room 805 - Floor	5 %	900 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	04 - Room 803 - Floor	5 %	900 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	10 - Room 804 - Floor	5 %	900 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	11 - Room 806 - Floor	5 %	900 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	16 - Room 810 - Floor	5 %	1440 Square	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	01 - Room 809 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	02 - Room 807 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	03 - Room 805 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	04 - Room 803 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	05 - Break Room North Includes RR Vestibule - Baseboard	None Detected	84 Linear	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 13 - 803-810 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	08 - Break Room South Includes RR Vestibule - Baseboard	None Detected	84 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	10 - Room 804 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	11 - Room 806 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	12 - 806 Storage 1 - Baseboard	None Detected	56 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	13 - 806 Storage 1 Closet - Baseboard	None Detected	7 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	14 - 806 Storage 2 - Baseboard	None Detected	56 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	16 - Room 810 - Baseboard	None Detected	192 Linear	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	05 - Break Room North Includes RR Vestibule - Floor	3 %	360 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	08 - Break Room South Includes RR Vestibule - Floor	3 %	360 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	07 - Custodial - Walls/Ceiling	None Detected	343 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	15 - 806 Storage 2 Closet - Walls/Ceiling	None Detected	352 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	06 - Break Room RR (women's) - Floor	None Detected	54 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	09 - Break Room RR (mens) - Floor	None Detected	54 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 13 - 803-810 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	05 - Break Room North Includes RR Vestibule - Ceiling At RR Vestibule	None Detected	90 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	06 - Break Room RR (women's) - Ceiling	None Detected	54 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	08 - Break Room South Includes RR Vestibule - Ceiling At RR Vestibule	None Detected	90 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	09 - Break Room RR (mens) - Ceiling	None Detected	54 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	12 - 806 Storage 1 - Walls	None Detected	504 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	13 - 806 Storage 1 Closet - Walls	None Detected	61 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	14 - 806 Storage 2 - Walls	None Detected	504 Square	No
Concrete	MISC	15	NOT SAMPLED	07 - Custodial - Floor/Baseboard	Assumed	87 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	06 - Break Room RR (women's) - Walls	None Detected	270 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	09 - Break Room RR (mens) - Walls	None Detected	270 Square	No
Fiberglass Pipe Insulation w/ Canvas Wra	TSI	35	PJ76317H- 35A, 35B, 35C, 35D, 35E	07 - Custodial - Pipes	None Detected	2 Each	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 13 - 803-810 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" Vinyl Floor Tile Off-White Oatmeal	MISC	38	PJ76317H- 38A, 38B, 38C, 38D	12 - 806 Storage 1 - Floor	5 %	132 Square	No
12" Vinyl Floor Tile Off-White Oatmeal	MISC	38	PJ76317H- 38A, 38B, 38C, 38D	13 - 806 Storage 1 Closet - Floor	5 %	16 Square	No
12" Vinyl Floor Tile Off-White Oatmeal	MISC	38	PJ76317H- 38A, 38B, 38C, 38D	14 - 806 Storage 2 - Floor	5 %	132 Square	No
12" Vinyl Floor Tile Off-White Oatmeal	MISC	38	PJ76317H- 38A, 38B, 38C, 38D	15 - 806 Storage 2 Closet - Floor	5 %	64 Square	No
4" Vinyl Baseboard and Mastic, Brown	MISC	39	PJ76317H- 39A, 39B, 39C	15 - 806 Storage 2 Closet - Baseboard	2 %	32 Linear	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	01 - Room 809 - Walls	2 %	216 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	02 - Room 807 - Walls	2 %	216 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	03 - Room 805 - Walls	2 %	216 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	04 - Room 803 - Walls	2 %	216 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	05 - Break Room North Includes RR Vestibule - Ceiling	2 %	360 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	08 - Break Room South Includes RR Vestibule - Ceiling	2 %	360 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	10 - Room 804 - Walls	2 %	216 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	11 - Room 806 - Walls	2 %	216 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 13 - 803-810 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	12 - 806 Storage 1 - Ceiling	2 %	132 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	13 - 806 Storage 1 Closet - Walls/Ceiling W Wall	2 %	23 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	14 - 806 Storage 2 - Ceiling	2 %	132 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	16 - Room 810 - Walls	2 %	346 Square	No
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	01 - Room 809 - Ceiling	None Detected	900 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	02 - Room 807 - Ceiling	None Detected	900 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	03 - Room 805 - Ceiling	None Detected	900 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	04 - Room 803 - Ceiling	None Detected	900 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	10 - Room 804 - Ceiling	None Detected	900 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	11 - Room 806 - Ceiling	None Detected	900 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	16 - Room 810 - Ceiling	None Detected	1440 Square	Yes
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	01 - Room 809 - Floor	Assumed	900 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	02 - Room 807 - Floor	Assumed	900 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	03 - Room 805 - Floor	Assumed	900 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 13 - 803-810 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	04 - Room 803 - Floor	Assumed	900 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	10 - Room 804 - Floor	Assumed	900 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	11 - Room 806 - Floor	Assumed	900 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	12 - 806 Storage 1 - Floor	Assumed	132 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	13 - 806 Storage 1 Closet - Floor	Assumed	16 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	14 - 806 Storage 2 - Floor/Floors	Assumed	132 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	15 - 806 Storage 2 Closet - Floor	Assumed	64 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	16 - Room 810 - Floor	Assumed	1440 Square	No
Drywall Knockdown Texture	MISC	50	PJ76317H- 50A, 50B, 50C	05 - Break Room North Includes RR Vestibule - Walls At RR Vestibule	None Detected	189 Square	No
Drywall Knockdown Texture	MISC	50	PJ76317H- 50A, 50B, 50C	06 - Break Room RR (women's) - Walls	None Detected	27 Square	No
Drywall Knockdown Texture	MISC	50	PJ76317H- 50A, 50B, 50C	08 - Break Room South Includes RR Vestibule - Walls At RR Vestibule	None Detected	189 Square	No
Drywall Knockdown Texture	MISC	50	PJ76317H- 50A, 50B, 50C	09 - Break Room RR (mens) - Walls	None Detected	27 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 13 - 803-810 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Drywall Knockdown Texture	MISC	50	PJ76317H- 50A, 50B, 50C	11 - Room 806 - Walls West Wall	None Detected	270 Square	No
Metal	NON	0	NOT SAMPLED	Various Locations North wall	Non-Suspect		
Wood	NON	0	NOT SAMPLED	Various Locations	Non-Suspect		



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 14 - 602-609 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	01 - Room 609 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	02 - 609 Storage - Baseboard	None Detected	84 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	03 - Room 605 - Baseboard	None Detected	97 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	04 - Lab - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	05 - Lab Storage - Baseboard	None Detected	84 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	09 - Room 602 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	10 - Room 604 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	11 - Room 606 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	12 - Room 608 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	13 - 608 Storage - Baseboard	None Detected	39 Linear	No
Tackboard and Glue, Off White	MISC	4	PJ76317H- 4A, 4B	01 - Room 609 - Walls Upper Portion	None Detected	209 Square	No
Tackboard and Glue, Off White	MISC	4	PJ76317H- 4A, 4B	02 - 609 Storage - Walls Lower portion	None Detected	529 Square	No
Tackboard and Glue, Off White	MISC	4	PJ76317H- 4A, 4B	03 - Room 605 - Walls	None Detected	954 Square	No
Tackboard and Glue, Off White	MISC	4	PJ76317H- 4A, 4B	04 - Lab - Walls	None Detected	1145 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 14 - 602-609 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Tackboard and Glue, Off White	MISC	4	PJ76317H- 4A, 4B	09 - Room 602 - Walls	None Detected	783 Square	No
Tackboard and Glue, Off White	MISC	4	PJ76317H- 4A, 4B	10 - Room 604 - Walls	None Detected	783 Square	No
Tackboard and Glue, Off White	MISC	4	PJ76317H- 4A, 4B	11 - Room 606 - Walls	None Detected	783 Square	No
Tackboard and Glue, Off White	MISC	4	PJ76317H- 4A, 4B	12 - Room 608 - Walls	None Detected	783 Square	No
Tackboard and Glue, Off White	MISC	4	PJ76317H- 4A, 4B	13 - 608 Storage - Walls	None Detected	261 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	02 - 609 Storage - Walls/Ceiling	None Detected	1116 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	05 - Lab Storage - Walls/Ceiling	None Detected	1116 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	08 - Custodial at Boys RR Includes vestibule - Walls/Ceiling	None Detected	410 Square	No
4" Ceramic Tile, Yellow	MISC	9	PJ76317H- 9A	07 - Boy's RR - Walls	None Detected	1044 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	06 - Girls RR - Floor	None Detected	264 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	07 - Boy's RR - Floor	None Detected	840 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	06 - Girls RR - Walls/Ceiling	None Detected	894 Square	No
4" Ceramic Tile, Pink	MISC	13	PJ76317H- 13A	06 - Girls RR - Walls	None Detected	315 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 14 - 602-609 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Concrete	MISC	15	NOT SAMPLED	08 - Custodial at Boys RR Includes vestibule - Floor/Baseboard	Assumed	104 Square	No
12" Vinyl Floor Tile Grey Streaks	MISC	33	PJ76317H- 33A, 33B, 33C	01 - Room 609 - Floor	None Detected	840 Square	No
12" Vinyl Floor Tile Grey Streaks	MISC	33	PJ76317H- 33A, 33B, 33C	02 - 609 Storage - Floor	None Detected	360 Square	No
12" Vinyl Floor Tile Grey Streaks	MISC	33	PJ76317H- 33A, 33B, 33C	03 - Room 605 - Floor	None Detected	700 Square	No
12" Vinyl Floor Tile Grey Streaks	MISC	33	PJ76317H- 33A, 33B, 33C	04 - Lab - Floor	None Detected	840 Square	No
12" Vinyl Floor Tile Grey Streaks	MISC	33	PJ76317H- 33A, 33B, 33C	05 - Lab Storage - Floor	None Detected	360 Square	No
12" Vinyl Floor Tile Grey Streaks	MISC	33	PJ76317H- 33A, 33B, 33C	09 - Room 602 - Floor	None Detected	840 Square	No
12" Vinyl Floor Tile Grey Streaks	MISC	33	PJ76317H- 33A, 33B, 33C	10 - Room 604 - Floor	None Detected	840 Square	No
12" Vinyl Floor Tile Grey Streaks	MISC	33	PJ76317H- 33A, 33B, 33C	11 - Room 606 - Floor	None Detected	840 Square	No
12" Vinyl Floor Tile Grey Streaks	MISC	33	PJ76317H- 33A, 33B, 33C	12 - Room 608 - Floor	None Detected	840 Square	No
12" Vinyl Floor Tile Grey Streaks	MISC	33	PJ76317H- 33A, 33B, 33C	13 - 608 Storage - Floor	None Detected	280 Square	No
Fiberglass Pipe Insulation w/ Canvas Wra	TSI	35	PJ76317H- 35A, 35B, 35C, 35D, 35E	08 - Custodial at Boys RR Includes vestibule - Pipes	None Detected	4 Each	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	07 - Boy's RR - Ceiling	2 %	840 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 14 - 602-609 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	01 - Room 609 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	03 - Room 605 - Ceiling	None Detected	700 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	04 - Lab - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	09 - Room 602 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	10 - Room 604 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	11 - Room 606 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	12 - Room 608 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	13 - 608 Storage - Ceiling	None Detected	280 Square	Yes
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	01 - Room 609 - Floor	Assumed	840 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	03 - Room 605 - Floor	Assumed	700 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	04 - Lab - Floor	Assumed	840 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	05 - Lab Storage - Floor	Assumed	360 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	09 - Room 602 - Floor	Assumed	840 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	10 - Room 604 - Floor	Assumed	840 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 14 - 602-609 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	11 - Room 606 - Floor	Assumed	840 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	12 - Room 608 - Floor	Assumed	840 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	13 - 608 Storage - Floor	Assumed	280 Square	No
Transite Fume Hood	MISC	51	NOT SAMPLED	03 - Room 605 - Misc West wall	Known	1 Each	No
Transite Fume Hood	MISC	51	NOT SAMPLED	04 - Lab - Misc East wall	Known	1 Each	No
Transite Fume Hood	MISC	51	NOT SAMPLED	11 - Room 606 - Misc	Known	1 Each	No
Transite Fume Hood	MISC	51	NOT SAMPLED	12 - Room 608 - Misc	Known	1 Each	No
Transite Fume Hood	MISC	51	NOT SAMPLED	13 - 608 Storage - Misc	Known	0 Each	No
Sink Coating Black	MISC	52	PJ76317H- 52A	04 - Lab - Sink	None Detected	1 Each	No
Sink Coating Black	MISC	52	PJ76317H- 52A	10 - Room 604 - Sink	None Detected	1 Each	No
Metal	NON	0	NOT SAMPLED	Various Locations North Wall	Non-Suspect		
Wood	NON	0	NOT SAMPLED	01 - Room 609 - Walls	Non-Suspect	835 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 15 - 401-410 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	01 - Room 409 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	02 - Room 407 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	03 - Room 405 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	04 - Room 403 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	05 - Room 401 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	06 - Room 402 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	07 - Room 404 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	08 - Room 406 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	09 - Room 408 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	10 - Room 410 - Ceiling	None Detected	840 Square	Yes
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	01 - Room 409 - Floor	5 %	840 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	02 - Room 407 - Floor	5 %	840 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	03 - Room 405 - Floor	5 %	840 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	04 - Room 403 - Floor	5 %	840 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 15 - 401-410 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	05 - Room 401 - Floor	5 %	840 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	06 - Room 402 - Floor	5 %	840 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	07 - Room 404 - Floor	5 %	840 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	08 - Room 406 - Floor	5 %	840 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	09 - Room 408 - Floor	5 %	840 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	10 - Room 410 - Floor	5 %	840 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	01 - Room 409 - Walls	None Detected	1044 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	02 - Room 407 - Walls	None Detected	1044 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	03 - Room 405 - Walls	None Detected	1044 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	04 - Room 403 - Walls	None Detected	1044 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	05 - Room 401 - Walls	None Detected	1044 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	06 - Room 402 - Walls	None Detected	1044 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	07 - Room 404 - Walls	None Detected	1044 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	08 - Room 406 - Walls	None Detected	1044 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 15 - 401-410 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	09 - Room 408 - Walls	None Detected	1044 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	10 - Room 410 - Walls	None Detected	1044 Square	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	01 - Room 409 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	02 - Room 407 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	03 - Room 405 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	04 - Room 403 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	05 - Room 401 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	06 - Room 402 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	07 - Room 404 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	08 - Room 406 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	09 - Room 408 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	10 - Room 410 - Baseboard	None Detected	116 Linear	No
Unit Ventilator	MISC	56	NOT SAMPLED	04 - Room 403 - Misc	Assumed	1 Each	No
Unit Ventilator	MISC	56	NOT SAMPLED	05 - Room 401 - Misc	Assumed	1 Each	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 15 - 401-410 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Unit Ventilator	MISC	56	NOT SAMPLED	06 - Room 402 - Misc	Assumed	1 Each	No
Unit Ventilator	MISC	56	NOT SAMPLED	07 - Room 404 - Misc	Assumed	1 Each	No
Unit Ventilator	MISC	56	NOT SAMPLED	08 - Room 406 - Misc	Assumed	1 Each	No
Unit Ventilator	MISC	56	NOT SAMPLED	09 - Room 408 - Misc	Assumed	1 Each	No
Unit Ventilator	MISC	56	NOT SAMPLED	10 - Room 410 - Misc	Assumed	1 Each	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	01 - Room 409 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	02 - Room 407 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	03 - Room 405 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	04 - Room 403 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	05 - Room 401 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	06 - Room 402 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	07 - Room 404 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	08 - Room 406 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	09 - Room 408 - Walls	None Detected	1044 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 15 - 401-410 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	10 - Room 410 - Walls	None Detected	1044 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 16 - 702 - 706 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	04 - Room 705 - Floor	5 %	1350 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	05 - Room 703 - Floor	5 %	1350 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	06 - Mechaical Room - Walls	None Detected	1056 Square	No
Concrete	MISC	15	NOT SAMPLED	06 - Mechaical Room - Floor/Baseboard	Assumed	523 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	01 - Room 702 - Walls	None Detected	1280 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	02 - Room 704 - Walls	None Detected	1280 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	03 - Room 706 - Walls	None Detected	1280 Square	No
Fiberglass Pipe Insuation w/ Canvas Wra	TSI	35	PJ76317H- 35A, 35B, 35C, 35D, 35E	06 - Mechaical Room - Pipes Includes boiler tank	None Detected	20 Each	No
Hard Elbows	TSI	37	PJ76317H- 37A, 37B, 37C, 37D	06 - Mechaical Room - Pipes Includes one T connection	None Detected	20 Each	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	04 - Room 705 - Walls	2 %	300 Square	No
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	05 - Room 703 - Walls	2 %	300 Square	No
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	04 - Room 705 - Ceiling	None Detected	1350 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	05 - Room 703 - Ceiling	None Detected	1350 Square	Yes



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 16 - 702 - 706 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	01 - Room 702 - Floor	5 %	1015 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	02 - Room 704 - Floor	5 %	1015 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	03 - Room 706 - Floor	5 %	1015 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	04 - Room 705 - Walls	None Detected	1200 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	05 - Room 703 - Walls	None Detected	1200 Square	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	01 - Room 702 - Baseboard	None Detected	128 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	02 - Room 704 - Baseboard	None Detected	128 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	03 - Room 706 - Baseboard	None Detected	128 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	04 - Room 705 - Baseboard	None Detected	150 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	05 - Room 703 - Baseboard	None Detected	150 Linear	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	01 - Room 702 - Walls	None Detected	1280 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	02 - Room 704 - Walls	None Detected	1280 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	03 - Room 706 - Walls	None Detected	1280 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	06 - Mechaical Room - Walls NW Corner	None Detected	211 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 16 - 702 - 706 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	01 - Room 702 - Ceiling	Assumed	1015 Square	No
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	02 - Room 704 - Ceiling	Assumed	1015 Square	No
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	03 - Room 706 - Ceiling	Assumed	1015 Square	No
Drywall, Medium Texture	MISC	59	PJ76317H- 59A, 59B, 59C	01 - Room 702 - Walls	None Detected	128 Square	No
Drywall, Medium Texture	MISC	59	PJ76317H- 59A, 59B, 59C	02 - Room 704 - Walls	None Detected	128 Square	No
Drywall, Medium Texture	MISC	59	PJ76317H- 59A, 59B, 59C	03 - Room 706 - Walls	None Detected	128 Square	No
Concealed Floor Tile, White	MISC	60	PJ76317H- 60A	04 - Room 705 - Floor	5 %	1350 Square	No
Concealed Floor Tile, White	MISC	60	PJ76317H- 60A	05 - Room 703 - Floor	5 %	1350 Square	No
Wood	NON	0	NOT SAMPLED	06 - Mechaical Room - Ceiling	Non-Suspect	435 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 17 - 901-908 Classroom Wlngs

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" ACT Pinhole Fissure classroom wing	MISC	47	PJ76317H- 47A, 47B, 47C, 47D, 47E	10 - Room 901 - Walls	2 %	209 Square	No
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	01 - Room 902 - Ceiling	None Detected	837 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	02 - Room 904 - Ceiling	None Detected	837 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	03 - Room 906 - Ceiling	None Detected	837 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	04 - Room 908 - Ceiling	None Detected	837 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	05 - Room 907 C - Ceiling	None Detected	195 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	06 - Room 907 B - Ceiling	None Detected	195 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	07 - Room 907 - Ceiling	None Detected	390 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	08 - Room 905 - Ceiling	None Detected	837 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	09 - Room 903 - Ceiling	None Detected	837 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	10 - Room 901 - Ceiling	None Detected	837 Square	Yes
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	01 - Room 902 - Floor	Assumed	837 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	10 - Room 901 - Floor	Assumed	837 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	01 - Room 902 - Floor	5 %	837 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 17 - 901-908 Classroom Wlngs

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	02 - Room 904 - Floor	5 %	837 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	03 - Room 906 - Floor	5 %	837 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	04 - Room 908 - Floor	5 %	837 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	05 - Room 907 C - Floor	5 %	195 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	06 - Room 907 B - Floor	5 %	195 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	07 - Room 907 - Floor	5 %	390 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	08 - Room 905 - Floor	5 %	837 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	09 - Room 903 - Floor	5 %	837 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	10 - Room 901 - Floor	5 %	837 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	01 - Room 902 - Ceiling	None Detected	753 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	02 - Room 904 - Ceiling	None Detected	837 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	03 - Room 906 - Ceiling	None Detected	837 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	04 - Room 908 - Ceiling	None Detected	837 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	05 - Room 907 C - Ceiling	None Detected	195 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 17 - 901-908 Classroom Wlngs

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	06 - Room 907 B - Ceiling	None Detected	195 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	07 - Room 907 - Ceiling	None Detected	390 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	08 - Room 905 - Ceiling	None Detected	837 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	09 - Room 903 - Ceiling	None Detected	837 Square	No
Tackboard and Glue, White	MISC	54	PJ76317H- 54A, 54B	10 - Room 901 - Ceiling N Wall	None Detected	84 Square	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	01 - Room 902 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	02 - Room 904 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	03 - Room 906 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	04 - Room 908 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	05 - Room 907 C - Baseboard	None Detected	27 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	06 - Room 907 B - Baseboard	None Detected	27 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	07 - Room 907 - Baseboard	None Detected	54 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	08 - Room 905 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	09 - Room 903 - Baseboard	None Detected	116 Linear	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 17 - 901-908 Classroom Wlngs

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	10 - Room 901 - Baseboard	None Detected	116 Linear	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	02 - Room 904 - Walls	None Detected	783 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	03 - Room 906 - Walls	None Detected	783 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	04 - Room 908 - Walls	None Detected	783 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	05 - Room 907 C - Walls	None Detected	182 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	06 - Room 907 B - Walls	None Detected	182 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	07 - Room 907 - Walls	None Detected	364 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	08 - Room 905 - Walls	None Detected	783 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	09 - Room 903 - Walls	None Detected	783 Square	No
Concealed Floor Tile, White	MISC	60	PJ76317H- 60A	01 - Room 902 - Floor	5 %	837 Square	No
Concealed Floor Tile, White	MISC	60	PJ76317H- 60A	10 - Room 901 - Floor	5 %	837 Square	No
Metal	NON	0	NOT SAMPLED	Various Locations	Non-Suspect		
Wood	NON	0	NOT SAMPLED	Various Locations	Non-Suspect		



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District
Building: 18 - 1301-1306 Classroom Wing

Site: Selma High School

Project #: P76317H
Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	04 - Boy's RR - Floor	None Detected	510 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	04 - Girl's RR - Floor	None Detected	510 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	04 - Boy's RR - Walls	None Detected	980 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	04 - Girl's RR - Walls	None Detected	980 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	01 - Room 1302 - Walls	None Detected	1200 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	02 - Room 1304 - Walls	None Detected	1200 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	03 - Room 1306 - Walls	None Detected	1200 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	05 - Room 1305 - Walls	None Detected	1200 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	06 - Room 1303 - Walls	None Detected	643 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	07 - Room 1301 - Walls	None Detected	643 Square	No
12" ACT Small Pinhole	MISC	27	PJ76317H- 27A, 27B, 27C	01 - Room 1302 - Walls	2 %	240 Square	No
12" ACT Small Pinhole	MISC	27	PJ76317H- 27A, 27B, 27C	02 - Room 1304 - Walls	2 %	240 Square	No
12" ACT Small Pinhole	MISC	27	PJ76317H- 27A, 27B, 27C	06 - Room 1303 - Walls	2 %	129 Square	No
12" ACT Small Pinhole	MISC	27	PJ76317H- 27A, 27B, 27C	07 - Room 1301 - Walls	2 %	129 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District
Building: 18 - 1301-1306 Classroom Wing

Site: Selma High School

Project #: P76317H
Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	01 - Room 1302 - Ceiling	None Detected	896 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	02 - Room 1304 - Ceiling	None Detected	896 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	06 - Room 1303 - Ceiling	None Detected	480 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	07 - Room 1301 - Ceiling	None Detected	480 Square	Yes
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	01 - Room 1302 - Floor	Assumed	896 Square	No
Black Mastic (Classrooms)	MISC	49	NOT SAMPLED	07 - Room 1301 - Floor	Assumed	480 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	01 - Room 1302 - Floor	5 %	896 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	02 - Room 1304 - Floor	5 %	896 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	03 - Room 1306 - Floor	5 %	896 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	05 - Room 1305 - Floor	5 %	896 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	06 - Room 1303 - Floor	5 %	480 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	07 - Room 1301 - Floor	5 %	480 Square	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	01 - Room 1302 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	02 - Room 1304 - Baseboard	None Detected	120 Linear	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District
Building: 18 - 1301-1306 Classroom Wing

Site: Selma High School

Project #: P76317H
Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	03 - Room 1306 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	05 - Room 1305 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	06 - Room 1303 - Baseboard	None Detected	64 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	07 - Room 1301 - Baseboard	None Detected	64 Linear	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	03 - Room 1306 - Walls	None Detected	1200 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	05 - Room 1305 - Walls	None Detected	1200 Square	No
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	03 - Room 1306 - Ceiling	Assumed	896 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	05 - Room 1305 - Ceiling	Assumed	896 Square	Yes
Drywall, Orange Peel Texture (1300 wing	MISC	61	PJ76317H- 61A, 61B, 61C	01 - Room 1302 - Walls North Wall at Plenum	None Detected	120 Square	No
Drywall, Orange Peel Texture (1300 wing	MISC	61	PJ76317H- 61A, 61B, 61C	02 - Room 1304 - Walls North Wall at Plenum	None Detected	120 Square	No
Drywall, Orange Peel Texture (1300 wing	MISC	61	PJ76317H- 61A, 61B, 61C	03 - Room 1306 - Walls North Wall at Plenum	None Detected	120 Square	No
Drywall, Orange Peel Texture (1300 wing	MISC	61	PJ76317H- 61A, 61B, 61C	04 - Boy's RR - Ceiling	None Detected	510 Square	No
Drywall, Orange Peel Texture (1300 wing	MISC	61	PJ76317H- 61A, 61B, 61C	04 - Girl's RR - Ceiling	None Detected	510 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 18 - 1301-1306 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Drywall, Orange Peel Texture (1300 wing	MISC	61	PJ76317H- 61A, 61B, 61C	05 - Room 1305 - Walls South Wall at Plenum	None Detected	120 Square	No
Drywall, Orange Peel Texture (1300 wing	MISC	61	PJ76317H- 61A, 61B, 61C	06 - Room 1303 - Walls South Wall at Plenum	None Detected	64 Square	No
Drywall, Orange Peel Texture (1300 wing	MISC	61	PJ76317H- 61A, 61B, 61C	07 - Room 1301 - Walls South Wall at Plenum	None Detected	64 Square	No
Concealed Tile, Beige	MISC	62	PJ76317H- 62A	01 - Room 1302 - Floor	5 %	896 Square	No
Concealed Tile, Beige	MISC	62	PJ76317H- 62A	07 - Room 1301 - Floor	5 %	480 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District
Building: 19 - 1501-1508 Classroom WIng

Site: Selma High School

Project #: P76317H
Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	09 - Server Room West Side ext - Floor	5 %	64 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	01 - Room 1502 - Walls	None Detected	1080 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	02 - Room 1504 - Walls	None Detected	1080 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	03 - Room 1506 - Walls	None Detected	1080 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	04 - Room 1508 - Walls	None Detected	1080 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	05 - Room 1507 - Walls	None Detected	1080 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	06 - Room 1505 - Walls	None Detected	1080 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	07 - Room 1503 - Walls	None Detected	1080 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	08 - Room 1501 - Walls	None Detected	1080 Square	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	01 - Room 1502 - Walls At Heat Pump Closet	None Detected	108 Square	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	02 - Room 1504 - Walls At Heat Pump Closet	None Detected	108 Square	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	03 - Room 1506 - Walls At Heat Pump Closet	None Detected	108 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District
Building: 19 - 1501-1508 Classroom WIng

Site: Selma High School

Project #: P76317H
Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	04 - Room 1508 - Walls At Heat Pump Closet	None Detected	108 Square	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	05 - Room 1507 - Walls At Heat Pump Closet	None Detected	108 Square	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	06 - Room 1505 - Walls At Heat Pump Closet	None Detected	108 Square	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	07 - Room 1503 - Walls At Heat Pump Closet	None Detected	108 Square	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	08 - Room 1501 - Walls At Heat Pump Closet	None Detected	108 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	01 - Room 1502 - Floor	5 %	900 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	02 - Room 1504 - Floor	5 %	900 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	03 - Room 1506 - Floor	5 %	900 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	04 - Room 1508 - Floor	5 %	900 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	05 - Room 1507 - Floor	5 %	900 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	06 - Room 1505 - Floor	5 %	900 Square	No
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	07 - Room 1503 - Floor	5 %	900 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District
Building: 19 - 1501-1508 Classroom WIng

Site: Selma High School

Project #: P76317H
Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Carpet and Mastic, Multi Color	MISC	53	PJ76317H- 53A, 53B, 53C	08 - Room 1501 - Floor	5 %	900 Square	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	01 - Room 1502 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	02 - Room 1504 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	03 - Room 1506 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	04 - Room 1508 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	05 - Room 1507 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	06 - Room 1505 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	07 - Room 1503 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	08 - Room 1501 - Baseboard	None Detected	120 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	09 - Server Room West Side ext - Baseboard	None Detected	32 Linear	No
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	01 - Room 1502 - Ceiling	Assumed	900 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	02 - Room 1504 - Ceiling	Assumed	900 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	03 - Room 1506 - Ceiling	Assumed	900 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	04 - Room 1508 - Ceiling	Assumed	900 Square	Yes



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 19 - 1501-1508 Classroom WIng

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	05 - Room 1507 - Ceiling	Assumed	900 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	06 - Room 1505 - Ceiling	Assumed	900 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	07 - Room 1503 - Ceiling	Assumed	900 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	08 - Room 1501 - Ceiling	Assumed	900 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	09 - Server Room West Side ext - Ceiling	Assumed	64 Square	Yes
Wood	NON	0	NOT SAMPLED	09 - Server Room West Side ext - Walls	Non-Suspect	320 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 20 - Library

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	07 - Staff RR Men - Floor/Baseboard/Walls	None Detected	470 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	08 - Staff RR Women - Floor/Baseboard/Walls	None Detected	498 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	09 - Custodial At women staff rr - Floor/Baseboard/Walls	None Detected	110 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	10 - Student unisex rr - Floor/Baseboard/Walls	None Detected	115 Square	No
4" Vinyl Baseboard and Mastic, Brown	MISC	39	PJ76317H- 39A, 39B, 39C	03 - Book Storage - Baseboard	2 %	90 Linear	No
4" Vinyl Baseboard and Mastic, Brown	MISC	39	PJ76317H- 39A, 39B, 39C	04 - Book Storage Closet - Baseboard	2 %	70 Linear	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	07 - Staff RR Men - Ceiling	None Detected	102 Square	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	08 - Staff RR Women - Ceiling	None Detected	108 Square	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	09 - Custodial At women staff rr - Ceiling	None Detected	20 Square	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	10 - Student unisex rr - Ceiling	None Detected	25 Square	No
4" Vinyl Baseboard and Mastic, Black	MISC	44	PJ76317H- 44A, 44B, 44C	01 - Library (main) - Baseboard	None Detected	250 Linear	No
4" Vinyl Baseboard and Mastic, Black	MISC	44	PJ76317H- 44A, 44B, 44C	02 - Office 1 - Baseboard	None Detected	56 Linear	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 20 - Library

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
4" Vinyl Baseboard and Mastic, Black	MISC	44	PJ76317H- 44A, 44B, 44C	05 - Classroom - Baseboard	None Detected	122 Linear	No
4" Vinyl Baseboard and Mastic, Black	MISC	44	PJ76317H- 44A, 44B, 44C	06 - Office 2 - Baseboard	None Detected	54 Linear	No
4" Vinyl Baseboard and Mastic, Black	MISC	44	PJ76317H- 44A, 44B, 44C	11 - Office 3 - Baseboard	None Detected	38 Linear	No
4" Vinyl Baseboard and Mastic, Black	MISC	44	PJ76317H- 44A, 44B, 44C	12 - Office 4 - Baseboard	None Detected	63 Linear	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	01 - Library (main) - Ceiling	None Detected	3600 Square	No
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	01 - Library (main) - Ceiling	Assumed	3600 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	02 - Office 1 - Ceiling	Assumed	192 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	03 - Book Storage - Ceiling	Assumed	500 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	04 - Book Storage Closet - Ceiling	Assumed	250 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	05 - Classroom - Ceiling	Assumed	900 Square	Yes
Carpet and Mastic, Grey Squares	MISC	63	PJ76317H- 63A, 63B	01 - Library (main) - Floor	None Detected	3600 Square	No
Carpet and Mastic, Grey Squares	MISC	63	PJ76317H- 63A, 63B	02 - Office 1 - Floor	None Detected	192 Square	No
Carpet and Mastic, Grey Squares	MISC	63	PJ76317H- 63A, 63B	06 - Office 2 - Floor	None Detected	170 Square	No
Carpet and Mastic, Grey Squares	MISC	63	PJ76317H- 63A, 63B	11 - Office 3 - Floor	None Detected	120 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 20 - Library

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Carpet and Mastic, Grey Squares	MISC	63	PJ76317H- 63A, 63B	12 - Office 4 - Floor	None Detected	198 Square	No
Tackboard and Glue, Tan	MISC	64	PJ76317H- 64A, 64B	01 - Library (main) - Walls	None Detected	2750 Square	No
Tackboard and Glue, Tan	MISC	64	PJ76317H- 64A, 64B	02 - Office 1 - Walls	None Detected	672 Square	No
Tackboard and Glue, Tan	MISC	64	PJ76317H- 64A, 64B	03 - Book Storage - Walls	None Detected	900 Square	No
Tackboard and Glue, Tan	MISC	64	PJ76317H- 64A, 64B	04 - Book Storage Closet - Walls	None Detected	700 Square	No
Tackboard and Glue, Tan	MISC	64	PJ76317H- 64A, 64B	05 - Classroom - Walls	None Detected	1220 Square	No
Tackboard and Glue, Tan	MISC	64	PJ76317H- 64A, 64B	06 - Office 2 - Walls	None Detected	432 Square	No
Tackboard and Glue, Tan	MISC	64	PJ76317H- 64A, 64B	09 - Custodial At women staff rr - Walls	None Detected	162 Square	No
Tackboard and Glue, Tan	MISC	64	PJ76317H- 64A, 64B	11 - Office 3 - Walls	None Detected	305 Square	No
Tackboard and Glue, Tan	MISC	64	PJ76317H- 64A, 64B	12 - Office 4 - Walls	None Detected	503 Square	No
12" ACT Pinhle Fissure (library)	MISC	65	PJ76317H- 65A, 65B	01 - Library (main) - Ceiling SE Corner	None Detected	180 Square	No
12" ACT Pinhle Fissure (library)	MISC	65	PJ76317H- 65A, 65B	06 - Office 2 - Ceiling	None Detected	170 Square	No
12" ACT Pinhle Fissure (library)	MISC	65	PJ76317H- 65A, 65B	12 - Office 4 - Ceiling	None Detected	198 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 20 - Library

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" Vinyl Floor Tile, Beige Pebble	MISC	66	PJ76317H- 66A, 66B, 66C	03 - Book Storage - Floor	3 %	500 Square	No
12" Vinyl Floor Tile, Beige Pebble	MISC	66	PJ76317H- 66A, 66B, 66C	04 - Book Storage Closet - Floor	3 %	250 Square	No
24" VFT White Pebble	MISC	67	PJ76317H- 67A	05 - Classroom - Floor	None Detected	900 Square	No
12" ACT Pinhle Uniform	MISC	68	NOT SAMPLED	11 - Office 3 - Ceiling	Assumed	120 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 21 - 501-504 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	04 - Room 502 - Floor	5 %	1350 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	05 - 502 & 504 Closet - Floor	5 %	275 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	06 - Room 504 - Floor	5 %	1050 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	07 - Room 501 - Floor	5 %	1350 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	07 - Room 503 - Floor	5 %	1200 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	08 - 501 & 503 Closet - Floor	5 %	275 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	01 - Girl's RR - Ceiling	None Detected	338 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	03 - Boy's RR - Ceiling	None Detected	338 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	01 - Girl's RR - Floor	None Detected	338 Square	No
1" Grey Ceramic Tile	MISC	10	PJ76317H- 10A, 10B	03 - Boy's RR - Floor	None Detected	338 Square	No
Concrete	MISC	15	NOT SAMPLED	02 - Custodial - Floor	Assumed	104 Square	No
Concrete	MISC	15	NOT SAMPLED	05 - HVAC Closet At 502 and 504 closet - Floor	Assumed	25 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 21 - 501-504 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Concrete	MISC	15	NOT SAMPLED	06 - HVAC Closet At 501 and 503 closet - Floor	Assumed	50 Square	No
FRP and Glue, Off-White	MISC	19	PJ76317H- 19A, 19B, 19C	02 - Custodial - Walls	None Detected	136 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	01 - Girl's RR - Walls	None Detected	702 Square	No
4" Ceramic Tile, White	MISC	23	PJ76317H- 23A, 23B	03 - Boy's RR - Walls	None Detected	702 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	04 - Room 502 - Walls	None Detected	1500 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	05 - 502 & 504 Closet - Walls	None Detected	648 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	06 - Room 504 - Walls	None Detected	1167 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	07 - Room 501 - Walls	None Detected	1500 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	07 - Room 503 - Walls	None Detected	1334 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	08 - 501 & 503 Closet - Walls	None Detected	648 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	02 - Custodial - Walls	None Detected	546 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	05 - 502 & 504 Closet - Walls	None Detected	324 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	05 - HVAC Closet At 502 and 504 closet - Walls	None Detected	0 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 21 - 501-504 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	06 - HVAC Closet At 501 and 503 closet - Walls	None Detected	90 Square	No
Drywall, Orange Peel Texture	MISC	26	PJ76317H- 26A, 26B, 26C, 26D, 26E, 26F, 26G	08 - 501 & 503 Closet - Walls	None Detected	324 Square	No
4" Vinyl Baseboard and Mastic, Brown	MISC	39	PJ76317H- 39A, 39B, 39C	02 - Custodial - Baseboard	2 %	42 Linear	No
Drywall, Painted	MISC	41	PJ76317H- 41A, 41B, 41C, 41D, 41E, 41F, 41G	02 - Custodial - Ceiling	None Detected	104 Square	No
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	04 - Room 502 - Ceiling	None Detected	1350 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	05 - 502 & 504 Closet - Ceiling	None Detected	275 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	06 - Room 504 - Ceiling	None Detected	1050 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	07 - Room 501 - Ceiling	None Detected	1350 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	07 - Room 503 - Ceiling	None Detected	1200 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	08 - 501 & 503 Closet - Ceiling	None Detected	275 Square	Yes
Transite Fume Hood	MISC	51	NOT SAMPLED	04 - Room 502 - Misc	Known	1 Each	No
Transite Fume Hood	MISC	51	NOT SAMPLED	07 - Room 501 - Misc	Known	1 Each	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	04 - Room 502 - Baseboard	None Detected	150 Linear	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 21 - 501-504 Classroom Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	05 - 502 & 504 Closet - Baseboard	None Detected	72 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	06 - Room 504 - Baseboard	None Detected	117 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	07 - Room 501 - Baseboard	None Detected	150 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	07 - Room 503 - Baseboard	None Detected	134 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	08 - 501 & 503 Closet - Baseboard	None Detected	72 Linear	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	04 - Room 502 - Walls	None Detected	1500 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	06 - Room 504 - Walls	None Detected	1167 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	07 - Room 501 - Walls	None Detected	1500 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	07 - Room 503 - Walls	None Detected	1334 Square	No
Fiberglass	NON	0	NOT SAMPLED	Various Locations At 502 and 504 closet	Non-Suspect		
Wood	NON	0	NOT SAMPLED	Various Locations At 502 and 504 closet	Non-Suspect		



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 22 - 304-317 Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	05 - Room 305 - Floor	5 %	480 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	08 - 311 Office - Floor	5 %	150 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	18 - NE Storage - Floor	5 %	240 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	19 - Office 1 - Floor	5 %	120 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	20 - Restroom Includes vestibule - Floor	5 %	60 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	21 - Office 2 - Floor	5 %	500 Square	No
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	22 - Armory closet - Floor	5 %	60 Square	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	06 - 305 Office - Baseboard	None Detected	42 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	08 - 311 Office - Baseboard	None Detected	58 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	19 - Office 1 - Baseboard	None Detected	44 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	20 - Restroom Includes vestibule - Baseboard	None Detected	32 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	21 - Office 2 - Baseboard	None Detected	90 Linear	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 22 - 304-317 Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	24 - 317 office and vestibule - Floor	3 %	66 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	02 - 304 ne closet - Walls	None Detected	368 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	03 - 304 e, center closet - Walls/Ceiling	None Detected	752 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	04 - 304 se closet - Walls	None Detected	600 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	09 - Room 311 - Walls/Ceiling At welding booth	None Detected	589 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	10 - 311 Storage - Walls/Ceiling	None Detected	311 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	11 - 311 Storage 2 Se corner - Walls	None Detected	667 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	07 - Staff RR - Walls/Ceiling	None Detected	185 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	12 - Staff RR 1 - Walls/Ceiling	None Detected	561 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	13 - Staff RR 2 - Walls/Ceiling	None Detected	561 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	18 - NE Storage - Walls/Ceiling	None Detected	1056 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	20 - Restroom Includes vestibule - Walls/Ceiling	None Detected	348 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 22 - 304-317 Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	22 - Armory closet - Walls/Ceiling	None Detected	316 Square	No
Concrete	MISC	15	NOT SAMPLED	01 - Room 304 - Floor	Assumed	2976 Square	No
Concrete	MISC	15	NOT SAMPLED	02 - 304 ne closet - Floor	Assumed	130 Square	No
Concrete	MISC	15	NOT SAMPLED	03 - 304 e, center closet - Floor	Assumed	240 Square	No
Concrete	MISC	15	NOT SAMPLED	04 - 304 se closet - Floor	Assumed	216 Square	No
Concrete	MISC	15	NOT SAMPLED	07 - Staff RR - Floor/Baseboard	Assumed	45 Square	No
Concrete	MISC	15	NOT SAMPLED	09 - Room 311 - Floor	Assumed	2976 Square	No
Concrete	MISC	15	NOT SAMPLED	10 - 311 Storage - Floor/Baseboard	Assumed	87 Square	No
Concrete	MISC	15	NOT SAMPLED	11 - 311 Storage 2 Se corner - Floor	Assumed	240 Square	No
Concrete	MISC	15	NOT SAMPLED	12 - Staff RR 1 - Floor/Baseboard	Assumed	165 Square	No
Concrete	MISC	15	NOT SAMPLED	13 - Staff RR 2 - Floor/Baseboard	Assumed	165 Square	No
Concrete	MISC	15	NOT SAMPLED	14 - Room 319 - Floor	Assumed	2304 Square	No
Concrete	MISC	15	NOT SAMPLED	15 - 319 Storage 1 - Floor	Assumed	120 Square	No
Concrete	MISC	15	NOT SAMPLED	16 - 319 Storage 2 (uniforms) - Floor	Assumed	324 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 22 - 304-317 Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Concrete	MISC	15	NOT SAMPLED	23 - Room 317 - Floor	Assumed	2400 Square	No
4" Vinyl Baseboard and Mastic, Grey	MISC	24	PJ76317H- 24A, 24B, 24C	03 - 304 e, center closet - Baseboard	None Detected	6 Linear	No
Hard Elbows	TSI	37	PJ76317H- 37A, 37B, 37C, 37D	09 - Room 311 - Pipes Nw corner multiple connections	None Detected	10 Each	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	05 - Room 305 - Baseboard	None Detected	88 Linear	No
12" Vinyl Floor Tile, Beige Pebble	MISC	66	PJ76317H- 66A, 66B, 66C	06 - 305 Office - Floor	3 %	108 Square	No
Spray Fireproofing	SURF	69	PJ76317H- 69A, 69B, 69C, 69D, 69E, 69F, 69G	01 - Room 304 - Ceiling	None Detected	595 Square	No
Spray Fireproofing	SURF	69	PJ76317H- 69A, 69B, 69C, 69D, 69E, 69F, 69G	02 - 304 ne closet - Ceiling Above ceiling	None Detected	130 Square	Yes
Spray Fireproofing	SURF	69	PJ76317H- 69A, 69B, 69C, 69D, 69E, 69F, 69G	03 - 304 e, center closet - Ceiling Above ceiling	None Detected	240 Square	Yes
Spray Fireproofing	SURF	69	PJ76317H- 69A, 69B, 69C, 69D, 69E, 69F, 69G	04 - 304 se closet - Ceiling	None Detected	43 Square	No
Spray Fireproofing	SURF	69	PJ76317H- 69A, 69B, 69C, 69D, 69E, 69F, 69G	05 - Room 305 - Ceiling	None Detected	480 Square	Yes
Spray Fireproofing	SURF	69	PJ76317H- 69A, 69B, 69C, 69D, 69E, 69F, 69G	09 - Room 311 - Ceiling	None Detected	595 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 22 - 304-317 Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Spray Fireproofing	SURF	69	PJ76317H- 69A, 69B, 69C, 69D, 69E, 69F, 69G	11 - 311 Storage 2 Se corner - Ceiling	None Detected	48 Square	No
Spray Fireproofing	SURF	69	PJ76317H- 69A, 69B, 69C, 69D, 69E, 69F, 69G	14 - Room 319 - Ceiling	None Detected	2304 Square	Yes
Spray Fireproofing	SURF	69	PJ76317H- 69A, 69B, 69C, 69D, 69E, 69F, 69G	17 - 319 Upstairs Storage - Ceiling	None Detected	600 Square	Yes
Window Glazing	MISC	70	PJ76317H- 70A, 70B, 70C, 70D	01 - Room 304 - Walls North and south windows	None Detected	0 Square	No
Window Glazing	MISC	70	PJ76317H- 70A, 70B, 70C, 70D	04 - 304 se closet - Walls south windows	None Detected	0 Square	No
Window Glazing	MISC	70	PJ76317H- 70A, 70B, 70C, 70D	05 - Room 305 - Walls	None Detected	106 Square	No
Window Glazing	MISC	70	PJ76317H- 70A, 70B, 70C, 70D	09 - Room 311 - Walls North and south windows	None Detected	0 Square	No
Window Glazing	MISC	70	PJ76317H- 70A, 70B, 70C, 70D	11 - 311 Storage 2 Se corner - Walls south windows	None Detected	0 Square	No
Window Glazing	MISC	70	PJ76317H- 70A, 70B, 70C, 70D	16 - 319 Storage 2 (uniforms) - Walls Nw corner	None Detected	31 Square	No
Window Glazing	MISC	70	PJ76317H- 70A, 70B, 70C, 70D	17 - 319 Upstairs Storage - Walls N Side	None Detected	99 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 22 - 304-317 Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Window Glazing	MISC	70	PJ76317H- 70A, 70B, 70C, 70D	21 - Office 2 - Walls S wall	None Detected	99 Square	No
Drywall, Painted (shop)	MISC	71	NOT SAMPLED	02 - 304 ne closet - Ceiling	Assumed	130 Square	No
Drywall Knockdown Texture (shop)	MISC	72	PJ76317H- 72A, 72B, 72C	01 - Room 304 - Walls East wall	None Detected	1100 Square	No
Drywall Knockdown Texture (shop)	MISC	72	PJ76317H- 72A, 72B, 72C	09 - Room 311 - Walls East wall	None Detected	1100 Square	No
Black Mastic (Shop)	MISC	73	NOT SAMPLED	05 - Room 305 - Floor	Assumed		No
Black Mastic (Shop)	MISC	73	NOT SAMPLED	06 - 305 Office - Floor	Assumed	108 Square	No
Black Mastic (Shop)	MISC	73	NOT SAMPLED	08 - 311 Office - Floor	Assumed	150 Square	No
Black Mastic (Shop)	MISC	73	NOT SAMPLED	19 - Office 1 - Floor	Assumed	120 Square	No
Black Mastic (Shop)	MISC	73	NOT SAMPLED	21 - Office 2 - Floor	Assumed	500 Square	No
Black Mastic (Shop)	MISC	73	NOT SAMPLED	22 - Armory closet - Floor	Assumed	60 Square	No
12" ACT Pinhle Fissure (Shop)	MISC	74	PJ76317H- 74A, 74B, 74C	05 - Room 305 - Walls/Ceiling	2 %	586 Square	No
12" ACT Pinhle Fissure (Shop)	MISC	74	PJ76317H- 74A, 74B, 74C	06 - 305 Office - Ceiling	2 %	108 Square	No
12" ACT Pinhle Fissure (Shop)	MISC	74	PJ76317H- 74A, 74B, 74C	08 - 311 Office - Ceiling	2 %	150 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 22 - 304-317 Wing

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" ACT Pinhle Fissure (Shop)	MISC	74	PJ76317H- 74A, 74B, 74C	12 - Staff RR 1 - Ceiling	2 %	121 Square	No
12" ACT Pinhle Fissure (Shop)	MISC	74	PJ76317H- 74A, 74B, 74C	13 - Staff RR 2 - Ceiling	2 %	121 Square	No
12" ACT Pinhle Fissure (Shop)	MISC	74	PJ76317H- 74A, 74B, 74C	19 - Office 1 - Ceiling	2 %	120 Square	No
12" ACT Pinhle Fissure (Shop)	MISC	74	PJ76317H- 74A, 74B, 74C	21 - Office 2 - Walls/Ceiling	2 %	698 Square	No
Brown Baseboard Mastic	MISC	75	NOT SAMPLED	14 - Room 319 - Baseboard E Wall	Assumed	38 Linear	No
Metal	NON	0	NOT SAMPLED	Various Locations	Non-Suspect		
Wood	NON	0	NOT SAMPLED	Various Locations	Non-Suspect		



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 23 - Ag Classrooms 102, 103

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	08 - 102 Classroom - Floor	5 %	850 Square	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	08 - 102 Classroom - Baseboard	None Detected	118 Linear	No
Tackboard and Glue, Off White	MISC	4	PJ76317H- 4A, 4B	08 - 102 Classroom - Walls	None Detected	1062 Square	No
Plaster, Stipple Texture	SURF	8	PJ76317H- 8A, 8B, 8C, 8D, 8E, 8F, 8G	05 - Welding Shop Water Heater Closet - Walls/Ceiling	None Detected	176 Square	No
4" Ceramic Tile, Yellow	MISC	9	PJ76317H- 9A	02 - 102 Staff RR - Walls At shower	None Detected	72 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	02 - 102 Staff RR - Walls/Ceiling	None Detected	441 Square	No
Plaster, Orange Peel Texture	SURF	11	PJ76317H- 11A, 11B, 11C, 11D, 11E, 11F, 11G	06 - Student Restroom At welding shop - Walls/Ceiling	None Detected	500 Square	No
Concrete	MISC	15	NOT SAMPLED	02 - 102 Staff RR - Floor/Baseboard	Assumed	117 Square	No
Concrete	MISC	15	NOT SAMPLED	03 - 102 Welding Shop - Floor	Assumed	2400 Square	No
Concrete	MISC	15	NOT SAMPLED	05 - Welding Shop Water Heater Closet - Floor	Assumed	16 Square	No
Concrete	MISC	15	NOT SAMPLED	06 - Student Restroom At welding shop - Floor	Assumed	100 Square	No
4" Vinyl Baseboard and Mastic, Brown	MISC	39	PJ76317H- 39A, 39B, 39C	01 - 102 Office - Baseboard	2 %	56 Linear	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 23 - Ag Classrooms 102, 103

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	08 - 102 Classroom - Ceiling	None Detected	850 Square	Yes
Drywall Knockdown Texture	MISC	50	PJ76317H- 50A, 50B, 50C	03 - 102 Welding Shop - Walls East Wall Upper Portion	None Detected	1000 Square	No
Spray Fireproofing	SURF	69	PJ76317H- 69A, 69B, 69C, 69D, 69E, 69F, 69G	03 - 102 Welding Shop - Ceiling	None Detected	2400 Square	Yes
Window Glazing	MISC	70	PJ76317H- 70A, 70B, 70C, 70D	03 - 102 Welding Shop - Walls North and South Windows	None Detected	1000 Square	No
Black Mastic (Shop)	MISC	73	NOT SAMPLED	01 - 102 Office - Floor	Assumed	192 Square	No
Black Mastic (Shop)	MISC	73	NOT SAMPLED	08 - 102 Classroom - Floor	Assumed	850 Square	No
12" ACT Pinhole Fissure (Shop)	MISC	74	PJ76317H- 74A, 74B, 74C	01 - 102 Office - Walls/Ceiling	2 %	332 Square	No
9" Vinyl Floor Tile Beige Streaks	MISC	76	PJ76317H- 76A	01 - 102 Office - Floor	5 %	192 Square	No
Cement Board	MISC	77	PJ76317H- 77A, 77B	03 - 102 Welding Shop - Walls At Welding Booth Partitions	None Detected	800 Square	No
Transite Flue Pipe	MISC	900	NOT SAMPLED	05 - Welding Shop Water Heater Closet - Pipes Visible from attic space	Known	20 Linear	No
Metal	NON	0	NOT SAMPLED	03 - 102 Welding Shop - Walls	Non-Suspect	4000 Square	No
Wood	NON	0	NOT SAMPLED	01 - 102 Office - Walls	Non-Suspect	420 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 24 - Classrooms FCOE 1 & 2

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	02 - Classroom FCOE 1 - Floor	3 %	500 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	02 - FCOE 1 Office - Floor	3 %	108 Square	No
FRP and Glue, Off-White	MISC	19	PJ76317H- 19A, 19B, 19C	04 - FCOE 1 RR - Walls	None Detected	420 Square	No
4" Vinyl Baseboard and Mastic, Grey	MISC	24	PJ76317H- 24A, 24B, 24C	01 - Classroom FCOE 2 - Baseboard	None Detected	126 Linear	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	01 - Classroom FCOE 2 - Walls	None Detected	1386 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	02 - Classroom FCOE 1 - Walls	None Detected	1300 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	02 - FCOE 1 Office - Walls	None Detected	378 Square	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	02 - Classroom FCOE 1 - Baseboard	None Detected	130 Linear	No
4" Vinyl Baseboard and Mastic, Dark Blu	MISC	55	PJ76317H- 55A, 55B, 55C	02 - FCOE 1 Office - Baseboard	None Detected	42 Linear	No
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	02 - Classroom FCOE 1 - Ceiling	Assumed	1000 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	02 - FCOE 1 Office - Ceiling	Assumed	108 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	04 - FCOE 1 RR - Ceiling	Assumed	104 Square	Yes
Carpet and Mastic, Brown Multi	MISC	78	PJ76317H- 78A	01 - Classroom FCOE 2 - Floor	None Detected	920 Square	No
VSF and Glue Grey Pebble w/ Backing	MISC	79	PJ76317H- 79A, 79B	02 - Classroom FCOE 1 - Floor	None Detected	500 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 24 - Classrooms FCOE 1 & 2

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
VSF and Glue Grey Pebble w/ Backing	MISC	79	PJ76317H- 79A, 79B	04 - FCOE 1 RR - Floor/Baseboard	None Detected	146 Square	No
Sink Coating White	MISC	80	PJ76317H- 80A	02 - Classroom FCOE 1 - Sink	None Detected	1 Each	No
Fiberglass	NON	0	NOT SAMPLED	01 - Classroom FCOE 2 - Ceiling	Non-Suspect	920 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 25 - Classroom Wing 2200 - 2209

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	01 - Room 2208 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	02 - Room 2206 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	03 - Room 2204 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	04 - Room 2202 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	05 - Room 2200 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	06 - Room 2201 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	07 - Room 2203 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	08 - Room 2205 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	09 - Room 2207 - Baseboard	None Detected	116 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	10 - Room 2209 - Baseboard	None Detected	116 Linear	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	01 - Room 2208 - Floor	3 %	840 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	02 - Room 2206 - Floor	3 %	840 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	03 - Room 2204 - Floor	3 %	840 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	04 - Room 2202 - Floor	3 %	840 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 25 - Classroom Wing 2200 - 2209

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	05 - Room 2200 - Floor	3 %	840 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	06 - Room 2201 - Floor	3 %	840 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	07 - Room 2203 - Floor	3 %	840 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	08 - Room 2205 - Floor	3 %	840 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	09 - Room 2207 - Floor	3 %	840 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	10 - Room 2209 - Floor	3 %	840 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	01 - Room 2208 - Walls	None Detected	1044 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	02 - Room 2206 - Walls	None Detected	1044 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	03 - Room 2204 - Walls	None Detected	1044 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	04 - Room 2202 - Walls	None Detected	1044 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	05 - Room 2200 - Walls	None Detected	1044 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	06 - Room 2201 - Walls	None Detected	1044 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	07 - Room 2203 - Walls	None Detected	1044 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	08 - Room 2205 - Walls	None Detected	1044 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 25 - Classroom Wing 2200 - 2209

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	09 - Room 2207 - Walls	None Detected	1044 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	10 - Room 2209 - Walls	None Detected	1044 Square	No
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	01 - Room 2208 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	02 - Room 2206 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	03 - Room 2204 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	04 - Room 2202 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	05 - Room 2200 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	06 - Room 2201 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	07 - Room 2203 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	08 - Room 2205 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	09 - Room 2207 - Ceiling	None Detected	840 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	10 - Room 2209 - Ceiling	None Detected	840 Square	Yes
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	01 - Room 2208 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	02 - Room 2206 - Walls	None Detected	1044 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 25 - Classroom Wing 2200 - 2209

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	03 - Room 2204 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	04 - Room 2202 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	05 - Room 2200 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	06 - Room 2201 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	07 - Room 2203 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	08 - Room 2205 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	09 - Room 2207 - Walls	None Detected	1044 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	10 - Room 2209 - Walls	None Detected	1044 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District
Building: 26 - Classroom Wing 2301-2310

Site: Selma High School

Project #: P76317H
Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
12" Vinyl Floor Tile, Grey Oatmeal	MISC	1	PJ76317H- 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H	02 - Room 2302 Office - Floor	5 %	100 Square	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	01 - Room 2302 - Baseboard	None Detected	140 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	02 - Room 2302 Office - Baseboard	None Detected	12 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	03 - Room 2306 - Baseboard	None Detected	140 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	03 - Room 2310 - Baseboard	None Detected	112 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	04 - Room 2309 - Baseboard	None Detected	112 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	05 - Room 2307 - Baseboard	None Detected	112 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	06 - Room 2305 - Baseboard	None Detected	112 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	07 - Room 2303 - Baseboard	None Detected	112 Linear	No
4" Vinyl Baseboard and Mastic, Blue	MISC	2	PJ76317H- 2A, 2B	08 - Room 2301 - Baseboard	None Detected	112 Linear	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	03 - Room 2306 - Floor	3 %	1125 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	03 - Room 2310 - Floor	3 %	900 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	04 - Room 2309 - Floor	3 %	900 Square	No
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	05 - Room 2307 - Floor	3 %	900 Square	No



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District
Building: 26 - Classroom Wing 2301-2310

Site: Selma High School

Project #: P76317H
Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
Carpet and Mastic, Grey Multi Color	MISC	3	PJ76317H- 3A, 3B, 3C, 3D	06 - Room 2305 - Floor	3 %	900 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	01 - Room 2302 - Walls	None Detected	1260 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	02 - Room 2302 Office - Walls	None Detected	112 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	03 - Room 2306 - Walls	None Detected	1260 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	03 - Room 2310 - Walls	None Detected	1008 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	04 - Room 2309 - Walls	None Detected	1008 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	05 - Room 2307 - Walls	None Detected	1008 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	06 - Room 2305 - Walls	None Detected	1008 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	07 - Room 2303 - Walls	None Detected	1008 Square	No
Tackboard and Glue, Grey	MISC	25	PJ76317H- 25A, 25B, 25C	08 - Room 2301 - Walls	None Detected	1008 Square	No
Carpet and Mastic, Blue Multi	MISC	34	PJ76317H- 34A	01 - Room 2302 - Floor	None Detected	1125 Square	No
Carpet and Mastic, Blue Multi	MISC	34	PJ76317H- 34A	07 - Room 2303 - Floor	None Detected	900 Square	No
Carpet and Mastic, Blue Multi	MISC	34	PJ76317H- 34A	08 - Room 2301 - Floor	None Detected	900 Square	No
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	03 - Room 2310 - Ceiling	None Detected	900 Square	Yes



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 26 - Classroom Wing 2301-2310

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	04 - Room 2309 - Ceiling	None Detected	900 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	05 - Room 2307 - Ceiling	None Detected	900 Square	Yes
2'x4' FCP Acoustic Texture	MISC	48	PJ76317H- 48A, 48B, 48C	06 - Room 2305 - Ceiling	None Detected	900 Square	Yes
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	01 - Room 2302 - Walls	None Detected	1260 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	02 - Room 2302 Office - Walls	None Detected	112 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	03 - Room 2306 - Walls	None Detected	1260 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	03 - Room 2310 - Walls	None Detected	1008 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	04 - Room 2309 - Walls	None Detected	1008 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	05 - Room 2307 - Walls	None Detected	1008 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	06 - Room 2305 - Walls	None Detected	1008 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	07 - Room 2303 - Walls	None Detected	1008 Square	No
Drywall, Unfinished	MISC	57	PJ76317H- 57A, 57B	08 - Room 2301 - Walls	None Detected	1008 Square	No
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	01 - Room 2302 - Ceiling	Assumed	1125 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	02 - Room 2302 Office - Ceiling	Assumed	100 Square	Yes



Forensic Analytical Consulting Services

Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

Project #: P76317H

Building: 26 - Classroom Wing 2301-2310

Inspection Date: 8/11/2023

Material	Class	HMR	Sample Number(s)	Location	% Asbestos	Footage	Friable
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	03 - Room 2306 - Ceiling	Assumed	1125 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	07 - Room 2303 - Ceiling	Assumed	900 Square	Yes
2'x4' FCP Pinhole Pissure	MISC	58	NOT SAMPLED	08 - Room 2301 - Ceiling	Assumed	900 Square	Yes



Homogeneous Material Records

Forensic Analytical Consulting Services, Inc.

Client: Selma Unified School District

Site: Selma High School

FACS Project Number: P76317H

Date of Inspection: 8/11/2023

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Forensic Analytical Consulting Services, Inc.

Special Note

SPECIAL NOTE NO. 1 - DRYWALL/SHEETROCK

Drywall and its components continue to present problems both for our clients and for us. The inconsistency of sample results indicates that even the EPA/AHERA method for sampling drywall is inadequate. Although three to fifteen or more drywall samples may have been collected at your site(s), the results may not be representative of what is present. Asbestos sometimes is found in the drywall itself, in its tape and/or joint compound or in the final texture coat applied to finish the appearance. It can be found in any combination in these materials. It can also be found in patching materials used to repair damaged drywall. Paint added to otherwise non-homogeneous materials can also produce inappropriate assumptions that all materials are the same.

To account for the variability in drywall construction we strongly advise that any substantial renovation project involving drywall be preceded by a comprehensive evaluation of the materials designated for handling.

SPECIAL NOTE NO. 2 - RENOVATIONS/DEMOLITIONS

Please be aware that many possible asbestos-containing materials were specifically exempted from inspection and identification by the AHERA sampling protocol. These exempted materials included roofing materials, most exterior plasters, exterior window putty, exterior transite panels and shingles, some exterior thermal system insulation and a few other materials. AHERA also exempted heat resistant counter tops and transite blackboards and a few other materials found inside of buildings.

While these materials are exempted by AHERA, they are not exempted by Cal/OSHA or EPA's regulation in its "National Emission Standards for Hazardous Air Pollutants" (NESHAP). Therefore, any renovation activity involving these materials must be preceded by a sampling project to identify asbestos-containing materials which may be regulated by these agencies or the local Air Pollution Control District. You cannot rely on your AHERA reports to identify all of these additional materials.

SPECIAL NOTE NO. 3 - NEW MATERIALS AND BUILDINGS

Materials installed since the previous inspection must be certified, in writing, as non-asbestos containing materials, sampled to test for asbestos content, or assumed to contain asbestos. This certification must be from the product manufacturer or the construction engineer on the project during which the new materials were installed. This certification must be placed in your management plan.

Buildings installed (portables) or constructed since October 12, 1988 must be certified to be asbestos-containing building material (ACBMs) free by the manufacturer (portables), architect or construction engineer, or they must be inspected for ACBMs. This certification must be placed in the management plan for the site at which the new building was installed or constructed.

New sites, built after October 12, 1988, require a Management Plan. If ACBM free certification letters are obtainable for all buildings at the new site, no inspection is required, although a Management Plan must still be written.

SPECIAL NOTE NO. 4 - Materials Containing Trace Amounts of Asbestos

Materials containing trace amounts of asbestos are not covered by the AHERA regulations as the EPA does not consider them to be asbestos-containing materials. However, Cal/OSHA does consider materials containing trace amounts of asbestos (down to 0.1%) to be asbestos-containing, and any level of asbestos in a material must be considered a potential exposure hazard.

Materials listed as containing trace amounts of asbestos require special handling procedures - per Cal/OSHA and training for the employees working with these materials. Waste materials containing less than 1% asbestos must be "point counted" or handled as a hazardous waste.

Date Printed: 10/4/2023

Six Month Surveillance Summary

District: Selma Unified School District

Date:

School: Selma High School

Inspector:

Building	HMR Number	Asbestos Material	Location	Condition Code/Comments
01 - Admin	1	12" Vinyl Floor Tile, Grey Oatmeal	01 - Reception, 04 - Hallway, 10 - Custodial Closet, 16 - Open Office	
01 - Admin	3	Carpet and Mastic, Grey Multi Color	01 - Reception, 02 - Principal's Office, 05 - Admin Assistant Office, 06 - ASB Clerk Office, 07 - Registrar Office, 09 - Attendance Office, 12 - TOSA Office, 13 - Deputy Principal Office 1, 14 - Deputy Principal Office 2, 15 - Assistant Principal, 16 - Open Office, 17 - South Vestibule, 18 - NE Office, 19 - SE Office, 21 - SW Office, 23 - NW Office	
01 - Admin	5	12" ACT Pinhle Fissure (Admin)	01 - Reception, 02 - Principal's Office, 03 - Principal's Restroom, 04 - Hallway, 05 - Admin Assistant Office, 06 - ASB Clerk Office, 07 - Registrar Office, 08 - Men's Restroom, 09 - Attendance Office, 11 - Women's Restroom, 12 - TOSA Office, 13 - Deputy Principal Office 1, 14 - Deputy Principal Office 2, 15 - Assistant Principal, 16 - Open Office, 17 - South Vestibule, 18 - NE Office, 19 - SE Office, 20 - South Vestibule Restroom 1, 21 - SW Office, 22 - South Vestibule Restroom 2, 23 - NW Office	
01 - Admin	6	Black Mastic (Admin)	02 - Principal's Office, 05 - Admin Assistant Office, 06 - ASB Clerk Office, 07 - Registrar Office, 09 - Attendance Office, 12 - TOSA Office, 13 - Deputy Principal Office 1, 14 - Deputy Principal Office 2, 15 - Assistant Principal, 17 - South Vestibule, 18 - NE Office, 19 - SE Office, 21 - SW Office, 23 - NW Office	
01 - Admin	12	Pipe Insulation	10 - Custodial Closet	
01 - Admin	14	9" Vinyl Floor Tile, Grey w/ Yellow	24 - Safe	
01 - Admin	15	Concrete	24 - Safe	
02 - Cafeteria	1	12" Vinyl Floor Tile, Grey Oatmeal	03 - Break Room, 04 - Restroom Vestibule, 07 - Cold Storage Hallway, 08 - Dry Storage, 09 - Kitchen N Hallway, 10 - Staff Locker Room, 11 - Office	

Condition Codes

General Condition: (1) Good (2) Damaged (3) Significantly Damaged (Damaged 25% or more)

Change in Condition: (4) No (5) Yes (If yes, explain under comments)

Abated: (6) Repaired (7) Removed (8) Encapsulated (9) Enclosed (10) Isolated & Restricted

Misc: (11) Inaccessible, No surveillance data (12) Other (Explain under comments)

Six Month Surveillance Summary

District: Selma Unified School District

Date:

School: Selma High School

Inspector:

Building	HMR Number	Asbestos Material	Location	Condition Code/Comments
02 - Cafeteria	16	12" Vinyl Floor Tile, Grey Oatmeal (Caf	01 - Cafeteria Space	
02 - Cafeteria	17	12" ACT Pinhle Fissure (Cafeteria)	01 - Cafeteria Space, 03 - Break Room, 04 - Restroom Vestibule, 05 - Men's Restroom, 06 - Women's Restroom, 11 - Office	
02 - Cafeteria	21	Transite Ceiling Panels	02 - Kitchen	
02 - Cafeteria	22	Black Mastic (Cafeteria)	01 - Cafeteria Space, 03 - Break Room, 04 - Restroom Vestibule, 07 - Cold Storage Hallway, 08 - Dry Storage, 09 - Kitchen N Hallway, 10 - Staff Locker Room, 11 - Office	
03 - Dining Hall	15	Concrete	01- Dining Hall Area, 02 - Hallway, 03 - Eastern Storage, 04 - Western Storage, 06 - Custodial	
03 - Dining Hall	27	12" ACT Small Pinhole	02 - Hallway	
03 - Dining Hall	28	6" Ceramic Tile, Grey	05 - Women's RR, 07 - Men's Restroom	
04 - Band	1	12" Vinyl Floor Tile, Grey Oatmeal	01 - Classroom 1903, 04 - Office (1903), 05 - Storage 1 (1903), 06 - Storage 2 (1903), 07- Storage 3 (1903), 08 - Uniform Storage (1903), 14 - Classroom 1904	
04 - Band	15	Concrete	03 - Custodial (1903), 12 - Ext Chiller Room	
04 - Band	30	12" ACT Pinhole Uniform	01 - Classroom 1903, 09 - NW Storage (1903), 10 - N Side, Center Storage(1903), 11 - NE Storage (1903), 13 - Classroom Hallway, 14 - Classroom 1904	
04 - Band	32	Black Mastic (Band)	01 - Classroom 1903, 04 - Office (1903), 05 - Storage 1 (1903), 06 - Storage 2 (1903), 07- Storage 3 (1903), 08 - Uniform Storage (1903), 09 - NW Storage (1903), 10 - N Side, Center Storage(1903), 11 - NE Storage (1903), 13 - Classroom Hallway, 14 - Classroom 1904, 15 - NW Office (1904), 16 - Center Office (1904), 17 - NE Storage (1904)	

Condition Codes

General Condition: (1) Good (2) Damaged (3) Significantly Damaged (Damaged 25% or more)

Change in Condition: (4) No (5) Yes (If yes, explain under comments)

Abated: (6) Repaired (7) Removed (8) Encapsulated (9) Enclosed (10) Isolated & Restricted

Misc: (11) Inaccessible, No surveillance data (12) Other (Explain under comments)

Six Month Surveillance Summary

District: Selma Unified School District

Date:

School: Selma High School

Inspector:

Building	HMR Number	Asbestos Material	Location	Condition Code/Comments
04 - Band	38	12" Vinyl Floor Tile Off-White Oatmeal	13 - Classroom Hallway, 15 - NW Office (1904), 16 - Center Office (1904), 17 - NE Storage (1904)	
04 - Band	39	4" Vinyl Baseboard and Mastic, Brown	16 - Center Office (1904)	
05 - Pool House	15	Concrete	01 - Office 1, 02 - Office 2, 03 - Pool Equipment	
06 - Snack Bar	15	Concrete	01 - Snack Bar	
07 - Boy's Locker Room (1719)	1	12" Vinyl Floor Tile, Grey Oatmeal	08 - Coaches Office, 10 - Coaches Office 2	
07 - Boy's Locker Room (1719)	15	Concrete	01 - Locker Room, 03 - Custodial, 04 - NE Locker Room Alcove, 05 - NW Locker Room Alcove, 06 - Foyer, 07 - Helmet Storage, 12 - Storage, 13 - Exterior Boiler Room	
07 - Boy's Locker Room (1719)	21	Transite Ceiling Panels	01 - Locker Room, 02 - Restroom, 04 - NE Locker Room Alcove, 05 - NW Locker Room Alcove, 06 - Foyer, 07 - Helmet Storage, 08 - Coaches Office, 09 - Coaches RR, 10 - Coaches Office 2, 12 - Storage	
08 - Concessions	15	Concrete	01 - Eastern Laundry Rm	
09 - Gym	15	Concrete	Gym	
09 - Gym	42	12" ACT Pinhole Random	Gym	
10 - Girl's Locker Room (1719)	15	Concrete	01 - Foyer, 02 - Custodial Closet, 06 - Locker Room RR, 08 - Locker Room Main NE, 09 - Varsity Locker Room Center, 10 - Locker Room Main SW, 11 - Equipment 3, 12 - Equipment 1	
11 - Boy's Locker Room (1507)	15	Concrete	01 - Foyer, 02 - Storage 1, 05 - Locker Room Main, 08 - Storage 2, 08 - Storage 3, 09 - Electrical Closet	

Condition Codes

General Condition: (1) Good (2) Damaged (3) Significantly Damaged (Damaged 25% or more)
 Change in Condition: (4) No (5) Yes (If yes, explain under comments)
 Abated: (6) Repaired (7) Removed (8) Encapsulated (9) Enclosed (10) Isolated & Restricted
 Misc: (11) Inaccessible, No surveillance data (12) Other (Explain under comments)

Six Month Surveillance Summary

District: Selma Unified School District

Date:

School: Selma High School

Inspector:

Building	HMR Number	Asbestos Material	Location	Condition Code/Comments
11 - Boy's Locker Room (1507)	21	Transite Ceiling Panels	01 - Foyer, 03 - Restroom, 04 - Shower, 05 - Locker Room Main, 06 - Coaches Office, 07 - Coaches RR, 08 - Storage 2, 08 - Storage 3	
11 - Boy's Locker Room (1507)	38	12" Vinyl Floor Tile Off-White Oatmeal	06 - Coaches Office	
11 - Boy's Locker Room (1507)	45	Black Mastic (Locker Rooms)	06 - Coaches Office	
12 - 1001-1010 Classroom Wing	1	12" Vinyl Floor Tile, Grey Oatmeal	01 - Room 1007, 02 - Room 1005, 03 - Room 1003, 04 - Room 1001 Nurse's Office, 08 - Room 1002, 09 - Room 1004, 10 - Room 1006, 11 - Room 1008, 12 - Room 1010	
12 - 1001-1010 Classroom Wing	15	Concrete	06 - Custodial at Boy's Restroom	
12 - 1001-1010 Classroom Wing	47	12" ACT Pinhole Fissure classroom wing	01 - Room 1007, 02 - Room 1005, 03 - Room 1003, 04 - Room 1001 Nurse's Office, 08 - Room 1002, 09 - Room 1004, 10 - Room 1006, 11 - Room 1008, 12 - Room 1010	
12 - 1001-1010 Classroom Wing	49	Black Mastic (Classrooms)	01 - Room 1007, 02 - Room 1005, 03 - Room 1003, 04 - Room 1001 Nurse's Office, 08 - Room 1002, 09 - Room 1004, 10 - Room 1006, 11 - Room 1008, 12 - Room 1010	
13 - 803-810 Classroom Wing	1	12" Vinyl Floor Tile, Grey Oatmeal	01 - Room 809, 02 - Room 807, 03 - Room 805, 04 - Room 803, 10 - Room 804, 11 - Room 806, 16 - Room 810	
13 - 803-810 Classroom Wing	3	Carpet and Mastic, Grey Multi Color	05 - Break Room North, 08 - Break Room South	
13 - 803-810 Classroom Wing	15	Concrete	07 - Custodial	
13 - 803-810 Classroom Wing	38	12" Vinyl Floor Tile Off-White Oatmeal	12 - 806 Storage 1, 13 - 806 Storage 1 Closet, 14 - 806 Storage 2, 15 - 806 Storage 2 Closet	
13 - 803-810 Classroom Wing	39	4" Vinyl Baseboard and Mastic, Brown	15 - 806 Storage 2 Closet	

Condition Codes

General Condition: (1) Good (2) Damaged (3) Significantly Damaged (Damaged 25% or more)
 Change in Condition: (4) No (5) Yes (If yes, explain under comments)
 Abated: (6) Repaired (7) Removed (8) Encapsulated (9) Enclosed (10) Isolated & Restricted
 Misc: (11) Inaccessible, No surveillance data (12) Other (Explain under comments)

Six Month Surveillance Summary

District: Selma Unified School District

Date:

School: Selma High School

Inspector:

Building	HMR Number	Asbestos Material	Location	Condition Code/Comments
13 - 803-810 Classroom Wing	47	12" ACT Pinhole Fissure classroom wing	01 - Room 809, 02 - Room 807, 03 - Room 805, 04 - Room 803, 05 - Break Room North, 08 - Break Room South, 10 - Room 804, 11 - Room 806, 12 - 806 Storage 1, 13 - 806 Storage 1 Closet, 14 - 806 Storage 2, 16 - Room 810	
13 - 803-810 Classroom Wing	49	Black Mastic (Classrooms)	01 - Room 809, 02 - Room 807, 03 - Room 805, 04 - Room 803, 10 - Room 804, 11 - Room 806, 12 - 806 Storage 1, 13 - 806 Storage 1 Closet, 14 - 806 Storage 2, 15 - 806 Storage 2 Closet, 16 - Room 810	
14 - 602-609 Classroom Wing	15	Concrete	08 - Custodial at Boys RR	
14 - 602-609 Classroom Wing	47	12" ACT Pinhole Fissure classroom wing	07 - Boy's RR	
14 - 602-609 Classroom Wing	49	Black Mastic (Classrooms)	01 - Room 609, 03 - Room 605, 04 - Lab, 05 - Lab Storage, 09 - Room 602, 10 - Room 604, 11 - Room 606, 12 - Room 608, 13 - 608 Storage	
14 - 602-609 Classroom Wing	51	Transite Fume Hood	03 - Room 605, 04 - Lab, 11 - Room 606, 12 - Room 608, 13 - 608 Storage	
15 - 401-410 Classroom Wing	53	Carpet and Mastic, Multi Color	01 - Room 409, 02 - Room 407, 03 - Room 405, 04 - Room 403, 05 - Room 401, 06 - Room 402, 07 - Room 404, 08 - Room 406, 09 - Room 408, 10 - Room 410	
15 - 401-410 Classroom Wing	56	Unit Ventilator	04 - Room 403, 05 - Room 401, 06 - Room 402, 07 - Room 404, 08 - Room 406, 09 - Room 408, 10 - Room 410	
16 - 702 - 706 Classroom Wing	1	12" Vinyl Floor Tile, Grey Oatmeal	04 - Room 705, 05 - Room 703	
16 - 702 - 706 Classroom Wing	15	Concrete	06 - Mechaical Room	
16 - 702 - 706 Classroom Wing	47	12" ACT Pinhole Fissure classroom wing	04 - Room 705, 05 - Room 703	

Condition Codes

General Condition: (1) Good (2) Damaged (3) Significantly Damaged (Damaged 25% or more)
 Change in Condition: (4) No (5) Yes (If yes, explain under comments)
 Abated: (6) Repaired (7) Removed (8) Encapsulated (9) Enclosed (10) Isolated & Restricted
 Misc: (11) Inaccessible, No surveillance data (12) Other (Explain under comments)

Six Month Surveillance Summary

District: Selma Unified School District

Date:

School: Selma High School

Inspector:

Building	HMR Number	Asbestos Material	Location	Condition Code/Comments
16 - 702 - 706 Classroom Wing	53	Carpet and Mastic, Multi Color	01 - Room 702, 02 - Room 704, 03 - Room 706	
16 - 702 - 706 Classroom Wing	58	2'x4' FCP Pinhole Pissure	01 - Room 702, 02 - Room 704, 03 - Room 706	
16 - 702 - 706 Classroom Wing	60	Concealed Floor Tile, White	04 - Room 705, 05 - Room 703	
17 - 901-908 Classroom Wings	47	12" ACT Pinhole Fissure classroom wing	10 - Room 901	
17 - 901-908 Classroom Wings	49	Black Mastic (Classrooms)	01 - Room 902, 10 - Room 901	
17 - 901-908 Classroom Wings	53	Carpet and Mastic, Multi Color	01 - Room 902, 02 - Room 904, 03 - Room 906, 04 - Room 908, 05 - Room 907 C, 06 - Room 907 B, 07 - Room 907, 08 - Room 905, 09 - Room 903, 10 - Room 901	
17 - 901-908 Classroom Wings	60	Concealed Floor Tile, White	01 - Room 902, 10 - Room 901	
18 - 1301-1306 Classroom Wing	27	12" ACT Small Pinhole	01 - Room 1302, 02 - Room 1304, 06 - Room 1303, 07 - Room 1301	
18 - 1301-1306 Classroom Wing	49	Black Mastic (Classrooms)	01 - Room 1302, 07 - Room 1301	
18 - 1301-1306 Classroom Wing	53	Carpet and Mastic, Multi Color	01 - Room 1302, 02 - Room 1304, 03 - Room 1306, 05 - Room 1305, 06 - Room 1303, 07 - Room 1301	
18 - 1301-1306 Classroom Wing	58	2'x4' FCP Pinhole Pissure	03 - Room 1306, 05 - Room 1305	
18 - 1301-1306 Classroom Wing	62	Concealed Tile, Beige	01 - Room 1302, 07 - Room 1301	
19 - 1501-1508 Classroom WIng	1	12" Vinyl Floor Tile, Grey Oatmeal	09 - Server Room	
19 - 1501-1508 Classroom WIng	53	Carpet and Mastic, Multi Color	01 - Room 1502, 02 - Room 1504, 03 - Room 1506, 04 - Room 1508, 05 - Room 1507, 06 - Room 1505, 07 - Room 1503, 08 - Room 1501	

Condition Codes

General Condition: (1) Good (2) Damaged (3) Significantly Damaged (Damaged 25% or more)

Change in Condition: (4) No (5) Yes (If yes, explain under comments)

Abated: (6) Repaired (7) Removed (8) Encapsulated (9) Enclosed (10) Isolated & Restricted

Misc: (11) Inaccessible, No surveillance data (12) Other (Explain under comments)

Six Month Surveillance Summary

District: Selma Unified School District

Date:

School: Selma High School

Inspector:

Building	HMR Number	Asbestos Material	Location	Condition Code/Comments
19 - 1501-1508 Classroom Wing	58	2'x4' FCP Pinhole Pissure	01 - Room 1502, 02 - Room 1504, 03 - Room 1506, 04 - Room 1508, 05 - Room 1507, 06 - Room 1505, 07 - Room 1503, 08 - Room 1501, 09 - Server Room	
20 - Library	39	4" Vinyl Baseboard and Mastic, Brown	03 - Book Storage, 04 - Book Storage Closet	
20 - Library	58	2'x4' FCP Pinhole Pissure	01 - Library (main), 02 - Office 1, 03 - Book Storage, 04 - Book Storage Closet, 05 - Classroom	
20 - Library	66	12" Vinyl Floor Tile, Beige Pebble	03 - Book Storage, 04 - Book Storage Closet	
20 - Library	68	12" ACT Pinhle Uniform	11 - Office 3	
21 - 501-504 Classroom Wing	1	12" Vinyl Floor Tile, Grey Oatmeal	04 - Room 502, 05 - 502 & 504 Closet, 06 - Room 504, 07 - Room 501, 07 - Room 503, 08 - 501 & 503 Closet	
21 - 501-504 Classroom Wing	15	Concrete	02 - Custodial, 05 - HVAC Closet, 06 - HVAC Closet	
21 - 501-504 Classroom Wing	39	4" Vinyl Baseboard and Mastic, Brown	02 - Custodial	
21 - 501-504 Classroom Wing	51	Transite Fume Hood	04 - Room 502, 07 - Room 501	
22 - 304-317 Wing	1	12" Vinyl Floor Tile, Grey Oatmeal	05 - Room 305, 08 - 311 Office, 18 - NE Storage, 19 - Office 1, 20 - Restroom, 21 - Office 2, 22 - Armory closet	
22 - 304-317 Wing	3	Carpet and Mastic, Grey Multi Color	24 - 317 office and vestibule	
22 - 304-317 Wing	15	Concrete	01 - Room 304, 02 - 304 ne closet, 03 - 304 e, center closet, 04 - 304 se closet, 07 - Staff RR, 09 - Room 311, 10 - 311 Storage, 11 - 311 Storage 2, 12 - Staff RR 1, 13 - Staff RR 2, 14 - Room 319, 15 - 319 Storage 1, 16 - 319 Storage 2 (uniforms), 23 - Room 317	
22 - 304-317 Wing	66	12" Vinyl Floor Tile, Beige Pebble	06 - 305 Office	

Condition Codes

General Condition: (1) Good (2) Damaged (3) Significantly Damaged (Damaged 25% or more)

Change in Condition: (4) No (5) Yes (If yes, explain under comments)

Abated: (6) Repaired (7) Removed (8) Encapsulated (9) Enclosed (10) Isolated & Restricted

Misc: (11) Inaccessible, No surveillance data (12) Other (Explain under comments)

Six Month Surveillance Summary

District: Selma Unified School District

Date:

School: Selma High School

Inspector:

Building	HMR Number	Asbestos Material	Location	Condition Code/Comments
22 - 304-317 Wing	71	Drywall, Painted (shop)	02 - 304 ne closet	
22 - 304-317 Wing	73	Black Mastic (Shop)	05 - Room 305, 06 - 305 Office, 08 - 311 Office, 19 - Office 1, 21 - Office 2, 22 - Armory closet	
22 - 304-317 Wing	74	12" ACT Pinhle Fissure (Shop)	05 - Room 305, 06 - 305 Office, 08 - 311 Office, 12 - Staff RR 1, 13 - Staff RR 2, 19 - Office 1, 21 - Office 2	
22 - 304-317 Wing	75	Brown Baseboard Mastic	14 - Room 319	
23 - Ag Classrooms 102, 103	1	12" Vinyl Floor Tile, Grey Oatmeal	08 - 102 Classroom	
23 - Ag Classrooms 102, 103	15	Concrete	02 - 102 Staff RR, 03 - 102 Welding Shop, 05 - Welding Shop Water Heater Closet, 06 - Student Restroom	
23 - Ag Classrooms 102, 103	39	4" Vinyl Baseboard and Mastic, Brown	01 - 102 Office	
23 - Ag Classrooms 102, 103	73	Black Mastic (Shop)	01 - 102 Office, 08 - 102 Classroom	
23 - Ag Classrooms 102, 103	74	12" ACT Pinhle Fissure (Shop)	01 - 102 Office	
23 - Ag Classrooms 102, 103	76	9" Vinyl Floor Tile Beige Streaks	01 - 102 Office	
23 - Ag Classrooms 102, 103	900	Transite Flue Pipe	05 - Welding Shop Water Heater Closet	
24 - Classrooms FCOE 1 & 2	3	Carpet and Mastic, Grey Multi Color	02 - Classroom FCOE 1, 02 - FCOE 1 Office	
24 - Classrooms FCOE 1 & 2	58	2'x4' FCP Pinhole Pissure	02 - Classroom FCOE 1, 02 - FCOE 1 Office, 04 - FCOE 1 RR	
25 - Classroom Wing 2200 - 2209	3	Carpet and Mastic, Grey Multi Color	01 - Room 2208, 02 - Room 2206, 03 - Room 2204, 04 - Room 2202, 05 - Room 2200, 06 - Room 2201, 07 - Room 2203, 08 - Room 2205, 09 - Room 2207, 10 - Room 2209	

Condition Codes

General Condition: (1) Good (2) Damaged (3) Significantly Damaged (Damaged 25% or more)

Change in Condition: (4) No (5) Yes (If yes, explain under comments)

Abated: (6) Repaired (7) Removed (8) Encapsulated (9) Enclosed (10) Isolated & Restricted

Misc: (11) Inaccessible, No surveillance data (12) Other (Explain under comments)

Six Month Surveillance Summary

District: Selma Unified School District

Date:

School: Selma High School

Inspector:

Building	HMR Number	Asbestos Material	Location	Condition Code/Comments
26 - Classroom Wing 2301-2310	1	12" Vinyl Floor Tile, Grey Oatmeal	02 - Room 2302 Office	
26 - Classroom Wing 2301-2310	3	Carpet and Mastic, Grey Multi Color	03 - Room 2306, 03 - Room 2310, 04 - Room 2309, 05 - Room 2307, 06 - Room 2305	
26 - Classroom Wing 2301-2310	58	2'x4' FCP Pinhole Pissure	01 - Room 2302, 02 - Room 2302 Office, 03 - Room 2306, 07 - Room 2303, 08 - Room 2301	

Condition Codes

General Condition: (1) Good (2) Damaged (3) Significantly Damaged (Damaged 25% or more)

Change in Condition: (4) No (5) Yes (If yes, explain under comments)

Abated: (6) Repaired (7) Removed (8) Encapsulated (9) Enclosed (10) Isolated & Restricted

Misc: (11) Inaccessible, No surveillance data (12) Other (Explain under comments)

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

General

Application Number: 02-121911	School Name: Selma High School	School District: Selma Unified School District
DSA File Number: 10-H16	Increment Number:	Date Created: 2024-04-18 11:43:11

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

****NOTE:** Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required	GE (Geotechnical Engineer) – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.
Periodic – Indicates that a periodic special inspection is required	LOR (Laboratory of Record) – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.
Test – Indicates that a test is required	PI (Project Inspector) – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.
	SI (Special Inspection) – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

Application Number: 02-121911	School Name: Selma High School	School District: Selma Unified School District
DSA File Number: 10-H16	Increment Number:	Date Created: 2024-04-18 11:43:11

C1. CAST-IN-PLACE CONCRETE				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	a. Verify use of required design mix.	Continuous	SI	Table 1705A.3 Item 5, 1910A.1.
<input checked="" type="checkbox"/>	b. Identify, sample, and test reinforcing steel.	Test	LOR	1910A.2; ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.)
<input checked="" type="checkbox"/>	c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Test	LOR	Table 1705A.3 Item 6; ACI 318-19 Sections 26.5 & 26.12.
<input checked="" type="checkbox"/>	d. Test concrete (f' _c).	Test	LOR	1905A.1.17; ACI 318-19 Section 26.12.
<input checked="" type="checkbox"/>	e. Batch plant inspection: Periodic	See Notes	SI	Default of 'Continuous' per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to 'Periodic' subject to requirements in Section 1705A.3.3.1, or not required per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.)
<input type="checkbox"/>	f. Welding of reinforcing steel.	Provide special inspection per STEEL, Category S/A4(d) & (e) and/or S/A5(g) & (h) below.		

C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1):				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a. Sample and test prestressing tendons and anchorages.	Test	LOR	1705A.3.4, 1910A.3
<input type="checkbox"/>	b. Inspect placement of prestressing tendons.	Periodic	SI	1705A.3.4, Table 1705A.3 Items 1 & 9.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

Application Number: 02-121911	School Name: Selma High School	School District: Selma Unified School District
DSA File Number: 10-H16	Increment Number:	Date Created: 2024-04-18 11:43:11

	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	c. Verify in-situ concrete strength prior to stressing of post-tensioning tendons.	Periodic	SI	Table 1705A.3 Item 13. Special inspector to verify specified concrete strength test prior to stressing.
<input type="checkbox"/>	d. Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons.	Continuous	SI	1705A.3.4, Table 1705A.3 Item 9; ACI 318-19 Section 26.13

	C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a. Inspect fabrication of precast concrete members.	Continuous	SI	ACI 318-19 Section 26.13, and PCI MNL-128 and -130.
<input type="checkbox"/>	b. Inspect erection of precast concrete members.	Periodic	SI*	Table 1705A.3 Item 10. * May be performed by PI when specifically approved by DSA.
<input type="checkbox"/>	c. For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category D, E or F, inspect such connections and reinforcement in the field for: 1. Installation of the embedded parts 2. Completion of the continuity of reinforcement across joints. 3. Completion of connections in the field.	Continuous	SI	Table 1705A.3; ACI 318-19 Section 26.13.1.3; ACI 550.5
<input type="checkbox"/>	d. Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5.	Periodic	SI	Table 1705A.3; ACI 318-19 Section 26.13.1.3; ACI 550.5

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

Application Number: 02-121911	School Name: Selma High School	School District: Selma Unified School District
DSA File Number: 10-H16	Increment Number:	Date Created: 2024-04-18 11:43:11

C4. SHOTCRETE (IN ADDITION TO SECTION C1):				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a. Inspect shotcrete placement for proper application techniques.	Continuous	SI	1705A.3.9, Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3. See ACI 506.2-13 Section 3.4, ACI 506R-16.
<input type="checkbox"/>	b. Sample and test shotcrete (f'_c).	Test	LOR	1908A.2, 1705A.3.9

C5. POST-INSTALLED ANCHORS:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	a. Inspect installation of post-installed anchors	See Notes	SI*	1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8 (See Appendix (end of this form) for exemptions). ACI 318-19 Section 26.13. * May be performed by the project inspector when specifically approved by DSA.
<input checked="" type="checkbox"/>	b. Test post-installed anchors.	Test	LOR	1910A.5. (See Appendix (end of this form) for exemptions.)

C6. OTHER CONCRETE:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a.			

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

Application Number:

02-121911

School Name:

Selma High School

School District:

Selma Unified School District

DSA File Number:

10-H16

Increment Number:

Date Created:

2024-04-18 11:43:11

S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	a. Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	Periodic	*	Table 1705A.2.1 Item 3a 3c. 2202A.1; AISI S100-20 Section A3.1 & A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.
<input checked="" type="checkbox"/>	b. Test unidentified materials	Test	LOR	2202A.1.
<input checked="" type="checkbox"/>	c. Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.
<input checked="" type="checkbox"/>	d. Verify and document steel fabrication per DSA-approved construction documents.	Periodic	SI	Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).
<input type="checkbox"/>	e. Buckling restrained braces.	Test	LOR	Testing and special inspections in accordance with IR 22-4.

S/A2. HIGH-STRENGTH BOLTS:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents.	Periodic	SI	Table 1705A.2.1 Items 1a & 1b, 2202A.1; AISC 360-16 Section A3.3, J3.1, and N3.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9.
<input type="checkbox"/>	b. Test high-strength bolts, nuts and washers.	Test	LOR	Table 1705A.2.1 Item 1c, 2213A.1; RCSC 2014 Section 7.2; DSA IR 17-8.
<input type="checkbox"/>	c. Bearing-type ("snug tight") connections.	Periodic	SI	Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Section 9.1; DSA IR 17-9.
<input type="checkbox"/>	d. Pretensioned and slip-critical connections.	*	SI	Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. **"Continuous" or "Periodic" depends on the tightening method used.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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S/A3. WELDING:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	Periodic	SI	1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3.
<input checked="" type="checkbox"/>	b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.
<input checked="" type="checkbox"/>	c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.

S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a.1 4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
<input checked="" type="checkbox"/>	b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
<input type="checkbox"/>	c. Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.1; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.
<input type="checkbox"/>	d. Verification of reinforcing steel weldability other than ASTM A706.	Periodic	SI	1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
<input type="checkbox"/>	e. Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a.1 4; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
<input type="checkbox"/>	b. Inspect single-pass fillet welds ≤ 5/16".	Periodic	SI	Table 1705A.2.1 Item 5a.5; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
<input type="checkbox"/>	c. Inspect end-welded studs (ASTM A-108) installation (including bend test).	Periodic	SI	2213A.2; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1; DSA IR 17-3.
<input type="checkbox"/>	d. Inspect floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Item 5a.6; AISC 360-16 (AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3.
<input type="checkbox"/>	e. Inspect welding of structural cold-formed steel.	Periodic	SI*	1705A.2.5; AWS D1.3; DSA IR 17-3. The quality control provisions of AISI S240-20 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA.
<input type="checkbox"/>	f. Inspect welding of stairs and railing systems.	Periodic	SI*	1705A.2.1; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.
<input type="checkbox"/>	g. Verification of reinforcing steel weldability.	Periodic	SI	1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
<input type="checkbox"/>	h. Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A6. NONDESTRUCTIVE TESTING:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a. Ultrasonic	Test	LOR	1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
<input type="checkbox"/>	b. Magnetic Particle	Test	LOR	1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
<input type="checkbox"/>	c.	Test	LOR	

	S/A7. STEEL JOISTS AND TRUSSES:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a. Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist.	Continuous	SI	1705A.2.3, Table 1705A.2.3; AWS D1.1; DSA IR 22-3 for steel joists only. 1705A.2.4; AWS D1.3 for cold-formed steel trusses.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A8. SPRAYED FIRE-RESISTANT MATERIALS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a. Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents.	Periodic	SI	1705A.15, 1705A.15.1, 1705A.15.2, 1705A.15.3, 1705A.15.4, 1705A.15.5, 1705A.15.6.
<input type="checkbox"/>	b. Test density.	Test	LOR	1705A.15.1, 1705A.15.5, ASTM E605
<input type="checkbox"/>	c. Bond strength adhesion/cohesion.	Test	LOR	1705A.15.1, 1705A.15.6, ASTM E736

	S/A9. ANCHOR BOLTS AND ANCHOR RODS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a. Anchor Bolts and Anchor Rods	Test	LOR	Identify, sample and test anchor bolts and anchor rods not meeting exemptions identified in Section 1 of IR 17-11.
<input type="checkbox"/>	b. Threaded rod not used for foundation anchorage.	Test	LOR	Identify, sample and test threaded rods not meeting exemptions identified in Section 1 of IR 17-11.

	S/A10. STORAGE RACK SYSTEMS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a. Materials used, to verify compliance with one or more of the material test reports in accordance with the approved construction documents.	Periodic	SI	Table 1705A.13.7
<input type="checkbox"/>	b. Fabricated storage rack elements.	Periodic	SI	1704A.2.5; Table 1705A.13.7

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	c. Storage rack anchorage installation.	Periodic	SI	ANSI/MH16.1 Section 7.3.2; Table 1705A.13.7
<input type="checkbox"/>	d. Completed storage rack system to indicate compliance with the approved construction documents.	Periodic	SI*	Table 1705A.13.7; * May be preformed by the project inspector when specifically approved by DSA.

	S/A11. Other Steel			
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a.			

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

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Exempt items given in DSA IR A-22 or the 2022 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. **Items marked as exempt shall be identified on the approved construction documents.** The project inspector shall verify all construction complies with the approved construction documents.

	SOILS:
<input type="checkbox"/>	1. Deep foundations acting as a cantilever footing with a design based on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.
<input type="checkbox"/>	2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill with depth not exceeding 12".

	CONCRETE/MASONRY:
<input type="checkbox"/>	1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding" in the Appendix below) given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding" in the Appendix below
<input type="checkbox"/>	2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.
<input type="checkbox"/>	3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1. Refer to construction documents for specific exemptions accordingly for each applicable wall condition shown in Appendix A of IR 21-1.
<input type="checkbox"/>	4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.

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	CONCRETE/MASONRY:
<input type="checkbox"/>	5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.

	WELDING:
<input type="checkbox"/>	1. Solid-clad and open-mesh fences, gates with maximum leaf span of 10', and gates with a maximum rolling section of 10' all having an apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates/fences are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
<input type="checkbox"/>	2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the 'Exception' language in Section 1705A.2.1); fillet welds shall not be ground flush.
<input type="checkbox"/>	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
<input type="checkbox"/>	4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
<input type="checkbox"/>	5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
<input type="checkbox"/>	6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for sections S/A3, S/A4 and/or S/A5 located in the Steel/Aluminum category of listing above).

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	WELDING:
<input type="checkbox"/>	7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) $\leq 4'$ above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.

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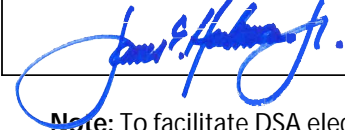
Name of Architect or Engineer in general responsible charge:

James E. Hickman

Name of Structural Engineer (When structural design has been delegated):

Signature of Architect or Structural Engineer:

Date: 4-18-2024



Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121911 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 05/06/2024

DSA 103-22: LIST OF REQUIRED VERIFIED REPORTS, CBC 2022

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1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291

2. Concrete Batch Plant Inspection: Laboratory Verified Report Form DSA 291

3. Post-installed Anchors: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

4. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292