

**ADDENDUM TO
REQUEST FOR PROPOSALS
ALTADENA MAIN LIBRARY
RENOVATION PROJECT
Altadena Library District**

ADDENDUM NO. 6

DATE: October 31, 2025

This addendum is issued to modify the previously issued RFP documents and/or given for informational purposes, and is hereby made a part of the RFP documents. **The proposer shall acknowledge receipt of any and all addenda, listing the Addenda by number(s) and date(s) in their Letter of Interest.**

General Clarifications and Information:

1. Refer to ABA Bid Addendum No. 006, attached, for additional clarifications and responses to Bid RFIs.

Changes and Clarifications to RFP:

1. **Proposal Form:** Form is revised to include a General Contingency Allowance and Alternate #4.

Questions and Answers:

1. **Question:** Based on previous responses, this is a best value project. Regarding price alone, will the alternates be included in the basis of award, or will the award be determined solely on the base bid?

Answer: The base bid price and each alternate price will be scored individually and factored into the overall score for each proposer.

2. **Question:** Letter C of Section 13 Opening & Award of Contract states that the District may utilize evaluation criteria to determine which Proposer will be awarded the Contract and then lists the (6) criteria. However, this section does not list the weight of each criterion and/or the maximum points that can be scored per criterion. Could you please advise as

to what the weight/maximum points of each criterion will be?

Answer: We anticipate the scoring criteria to be weighted as follows:

CRITERIA	TOTAL POINTS POSSIBLE
Cost	
Base bid	200
Alternate #1	5
Alternate #2	5
Alternate #3	5
Alternate #4	5
Firm Information	15
Experience/Past Projects	25
Project Approach	25
Comments on Contract	5
Overall suitability for the project	10
TOTAL POINTS	300

Attachments:

Proposal Form

ABA Bid Addendum No. 006 and attachments.

PROPOSAL

The undersigned Proposer hereby proposes to furnish and deliver all necessary labor, tools, equipment, and other means of construction to perform the work required for the completion of the project entitled "**ALTADENA MAIN LIBRARY RENOVATION PROJECT**" in accordance with the intent of all plans, specifications, and addenda issued by the District in the amount of:

Base Bid:

(Written) _____ dollars

(Number) \$ _____ .00

General Contingency Allowance:

(Written) Four hundred fifty-seven thousand dollars

(Number) \$ _____ 457,000.00

Total Base Bid (Base Bid + General Contingency Allowance):

(Written) _____ dollars

(Number) \$ _____ .00

Additive/Deductive Alternates:

Descriptions of alternates are primarily scope definitions and do not necessarily detail the full range of materials and processes needed to complete the construction.

Alternate #1: North Exterior Sliding Doors and Storefront.

(Written) _____ dollars

(Number) \$ _____ .00

Alternate #2: Meeting Room Addition.

(Written) _____ dollars

(Number) \$ _____ .00

Alternate #3: Children's Area Ceiling.

(Written) _____ dollars

(Number) \$ _____ .00

Alternate #4: Deductive Alternate at North Patio.

(Written) _____ dollars

(Number) \$ _____ .00

Prior to the opening of the Proposal, the Proposer has read the accompanying instructions to Proposers, has carefully examined the location(s) of the proposed work, and has examined all Contract Documents, drawings and addenda issued by the District and will contract with the District to construct the project, complete and in satisfactory condition.

The Proposer further acknowledges that it has adjusted its Proposal price to include all possible items which may influence the proposal during the time period from notice of intent to award through and until formal award by the District. Requests for Proposal price change due to the delay shall not be agreed to by the District.

Company Name: _____

Proposer's Name (Printed): _____

Proposer's Title: _____

Proposer's Signature: _____

Date: _____

Address: _____

Phone Number: _____

Contractor's License Number: _____

Classification: _____

Expiration Date: _____



A N D E R S O N B R U L É A R C H I T E C T S

BID ADDENDUM NO. 006

PROJECT: **Altadena Main Library**

600 E. Mariposa Street
Altadena, CA 91001

DATE ISSUED: 10/31/25

OWNER: **Altadena Library District**

ARCHITECT'S PROJECT NO.: 21-1101-0

FROM: **Anderson Brulé Architects**

325 S First Street, 4th Floor
San José, CA 95113

TO: **Jennifer Pearson**

8640 National Boulevard
Culver City, CA 90232

TO ALL BIDDERS SUBMITTING PROPOSALS FOR THE CAPTIONED PROJECT: THIS ADDENDUM IS HEREBY MADE PART OF THE ORIGINAL CONTRACT DOCUMENTS TO THE SAME EXTENT AS THOUGH IT WERE ORIGINALLY INCLUDED THEREIN AND TAKES PRECEDENCE OVER THE ORIGINAL DOCUMENTS. ACKNOWLEDGE RECEIPT OF THE ADDENDUM ON BID FORM. Revised drawings are clouded, marked with delta 8 and dated October 28, 2025.

THE FOLLOWING DOCUMENTS AND DRAWINGS ARE ATTACHED:

I. CHANGES AND CLARIFICATIONS TO ACCESS CONTROL SCOPE

- a. Contractor is responsible for the following scope:
- Cabling from auto door operator to panic bar and door actuators
 - Cabling from power supply to electrified hardware
 - Cabling from electrified transfer hinge to lock body

II. SEQUENCE OF OPERATIONS

- a. See Appendix A

III. DEMOLITION OF EXISTING SHELVING SCOPE

- a. See Appendix B

IV. GEOTECHNICAL LETTER

- a. See Appendix C

V. PERCOLATION TESTING REPORT

- a. See Appendix D

VI. SOUTHERN CALIFORNIA EDISON (SCE) SUBMITTAL

- a. See Appendix E

VII. CHANGES TO DRAWINGS**a. G000 – COVER SHEET**

- i. Sheet Index:
 - 1. Revised CD-1.0. C-2.0, C-3.0, C-3.1,
 - 2. Added C-1.1, C-3.3. C-3.4, C4.1, C-5.3, C-5.4, C-6.0, C-6.1
 - 3. Removed CD-1.1. C-2.1

b. CIVIL SHEETS DATED 10/28/2025

- i. C -1.0 GENERAL NOTES, LEGENDS
- ii. C -1.1 TOPOGRAPHIC SURVEY
- iii. CD -1.0 SITE DEMOLITION PLAN
- iv. C -2.0 SITE CONTROL PLAN
- v. C -3.0 OVERALL SITE GRADING PLAN
- vi. C -3.1 ENLARGED SITE GRADING PLAN
- vii. C -3.2 ENLARGED SITE GRADING PLAN
- viii. C -3.3 GRADING SECTIONS
- ix. C -3.4 OVEREXCATION PLAN
- x. C -4.0 SITE UTILITY PLAN
- xi. C -4.1 LID PLAN
- xii. C -5.0 MISCELLANEOUS DETAILS
- xiii. C -5.1 MISCELLANEOUS DETAILS
- xiv. C -5.2 MISCELLANEOUS DETAILS
- xv. C -5.3 MISCELLANEOUS DETAILS
- xvi. C -6.0 EROSION CONTROL PLAN
- xvii. C -6.1 EROSION CONTROL DETAILS

c. L101 – SITE CONSTRUCTION PLAN

- i. Added Alternate #4

d. A200 – FLOOR PLAN - LOWER LEVEL

- i. Updated Keynote 10.76

e. A201 – FLOOR PLAN – MAIN LEVEL

- i. Removed detail 8/A700 from 3/A201

f. A220 – RCP - LOWER LEVEL

- i. Legend: Revised Metal Ceilings

g. A221 – RCP - MAIN LEVEL LOWER CEILING

- i. Legend: Revised Metal Ceilings
- ii. Plan #2: Revised Ceiling tag

h. A222 – RCP - MAIN LEVEL UPPER CEILING

- i. Legend: Revised Metal Ceilings

i. A230 – FINISH PLAN - LOWER LEVEL

- i. Revised CP7 tag to CP6

j. A231– FINISH PLAN - MAIN LEVEL

- i. Plan #1
 - 1. Revised RF1 tag to RF2
 - 2. Revised CP7 tag to CP6
 - 3. Added CP3 tag to living room
 - 4. Added detail 3 for stair material callout
- k. A240 – FINISH LEGEND**
 - i. Added GL4
 - ii. Changed Custom Glass Panel tag from GL2 to CG1
 - iii. Updated TW1. CP1, CP2, CP3, CP6
 - iv. Revised CP7
 - v. Removed Blackout Shade Fabric
- l. A290 – ENLARGED PLANS & ELEVATIONS**
 - i. Keynote 06.32 updated
 - ii. Elevation #6: Changed window tags from GL2 to CG1
- m. A292– ENLARGED PLANS & ELEVATIONS**
 - i. Keynote 06.32 updated
- n. A294 – ENLARGED PLANS & ELEVATIONS**
 - i. Elevation #1: Leader note revised with added finish tag GL4
 - ii. Elevation #2: Leader note revised with added finish tag GL4
 - iii. Elevation #4: Leader note revised with added finish tag GL4
- o. A600 – DOOR TYPES, FRAME TYPES, AND SCHEDULES**
 - i. Revised Door 303 material and frame type.
- p. A610 – EXTERIOR WINDOW TYPES**
 - i. Glazing Legend: Changed GL3 to nominal laminated glazing
- q. A611 – EXTERIOR WINDOW TYPES**
 - i. Glazing Legend: Changed GL3 to nominal laminated glazing
 - ii. Added SRE 11 Add Alt #1: Sliding doors with 6" storefront
- r. A700 – EXTERIOR DETAILS**
 - i. Added detail 17
 - ii. Added detail 18
- s. A810 – INTERIOR DETAILS**
 - i. Detail #9: Revised leader note
 - ii. Detail #13: Revised Drawing
 - iii. Detail #15: Revised leader notes
- t. E202 – LOWER LEVEL LIGHTING PLAN**
 - i. Added fixture type "F"
- u. E203 – MAIN LEVEL LIGHTING PLAN**
 - i. Added fixture type "F"

VIII. CHANGES TO SPECIFICATIONS

- a. Section 00 01 10 Table of Contents**
 - 1. Revised and updated Table of Contents
- b. Section 01 21 00 – Allowances**
 - 1. Added section 01 21 00 – Allowances.
- c. Section 01 23 00 - Alternates**
 - 1. Added Drawing Sheet References.
- d. Section 01 26 00 – Contract Modification Procedures**
 - 1. Added Change Order Proposal Form.
- e. Section 01 31 00 – Project Management and Coordination**
 - 1. Removed Reference to Section 01 11 50 - Electronic Drawings.
- f. Section 01 33 00 – Submittal Procedures**
 - 1. Revised and added Submittal Review duration content.
- g. Section 01 35 35 – Construction Indoor Air Quality**
 - 1. Revised construction photography requirement.
- h. Section 01 50 00 – Temporary Facilities and Controls**
 - 1. Revised construction site security fencing.
- i. Section 01 91 13 – General Commissioning Requirements**
 - 1. Replaced Section 01 23 00 in entirety.
- j. Section 03 11 00 – Concrete Forming**
 - 1. Removed reference to façade maintenance/ fall protection section (not in scope).
- k. Section 03 30 00 – Cast-in-Place Concrete**
 - 1. Revised concrete finish description, adding Architectural Concrete reference.
- l. Section 04 01 20 – Masonry Restoration and Cleaning**
 - 1. Revised Required Area of Masonry Restoration Work.
- m. Section 04 22 00 – Concrete Unit Masonry**
 - 1. Revised Mock-up requirements, CMU Types and mortar joint tooling requirements.
 - 2. Added Block and Mortar Water Repellent Admixture & Grout color pigment.
- n. Section 05 51 00 – Architectural Metal Stairs**
 - 1. Revised System description, removing reference to glazed guards, stainless steel cladding.
- o. Section 05 52 00 – Metal Guards and Railings**
 - 1. Revised Metal Mesh Basis of Design.
- p. Section 06 10 00 – Rough Carpentry**

1. Added Roof and Parapet sheathing.

q. Section 06 16 00 – Sheathing

1. Removed Section in entirety.

r. Section 06 20 00 – Finish Carpentry

1. Removed interior finish carpentry, standing & running trim, as indicated.

s. Section 06 40 00 – Architectural Woodwork

1. Added Samples, Hardwood veneer & lumber, Shop finishing, and pegboard.
2. Removed paneling and bench.

t. Section 06 83 16 – Resin Composite Panel

1. Added New Section 06 83 16 Resin Composite Panel.

u. Section 07 01 50.19 – Preparation for Reroofing

1. Revised content throughout, as indicated.

v. Section 07 81 00 – Applied Fireproofing

1. Removed Section 07 81 00 in its entirety.

w. Section 07 81 22 – Thin Film Fireproofing

1. Removed Section 07 81 22 in its entirety

x. Section 08 14 00 – Wood Doors

1. Revised Wood WD1 veneer and transparent finish requirements.
2. Removed Rail and Stile Doors and Frames.

y. Section 08 32 13 – Glazed Sliding Stacking Doors (Metal)

1. Revised Basis of Design product and finish requirements.

z. Section 08 34 00 – Special Function Doors

1. Removed section 08 34 00 in its entirety.

aa. Section 08 63 00 – Metal Framed Skylights

1. Added Basis of Design Wasco Velux Commercial half-round barrel vault double dome skylight.
2. Revised Articles 2.1 and 2.4 as indicated.

bb. Section 08 81 00 – Glass and Glazing

1. Added Drawing Sheet references.
2. Deleted design criteria and unreferenced products as indicated.
3. Revised Glazing Schedule.

cc. Section 09 01 21 – Repair and Restoration of Plaster

1. Added New Section 09 01 20.

dd. Section 09 22 00 – Acoustical Plaster

1. Removed Section 09 22 00 in its entirety.

ee. Section 09 30 00 – Tiling

1. Revised Basis of Design Products.

ff. Section 09 51 00 – Acoustical Ceilings

1. Revised Code reference and performance requirements.

gg. Section 09 54 00 – Acoustical Drywall Ceiling

1. Added New Section 09 54 00 – Acoustical Drywall Ceilings

hh. Section 09 54 34 – Wood Alternative Ceiling

1. Revised Part B for Basis of Design components and system consistency.

ii. Section 09 66 23 – Resinous Matrix Terrazzo Flooring

1. Added New Section 09 66 23, with requirements for precast terrazzo stair treads.

jj. Section 09 83 13 – Acoustical Wall Treatment

1. Revised AP1 Basis of Design product description, and
2. Added High-Impact Tackable Wall Panel description.

kk. Section 09 91 23 – Interior Painting

1. Revised Paint Schedule.

ll. Section 10 11 00 – Marker Boards

1. Revised Basis of Design product.

mm. Section 10 26 00 – Wall and Corner Guards

1. Revised Corner guard installation from flush-mount to surface-mounted.

nn. Section 10 28 13 – Toilet Accessories

1. Revised Accessory Schedule.

oo. Section 12 52 19 – Custom Upholstered Seating

1. Revised design requirements and deleted fabrics.

pp. Section 26 04 25 – Distribution Switchboards

1. Added New Section 26 04 25– Distribution Switchboards.

qq. Section 27 41 16 – AV Systems

1. Added New Section 27 41 16 – AV Systems.

IX. BID RFIS

1. Masonry restoration and cleaning, spec section 04 0120: The scope of this specification section is not identified on the plans or quantifiable. It is recommended the owner establish an allowance for this scope and have all bidding contractors include that allowance.

- a. Response: Scope to be determined during construction. A general contingency allowance has been established to cover associated costs. See specification section 01 2100 – Allowances.**
2. Exterior plaster repair, spec section 07 24 23: The scope of this specification section is not identified on the plans or quantifiable. It is recommended the owner establish an allowance for this scope and have all bidding contractors include that allowance.
 - a. Response: Scope to be determined during construction. A general contingency allowance has been established to cover associated costs. See specification section 01 2100 – Allowances.**
3. The accessories in the specifications do not match the plans or elevations. The specifications reference Monterey Peninsula College, please provide updated specification.
 - a. Response: Refer to updated specification section 10 28 13.**
2. There are no sheets CD-1.1 - Demolition Lan_Alternate, C-2.1 - Site Control Plan_Alternative, and C-3.1 - Site Grading_Alternative as listed in the Sheet Index on sheet G000 - Cover Sheet. Please clarify.
 - a. Response: See revised G000 Cover Sheet in Addendum 06. See revised Civil sheets included in Addendum 06.**
3. Is there any Allowance for this project.
 - a. Response: Scope to be determined during construction. A general contingency allowance has been established to cover associated costs. See specification section 01 2100 – Allowances.**
4. On (A230) Finish Plan - Lower Plan, Elevator Control RM [102], Storage [104], FOL Storage [105], & Storage [112] all call out for SC1. But nowhere on (A240) Finish Legend does it have the specs for SC1. What are the specs for SC1? Please advise.
 - a. See addendum. Refer to specification section 03 35 20.**
5. I am respectfully requesting your assistance with the attached substitution requests for gaining approval of the Record 8100 series automatic swing door operator and Record 5100 automatic sliding door as equal substitutes for this project.
 - a. Response: Substitution may be considered but will require contractor to perform additional coordination with Electrical before it can be approved.**
6. Please clarify the Min R-Value that is required for the roofing system. Specs call out for total thickness as indicated, while the only indication on the plans is detail 1/A720 which calls for 2" rigid insulation.
 - a. Response: Per California Title 24, Part 6, a minimum of R-10 is required at the roof. The insulation is to be tapered with a minimum of 2" thickness per roof details and sheet notes on A210 and A211.**
7. Please confirm the only roof location to be sloped with tapered insulation is the "PVC roof over rigid insulation over metal deck" location noted on A210.

- a. **Response: No. Provide tapered insulation throughout the entire roof.**
8. On A110, in reference to the stainless steel rigid mesh panel, is there a preferred manufacturer, gauge, or size specified?
 - a. **Response: Preferred product is CHAOS metal mesh panel by Cambridge Architectural.**
9. At the job walk, there was discussion regarding the library sculptures and associated accessories (seen on sheet A200 and A520, keynote 12.61) and whose responsibility it is to remove/salvage the items and reinstall them. Could you please confirm whose responsibility it is to perform the aforementioned actions?
 - a. **Response: General Contractor is responsible for protecting in place sculpture at upper entry. GC is responsible for removal, storage, and reinstallation of Owl sculpture.**
10. Reference sheet A170 keynote 01.65. Please advise on the respective allowance amount contractors should include in their bids.
 - a. **Response: Scope to be determined during construction. A general contingency allowance has been established to cover associated costs. See specification section 01 2100 – Allowances.**
11. Are durations mentioned throughout Division 1 in calendar days or working days? For Example 01 33 00 1.6B indicates initial submittal list is due no later than 15 days after award of contract and 01 33 00 1.6.F.1 indicates Architects have 15 days for initial review of submittal. Are these 15 days calendar days?
 - a. **Response: As noted in the General Conditions, days are in calendar days.**
12. 01 31 00 1.5.D.3 states that Architect will furnish contractor one set of digital data files of drawings for use is preparing coordination digital files and then references 01 11 50 Electronic Drawings, a section not included in the specs. Please state what format shall be furnished and provide any specification sections that may apply.
 - a. **Response: Disregard reference to 01 11 50**
13. 01 31 00 1.8.C asks for use of web-based project management software package. Can you please confirm that Architects shall accept formats and respond to communications listed in C.1 in the web-based project management software?
 - a. **Response: Confirmed. As long as web-based software meets the specified requirements.**
14. 01 91 13 States that Building Enclosure Commissioning responsibilities are located in a DIV 1 section named as such. This section is not provided. Please confirm this requirement is not needed.
 - a. **Response: commissioning agent will be procured by client. Further coordination with commissioning agent will be required at project closeout**

15. There are inconsistencies between drawings CD-1.0 and C-2.0. The right side of the plans show dirt as existing (C 2.0) and turf/shrubs to be removed in same area (CD-1.0). Which drawing is showing the correct information?
 - a. **Response: Refer to landscape drawings for scope in this area.**
16. Please provide specifications for the Linear metal ceiling for base bid and the add alternate.
 - a. **Response: Base bid and alternate are the same ceiling type. This has been revised in the addendum. See Sheet A240 and A221 for reference.**
17. 32 13 13 1.3C Site Concrete Mockup. Can the 8'x8' mockups of full thickness be incorporated into the work?
 - a. **Response: No**
18. Sheet A240 Carpet Tile: Confirm CP2 spec (size, pattern and color). Milliken/ Grain Bias is not available in 9" x 36" or in color Raw Edge. It comes in 50cm x 50cm. Patterns available are Burnout, Handspun or Needlework.
 - a. **Response: Working with the manufacturer to replace the discontinued carpet. For pricing purposes use Milliken level 2 roadrunner custom**
19. Sheet A240 Carpet Tile: Confirm polished concrete spec (ie. 200 grit, 400 grit, etc.)
 - a. **Response: See addendum. Reference section 03 35 20.**
20. Please provide existing building automation system information and provider for integration purposes including existing building points list, graphics and sequence of operations.
 - a. **Response: There is no existing building automation, refer to sequence of operation in Addendum 06 for new equipment.**
21. Is it the intent of the engineer to have Seasons 4 provide on board controls on the Multi-Zone units and integration only? If not, please provide controls drawings and sequence of operations.
 - a. **Response: The controls are ALC and are provided by Seasons 4.**
22. Please provide sequence of operations for equipment to be integrated into the existing building automation system.
 - a. **Response: See addendum for Sequence of operation.**
23. Flooring Material Size Discrepancies: CP1, CP3, and CP4 call out 9" x 36"; however, our representatives have indicated these products are 9" x 39". CP4 also calls out 9" x 36", but our representatives have confirmed the product is actually 50 cm x 50 cm (20" x 20").
 - a. **Response: See finish legend sheet A240 in addendum**
24. May we please request the specifications for the Fabric Wall-Wrapped Panels?
 - a. **Response: See Addendum 06. Reference section 09 83 13.**
25. Please confirm, detail 11/L112 can be used for Alternate 1? if so, keynote 7/C-2.0 calling for gravity wall and keynote 4 per detail 11/L112 calling for veneer seat wall, which keynote is correct?

- a. **Response: See revised sheet C-2.0 in Addendum 06 for gravity wall & veneer seat wall extents.**
26. Substitution Request for Porcelain Markerboards Proposed Substitution: SERIES 1000 MARKERBOARDS
- a. **Response: Porcelain markerboards are not an acceptable substitution. All should be glass**
27. Substitution Request for Glass Markerboards Proposed Substitution: SERIES GMB GLASS MARKERBOARD
- a. **Response: Substitution of Nelson Adams Naco glass markerboard is acceptable.**
28. Substitution Request for Tackable Acoustic Panel Proposed Substitution: SERIES ACP ACOUSTICAL PANEL
- a. **Response: See addendum 06. Refer to specification section 09 83 13.**
29. This project calls for pegboards (ref. to 4/A521), but there is no call out specifying the product nor is there a specification page. Could you please provide more details regarding the pegboard (material, manufacturer, model, etc.)?
- a. **Response: See addendum 06. Refer to specification section 06 40 00.**
30. Please confirm the only locations to receive window treatments are noted with keynote 12.01 on sheet A221
- a. **Response: Confirmed**
31. The symbol for all the linear fixtures (Types B, I, J, P) is the same. The lighting reps will require exact linear lengths (4', 6', 8', 12', etc.) for each fixture type in order to quote correctly.
- a. **Response: The fixtures are specified in 1 foot increments due to the various lengths. Bidders can scale the electrical drawings for fixture length.**
32. Part 2.2 C and D of section 12 24 13 call out different shade fabrics. Which applies to this project? No fabric information provided on A240
- a. **Response: See updated sheet A240 in addendum**
33. Drawings pg.A231 FINISHPLAN-MAIN LEVEL Please clarify if new entry walk off CPT is required at the north entrance Rm.302 TWEENS. If so which of the two styles, colors?
- a. **Response: See addendum. Reference sheet A231 and A240.**
34. Please clarify locations where the moisture control is requested by owner, or if we are to assess subfloor and only apply if necessary to achieve proper moisture, PH and substrate requirements as per manufacturer's requirements, warranties? like an add, alternate?
- a. **Response: Scope to be determined during construction. A general contingency allowance has been established to cover associated costs. See specification section 01 2100 – Allowances.**
35. We want to submit RFI as to why the Lightweight Insulating Concrete (LWIC) will be removed, replaced and which LWIC applicator/manufacturer-professional

inspected the existing LWIC. LWIC should last the lifetime of the building, and additionally, we would like to submit a pricing for new Lightweight Insulating Concrete (LWIC) if the existing is to be removed.

- a. Response: You can submit a substitution request during construction. Please note one of the reasons we want to remove the entire roof assembly is to confirm the condition of the plywood substrate.**
36. We are a local elevator company that saw the Altadena Library Project, is Kone installing the elevator as part of the project?
 - a. Response: As noted in spec section 14 21 00 -4, 1.5 B, The equipment manufacturer shall install the elevator.**
37. Is there "Cove-Up" for the rolled goods RF-1 & RF2? Or is it going to be Wall base? If it is Cove-Up, will we need to put a (cove filler) Vinyl Cove Stick and a Vinyl Edge Trim (cap) For Example: Tarkett CFS-00-A Cove Filler / Tarkett SCC XX B Cove Caps - Colors Vary. Please advise
 - a. There is no "cove-up" needed. Wall base is WB1 as noted in drawings**
38. CP1, CP3, & CP4 calls out for 9x36. According to our Reps. These are all 9X39, please advise
 - a. Response: See addendum - See finish plans A230 & A231 and finish legend A240**
39. CP2 calls out for 9x36 as well... Our reps confirmed that this is indeed 50cmx50cm =20x20. Please advise.
 - a. Response: Working with the manufacturer to replace the discontinued carpet. For pricing purposes use Milliken level 2 roadrunner custom**
40. This question is for curiosity or potential savings. What is the reason for demo of the lightweight insulating concrete (LWIC)?
 - a. Response: One of the reasons we want to remove the entire roof assembly is to confirm the condition of the plywood substrate.**
41. Based on my review, the only shotcrete scope I identified for this project includes:
 - The wall along Grid Line F between 4 and 5
 - The wall along Grid Line A between 2.5 and 3.5Could you please confirm if this is accurate?
 - a. Response: Yes, this is correct.**
42. Drawing E003 - Lighting Fixture Schedule - fixture type "F" is shown as Edge Lit Exit Sign. Electrical plans do not show any of the exit signs. Please clarify.
 - a. Response: See Addendum 06. Exit signs added.**
43. Drawing E202 - Sheet Note #1 referred to "mount light fixtures under cabinet". This Sheet Note #1 is not shown anywhere on this drawing. Please verify.
 - a. Response: Fixtures not required**
44. Drawing E203 - The East Entrance @ columns 0.6 - 1 and B - C - there are (6) fixtures type "D". Per Key Note "26 47" on the Reflected Ceiling Plan A221, these fixtures are "existing to remain, protect in place or remove and reinstall". Please

clarify if these fixtures are new per electrical drawing or existing per Drawing A221.

a. Response: Refer to electrical drawings.

45. Drawing E203 - Living Room #301 @ columns 2 & B - C - there is (1) 1'x4' light fixture at this location. Reflected Ceiling Plan A221, on the other hand, does not show this fixture. Please verify which drawing takes precedence (architectural or electrical). If electrical drawing takes precedence, provide fixture designation or manufacture and part #.

a. Response: Fixture not required and has been removed.

46. There is no specification on the switchgear portion. Please provide more information about this section of the specification.

a. Response: Specification included in Addendum 06. Reference section 26 04 25.

47. Spec section 09 51 00, 2.2.A calls for suspension system ACP-1: 15/16" grid in Blizzard White. Since Blizzard White is significantly more expensive than Regular White, please clarify the following: Is Blizzard White required, or will Regular White be acceptable? If Blizzard White is required, does this apply only to the 15/16" grid for ACT3 and ACT4 acoustical panels, or also to the 9/16" Silhouette grid used with ACT1 and ACT2 panels?

a. Response: Regular white is acceptable.

48. RCP legend on sheet A221 lists ceiling type GB2 – Armstrong Acoustibuilt gypsum board. GB2 does not appear in the finish schedule on A240, and there is no specification section provided for it. Please provide the appropriate specification.

a. Response: See Addendum 06 Project Manual, section 09 54 00.

49. Acoustical Plaster Specification Clarification Spec Section 09 22 00 – Acoustical Plaster (StarSilent System by Pyrok) - This system is specified, but no locations are identified. Please clarify where this acoustical plaster system is to be applied on the project.

a. Response: Spec section 09 22 00 replaced with spec section 09 54 00. See Addendum 06.

50. The finish schedule on sheet A240 lists CT1 as a wood ceiling; however, no wood ceilings are shown on RCP sheets A220–A222 or in the details. The RCP legend identifies MC1 (base bid) and MC2 (add alternate) as linear metal ceilings, while details on sheet A832 show Rulon Endure Linear, which is an extruded polymer system available in solid colors, woodgrain, and metallic finishes. Spec section 09 54 34 also references the Rulon Endure Linear system. Please confirm the following: •Are MC1 (base bid) and MC2 (add alternate) intended to be Rulon Endure Linear per Spec 09 54 34 and details on A832? •Does CT1 on the Finish Schedule indicate the woodgrain finish color for the Rulon Endure product?

a. Response: See Addendum 06. CT1 has been removed and replaced with MC1 & MC2. MC1 & MC2 are Rulon Endure 800. MC1 is for

exterior use, and requires spacers. See 14/A832. MC2 is for interior use, for both the base bid & add alternate.

51. There are several keynotes on the drawings calling for acoustic panels, specifically 09.76 (sheet A201), 09.77 (sheets A230 and A231), and 09.79 (sheet A522), as well as keynote 09.78 (sheets A520–A526) for tackable acoustic panels. However, no specifications have been provided for these. Please provide the specifications for all these acoustic panel types and clarify if there are any differences between keynotes 09.76, 09.77, and 09.79.
 - a. **Response: See Addendum 06 Project Manual. Reference section 09 83 13.**
52. The Finish plans on sheets A230 and A231 show keynote 09.77 (fabric wrapped acoustic panel) at multiple locations, but the Interior elevations on sheets A520–A526 show keynote 09.78 (tackable acoustic panel) in those same areas. Please confirm whether tackable acoustic panels (09.78) will be installed as shown on the interior elevations, or confirm the correct locations for fabric wrapped panels (09.77) as shown on the finish plans.
 - a. **Response: Floor plans show the note to indicate a panel on the wall. Refer to interior elevation sheets for panel type.**
53. The electrical drawings indicate necessary work to coordinate with the utility SCE. Please make SCE plot plans available prior to bidding or list assumptions all bidders should take for fair bidding.
 - a. **Response: See Appendix E: SCE Submittal in Addendum 06 for drawings submitted to SCE. Drawings are pending final approval.**
54. The electrical drawings indicate necessary work to coordinate with the utility SCE. For bidding purposes, please provide demarcation point where SCE work ends and electrical contractor work begins.
 - a. **Response: See Appendix E: SCE Submittal in Addendum 06 for drawings submitted to SCE. Drawings are pending final approval.**
55. The electrical drawings indicate necessary work to coordinate with the utility SCE. On sheet E004, the Single line diagram identifies feeders not shown on the schedule for SCE-1 and SCE-2. Please provide feeder information including lengths, radius requirements, and trench details.
 - a. **Response: See Appendix E: SCE Submittal in Addendum 06 for drawings submitted to SCE. Drawings are pending final approval.**
56. The electrical drawings indicate necessary work to coordinate with the utility SCE. On sheet E004, Keynote 10 indicates need to provide conduit, cables and trenching per SCE requirement. Please provide assumptions that all bidders should use.
 - a. **Response: See Appendix E: SCE Submittal in Addendum 06 for drawings submitted to SCE. Drawings are pending final approval.**
57. The electrical drawings indicate necessary work to coordinate with the utility SCE. On sheet E111 the drawings indicate a new lateral service and slab box. Who is

responsible for demolition of existing conduit, wire and slab box? What are the backfill requirements?

- a. Response: See Appendix E: SCE Submittal in Addendum 06 for drawings submitted to SCE. Drawings are pending final approval.**
58. Will SCE provide temporary power for the building while the electrical service is being replaced?
 - a. Response: See Appendix E: SCE Submittal in Addendum 06 for drawings submitted to SCE. Drawings are pending final approval.**
59. Sheet A240 – Finish Legend states for Other (Sheet A221 Keynote 12.01) Roller Shade Fabric to be MFR Mecho Shade. Please provide remaining fabric details including name, size, color and finish. Please also confirm if aluminum shade pocket is required, or just a closure cover piece.
 - a. Response: See detail 9/A831.**
60. Sheet A221 shows one instance of Keynote 12.01 Manual window shade. There are other windows facing the same direction (plan South) without window shades. Please confirm there is only one location to receive a roller shade.
 - a. Response: There is only one location to receive a roller shade.**
61. Please provide the location for the Primary feeder from the SCE point of connection to the 10'X12' slab box. Site Plan does not show this location.
 - a. Response: SCE primary feeder will originate off pole on Mariposa St. Similar to what is indicated on documents. SCE finalizing design and plans will be available once complete.**
62. Reflected Ceiling Plan A221 showed (2) Add Alternates #2 and #3. Electrical Plan does not account for these alternates. Please clarify.
 - a. Response: Alternates #2 and #3 are shown on 1/E203 and 1/E205. Base bid should omit the power and lighting for Alternates #2 and #3. See architectural sheets to identify and price alternates accordingly.**
63. Door #100B is listed with hardware group #25 in door schedule A600, but Section 087100 of the hardware specification indicates that group #25 is "NOT USED." Please advise.
 - a. Response: See addendum 05. Door hardware group changed to 01.**
64. Both the door schedule on sheet A600 and elevation 7/A523 indicate that exterior aluminum door #303 is door type A2, which features a half narrow lite. However, aluminum doors are typically specified with full glass lites. Could you please confirm whether this is intended to be a hollow metal door instead?
 - a. Response: See addendum 06. Door #303 is a hollow metal door with half narrow lite.**
65. Can you confirm if Doors #305 and #306 are aluminum storefront doors, not solid core wood? They appear to be part of storefront systems 06 and 07 in drawing A612.

- a. Response: Doors 305 & 306 are to be solid core wood, not aluminum doors.**
- 66. For Add Alternate #1, three sliding doors (#302A, #302B, and #302C) are shown replacing storefront SRE11. The existing storefront width is 592-3/4", while the total width of the sliding doors is only 555". Will additional storefront framing and glazing be required to fill the remaining gap on both sides? Also, could you please provide an elevation for Add Alternate #1?
 - a. Response: Provide additional framing and storefront as needed. See sheet A611 in Addendum 06 for Alternate #1 elevation.**
- 67. For specification Section 083400 (Special Function Doors), could you please clarify where this section is intended to apply within the project scope?
 - a. Response: This section has been removed. See Addendum 06 for revised project manual.**
- 68. In the plans on M002 it states "INSTALL NEW SIEMENS CONTROLLERS FOR ZONE DAMPERS WITHIN MULTI-ZONE UNITS." Are the controls to be done by Siemens or are we to use Siemens controllers for zone dampers. There is nothing mentioned in the specs regarding the acceptable vendor or contractor is.
 - a. Response: The controls are ALC and are provided by Seasons 4. See addendum for Sequence of operation.**
- 69. P200 and P201 Notes 1 and 2 state to refer to Structural Details for floor cover up. Please provide exact Structural sheet and detail reference.
 - a. Response: Refer to details 12 & 16 on sheet S0.11**

END OF ADDENDUM

APPENDIX A
SEQUENCE OF OPERATIONS

SEQUENCE OF OPERATION

For

ALTADENA, CA

TAG: MZ-1, MZ-2, MZ-3

P12502

9/25/25

Equipment Description

The unit is a packaged, rooftop mounted, multi-zone unit with an air-cooled condensing section along with a variable air volume supply blower and a variable air volume return blower.

The unit includes:

- a) DX Cooling System
- b) Scroll Compressors and Direct Drive Propeller Condenser Fans
- c) Plenum Supply Air Blower
- d) Plenum Return Air Blower
- e) Power Vented Tubular Duct Furnace
- f) Dry bulb Changeover Economizer

Supply Air Blower

The supply air blower will run continuously in occupied mode. The supply air blower will be a variable air volume type controlled by variable speed drive. The input to the VSD shall be via a pressure transducer located in the supply air plenum. This transducer will send a control signal to the controller that will in turn send a signal to the drive. The drive will ramp the speed of the supply air blower to maintain a constant supply air plenum pressure (approx. set point = 5.67" W.C., adjustable). There shall be a manual reset high pressure safety switch located in the supply air plenum to de-energize the supply air blower in the event that the supply air plenum pressure becomes excessive (set point = 6.67" W.C., adjustable).

Return Air Blower

The return air blower will run continuously in occupied mode. The return air blower will be a variable air volume type controlled by variable speed drive. The return air blower VSD will track the signal of the supply air blower VSD.

Smoke Detector

The unit will have both supply air and return air smoke detectors. Upon detection of smoke, the supply air fan will de-energize. The outdoor (and exhaust) air damper(s) will drive to a fully closed

position. The return air damper will drive to a fully open position. A terminal block shall be provided for field wiring connections to a remote location if desired.

Compressor & Cooling Section

A call for cooling will be initiated when any one zone is fully open to the cold deck and the temperature rises above the cooling set point of the zone's temperature control. The call for cooling will continue until all zones are satisfied. The unit is equipped with an evaporator cooling coil and scroll compressors, including a digital scroll lead compressor capable of modulating capacity for capacity control. The compressors will stage based on a call for cooling and shall maintain a cold deck temperature of 55°F (adjustable).

The lead digital scroll compressor requires a demand signal from 1.52 VDC to 5.0 VDC based on a PID loop comparing discharge temperature to discharge temperature set point. At 5.0 VDC, the compressor will operate at 100% capacity. Below 1.52 VDC, the compressor will shut off. The digital compressor can operate down to 10% (1.8 VDC), but the range of operation should be limited to a minimum output of 2.2 VDC (approx. 30% capacity) for protection of the system. Therefore, the range of operation programmed in the DDC controller will be 2.2 VDC to 5.0 VDC.

Compressor staging sequence will be: Compressor 1 on, Compressor 2 on, etc. Compressor staging must be re-started beginning with Stage 1 upon reset of any safety device. Once there is a call for cooling, the DDC controller will enable Compressor 1 and provide a demand signal based on discharge air temperature. Each subsequent compressor will have an on-delay of 5 minutes to allow the lead digital compressor to modulate to meet set point before any other compressors are turned on/off. If after 5 minutes the digital compressor is at full capacity (5.0 VDC) and the discharge air temperature is still above the discharge air temperature deadband, the next compressor will be staged on. If after 5 minutes the digital compressor is at minimum output (2.2 VDC) and the discharge air temperature is still below the deadband, the next compressor will be staged off. The digital compressor must reach full capacity (5.0 VDC) on an increase in demand or minimum output (2.2 VDC) on a decrease in demand before staging any other compressors on/off. Each compressor will run for a minimum of 3 minutes once energized to ensure proper oil return to the compressor. Each compressor has a solid-state 5 minute timer to prevent short cycling.

Mechanical cooling is disabled if the coil leaving temperature drops below 38°FDB (adjustable). Cooling will reactivate once the freeze stat downstream of evaporator coil is satisfied. The unit will have a low ambient lockout set at 50°F (adjustable).

Heating Section

A call for heating will be initiated when any one zone is fully open to the hot deck and the temperature falls below the heating set point of the zone's temperature control. The call for heating will continue until all zones are satisfied. The unit will incorporate a tubular duct furnace with power vented exhaust. The duct furnace will be modulating type with a 5:1 turndown ratio. A time-delay relay is hard wired to allow the fan to run for a period of 5 minutes upon unit shut-down after heating mode of operation in order to dissipate the residual heat. The unit will have a high ambient temperature lockout set at 73°F (adjustable).

Multi-Zone VAV Damper

The zone damper will be a VAV multi-zone, 2-deck damper. The zone actuators will be electric. The multi-zone damper is a special design which will allow only modulated airflow from the cold deck or the hot deck at any one time. Each zone shall have a dead band from 40% of its travel to 60% of its travel. As a zone's heating demand decreases, its zone blade travels from 0% (full heating) towards 40% (minimum heating). That zone's blade(s) will remain at the 40% position until the control signal calls for the zone to modulate to 60% (minimum cooling). If the zone thermostat continues to increase the signal, the actuator will continue to modulate from 60% (minimum cooling) to 100% (full cooling). There is a "jump" between 40% and 60% so that no one zone will be denied airflow for ventilation purposes.

Condenser Fan Control

The condenser fan motors will be controlled by a variable frequency drive. The variable frequency drive will ramp up and down based upon input signals coming from pressure transducers mounted on the discharge lines. The controller will read the discharge pressure of all compressor circuits and modulate the condenser fan motor speed to maintain the highest pressure of those circuits to 300 PSIG (approx. 100°F CT). If at any time the discharge pressure of any of the compressor circuits that are running falls below 225 PSIG (approx. 80° CT), the controller will reduce the condenser fan speed to maintain a minimum discharge pressure of 225 PSIG and allow the highest discharge pressure to rise above the 300 PSIG (approx. 100°F CT) setpoint. The controller will continue to reduce the condenser fan speed as needed to maintain the minimum discharge pressure of 225 PSIG until the discharge pressure of any other compressor circuit reaches a maximum pressure of 450 PSIG (approx. 130°F CT).

Refrigerant Leak Detection System (RDS)

A refrigerant detection system will be provided on all units with mechanical cooling utilizing A2L refrigerants to sense leaks. The RDS includes a controller and one or more refrigerant detection sensors mounted in predetermined locations. If one refrigerant detection sensor has a fault, is at the end of its life or is disconnected, the RDS controller will initiate the system response. The

system response will initiate within a maximum of 30 seconds of leak detection and continue for at least 5 minutes (adjustable) after the sensor signal has reset.

During the system response, the RDS controller will energize the supply air blower(s) to provide at least the minimum unit airflow up to full design airflow. For multi-zone applications, all zone damper positions will be placed into pre-assigned positions upon receiving the "Damper" dry contact from the RDS controller. Return air and/or outdoor air dampers will be fully open as needed to ensure free airflow. (For Triple Deck VAV units, the bypass deck damper will fully open). Compressor operation will be disabled on all cooling circuits. Gas and electric heating functions will be disabled. The main unit controller will not have the ability to override any of these RDS actions during the response time period.

After refrigerant detection sensor signal reset and the delay time has expired, the RDS controller will allow the supply blower to return to its normal operation as determined by the unit's main controller. For multi-zone applications, the zone position override will be disabled, allowing the unit controller to return the zones to their normal positions. Return air and outdoor air damper override will be disabled, allowing the unit controller to return the dampers to their normal positions.

Compressor and gas/electric heating can be re-enabled in two ways. The RDS controller can be reset via a button after refrigerant detection sensor signal reset and the time delay has expired. This allows the RDS controller to return the compressors and heating to their normal operation as determined by the unit's main controller. If the reset button is not pressed, the RDS controller will maintain the cooling and heating lockout for 120 minutes (adjustable). After the time delay, RDS controller will return cooling and heating to normal operation as determined by the unit's main controller.

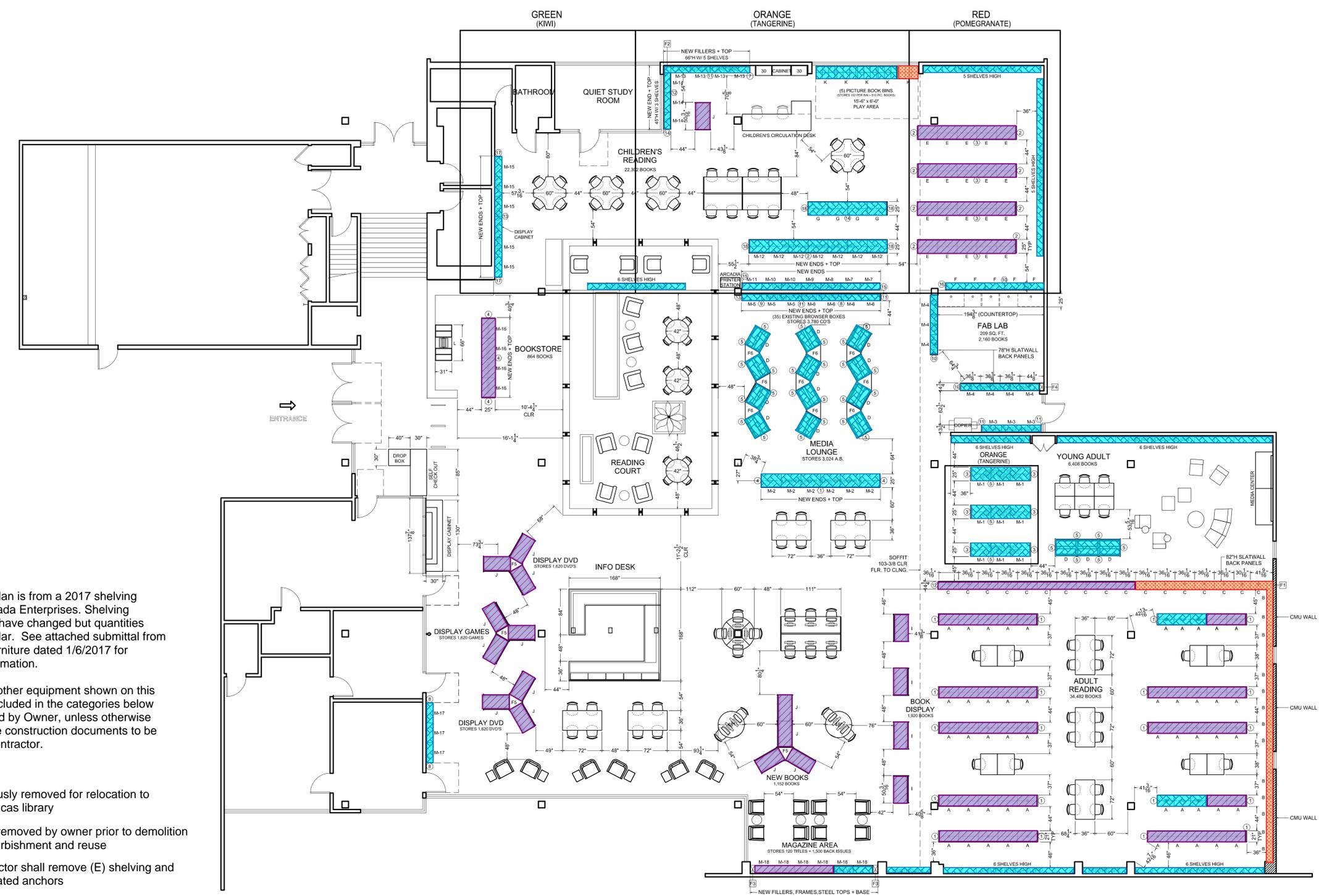
For 2 deck MZ constant volume, set all zones to 6V.

For 2 deck MZ variable volume, set half of the zones to 2V and half to 10V.

For 3 deck MZ, set half of the zones to 4V and half to 8V.

APPENDIX B

DEMOLITION OF EXISTING SHELVING SCOPE



NOTES

This existing plan is from a 2017 shelving install by Yamada Enterprises. Shelving locations may have changed but quantities should be similar. See attached submittal from Yamada for furniture dated 1/6/2017 for additional information.

Furniture and other equipment shown on this plan but not included in the categories below will be removed by Owner, unless otherwise specified in the construction documents to be removed by contractor.

LEGEND

- Previously removed for relocation to Bob Lucas library
- To be removed by owner prior to demolition for refurbishment and reuse
- Contractor shall remove (E) shelving and associated anchors

FLOOR PLAN

CAPACITY:
69,288 BOOKS
3,780 CD'S
3,240 DVD'S
3,024 AUDIO BOOKS
1,620 VIDEO GAMES

LEGEND

- 36"W STEEL STACK
- 30"W STEEL STACK
- 24"W STEEL STACK
- 36"W WOOD SHELVING
- 30"W WOOD SHELVING
- STEEL CANOPY TOP
- WOOD CANOPY TOP
- WOOD CANOPY TOP
- END PANEL
- FILLER
- SEISMIC FRAME

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REV. #	DESCRIPTION	DATE
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2	-	-
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4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-

CUSTOMER:
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ALTADENA CA 91701

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DRAWN BY: C.TRELO
SCALE: 1/8" = 1'-0"
DATE: 01-06-17

ITEM DESCRIPTION:
GROUND FLOOR
FURNITURE LAYOUT
SHEET: **PLAN**



REV. #: 1 DATE: 01-10-17

REV. #: _____ DATE: _____

REV. #: _____ DATE: _____

DATE: 01-06-17

SUBMITTAL

PROJECT NAME:

ALTADENA LIBRARY

PROJECT ADDRESS:

**600 EAST MARIPOSA STREET
ALTADENA CA 91001**

SECTION:

N/A

PRODUCT:

TENNSCO CORP. / ESTEY SHELVING

TABLE OF CONTENTS:

- ◆ COVER SHEET
- ◆ FINISH SCHEDULE
- ◆ ELEVATIONS & ANCHORING DETAILS
- ◆ FLOOR PLAN

**SUPPLEMENTARY
INFORMATION**



16552 Burke Lane, Huntington Beach, CA 92647
(714)843-9882 ◆ (800)444-4594 ◆ FAX (714)843-9202

FINISH SCHEDULE:

COLOR OF **ESTEY** SHELVING:

SHELVING: PAINT: **AUTUMN WHITE**

KICK STRIP: PAINT: **AUTUMN WHITE**

COLOR OF **MONTEL** SHELVING:

SHELVING: PAINT: **ARCTIC WHITE**

KICK STRIP: PAINT: **ARCTIC WHITE**

END PANELS:

WOOD: **TBD PENDING ACTUAL SAMPLES**

FINISH: **TO MATCH EXISTING INTERIOR DOORS**

CANOPY TOPS:

WOOD: **TBD PENDING ACTUAL SAMPLES**

FINISH: **TO MATCH EXISTING INTERIOR DOORS**

FILLERS:

WOOD: **TBD PENDING ACTUAL SAMPLES**

BACK PANELS:

WOOD: **TBD PENDING ACTUAL SAMPLES**

FINISH: **TO MATCH EXISTING INTERIOR DOORS**



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WOOD SHELVING, CABINETS, GONDOLAS, BOOK BINS & TIERED BOOK DISPLAY:

WOOD: **TBD PENDING ACTUAL SAMPLES**

FINISH: **TO MATCH EXISTING INTERIOR DOORS**

BOOK RETURN, SELF CHECKOUT & DISPLAY CABINET:

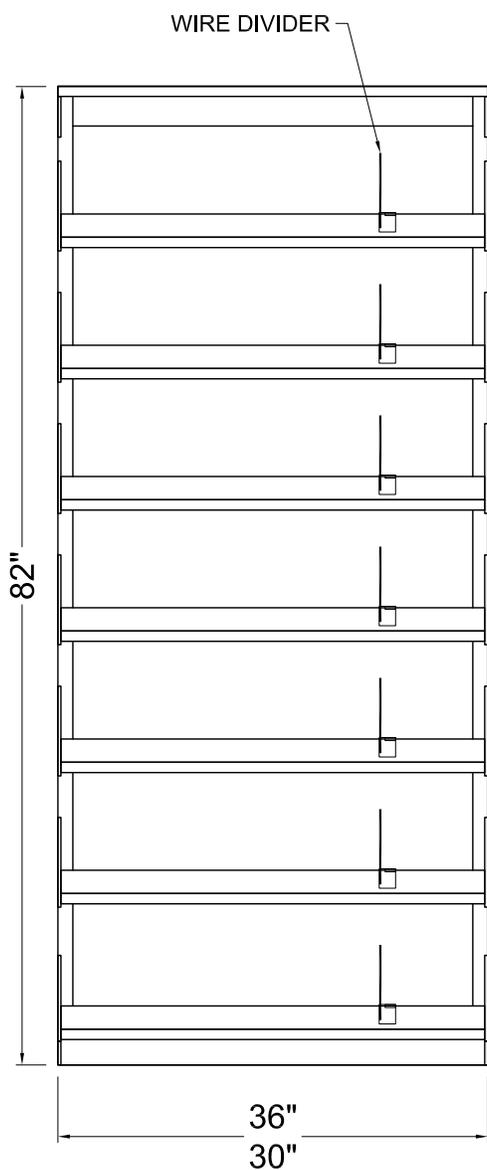
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FINISH: **TO MATCH EXISTING INTERIOR DOORS**

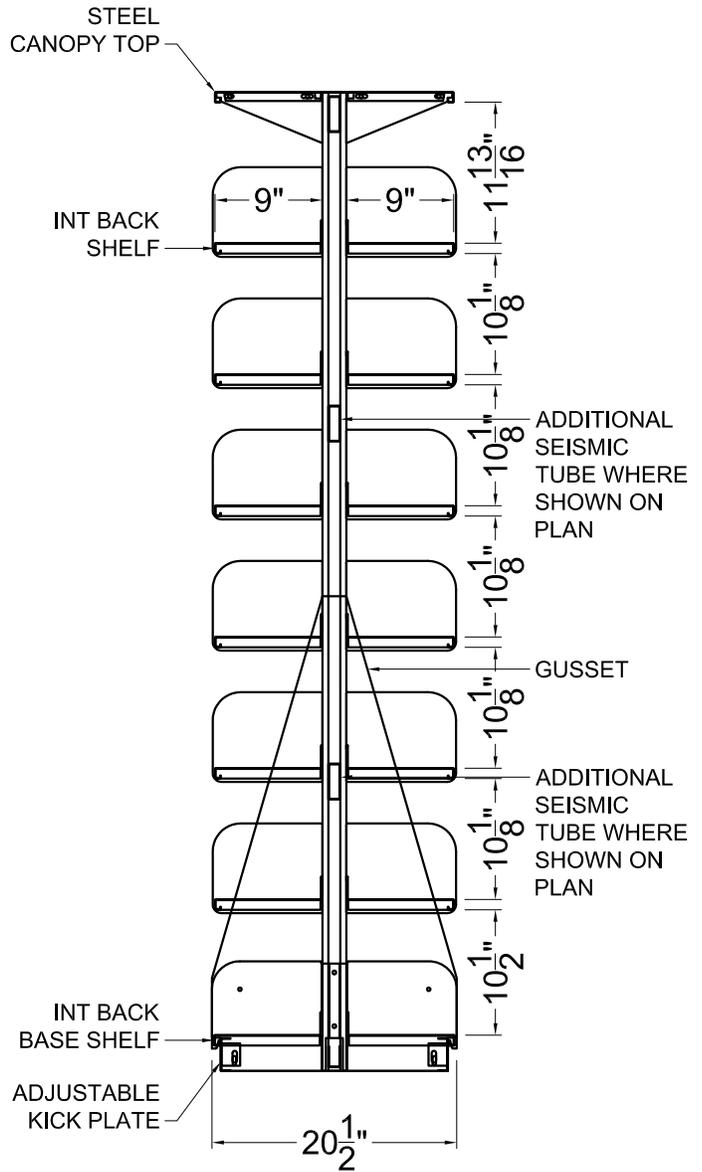
PLASTIC LAMINATE: **TBD PENDING ACTUAL SAMPLES**



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- SECTION VIEW -

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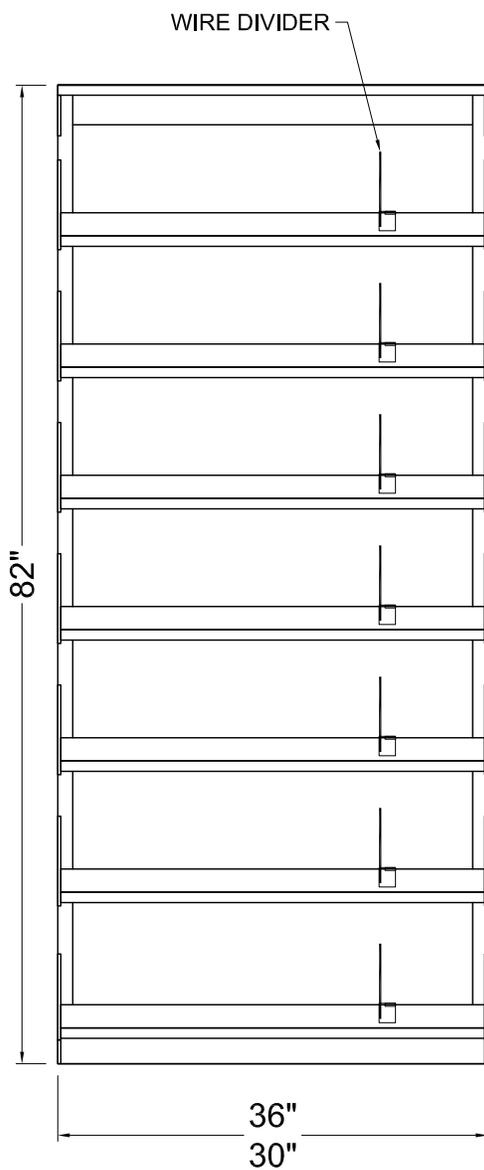
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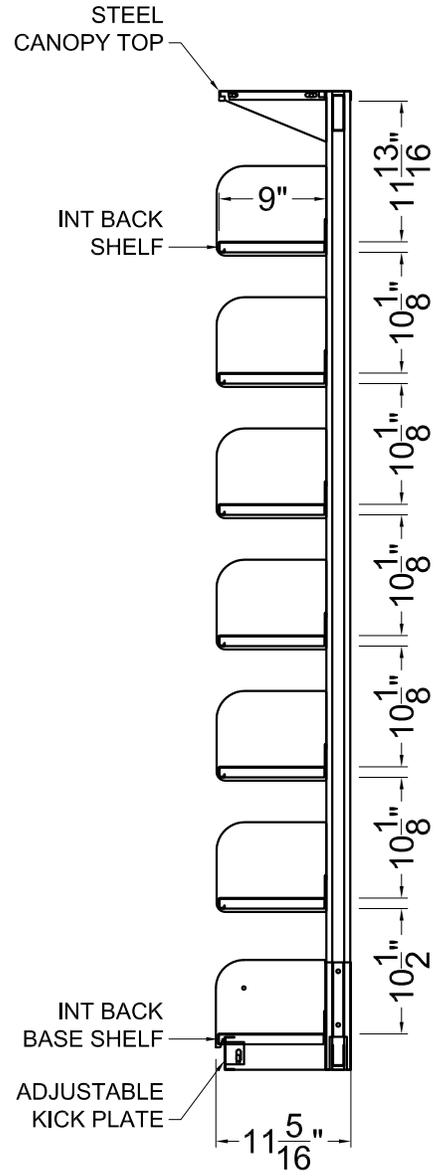
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DATE:		01-06-17
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- SECTION VIEW -

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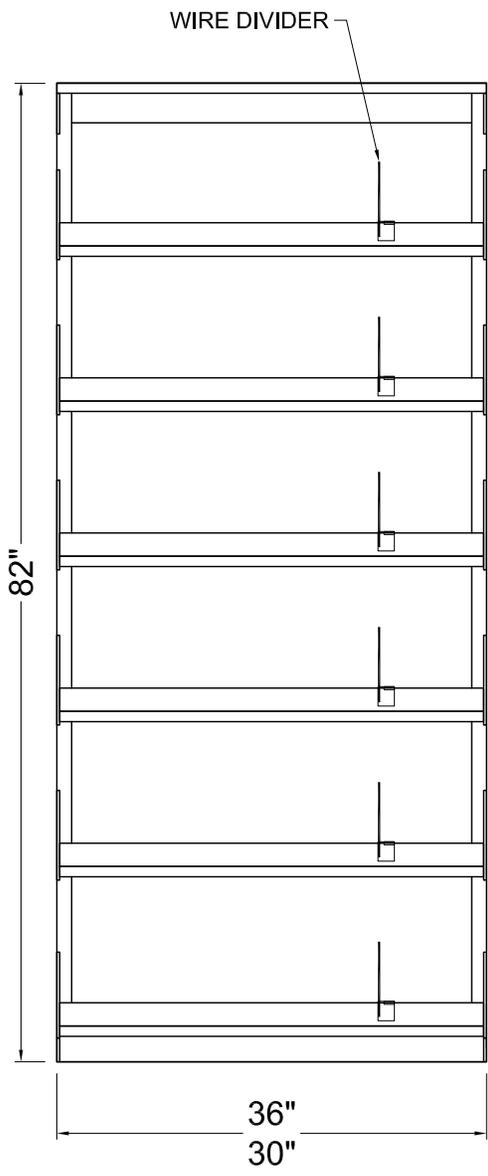
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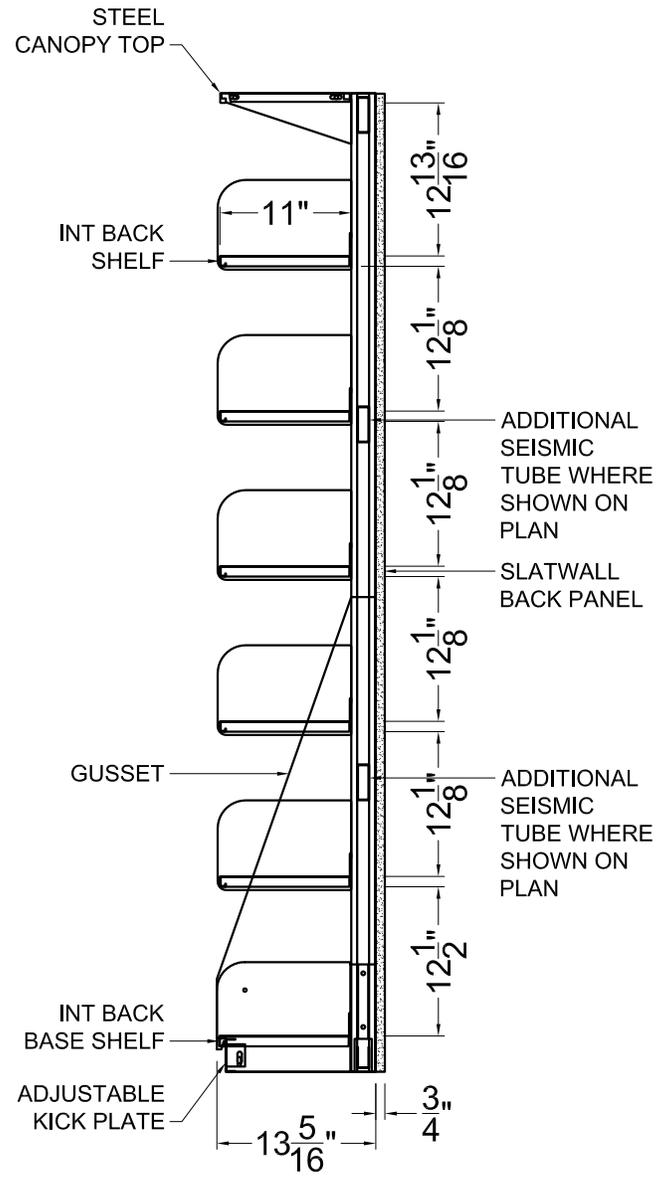
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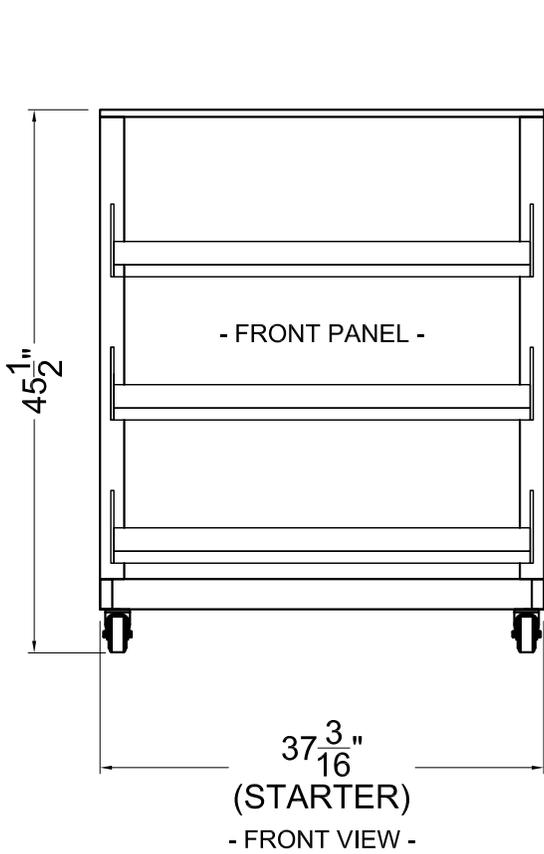
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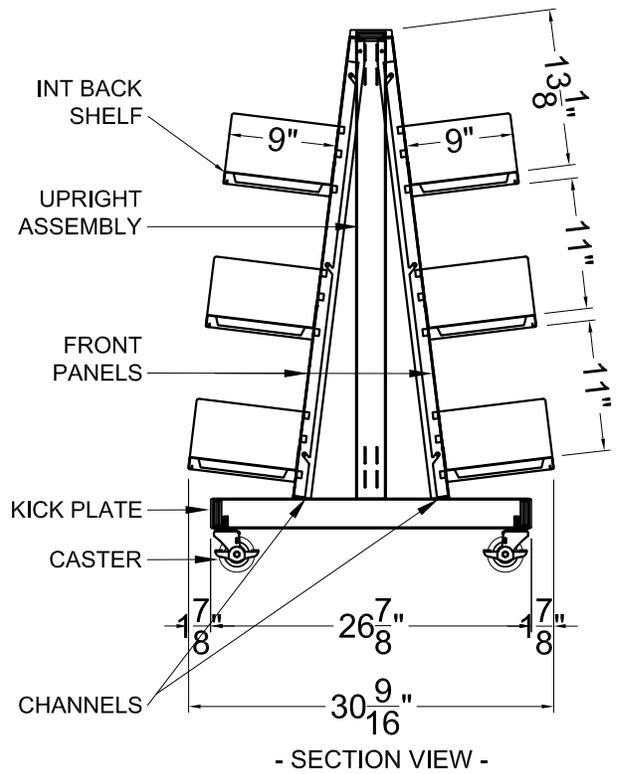
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TOP COVER



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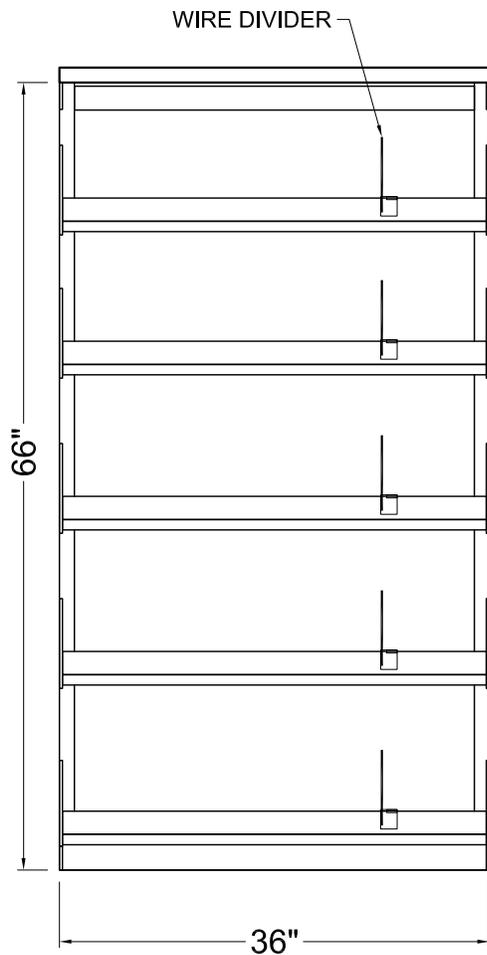
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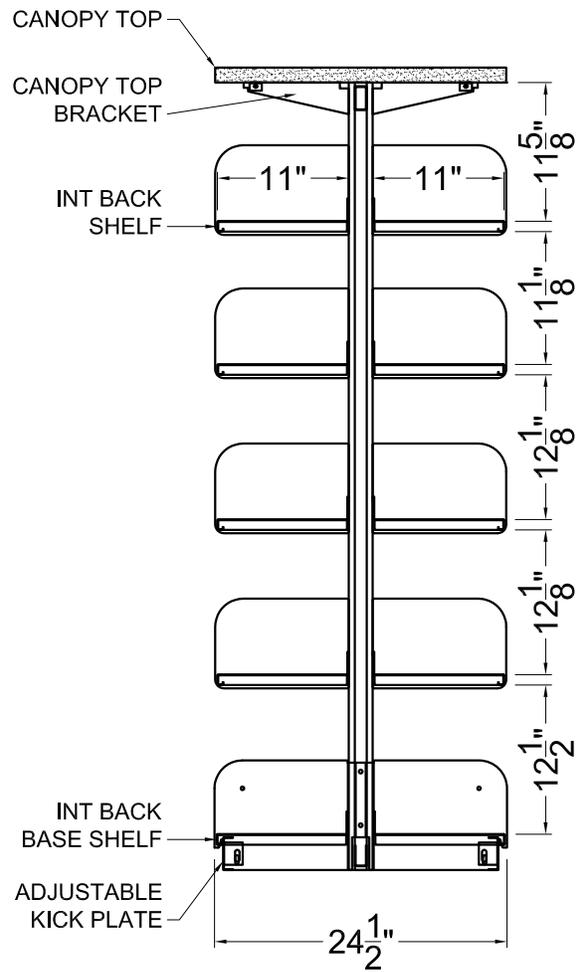
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- SECTION VIEW -

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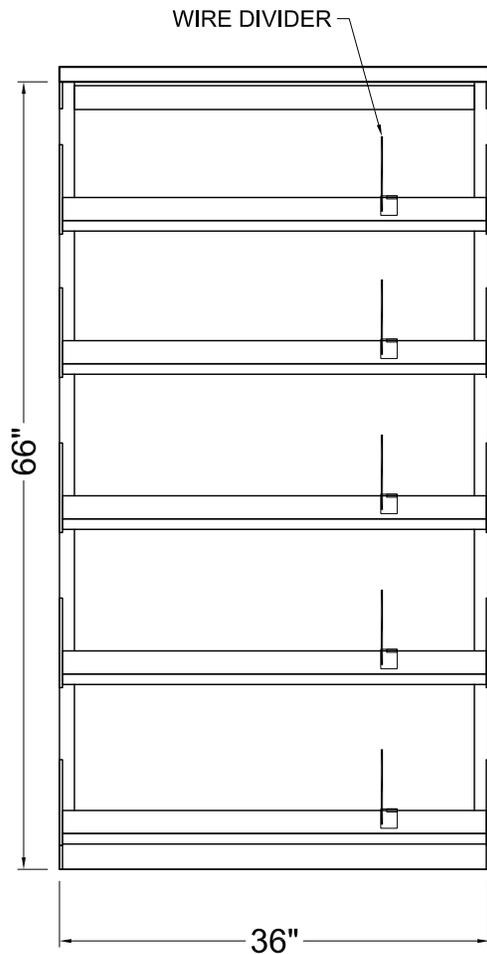


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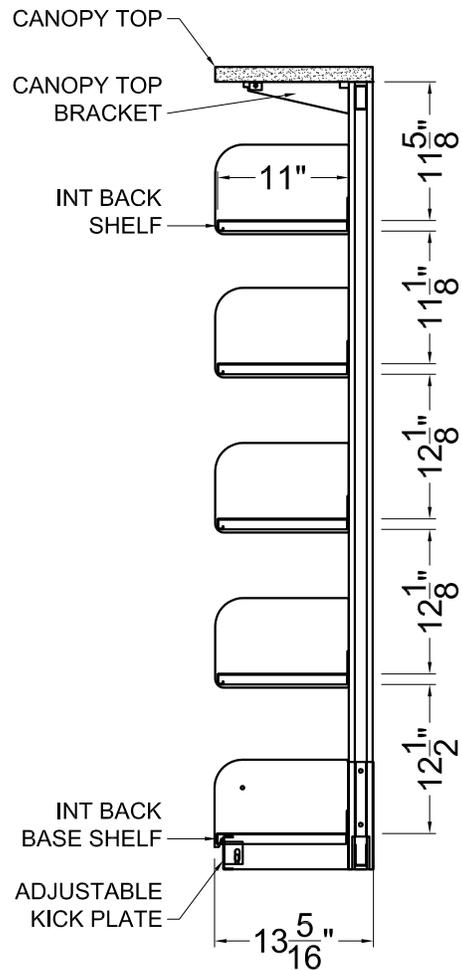
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- SECTION VIEW -

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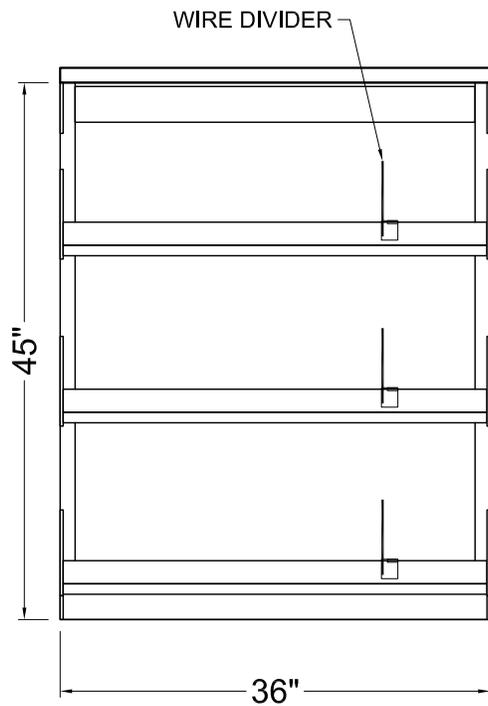
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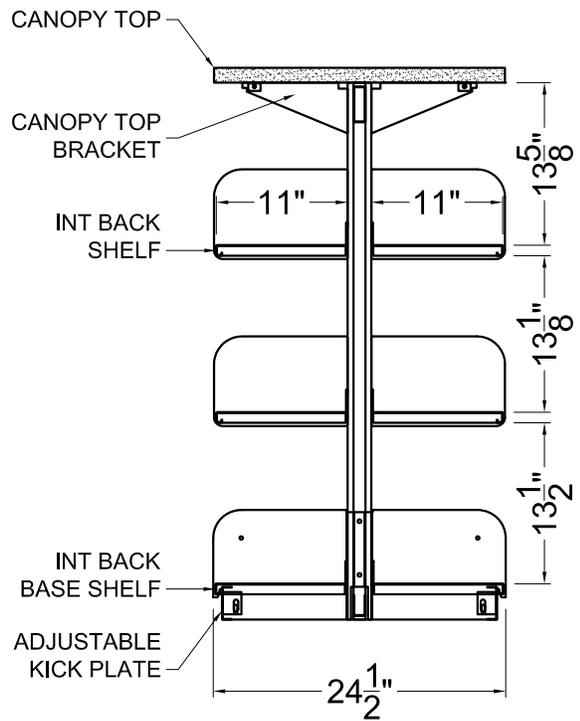
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- SECTION VIEW -

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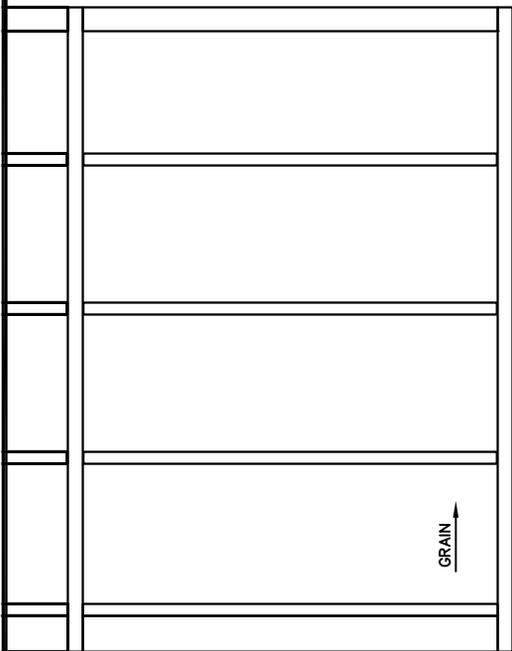


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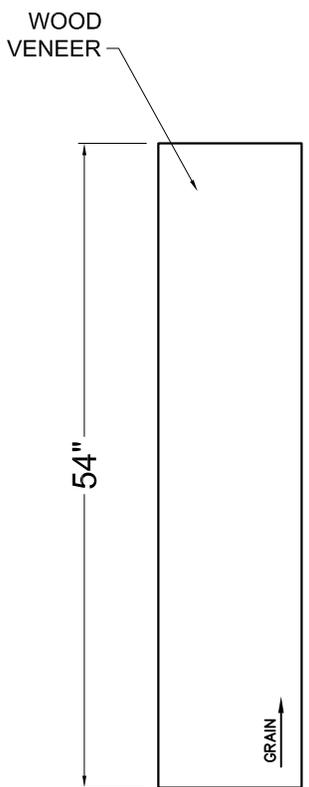
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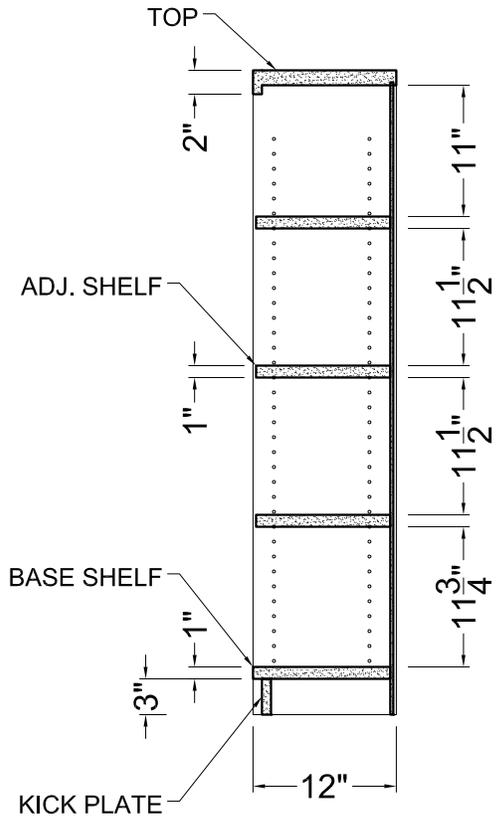
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DRAWN BY:		O.TREJO
DATE:		01-06-17
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SHEET:		G



- FRONT VIEW -



- END VIEW -



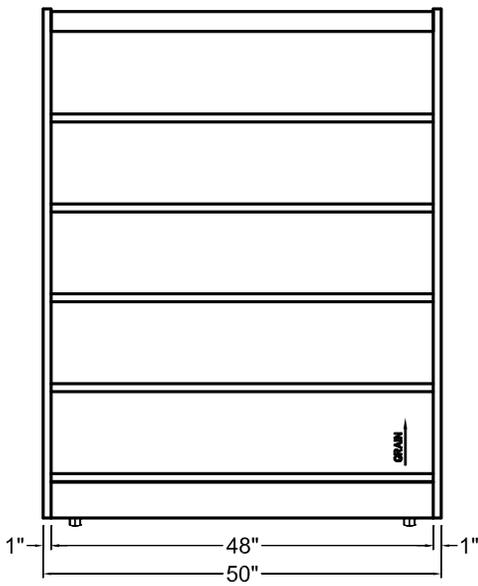
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QTY: 3 (36"W)
 QTY: 2 (30"W)

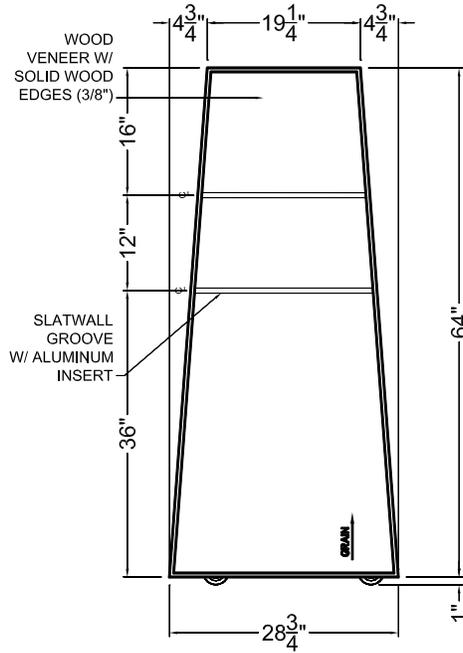
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DESCRIPTION:	BOOKSTACK TYPE: H


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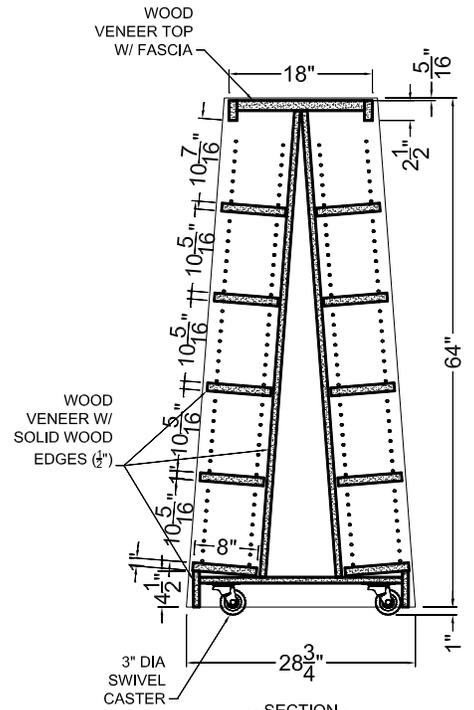
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DATE:		01-06-17
SCALE:		3/4" = 1'-0"
SHEET:		H



- FRONT VIEW -



- END VIEW -



- SECTION -

QTY: 4 (50"W)

PROJECT:	ALTADENA LIBRARY
DESCRIPTION:	BOOKSTACK TYPE: I

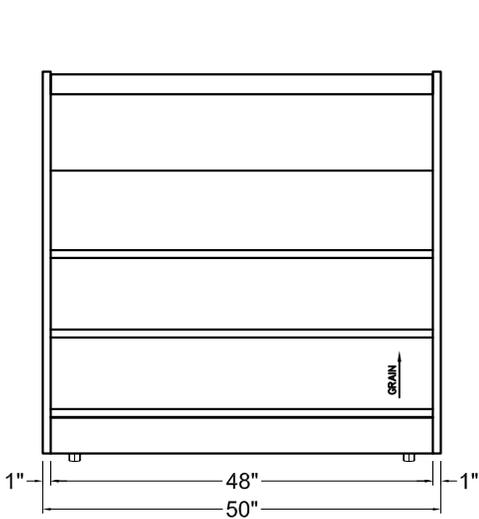


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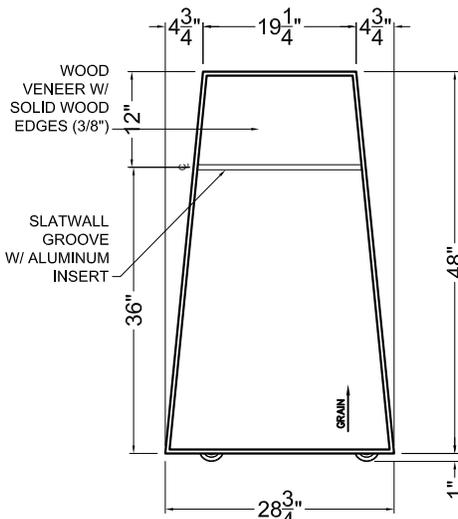
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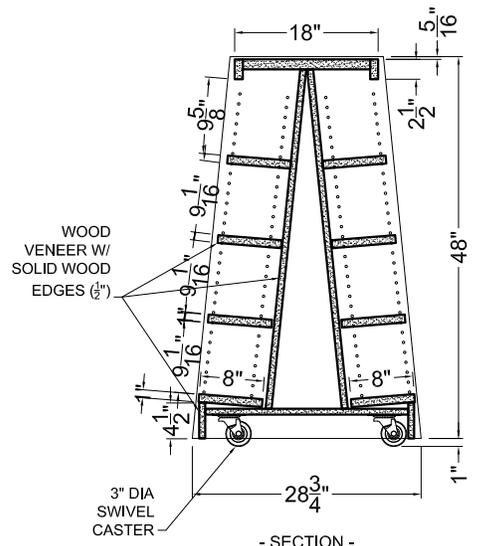
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SHEET:		I



- FRONT VIEW -



- END VIEW -



- SECTION -

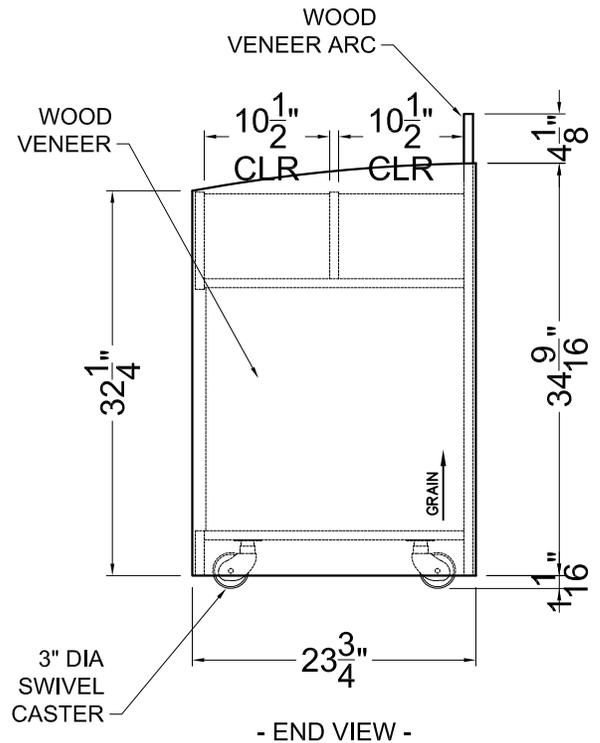
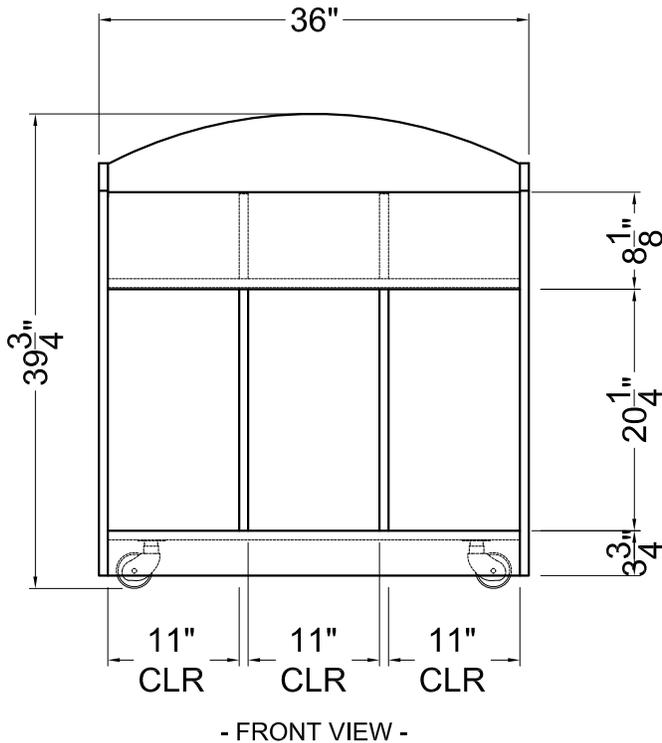
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NO	REVISION	DATE
1	HEIGHT	01-10-17
-	-	-
DRAWN BY:		O.TREJO
DATE:		01-06-17
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SHEET:		J

DESCRIPTION:
BOOKSTACK TYPE: J



QTY: 5 (36"W)

PROJECT:
ALTADENA LIBRARY

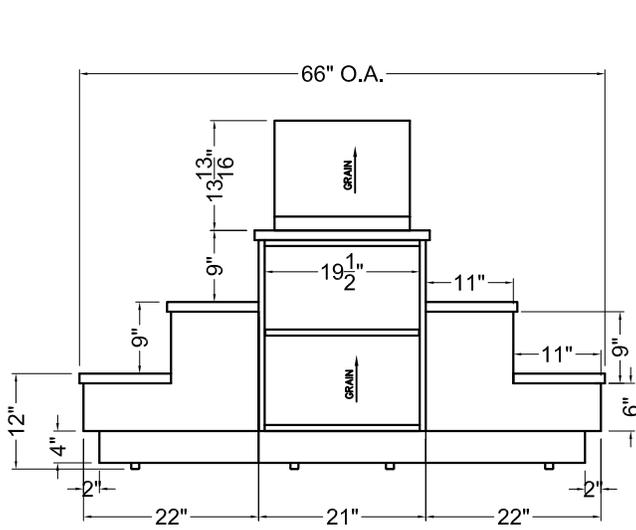
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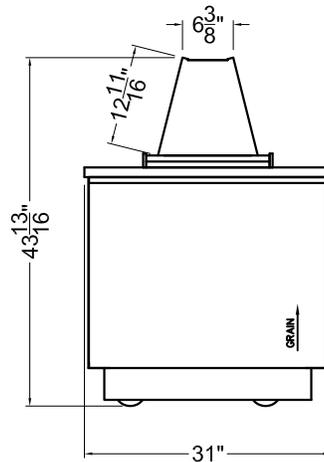
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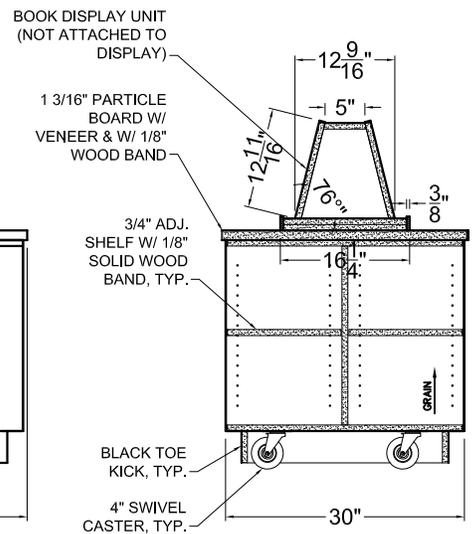
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DATE:		01-06-17
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- FRONT VIEW -



- SIDE VIEW -



- SECTION VIEW -

QTY: 1 (66"W)

PROJECT:
ALTADENA LIBRARY

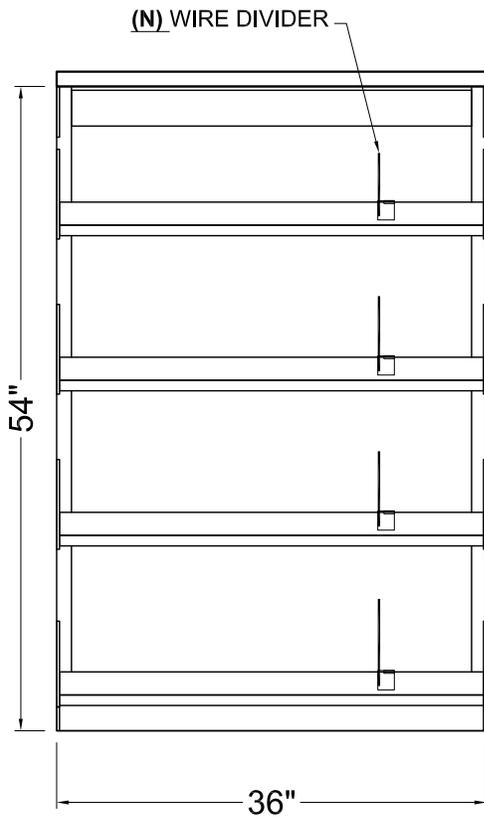
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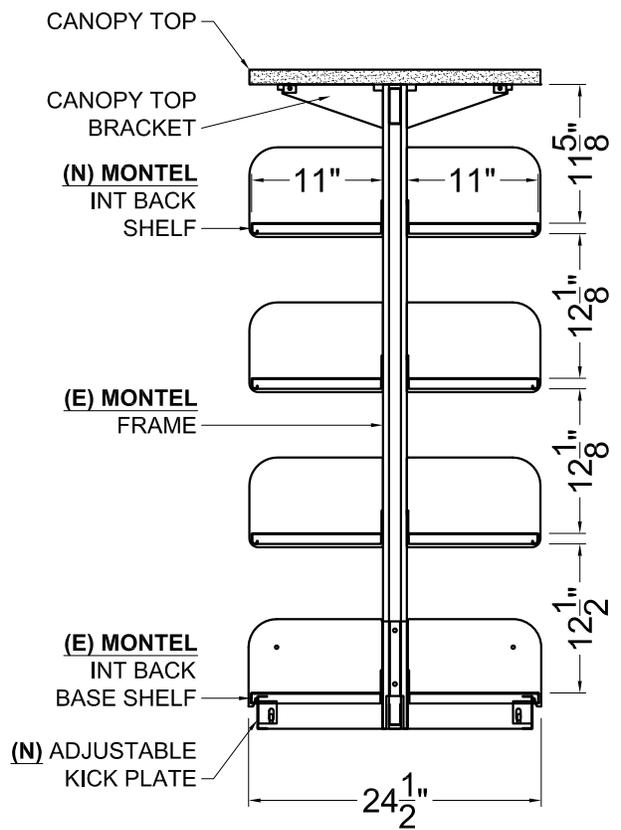
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NO	REVISION	DATE
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DRAWN BY:		O.TREJO
DATE:		01-06-17
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SHEET:		L



- FRONT VIEW -



- SECTION VIEW -

QTY: 9 (36"W)

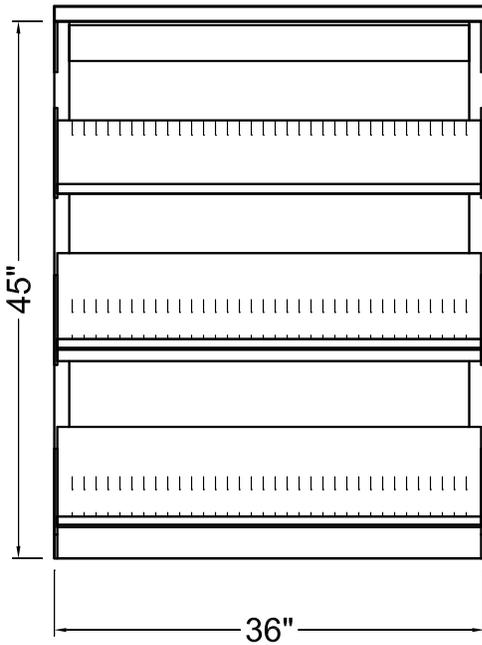
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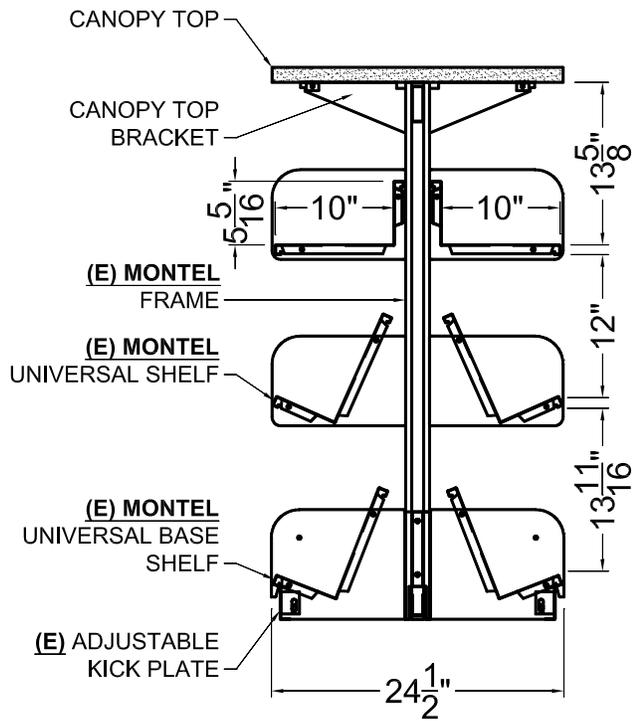
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NO	REVISION	DATE
-	-	-
-	-	-
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:		3/4" = 1'-0"
SHEET:		M-1



- FRONT VIEW -



- SECTION VIEW -

QTY: 6 (36"W)

PROJECT:
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DESCRIPTION:
MONTEL BOOKSTACK TYPE: M-2

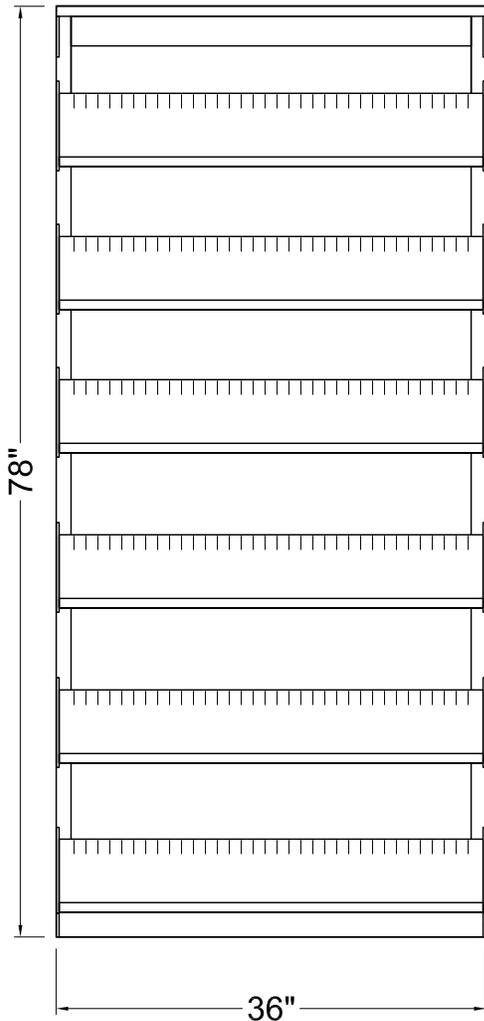


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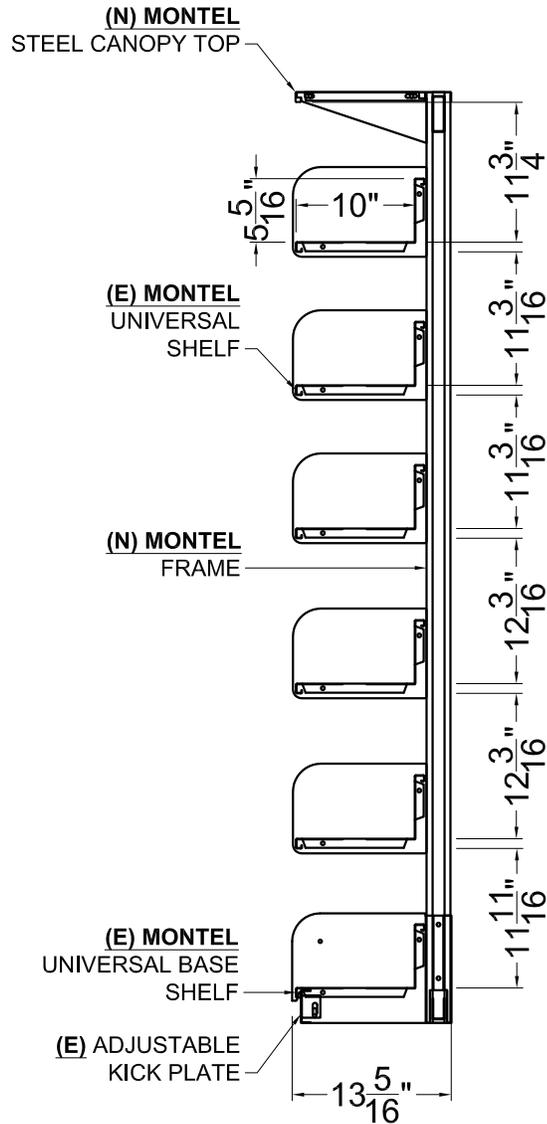
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-	-	-
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:		3/4" = 1'-0"
SHEET:		M-2



- FRONT VIEW -



- SECTION VIEW -

QTY: 3 (36"W)

PROJECT:	ALTADENA LIBRARY
DESCRIPTION:	MONTEL BOOKSTACK TYPE: M-3

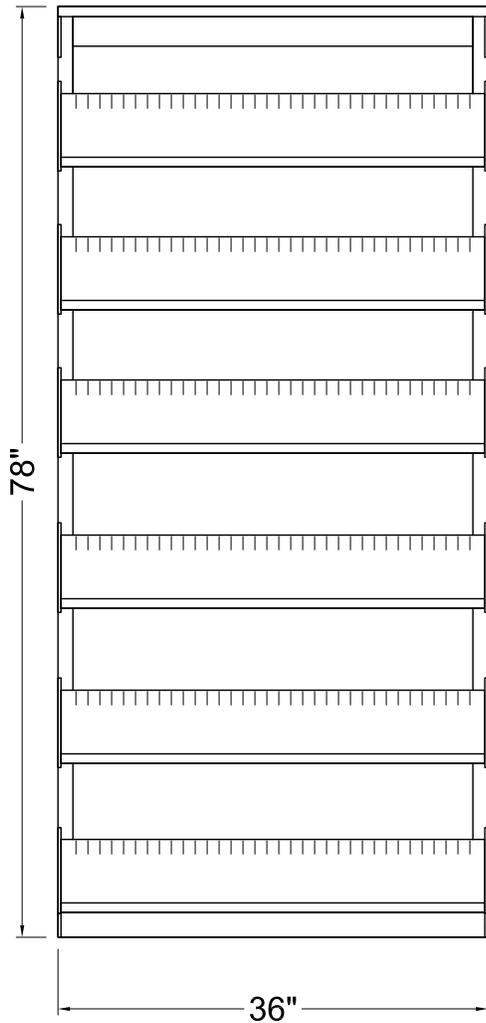


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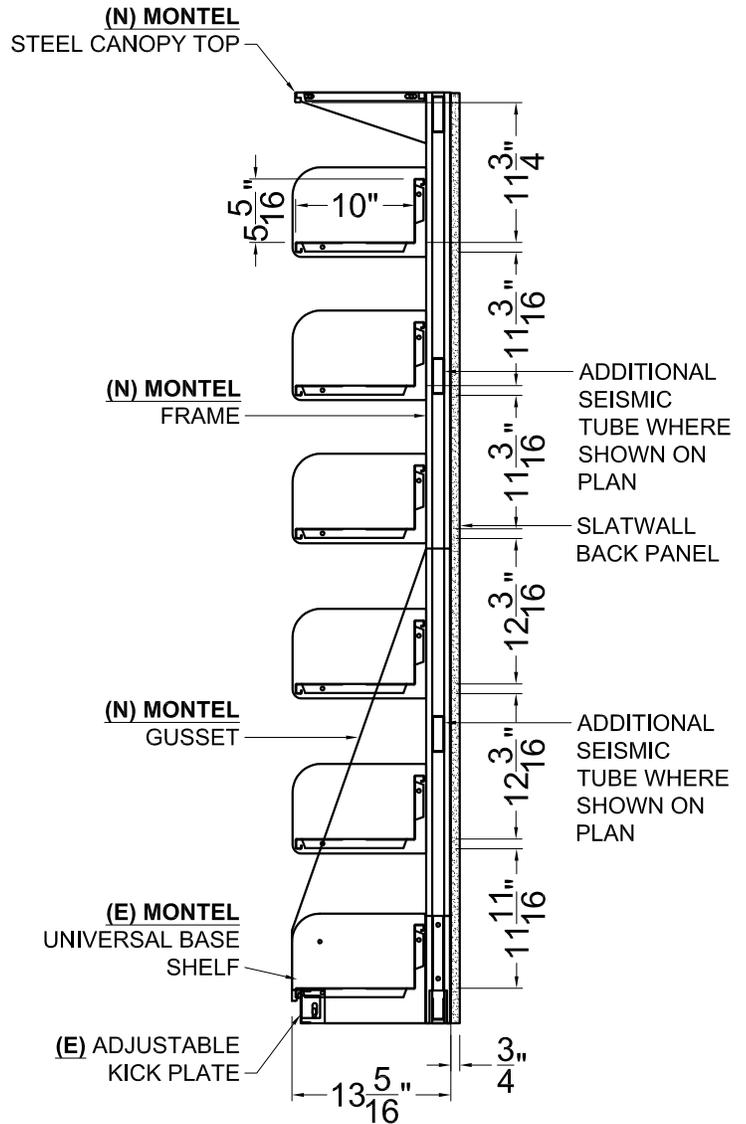
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NO	REVISION	DATE
1	CONFIG.	01-10-17
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DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:		3/4" = 1'-0"
SHEET:		M-3



- FRONT VIEW -



- SECTION VIEW -

QTY: 7 (36"W)

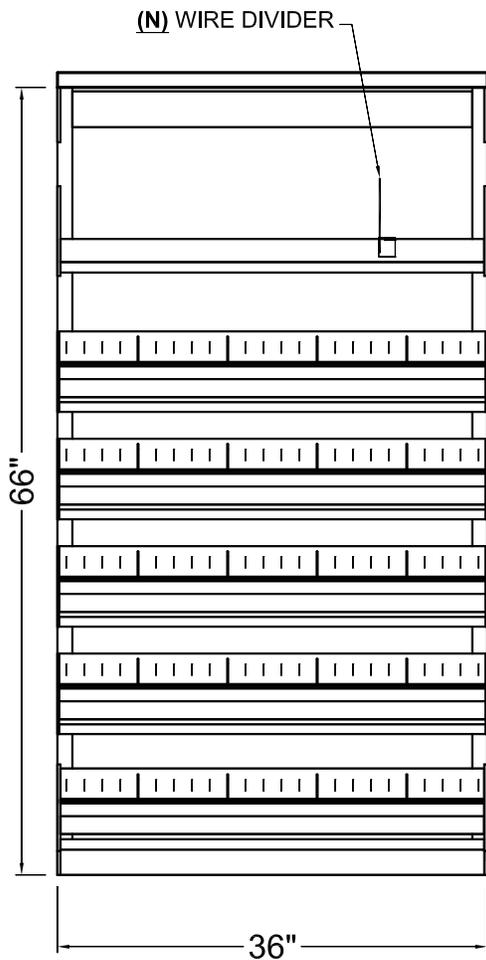
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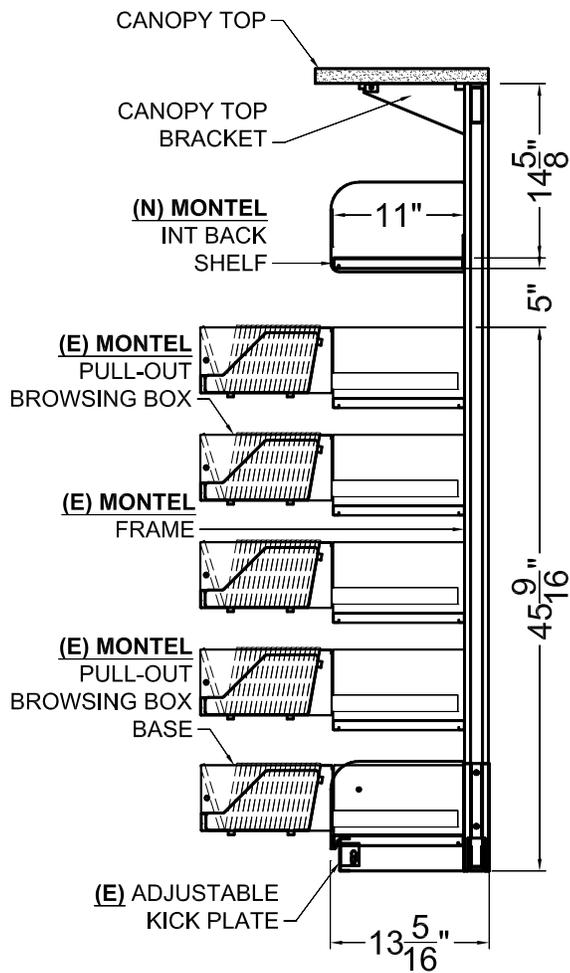
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NO	REVISION	DATE
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DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:		3/4" = 1'-0"
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- FRONT VIEW -



- SECTION VIEW -

QTY: 3 (36"W)

PROJECT:
ALTADENA LIBRARY

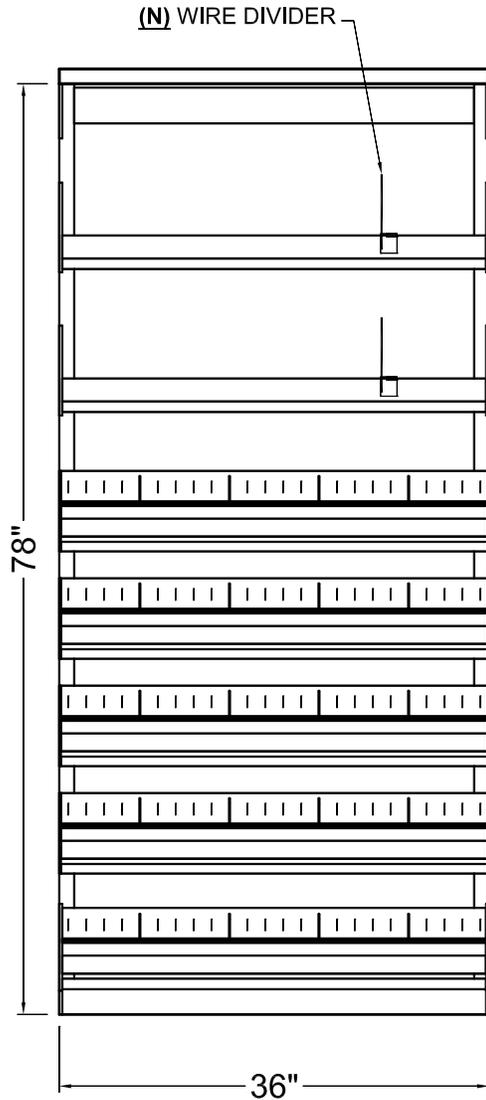


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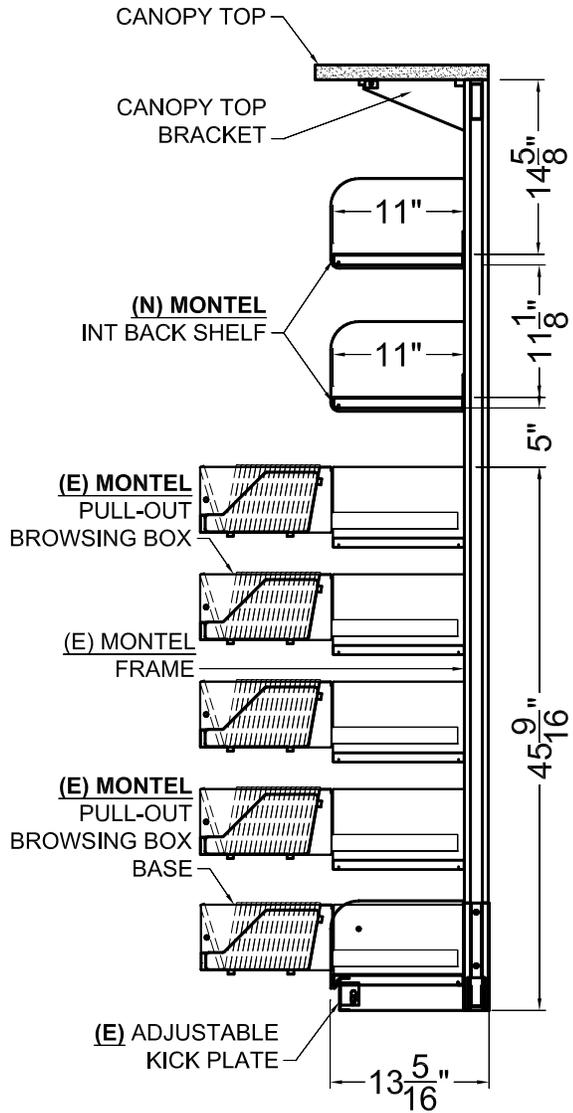
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DATE:		01-06-17
SCALE:		3/4" = 1'-0"
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DESCRIPTION:
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- FRONT VIEW -



- SECTION VIEW -

QTY: 4 (36"W)

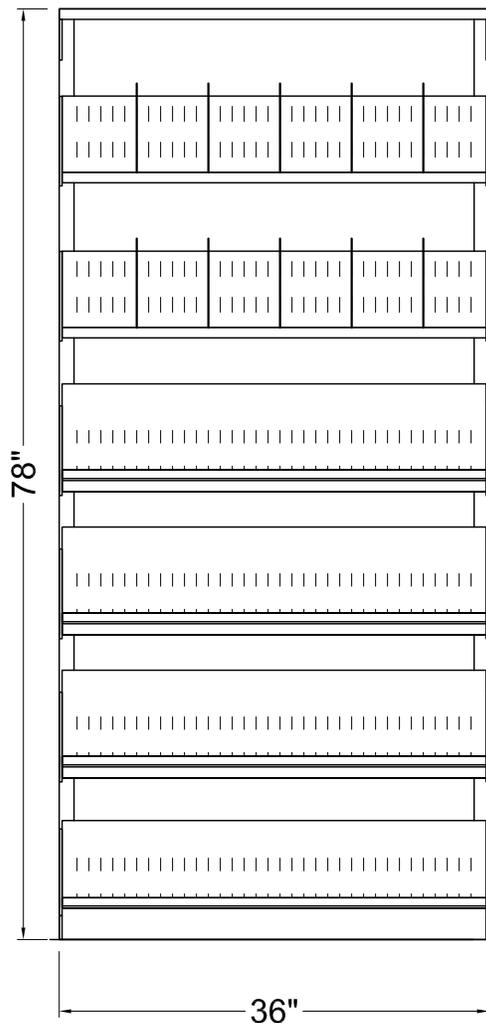
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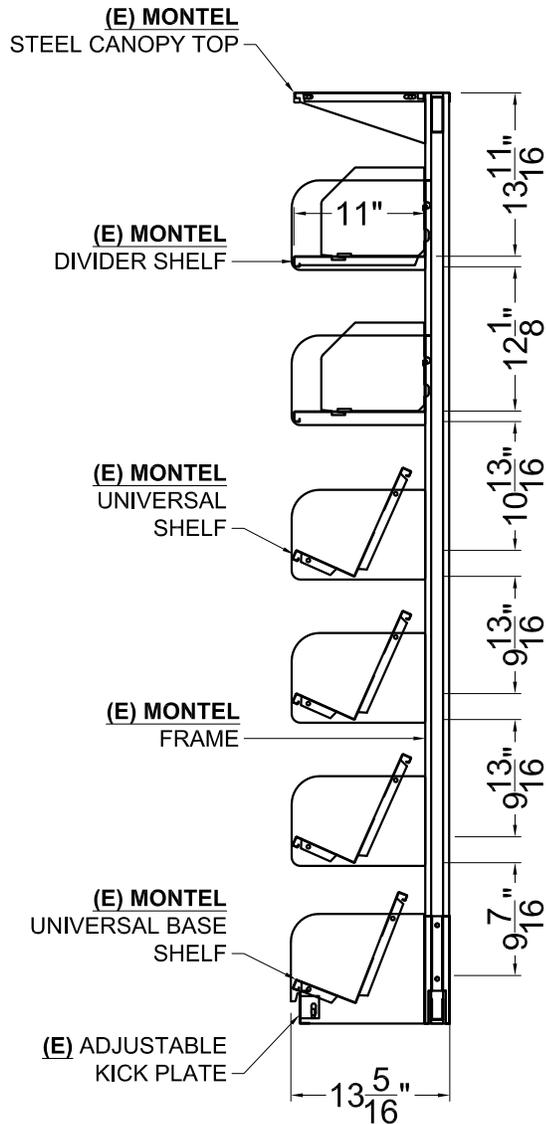
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NO	REVISION	DATE
-	-	-
-	-	-
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:	SHEET:	
3/4" = 1'-0"	M-6	



- FRONT VIEW -



- SECTION VIEW -

QTY: 2 (36"W)

PROJECT:
ALTADENA LIBRARY

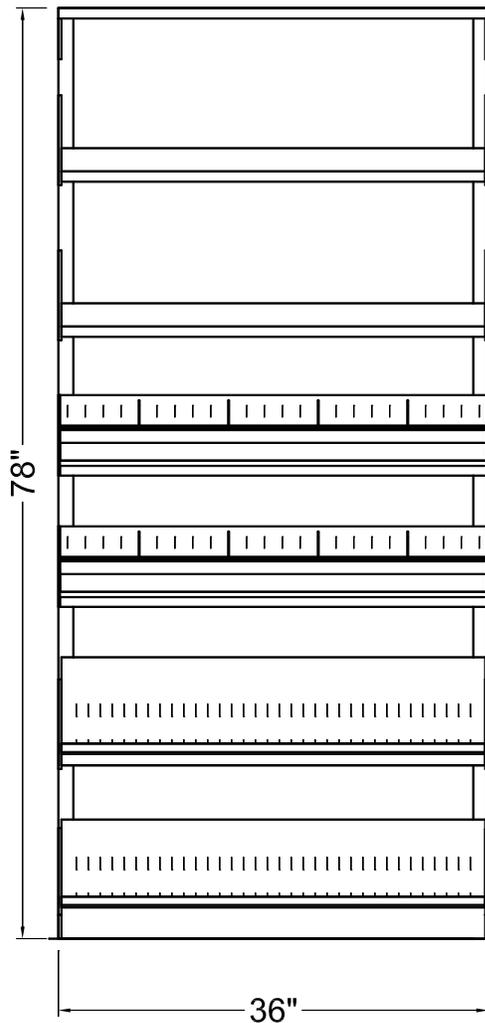


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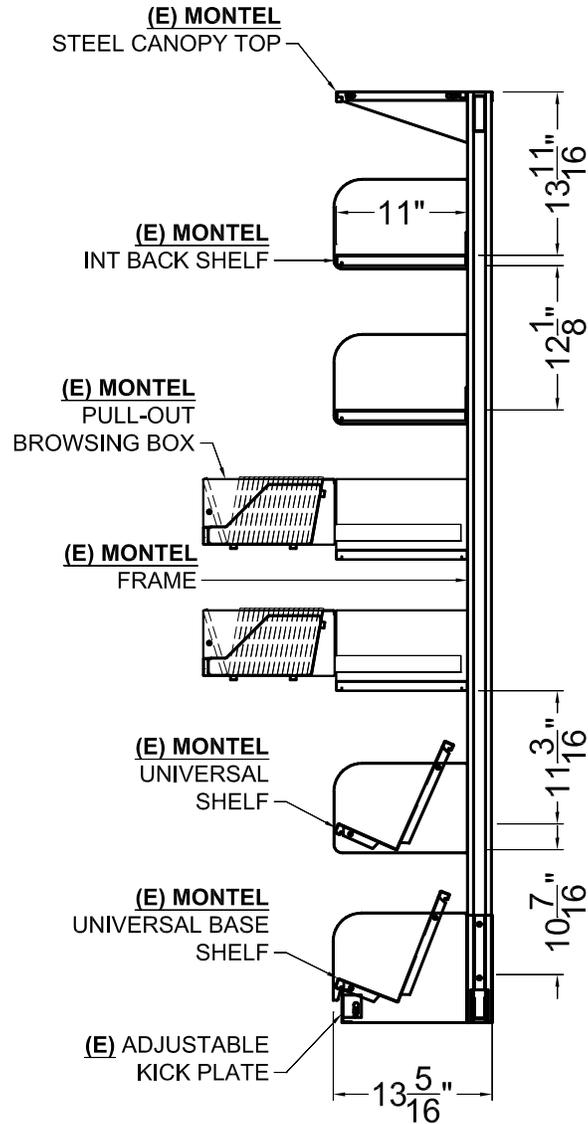
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NO	REVISION	DATE
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DATE:		01-06-17
SCALE:		3/4" = 1'-0"
SHEET:		M-7



- FRONT VIEW -



- SECTION VIEW -

QTY: 1 (36"W)

PROJECT:
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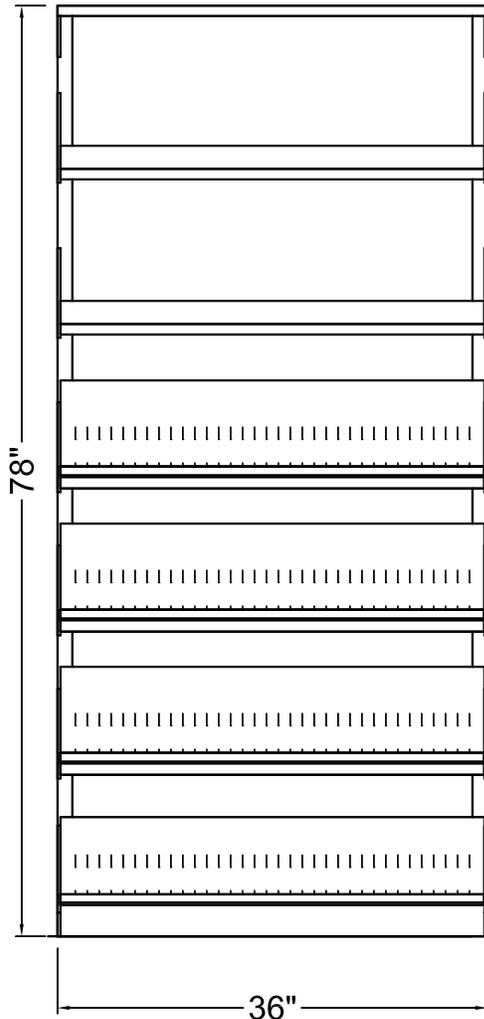
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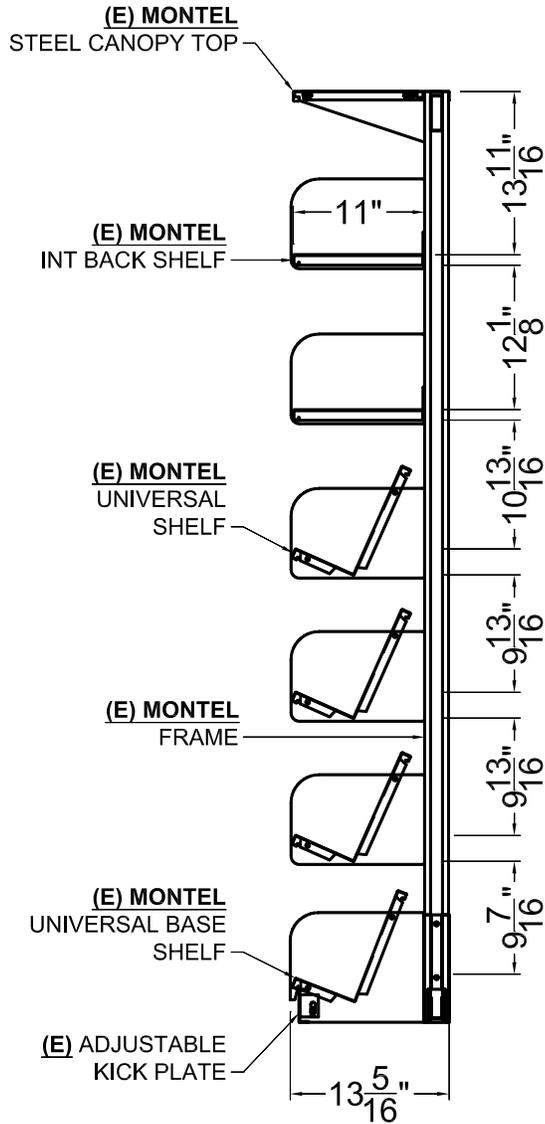
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-	-	-
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:		3/4" = 1'-0"
SHEET:		M-8



- FRONT VIEW -



- SECTION VIEW -

QTY: 1 (36"W)

PROJECT:
ALTADENA LIBRARY

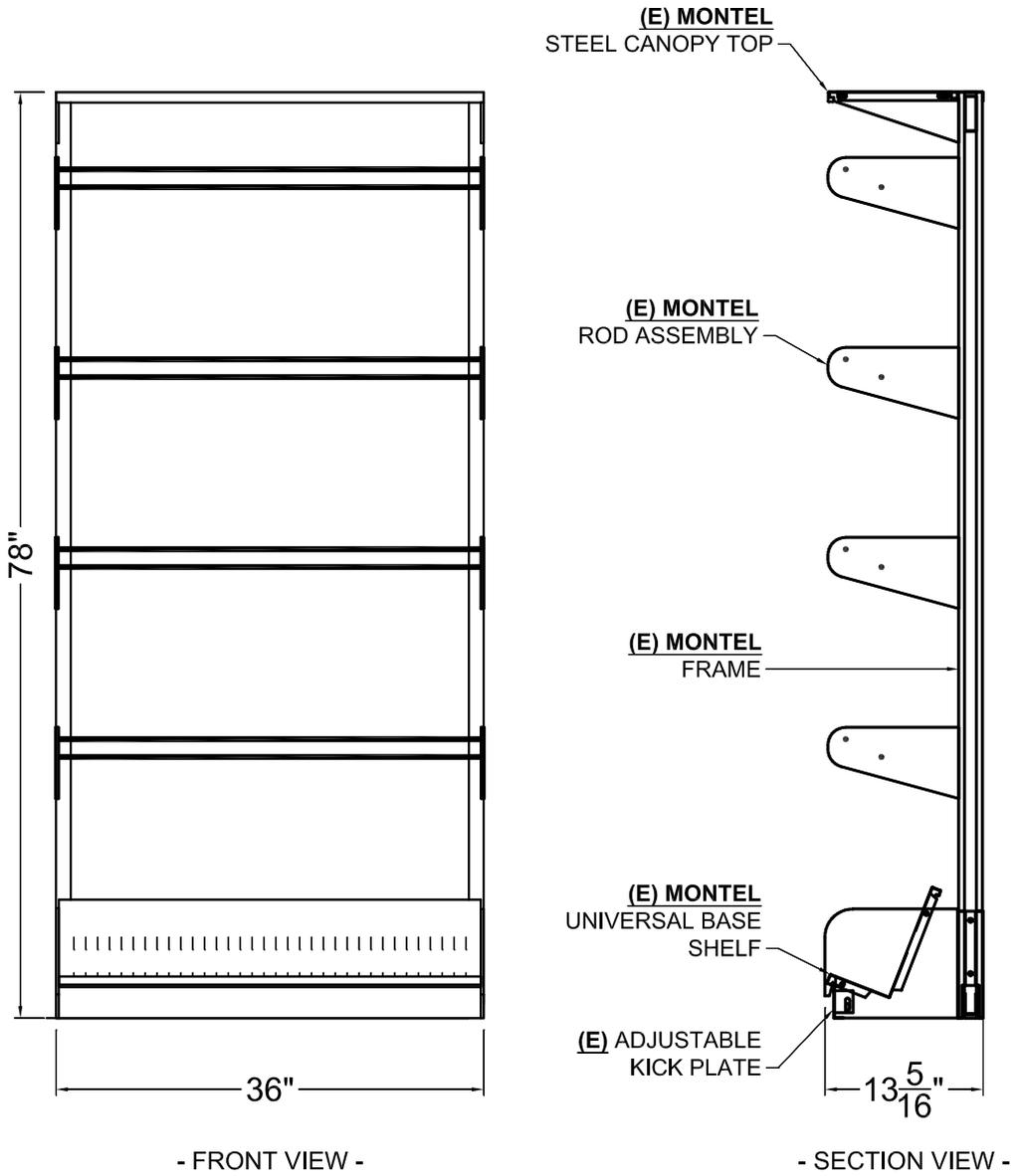
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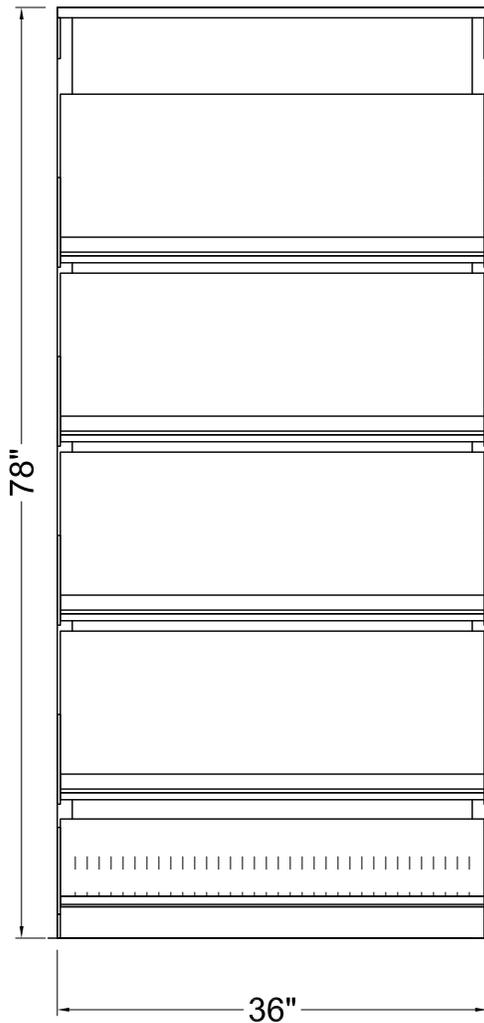
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PROJECT:
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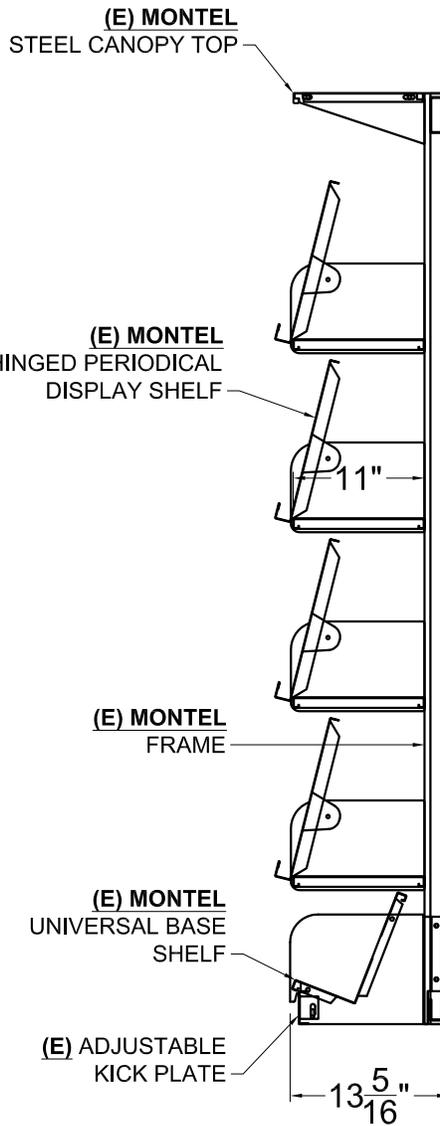
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DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:		3/4" = 1'-0"
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DESCRIPTION:
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- FRONT VIEW -



- SECTION VIEW -

QTY: 1 (36"W)

PROJECT:
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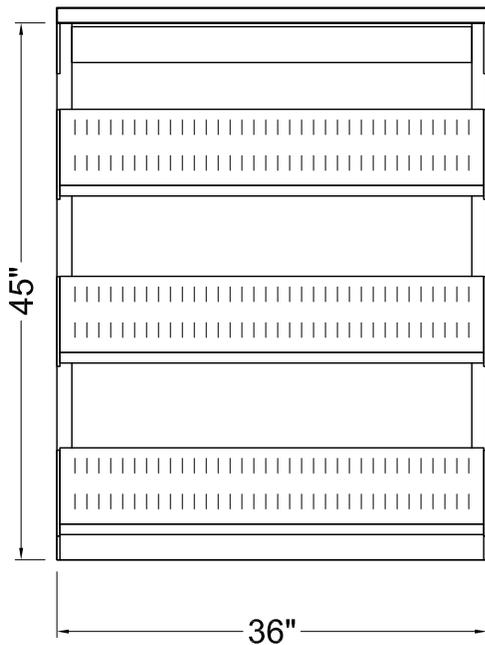
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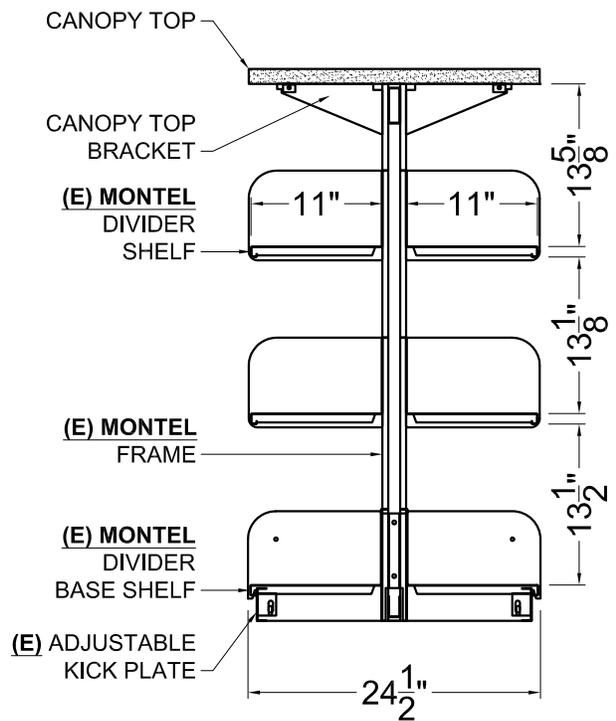
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DRAWN BY:		O.TREJO
DATE:		01-06-17
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- FRONT VIEW -



- SECTION VIEW -

QTY: 7 (36"W)

PROJECT:
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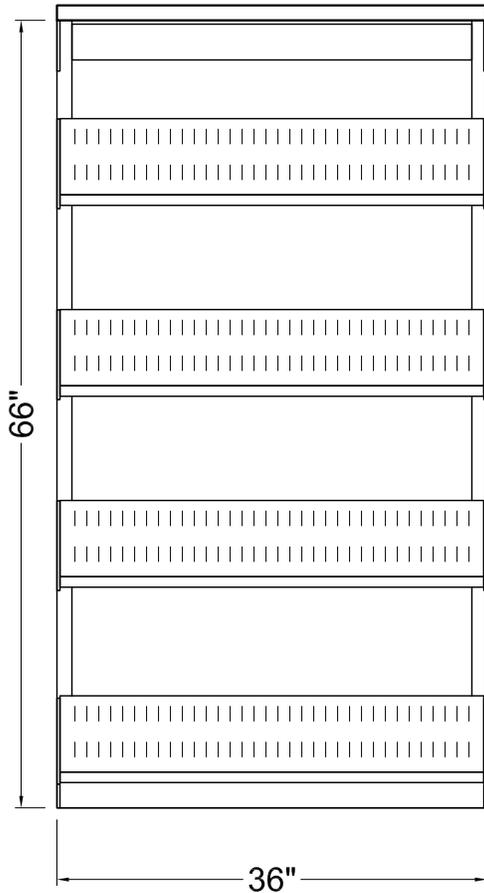
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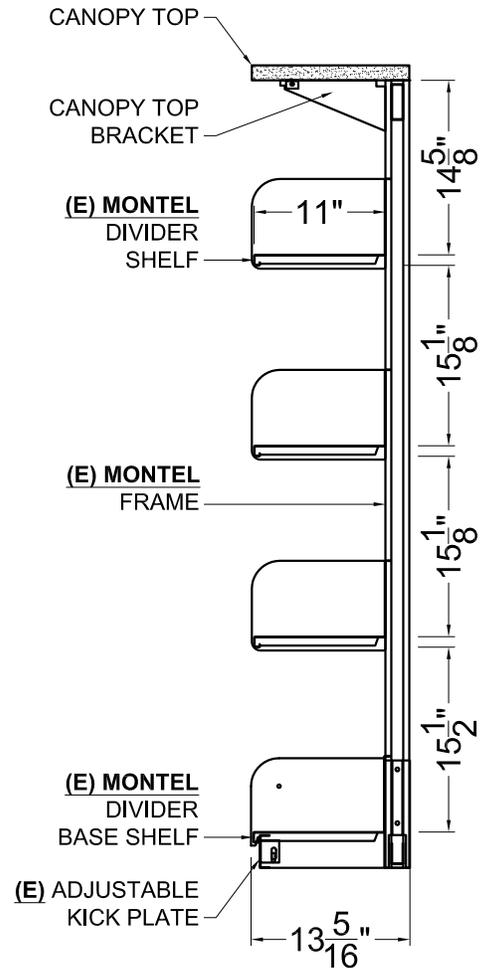
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NO	REVISION	DATE
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-	-	-
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:		3/4" = 1'-0"
SHEET:		M-12



- FRONT VIEW -



- SECTION VIEW -

QTY: 4 (36"W)

PROJECT:
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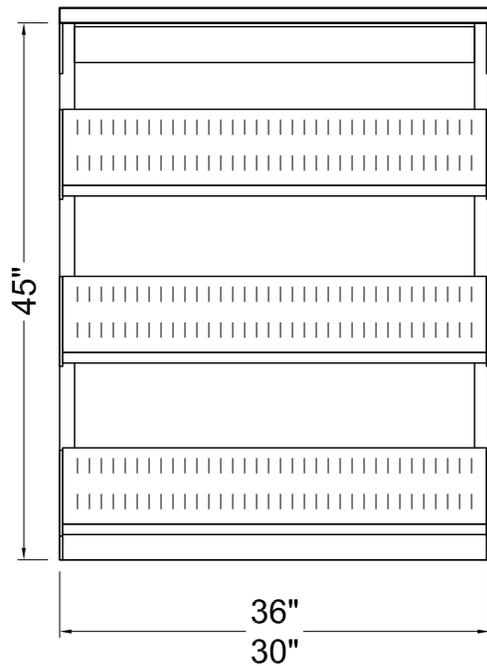
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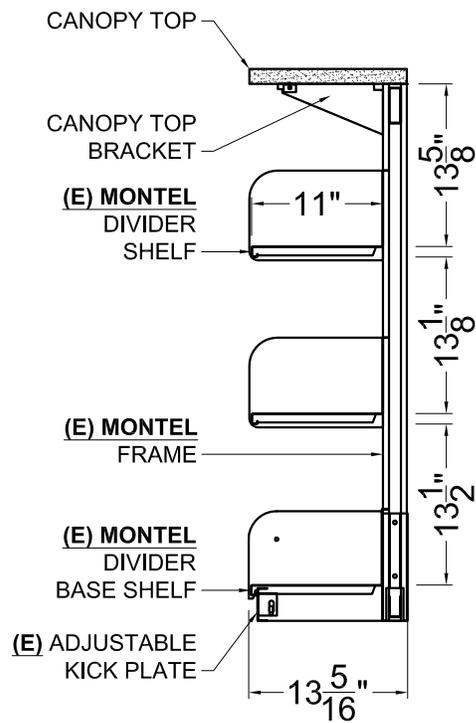
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NO	REVISION	DATE
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DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:		3/4" = 1'-0"
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- FRONT VIEW -



- SECTION VIEW -

QTY: 2 (36"W)

QTY: 1 (30"W)

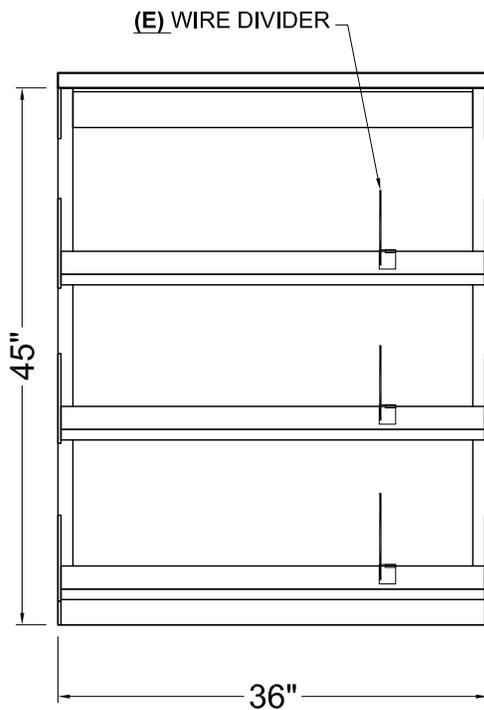
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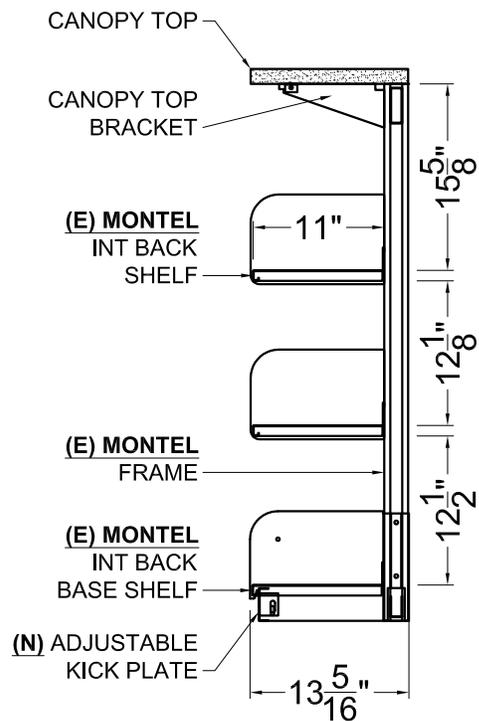
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NO	REVISION	DATE
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DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:		3/4" = 1'-0"
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- FRONT VIEW -



- SECTION VIEW -

QTY: 5 (36"W)

PROJECT:
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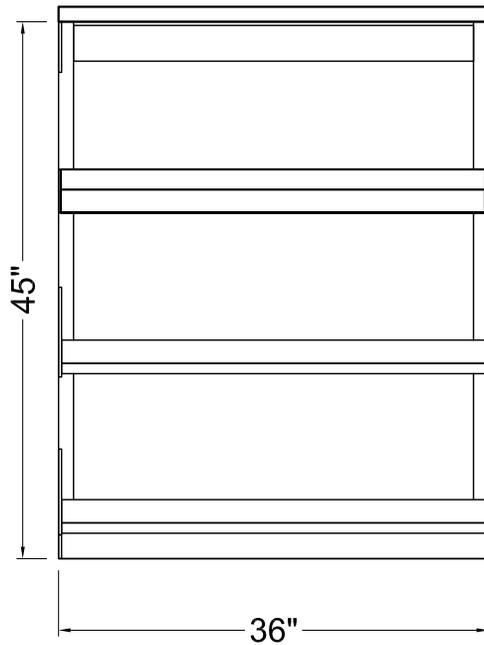
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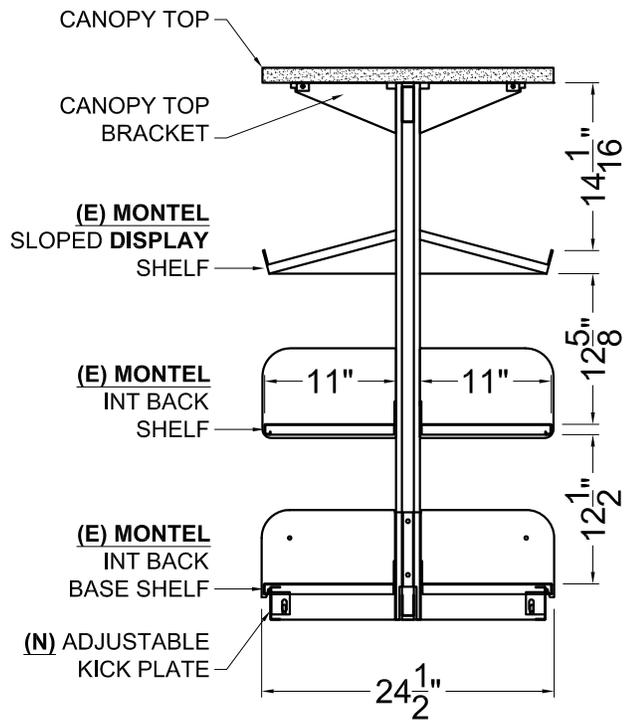
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NO	REVISION	DATE
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- FRONT VIEW -



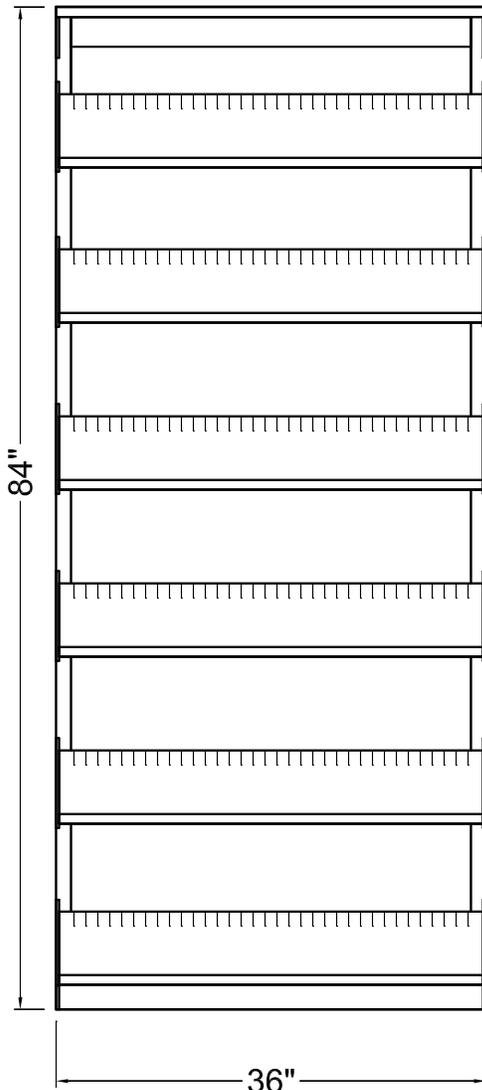
- SECTION VIEW -

QTY: 4 (36"W)

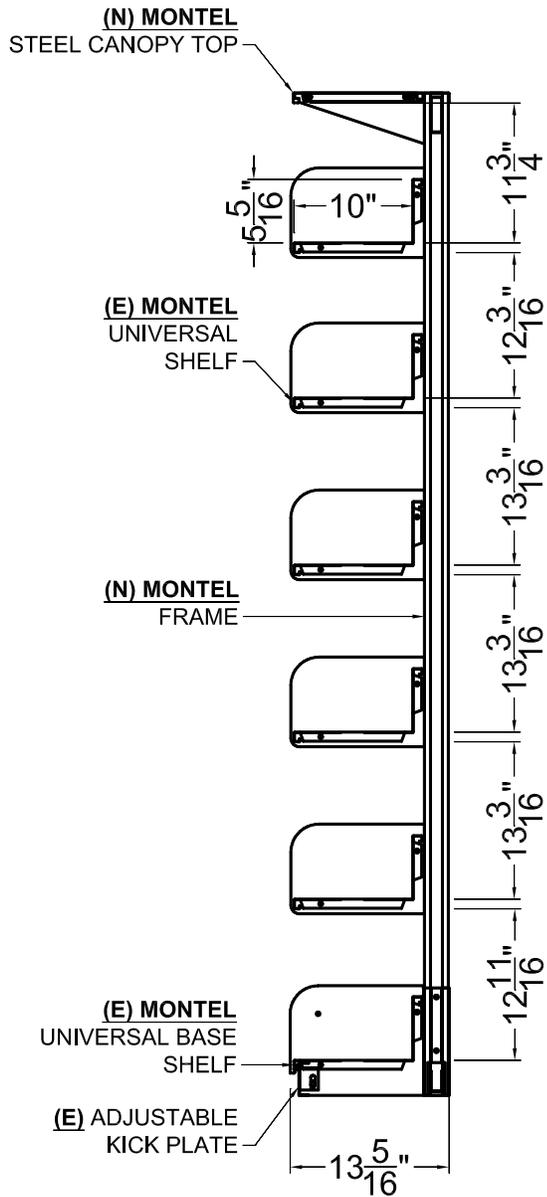
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-	-	-
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:	SHEET:	
3/4" = 1'-0"	M-16	



- FRONT VIEW -



- SECTION VIEW -

QTY: 3 (36"W)

PROJECT:

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DESCRIPTION:

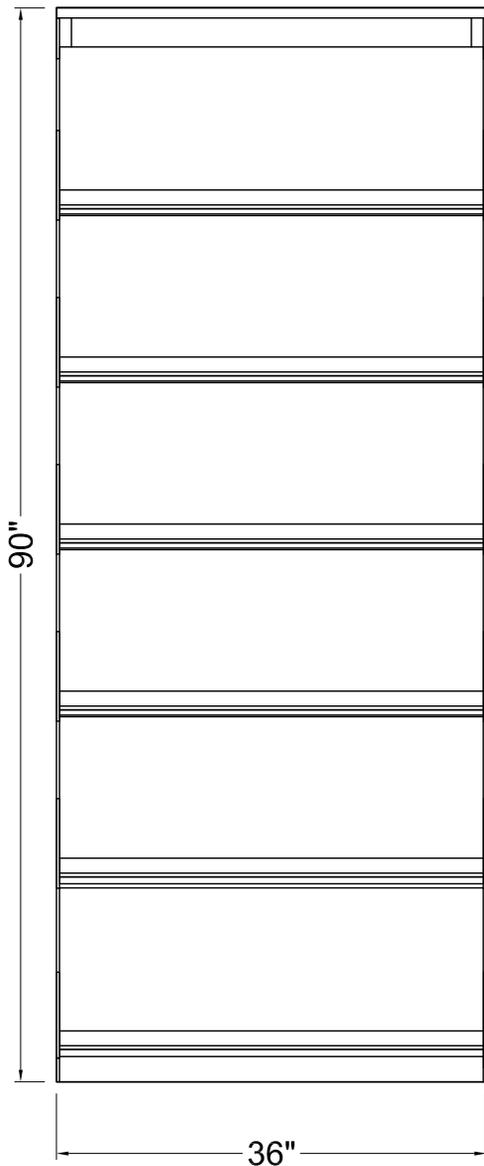
MONTEL BOOKSTACK TYPE: M-17



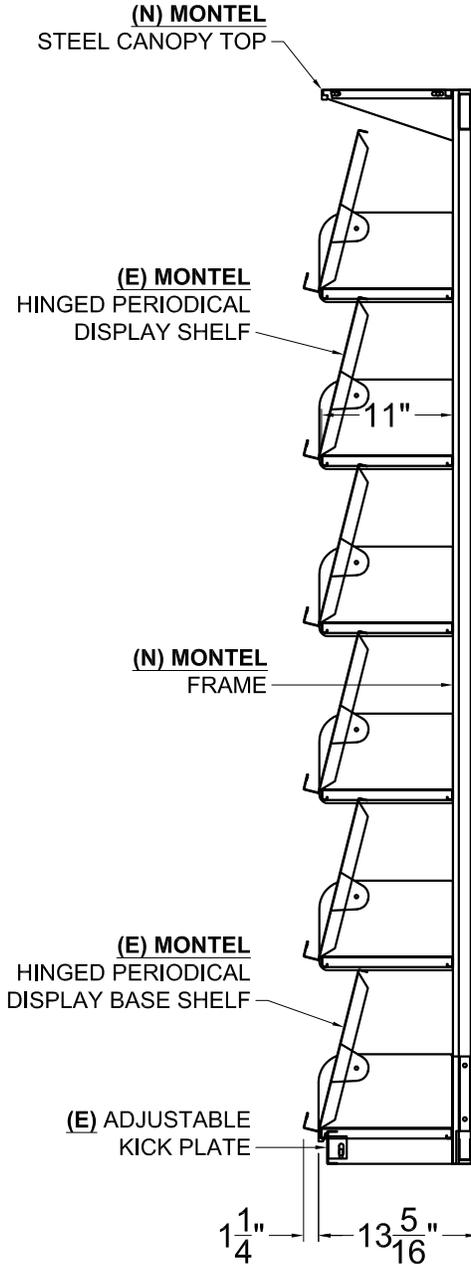
YAMADA
ENTERPRISES
LIBRARY INTERIORS

16552 Burke Lane Huntington Beach, CA 92647
(800) 444-4594 FAX (714) 843-9202

NO	REVISION	DATE
1	CONFIG.	01-10-17
-	-	-
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:		3/4" = 1'-0"
SHEET:		M-17



- FRONT VIEW -



- SECTION VIEW -

QTY: 6 (36"W)

PROJECT:
ALTADENA LIBRARY

DESCRIPTION:
MONTEL BOOKSTACK TYPE: M-18

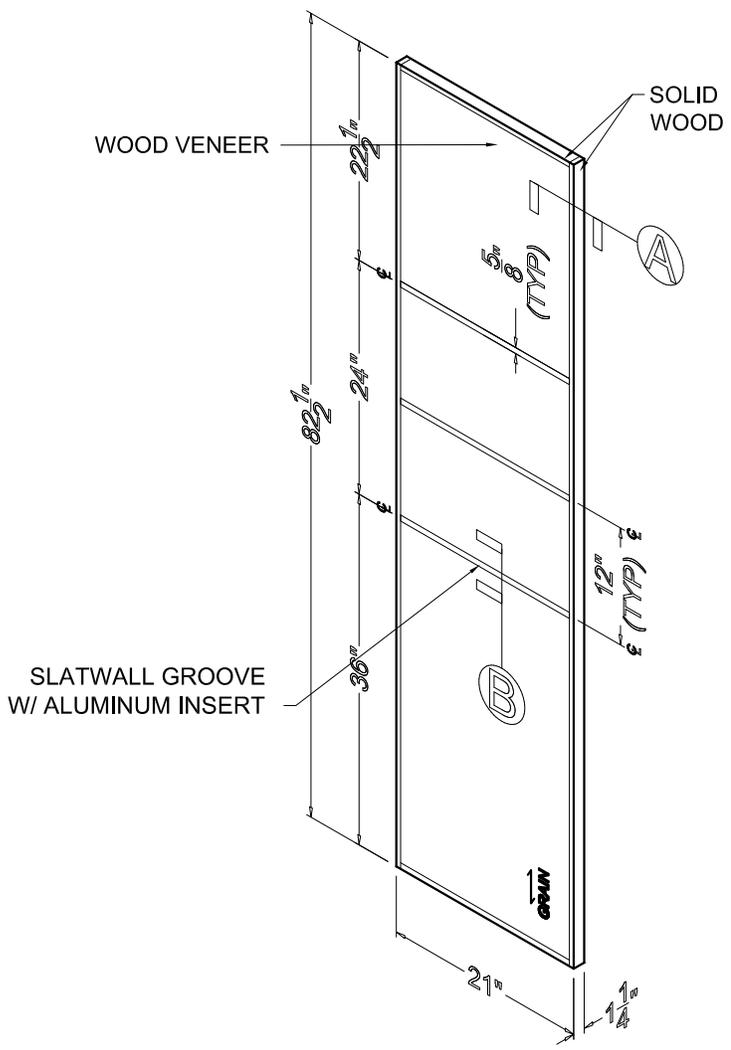


YAMADA

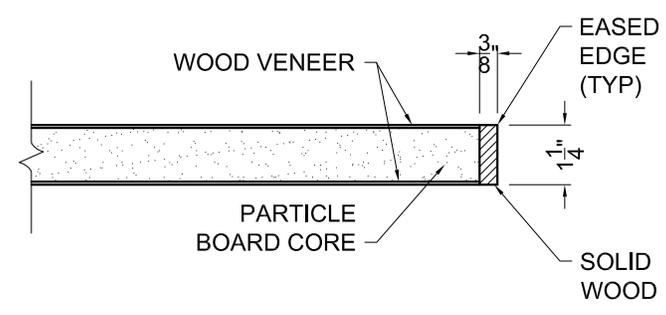
ENTERPRISES
LIBRARY INTERIORS

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(800) 444-4594 FAX (714) 843-9202

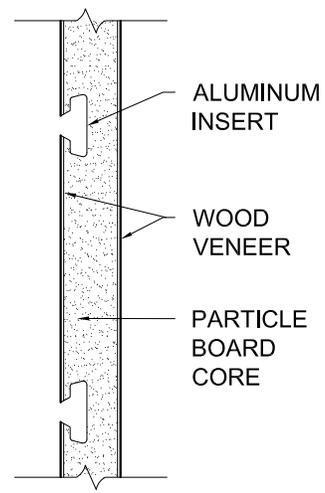
NO	REVISION	DATE
-	-	-
-	-	-
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:		3/4" = 1'-0"
SHEET:		M-18



3D VIEW



A **DETAIL**
SCALE: 3"=1'-0"



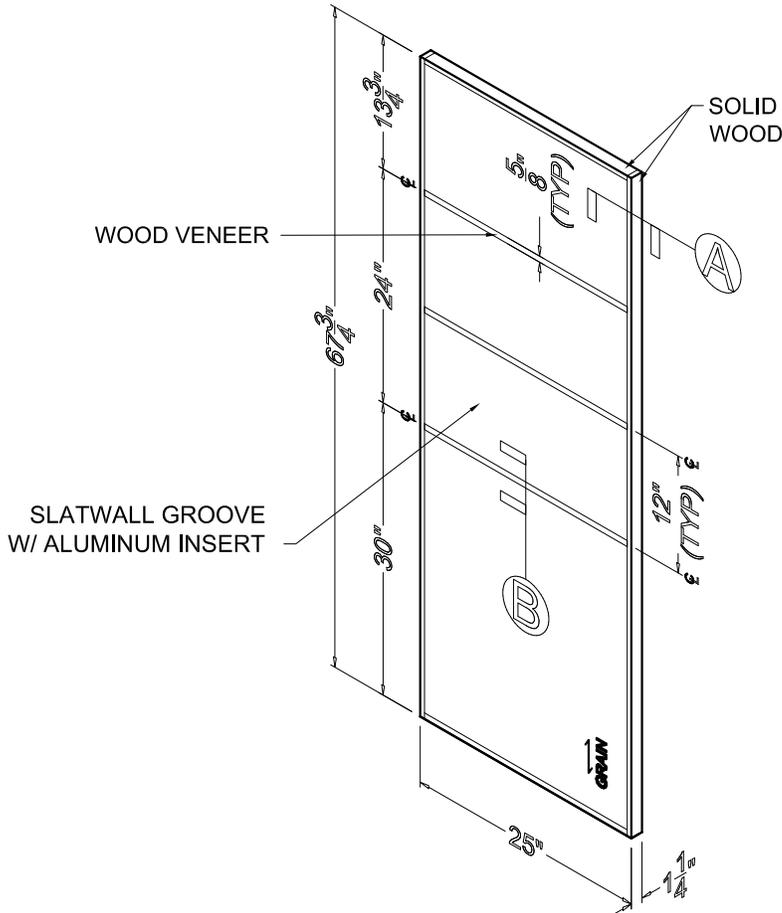
B **DETAIL**
SCALE: 3"=1'-0"

ITEM	QTY
①	20

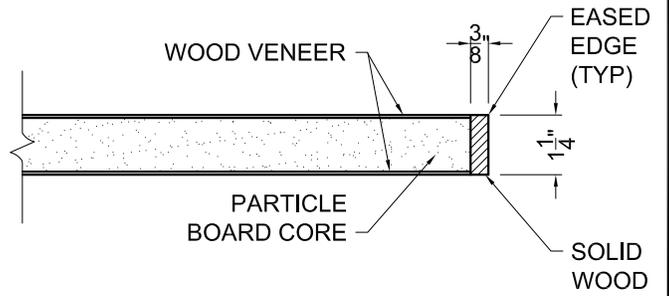
PROJECT:	ALTADENA LIBRARY
DESCRIPTION:	SLATWALL END PANEL TYPE: 1


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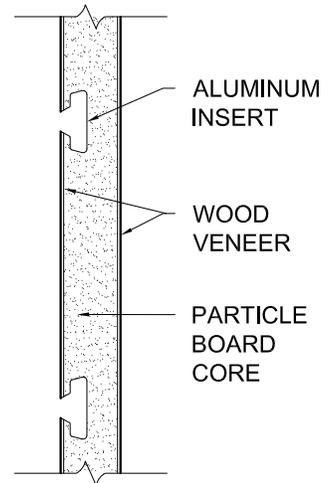
NO	REVISION	DATE
1	SLATWALL	01-10-17
-	-	-
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:		3/4" = 1'-0"
SHEET:		SW-EP(1)



3D VIEW



A **DETAIL**
SCALE: 3"=1'-0"



B **DETAIL**
SCALE: 3"=1'-0"

ITEM	QTY
②	8

PROJECT:
ALTADENA LIBRARY

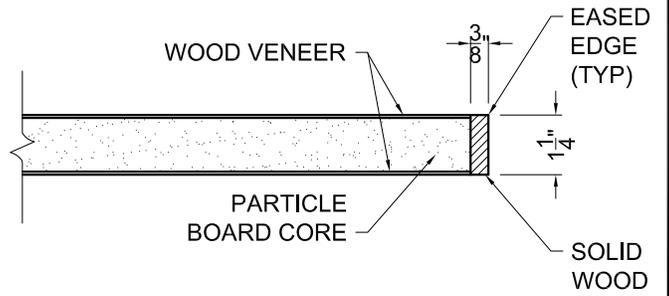
DESCRIPTION:
SLATWALL END PANEL TYPE: 2



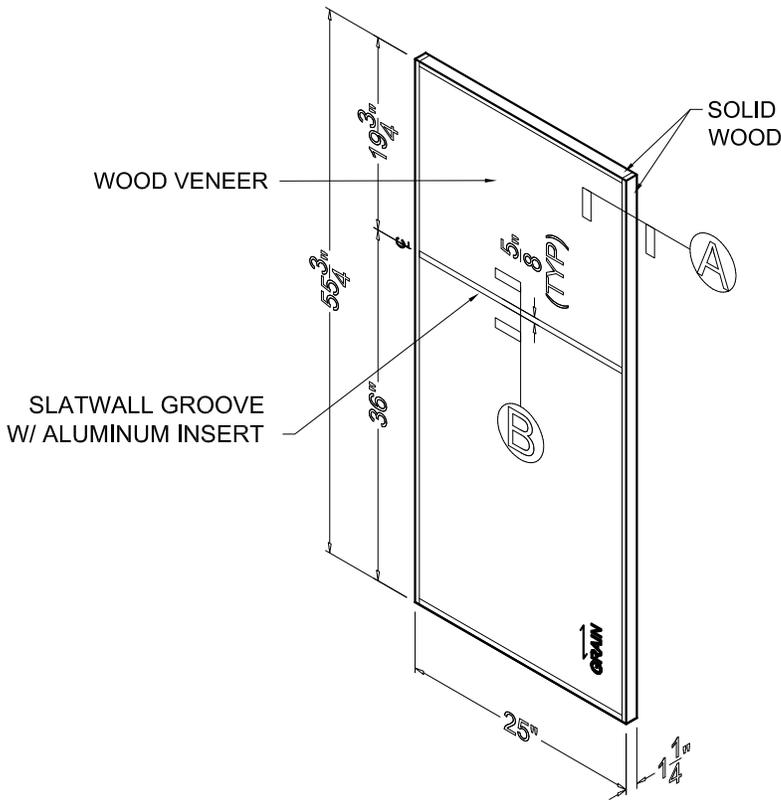
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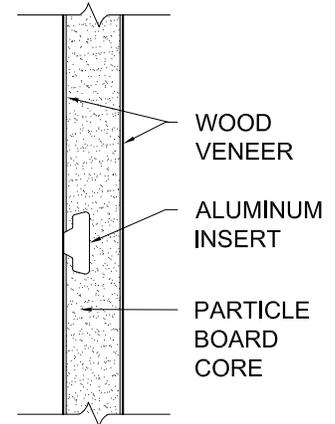
NO	REVISION	DATE
1	SLATWALL	01-10-17
-	-	-
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:		3/4" = 1'-0"
SHEET:		SW-EP(2)



A DETAIL
SCALE: 3"=1'-0"



3D VIEW



B DETAIL
SCALE: 3"=1'-0"

ITEM	QTY
③	6

PROJECT:
ALTADENA LIBRARY

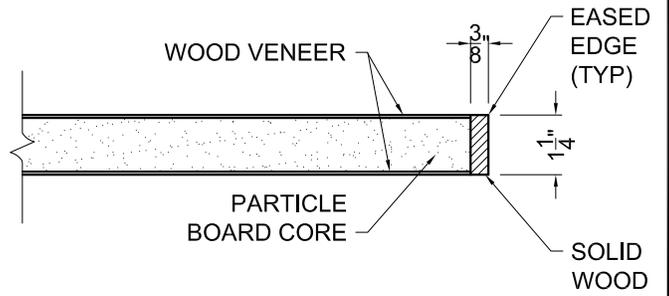
DESCRIPTION:
SLATWALL END PANEL TYPE: 3



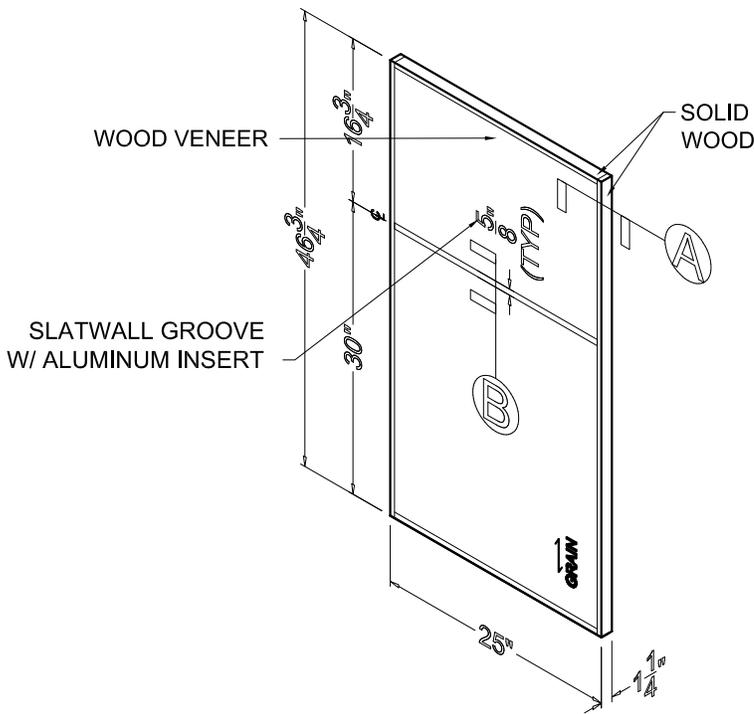
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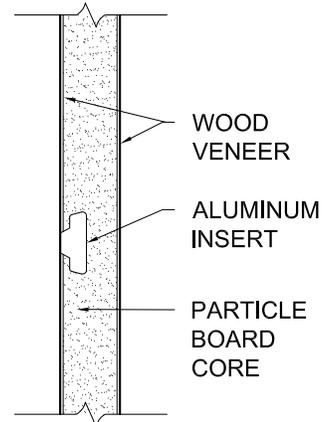
NO	REVISION	DATE
-	-	-
-	-	-
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:		3/4" = 1'-0"
SHEET:		SW-EP(3)



(A) DETAIL
SCALE: 3"=1'-0"



3D VIEW



(B) DETAIL
SCALE: 3"=1'-0"

ITEM	QTY
④	8

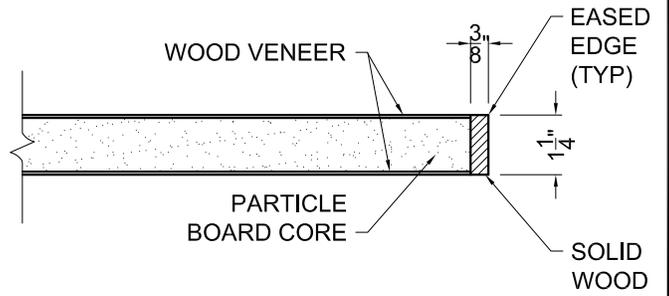
PROJECT:	ALTADENA LIBRARY
DESCRIPTION:	SLATWALL END PANEL TYPE: 4



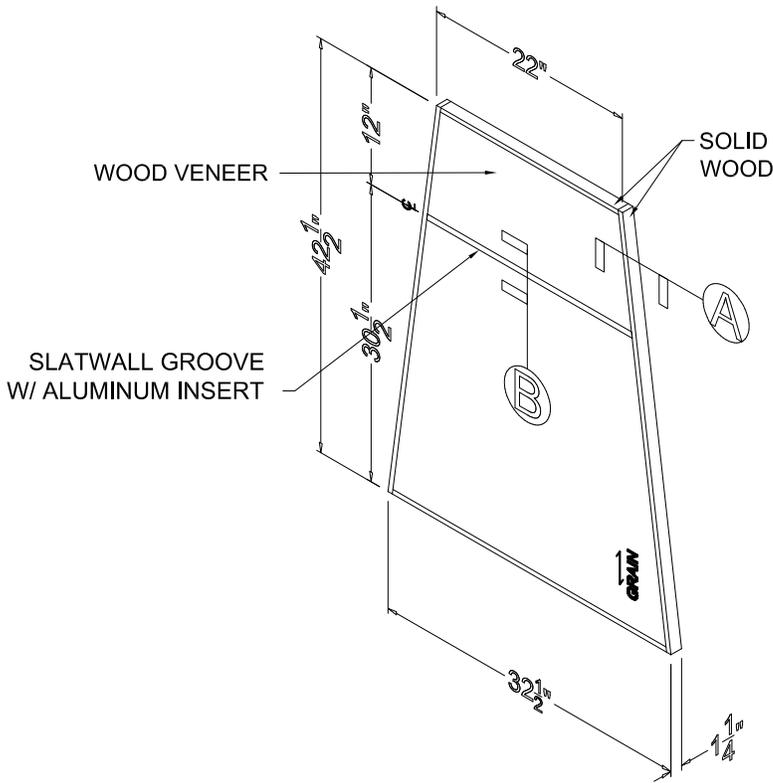
YAMADA
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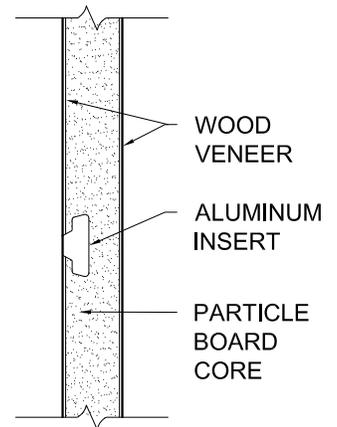
NO	REVISION	DATE
1	SLATWALL	01-10-17
-	-	-
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:	SHEET:	
3/4" = 1'-0"	SW-EP(4)	



A DETAIL
SCALE: 3"=1'-0"



3D VIEW



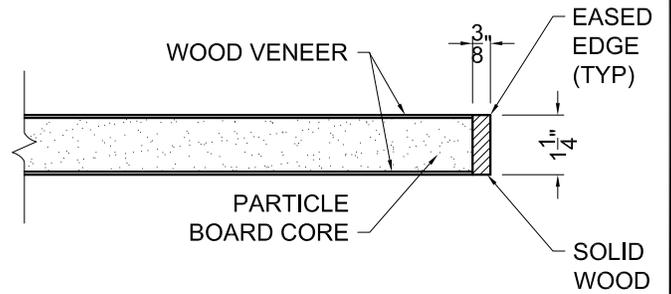
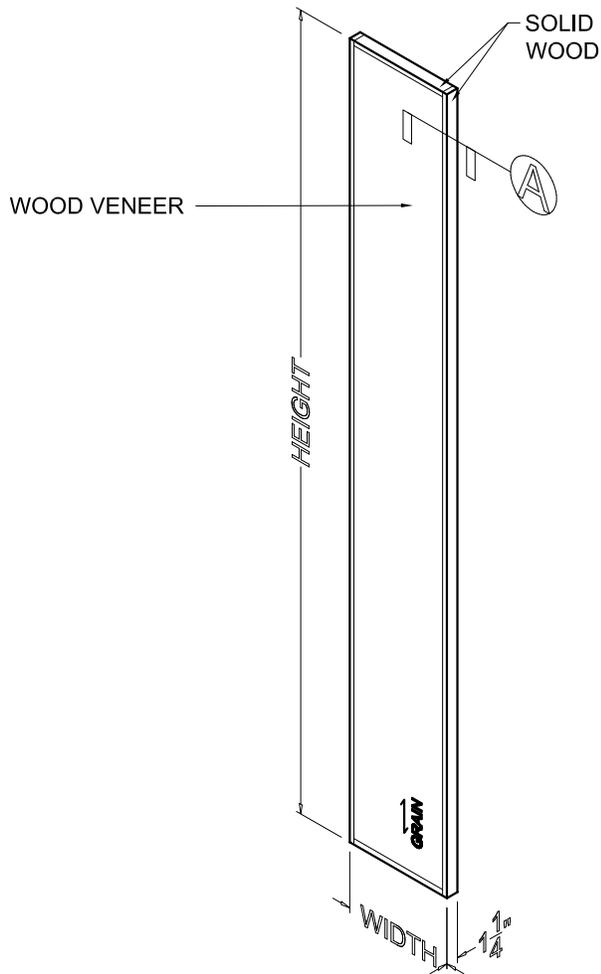
B DETAIL
SCALE: 3"=1'-0"

ITEM	QTY
5	30

PROJECT:	ALTADENA LIBRARY
DESCRIPTION:	SLATWALL END PANEL TYPE: 5


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NO	REVISION	DATE
-	-	-
-	-	-
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:	SHEET:	
3/4" = 1'-0"	SW-EP(5)	



A **DETAIL**
SCALE: 3"=1'-0"

3D VIEW

ITEM	QTY	WIDTH x HEIGHT
7	2	15 1/2" x 90 1/2"
8	2	13 1/2" x 84 1/2"
9	4	11 1/2" x 82 1/2"
10	2	14 1/4" x 78 1/2"
11	6	13 1/2" x 78 1/2"
12	1	14 1/4" x 67 3/4"
13	2	13 1/2" x 67 3/4"
14	3	13 1/2" x 46 3/4"

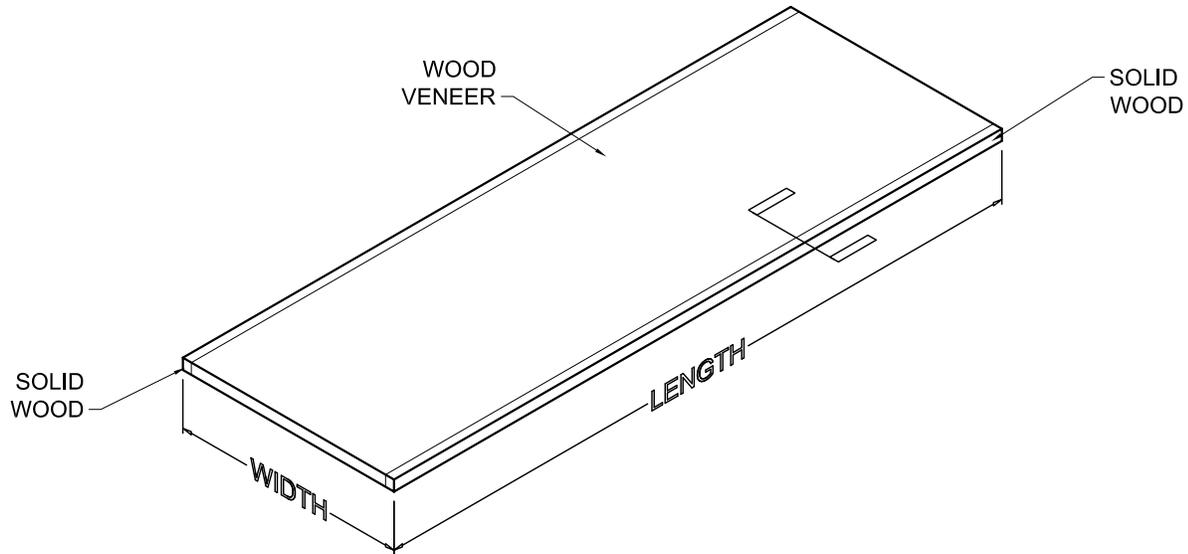
PROJECT:	ALTADENA LIBRARY
DESCRIPTION:	END PANEL



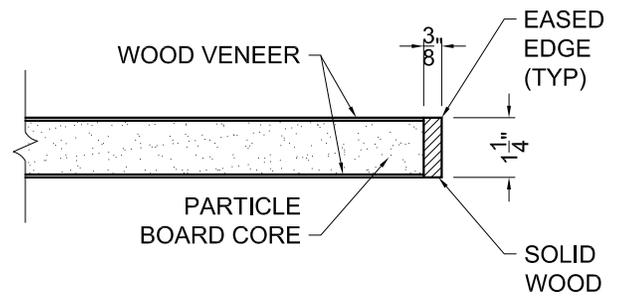
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NO	REVISION	DATE
-	-	-
-	-	-
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:	SHEET:	
3/4" = 1'-0"	E.P.	



3D VIEW



A DETAIL

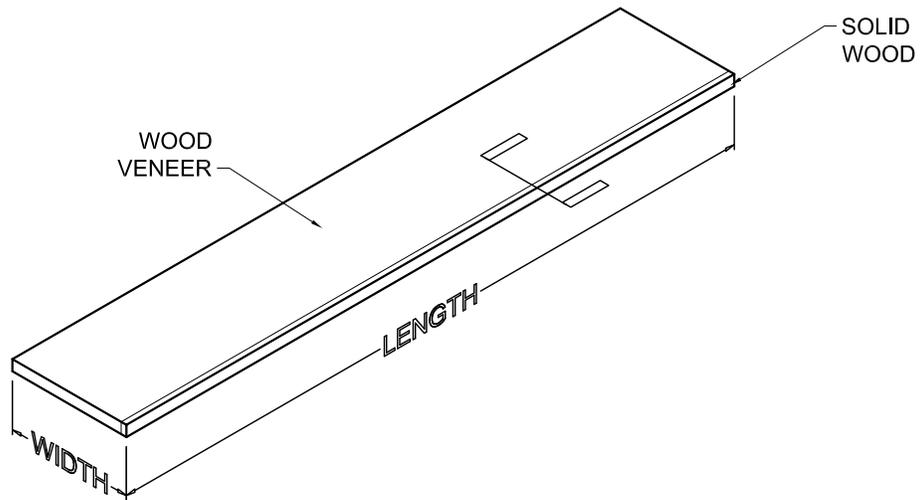
SCALE: 3"=1'-0"

ITEM	QTY	WIDTH x LENGTH
1	1	24 1/2" x 252 5/8"
2	1	24 1/2" x 216 1/2"
3	4	24 1/2" x 180 1/8"
4	2	24 1/2" x 144 3/8"
5	3	24 1/2" x 108 3/8"

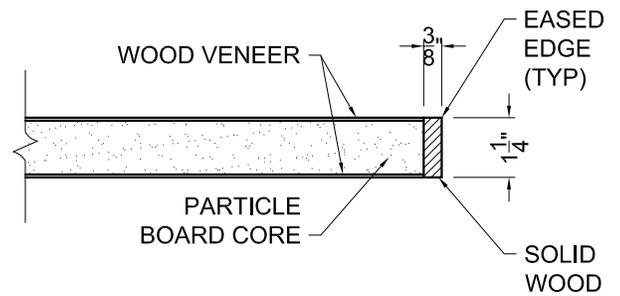
PROJECT:	ALTADENA LIBRARY
DESCRIPTION:	CANOPY TOP TYPE: 1


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NO	REVISION	DATE
-	-	-
-	-	-
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:	3/4"=1'-0"	SHEET:
		C.T.(1)



3D VIEW



A DETAIL

SCALE: 3"=1'-0"

ITEM	QTY	WIDTH x LENGTH
7	1	14" x 601 1/8"
8	1	13 1/4" x 144 3/8"
9	1	13 1/4" x 108 3/8"
10	1	13 1/4" x 180 1/8"
11	1	13 1/4" x 168 1/8"
12	1	13 1/4" x 102 3/8"
13	1	13 1/4" x 218 5/8"

PROJECT:

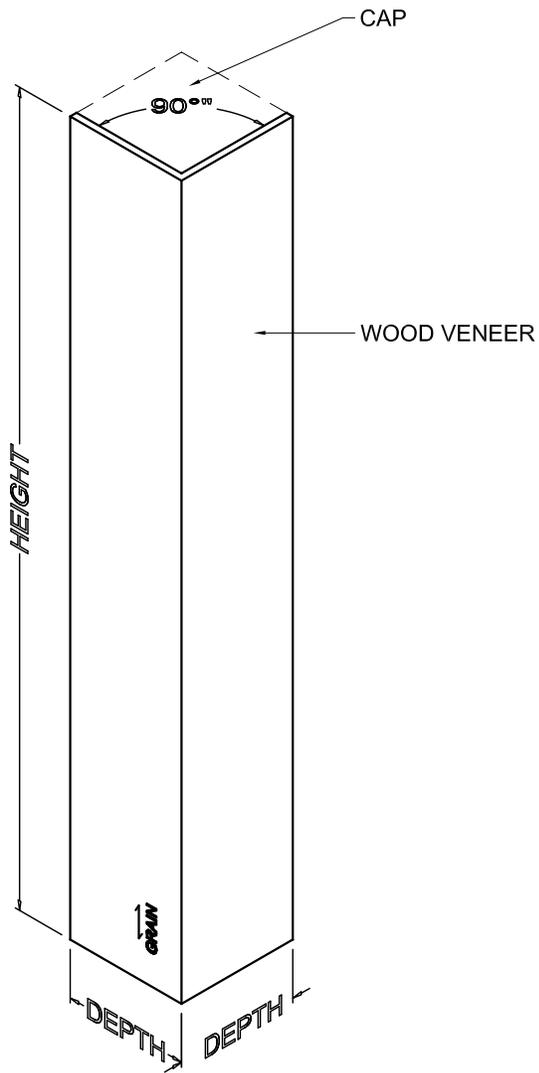
ALTADENA LIBRARY

DESCRIPTION:

CANOPY TOP TYPE: 2


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NO	REVISION	DATE
-	-	-
-	-	-
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:		3/4"=1'-0"
SHEET:		C.T.(2)



3D VIEW

ITEM	QTY	DEPTH x DEPTH x HEIGHT
F1	1	14 1/4" x 11 1/4" x 82 1/4"

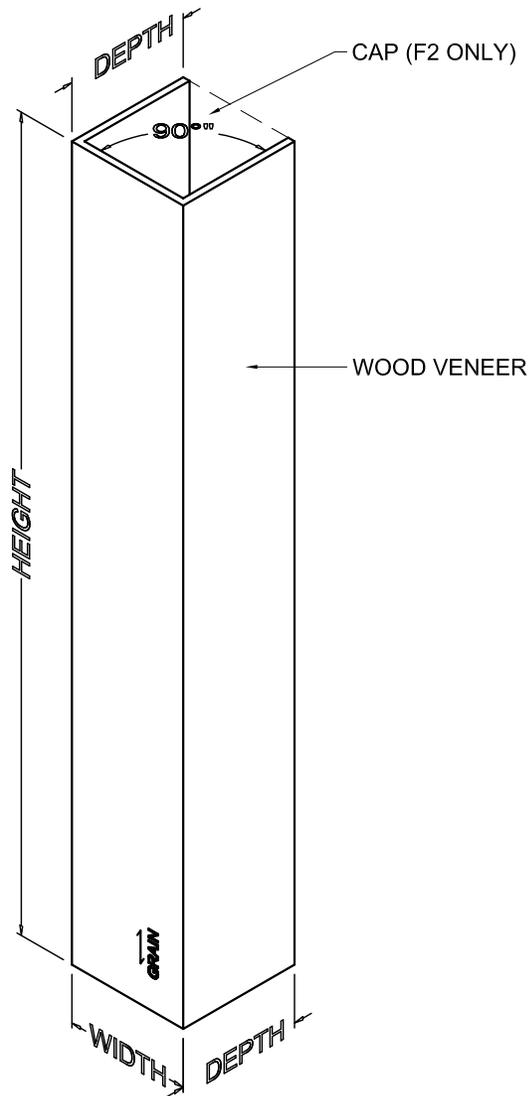
PROJECT:	ALTADENA LIBRARY
DESCRIPTION:	CORNER FILLER



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NO	REVISION	DATE
-	-	-
-	-	-
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:	SHEET:	
3/4"=1'-0"	C.F.	



3D VIEW

ITEM	QTY	DEPTH x WIDTH x DEPTH x HEIGHT
F2	1	13 1/4" x 8" x 13 1/4" x 78 1/2"
F3	1	13 1/4" x 6" x 13 1/4" x 66 1/4"

PROJECT:

ALTADENA LIBRARY

DESCRIPTION:

INTERMEDIATE FILLER

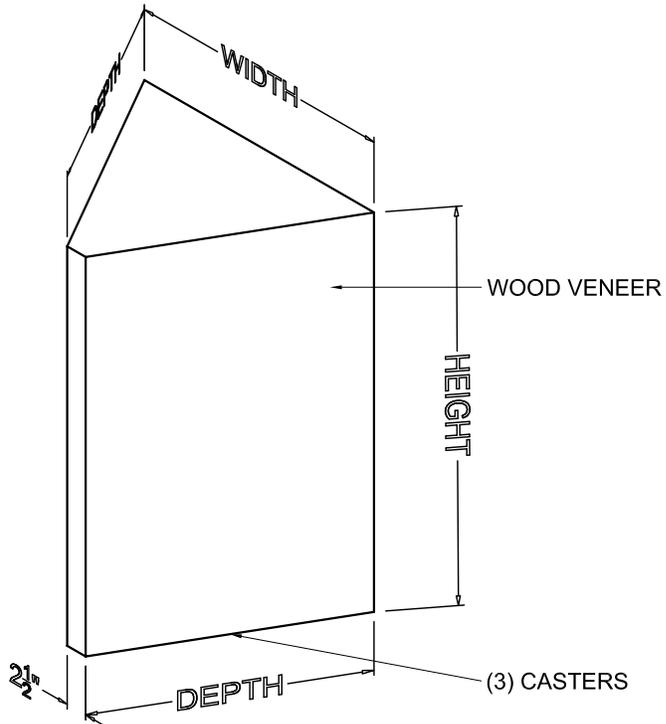


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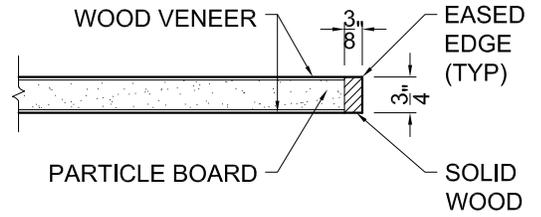
NO	REVISION	DATE
-	-	-
-	-	-
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:		3/4"=1'-0"
SHEET:		I.F.



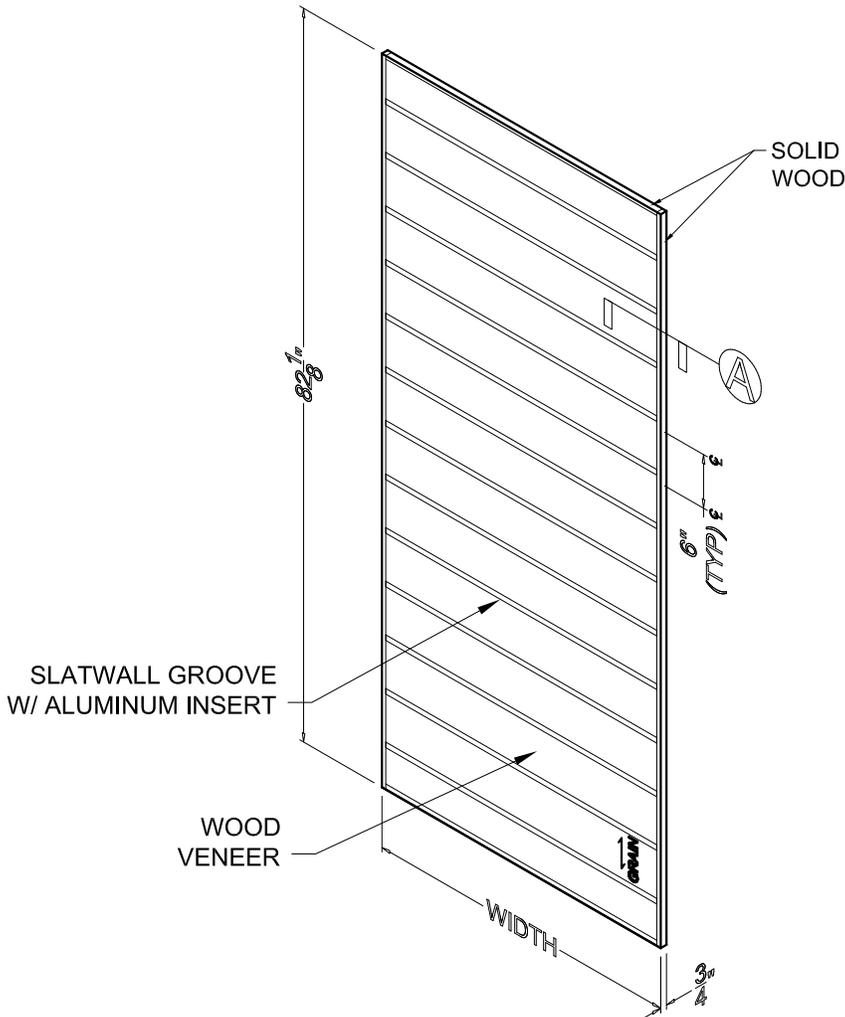
3D VIEW

<u>ITEM</u>	<u>QTY</u>	<u>DEPTH x WIDTH x DEPTH x HEIGHT</u>
F4	4	26 3/4" x 29" x 26 3/4" x 30 1/4"
F5	9	28 3/4" x 31 3/4" x 28 3/4" x 30 1/4"

PROJECT: <h2 style="text-align: center;"><u>ALTADENA LIBRARY</u></h2>	 <h1 style="margin: 0;">YAMADA</h1> <p style="margin: 0;">ENTERPRISES LIBRARY INTERIORS</p> <p style="font-size: small; margin: 0;">16552 Burke Lane Huntington Beach, CA 92647 (800) 444-4594 FAX (714) 843-9202</p>	NO	REVISION	DATE
		1	HEIGHT	01-10-17
DESCRIPTION: <h2 style="text-align: center;">TRIANGULAR FILLER</h2>	DRAWN BY: O.TREJO		DATE: 01-06-17	
	SCALE: 3/4"=1'-0"		SHEET: T.F.	



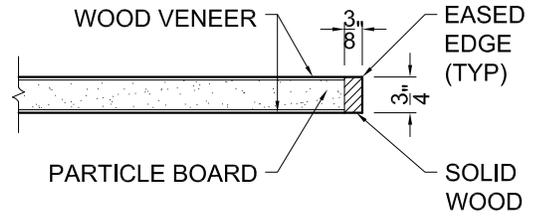
A DETAIL
SCALE: 3"=1'-0"



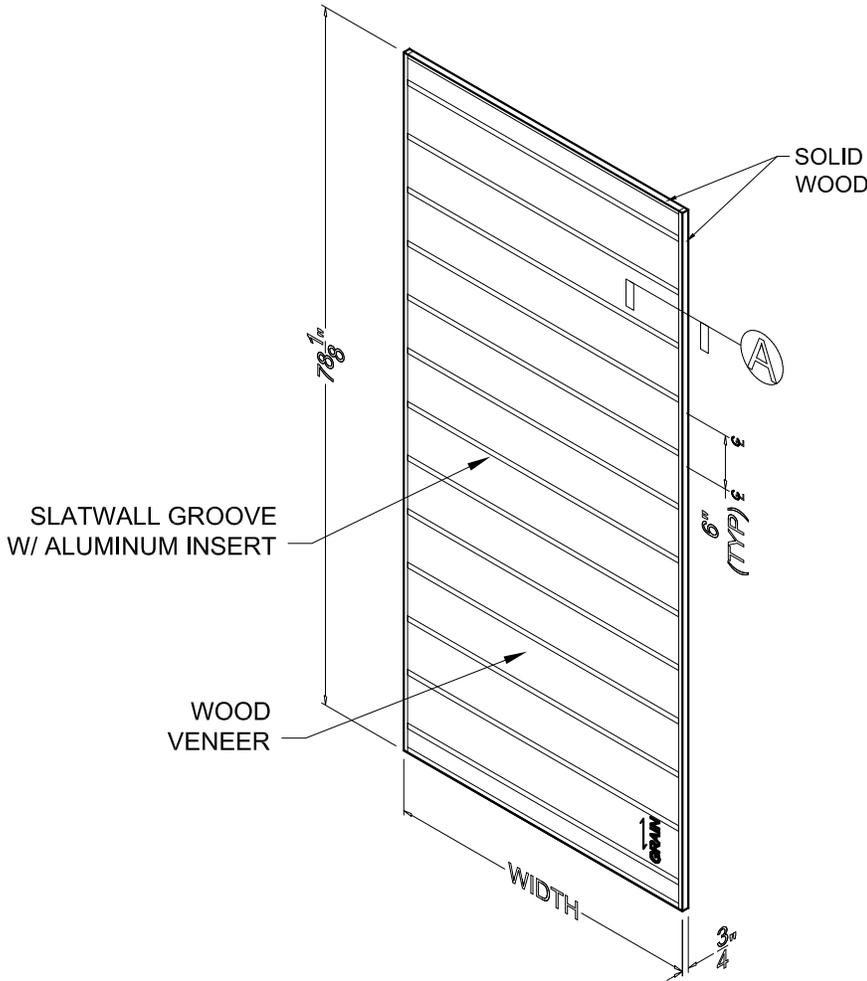
3D VIEW

QTY: 5 (108 3/16"W)
QTY: 1 (60 1/8"W)

PROJECT: ALTADENA LIBRARY	 YAMADA ENTERPRISES LIBRARY INTERIORS 16552 Burke Lane Huntington Beach, CA 92647 (800) 444-4594 FAX (714) 843-9202	NO	REVISION	DATE
		1	SLATWALL	01-10-17
DESCRIPTION: SLATWALL BACK PANEL TYPE: 1		-	-	-
	DRAWN BY:		O.TREJO	
	DATE:		01-06-17	
SCALE:		3/4" = 1'-0"		SHEET:
				SW-BP(1)



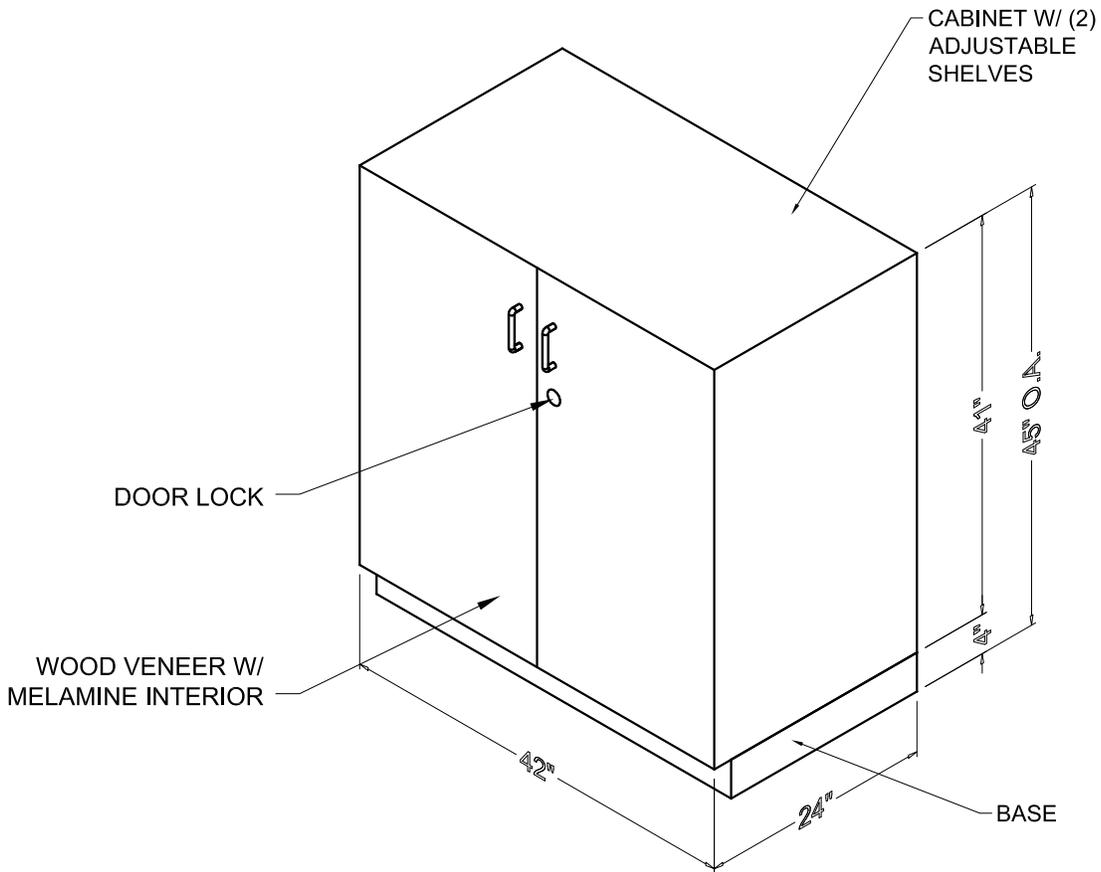
A DETAIL
SCALE: 3"=1'-0"



3D VIEW

- QTY: 1 (108 3/8"W)
- QTY: 1 (80 1/4"W)
- QTY: 1 (72 1/4"W)

PROJECT: ALTADENA LIBRARY	 YAMADA ENTERPRISES LIBRARY INTERIORS <small>16552 Burke Lane Huntington Beach, CA 92647 (800) 444-4594 FAX (714) 843-9202</small>	NO	REVISION	DATE
		1	SLATWALL	01-10-17
DESCRIPTION: SLATWALL BACK PANEL TYPE: 2		-	-	-
	DRAWN BY:		O.TREJO	
	DATE:		01-06-17	
	SCALE:		3/4" = 1'-0"	
		SHEET:		SW-BP(2)



3D VIEW

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QTY: 4

PROJECT:
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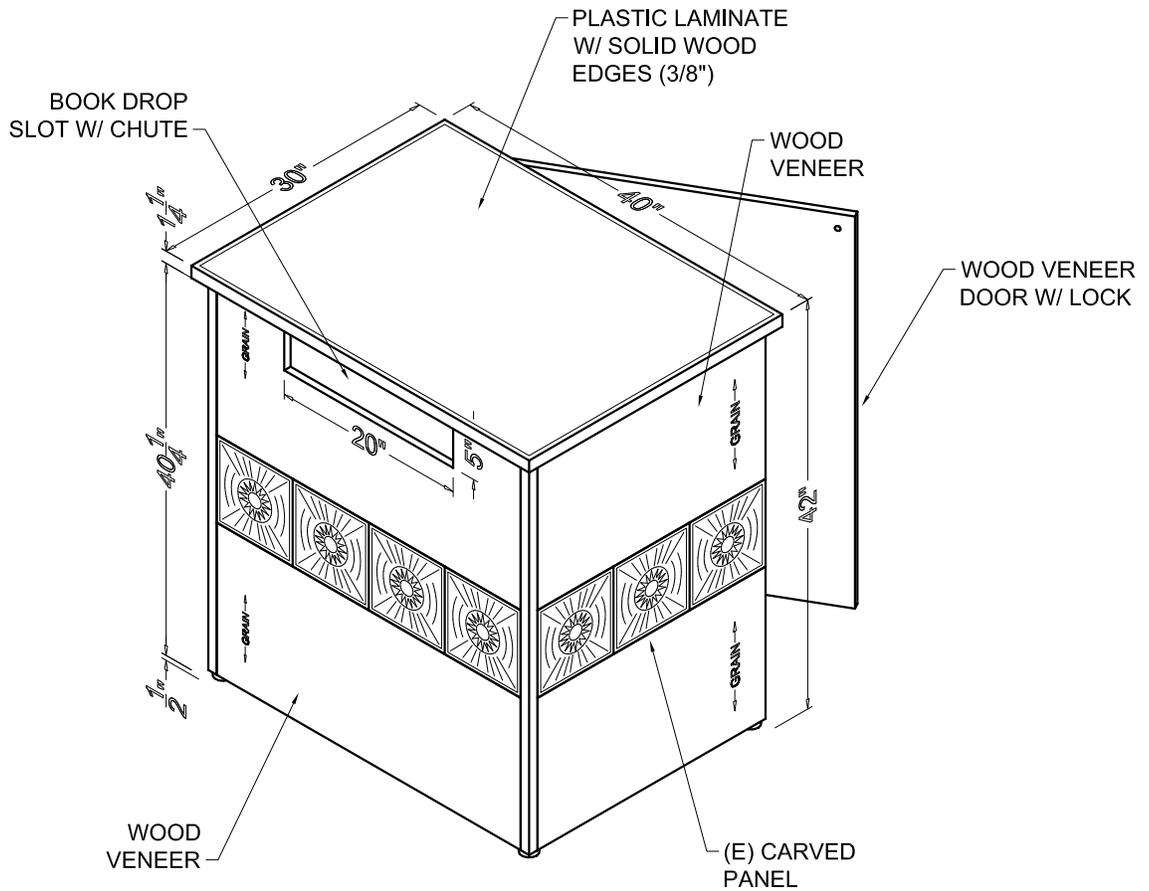
NO	REVISION	DATE
-	-	-
-	-	-

DRAWN BY: O.TREJO
DATE: 01-06-17

DESCRIPTION:
CABINET

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SCALE: 3/4" = 1'-0"	SHEET: CAB.
-------------------------------	-----------------------



3D VIEW - FRONT SIDE

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QTY: 1

PROJECT:
ALTADENA LIBRARY

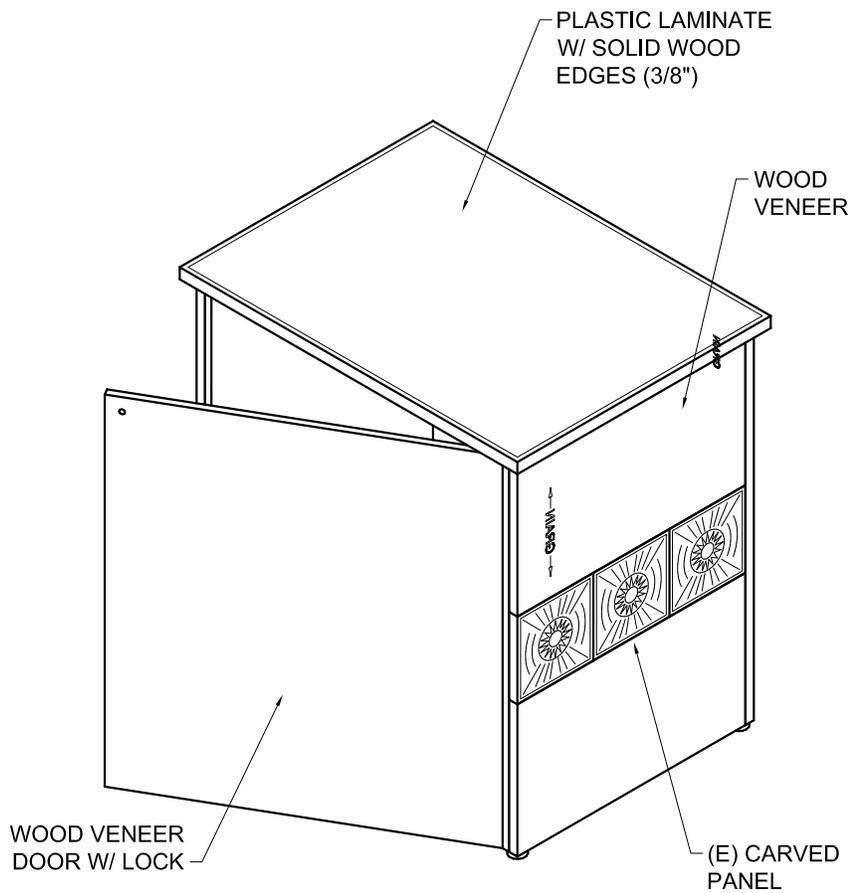
DESCRIPTION:
BOOK RETURN: FRONT VIEW



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NO	REVISION	DATE
1	CHUTE	01-10-17
-	-	-
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:		3/4" = 1'-0"
SHEET:		B.R.(1)



3D VIEW - REAR SIDE

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QTY: 1

PROJECT:
ALTADENA LIBRARY

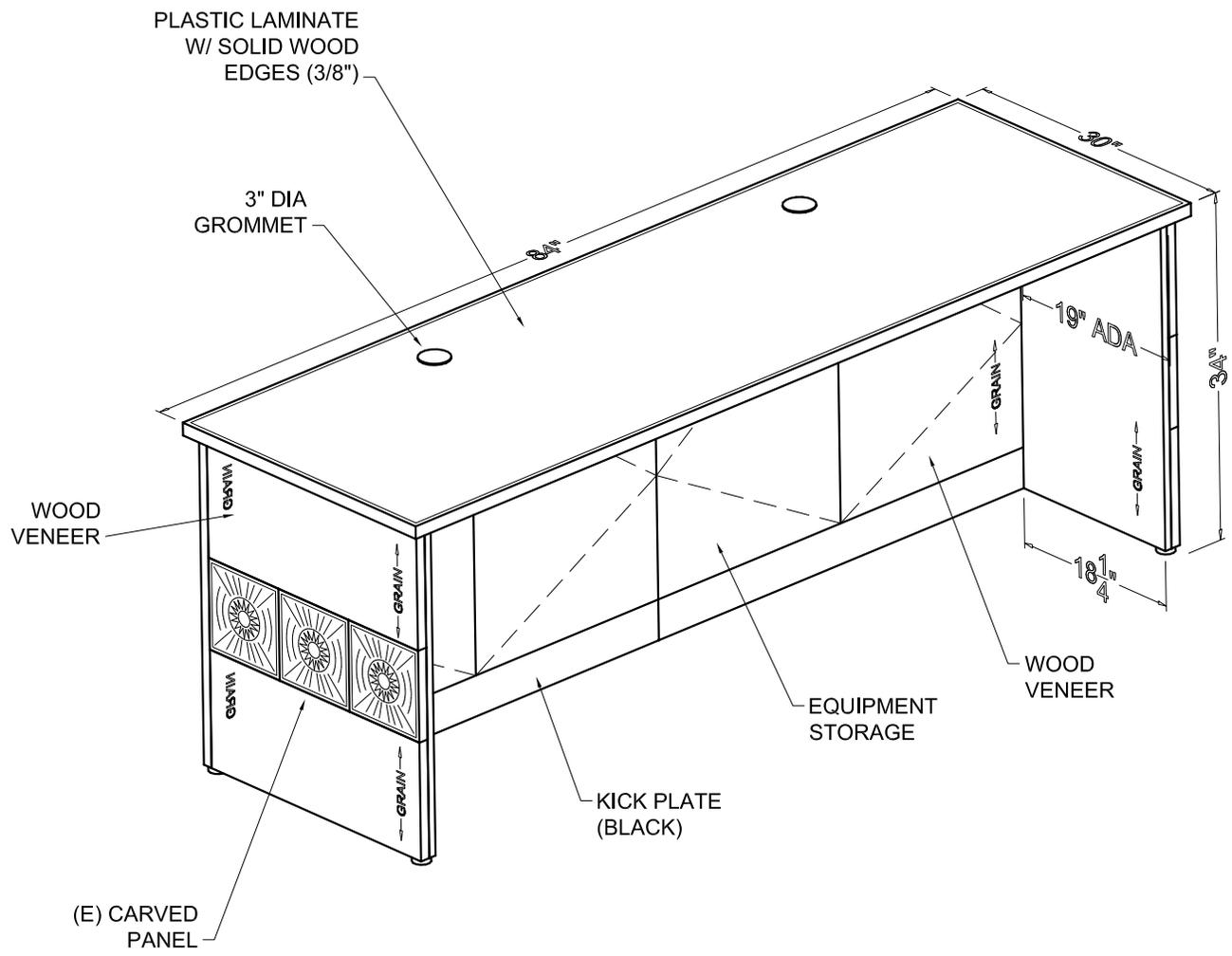
DESCRIPTION:
BOOK RETURN: REAR VIEW



YAMADA
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(800) 444-4594 FAX (714) 843-9202

NO	REVISION	DATE
-	-	-
-	-	-
DRAWN BY:		O.TREJO
DATE:		01-10-17
SCALE:		3/4" = 1'-0"
SHEET:		B.R.(2)



3D VIEW - FRONT SIDE

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QTY: 1

PROJECT:	ALTADENA LIBRARY
DESCRIPTION:	SELF CHECKOUT STATION

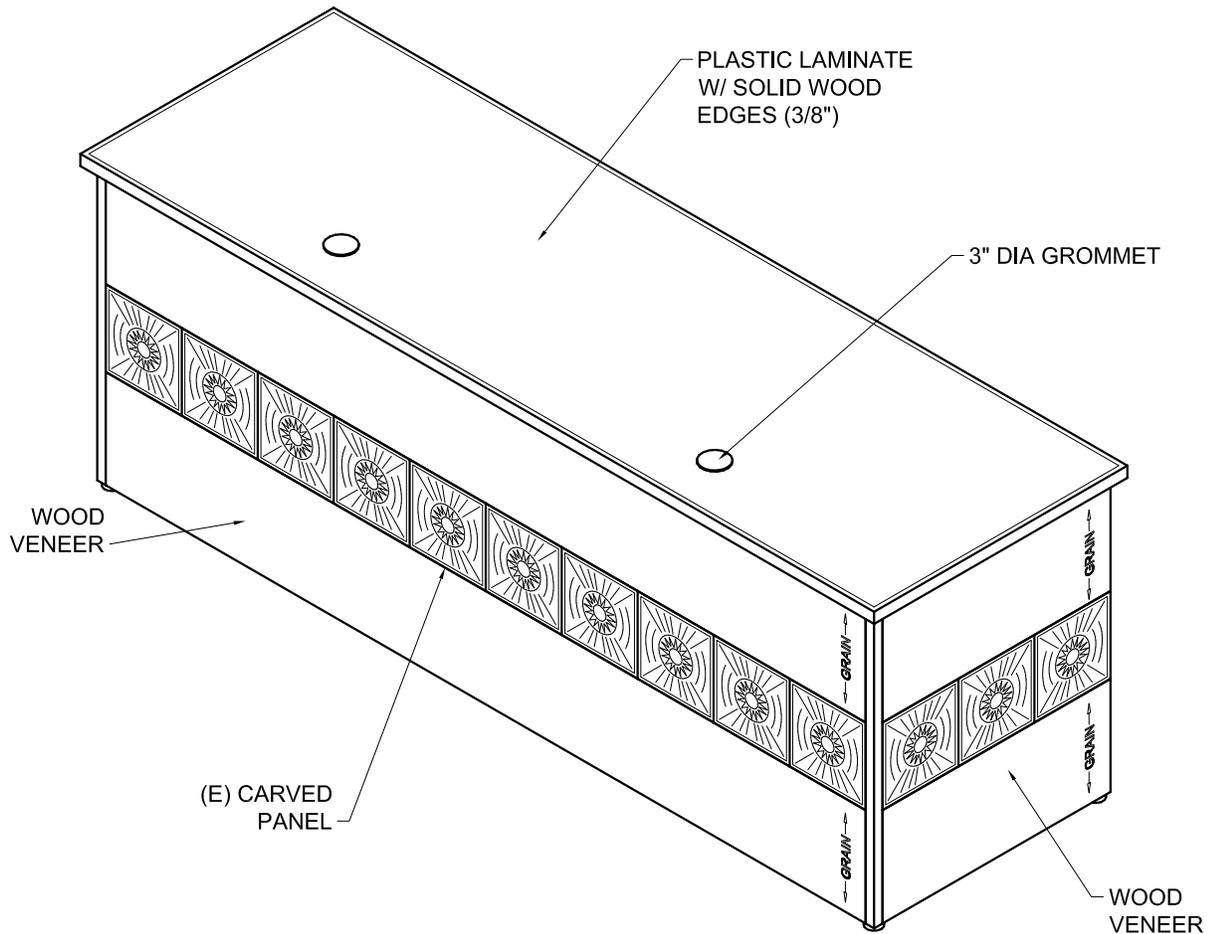


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NO	REVISION	DATE
1	LENGTH	01-10-16
-	-	-
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:		3/4" = 1'-0"
SHEET:		S.C.S.(1)



3D VIEW - REAR SIDE

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QTY: 1

PROJECT:
ALTADENA LIBRARY

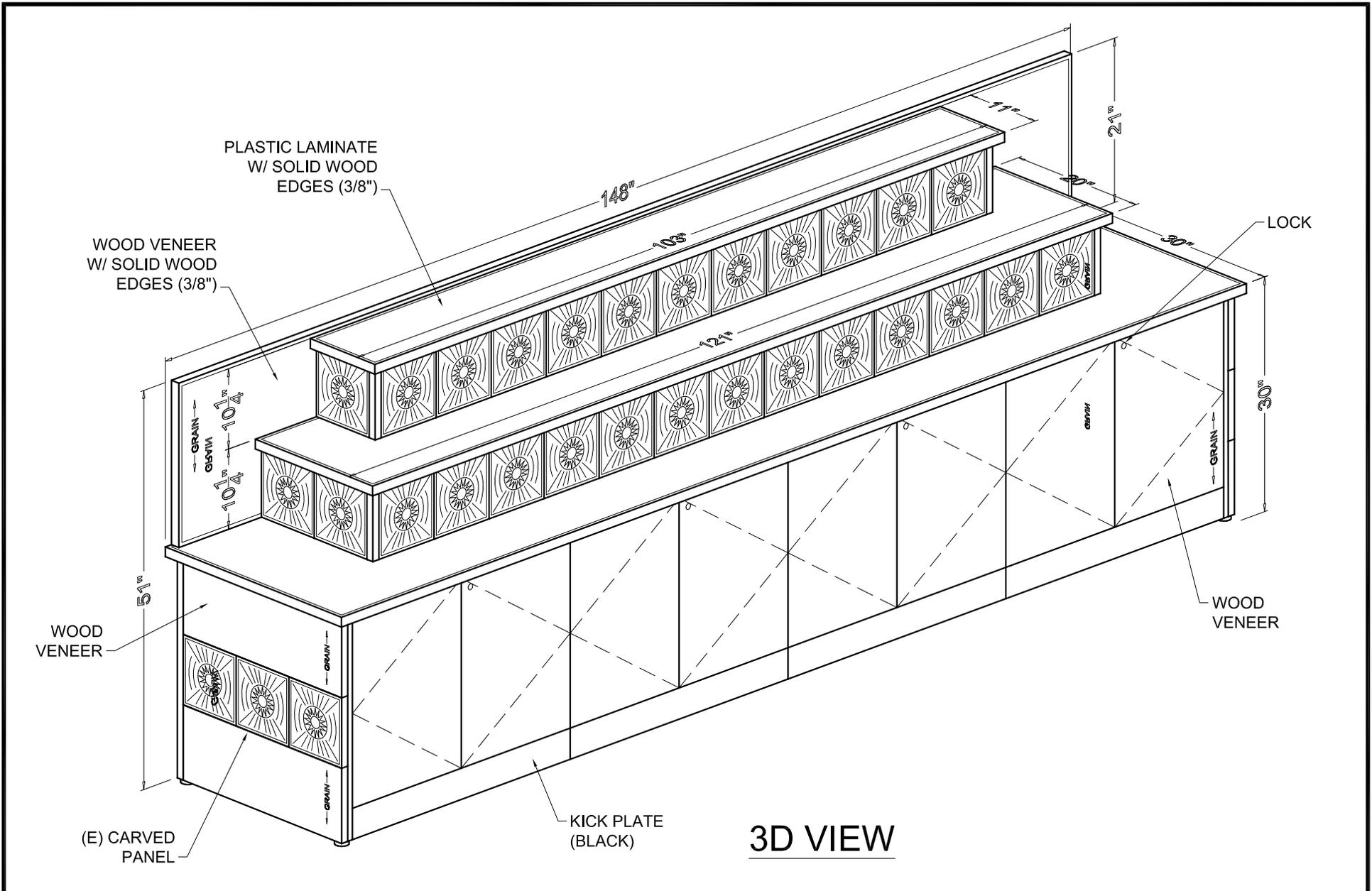
DESCRIPTION:
SELF CHECKOUT STATION



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NO	REVISION	DATE
1	LENGTH	01-10-16
-	-	-
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:		3/4" = 1'-0"
SHEET:		S.C.S.(2)

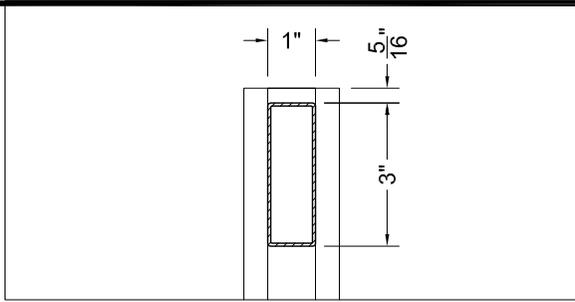


PROJECT:	ALTADENA LIBRARY
DESCRIPTION:	DISPLAY CABINET

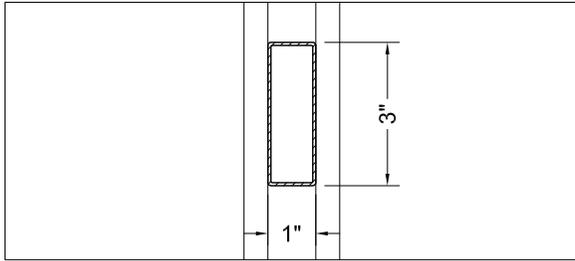

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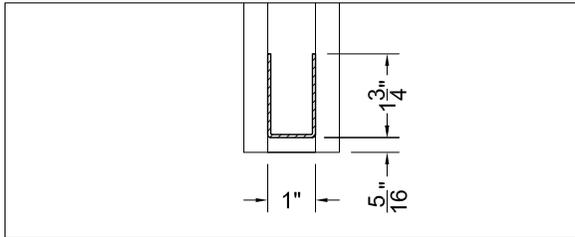
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DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:	SHEET:	
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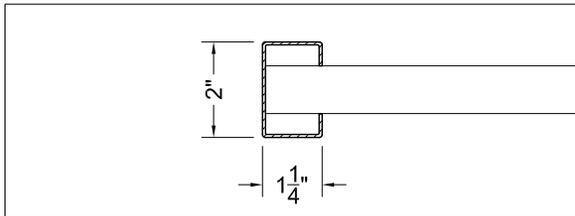
A-A



B-B

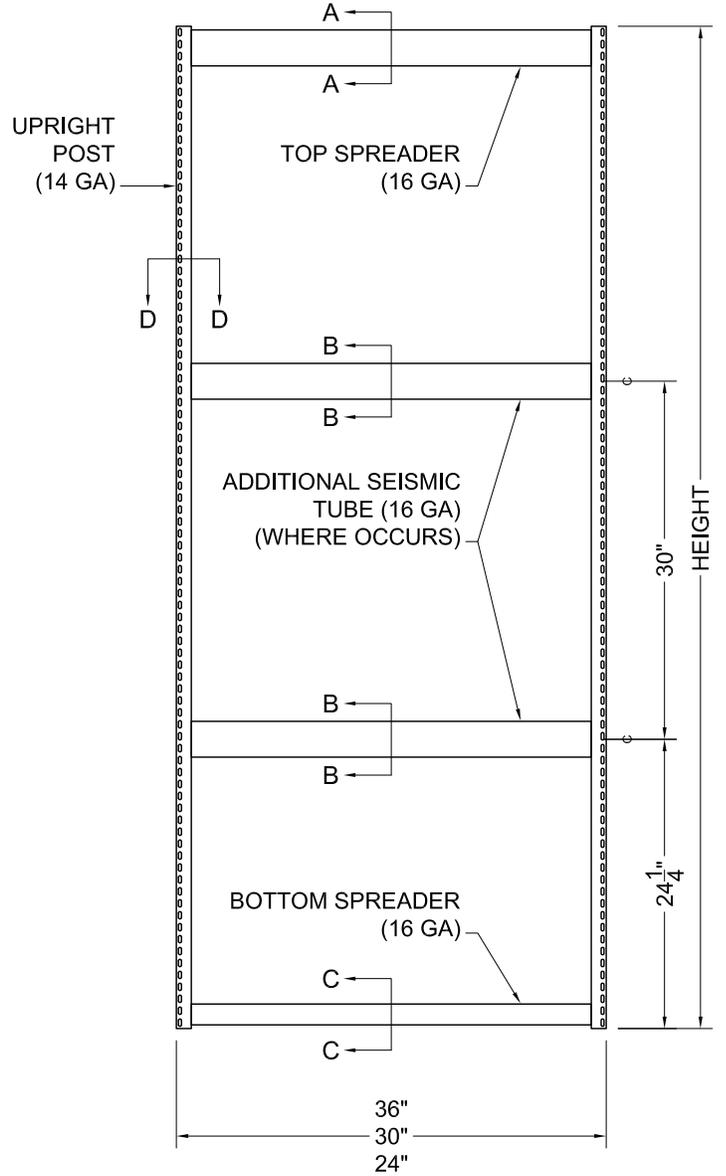


C-C



D-D

PROVIDE AT EVERY OTHER SECTION:
AT DOUBLE FACED UNITS



- SHELVING FRAME -

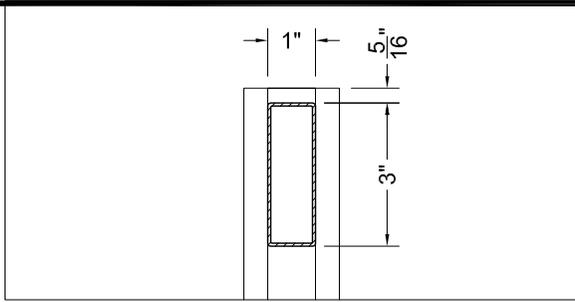
PROJECT:
ALTADENA LIBRARY

DESCRIPTION:
FRAME ASSEMBLY W/ EXTRA TUBE

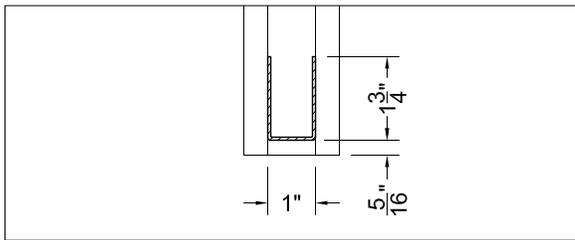
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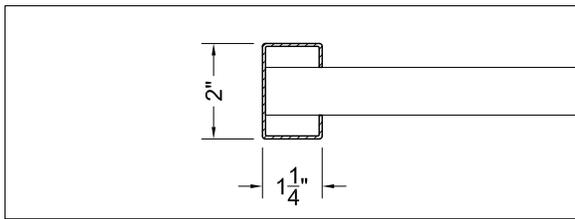
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NO	REVISION	DATE
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:	SHEET:	
3/4"=1'-0"	S1(a)	



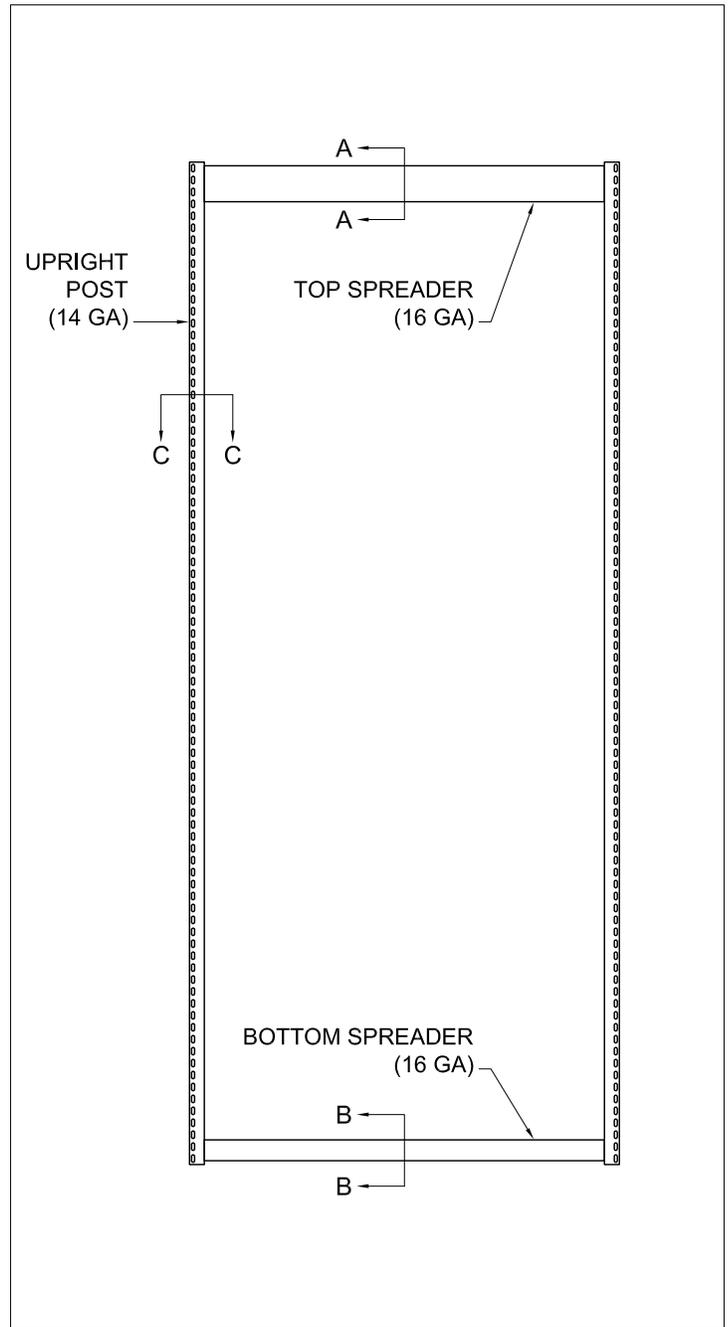
A-A



B-B



C-C



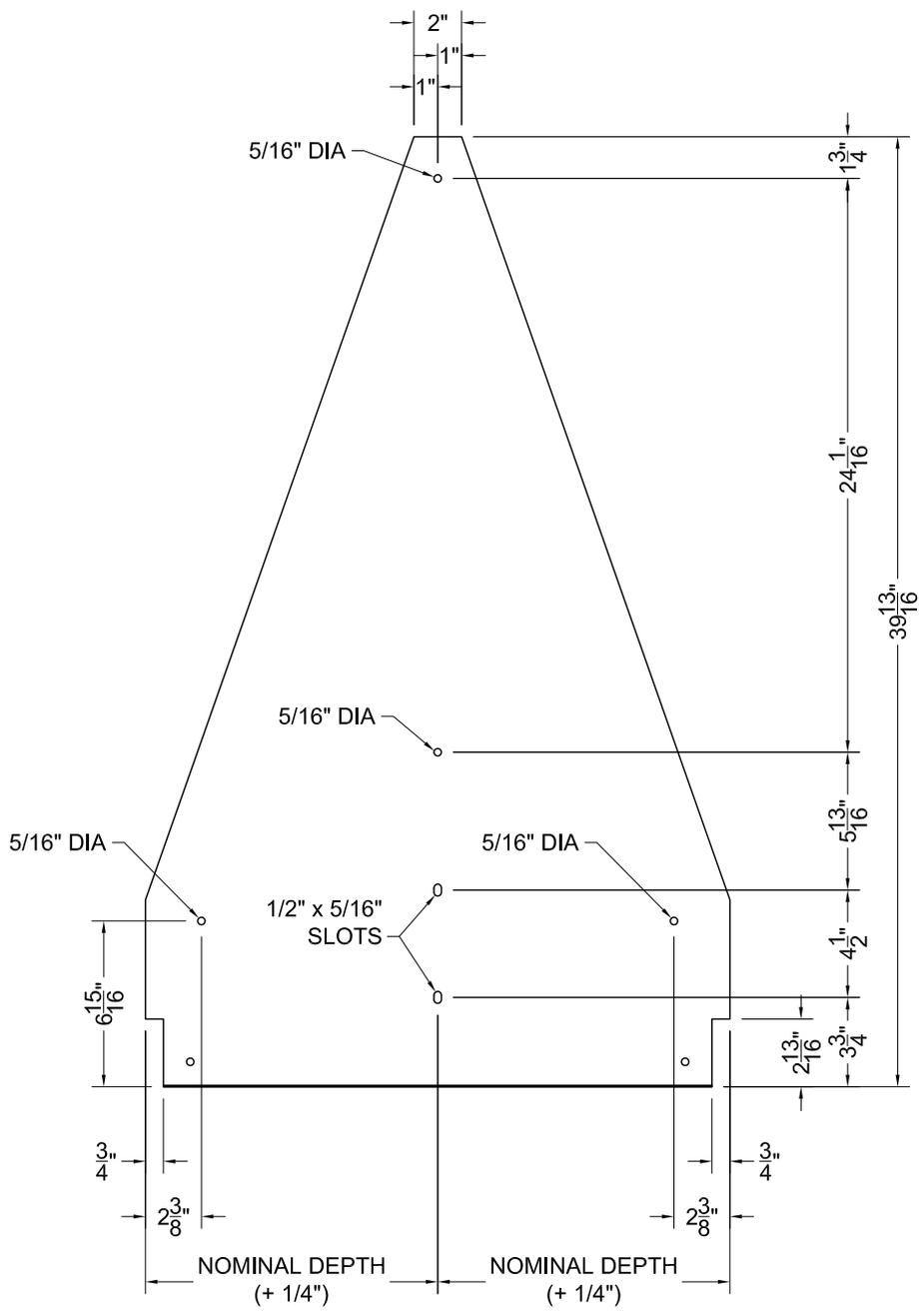
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PROJECT:
ALTADENA LIBRARY

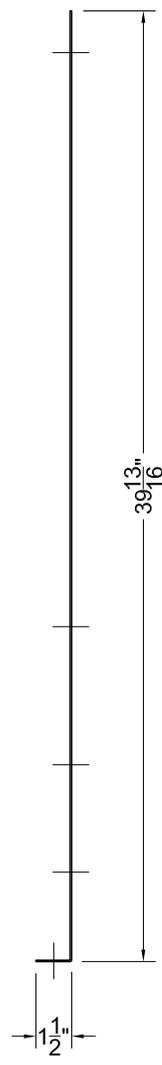
DESCRIPTION:
FRAME ASSEMBLY

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NO	REVISION	DATE
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:	SHEET:	
3/4"=1'-0"	S1(b)	



- FRONT VIEW -



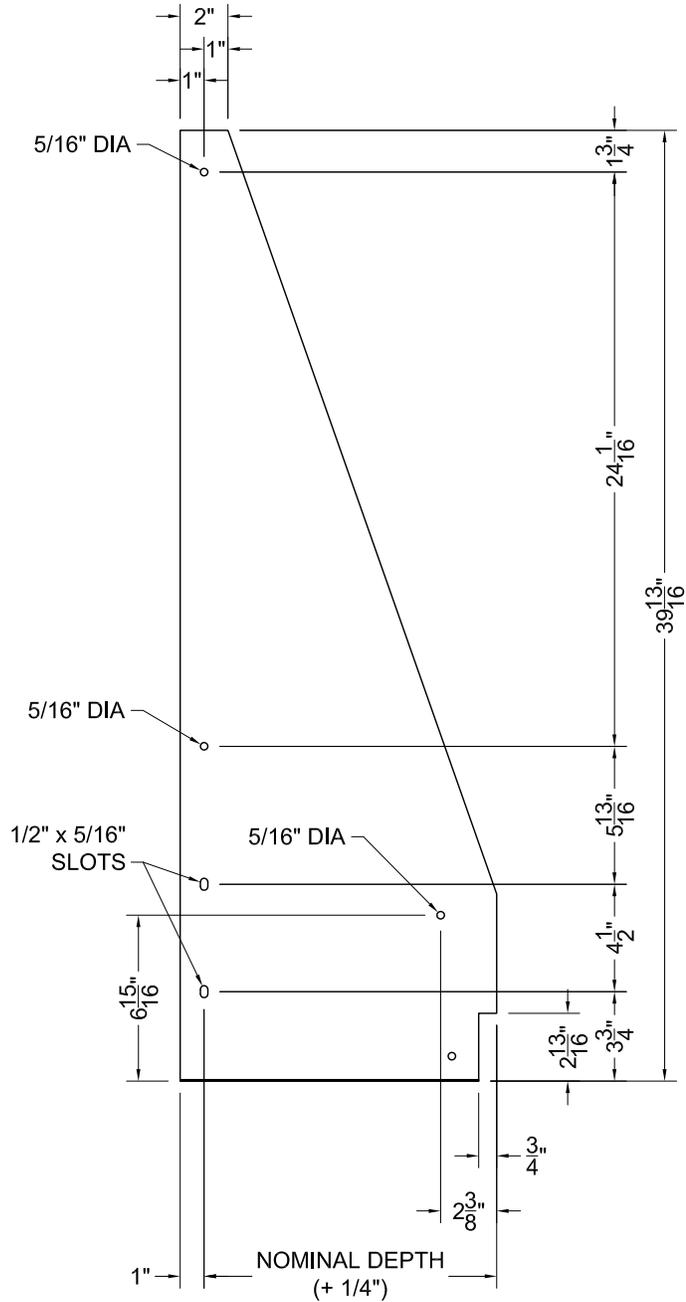
- SIDE VIEW -

MATERIAL: 16 GA STEEL

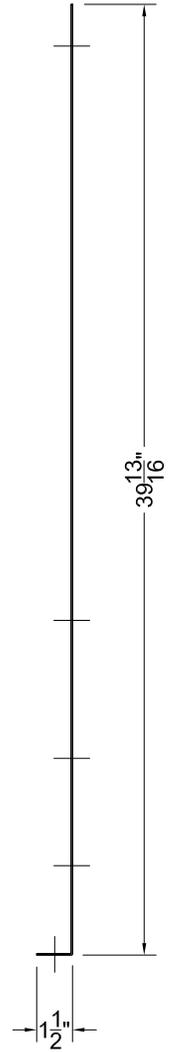
PROJECT:	ALTADENA LIBRARY
DESCRIPTION:	SEISMIC GUSSET - DOUBLE FACED


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-	-	-
NO	REVISION	DATE
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:	SHEET:	
1 1/2"=1'-0"	S2	



- FRONT VIEW -



- SIDE VIEW -

MATERIAL: 16 GA STEEL

PROJECT:
ALTADENA LIBRARY

DESCRIPTION:
SEISMIC GUSSET - SINGLE FACED



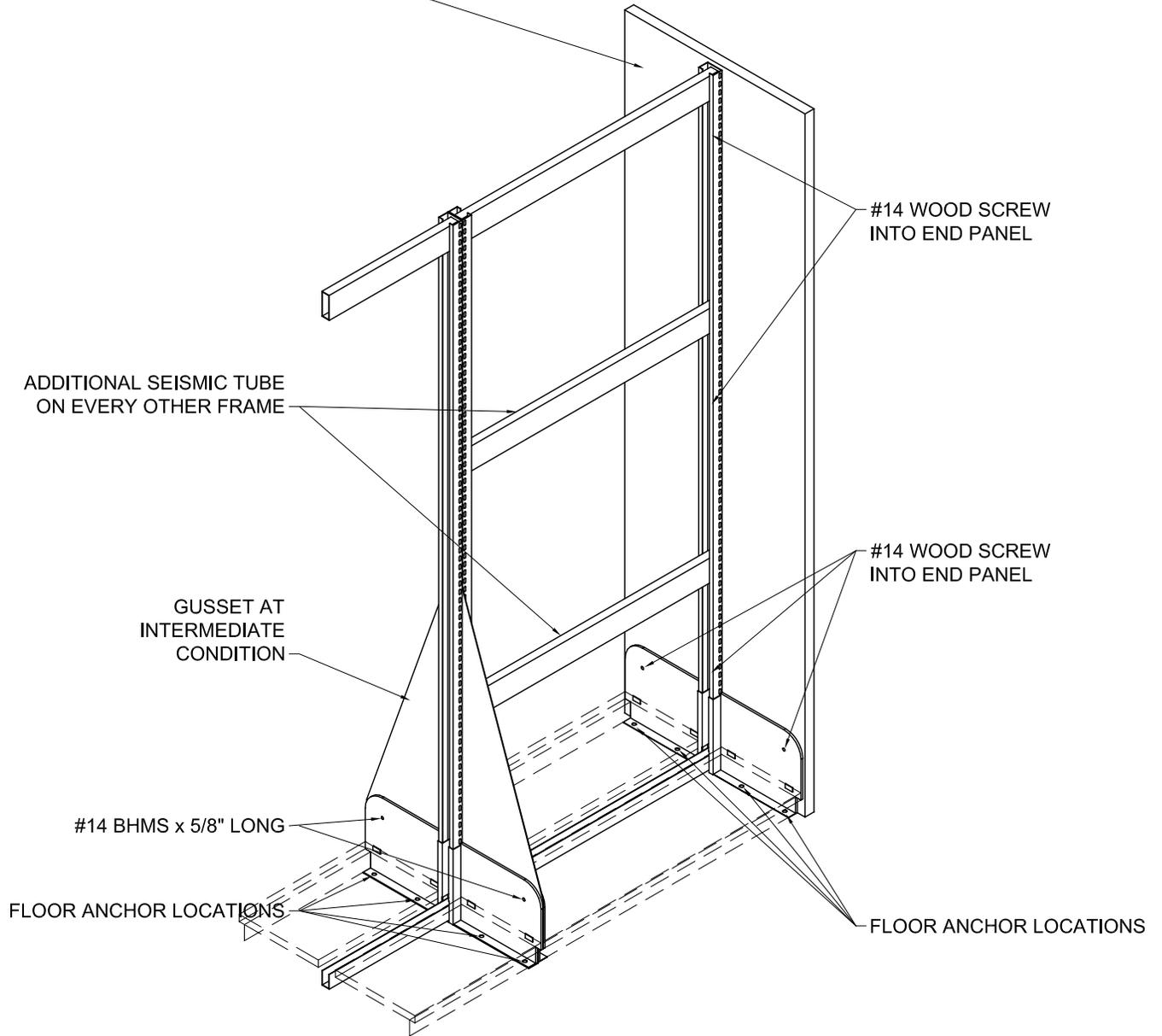
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-	-	-
-	-	-
NO	REVISION	DATE
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:		1 1/2"=1'-0"
SHEET:		S3

NO GUSSET REQUIRED
AT END OF RANGE WHEN
AN END PANEL IS USED



PROJECT:

ALTADENA LIBRARY

DESCRIPTION:

RE-INFORCED FRAME W/ GUSSET

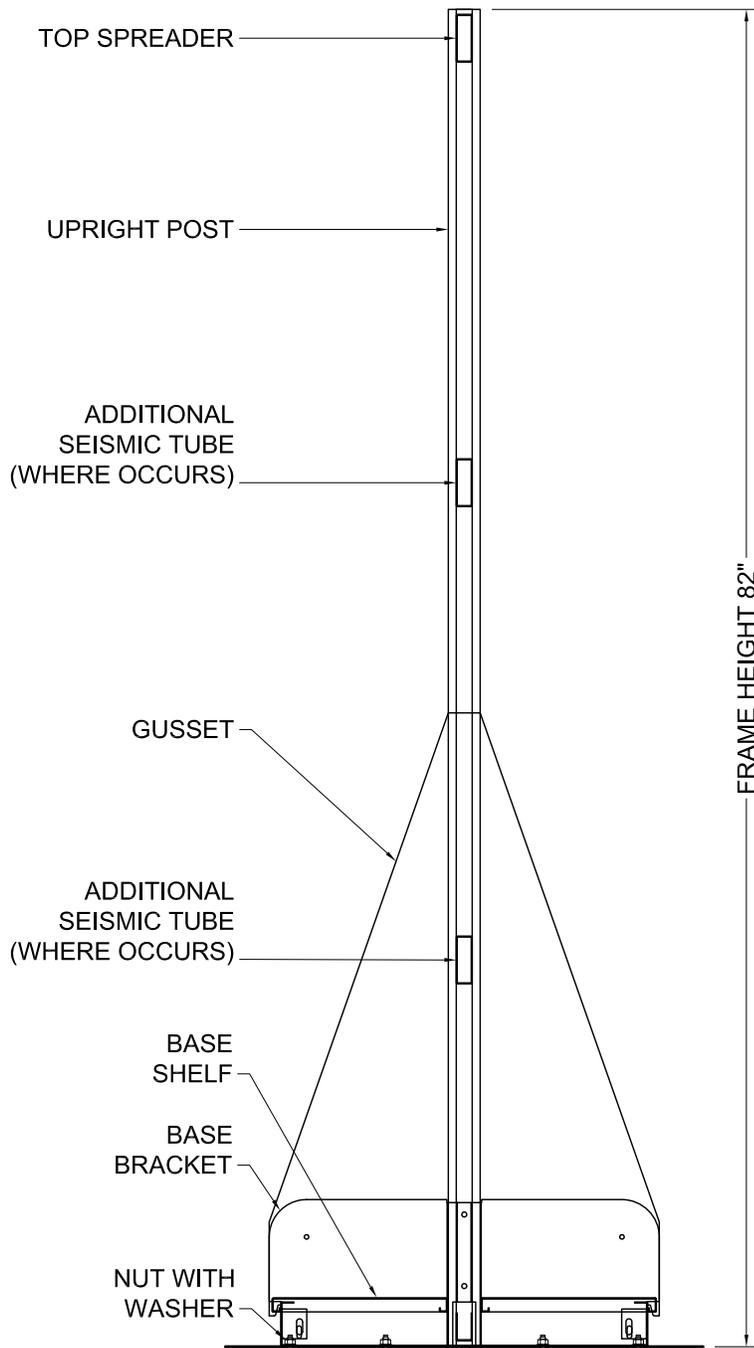


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NO	REVISION	DATE
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:	SHEET:	
3/4"=1'-0"	S4	

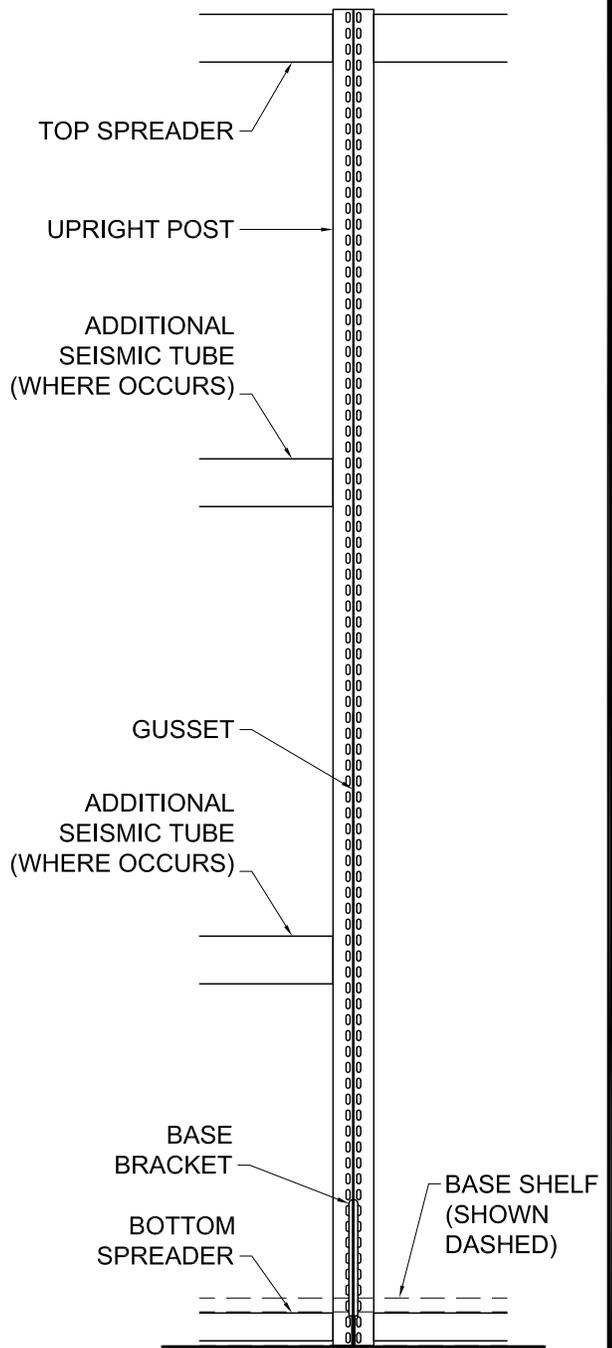


(4) 3/8" DIA X 2-5/16"
 EMBED. HILTI KB TZ (ICC
 ESR 1917) THRU BASE
 BRACKET & GUSSET
 [SPECIAL INSPECTION
 REQUIRED]

6" 6"

- SIDE VIEW -

FRAME HEIGHT 82"



- FRONT VIEW -

NOTE:
 ENGINEER OF RECORD (OF BUILDING) MUST VERIFY
 SUFFICIENCY OF (E) FLOOR TO RECEIVE SHELVING LOAD.

PROJECT:

ALTADENA LIBRARY

DESCRIPTION:

**FLOOR ANCHORING DETAIL
 (82" HIGH DOUBLE FACE)**

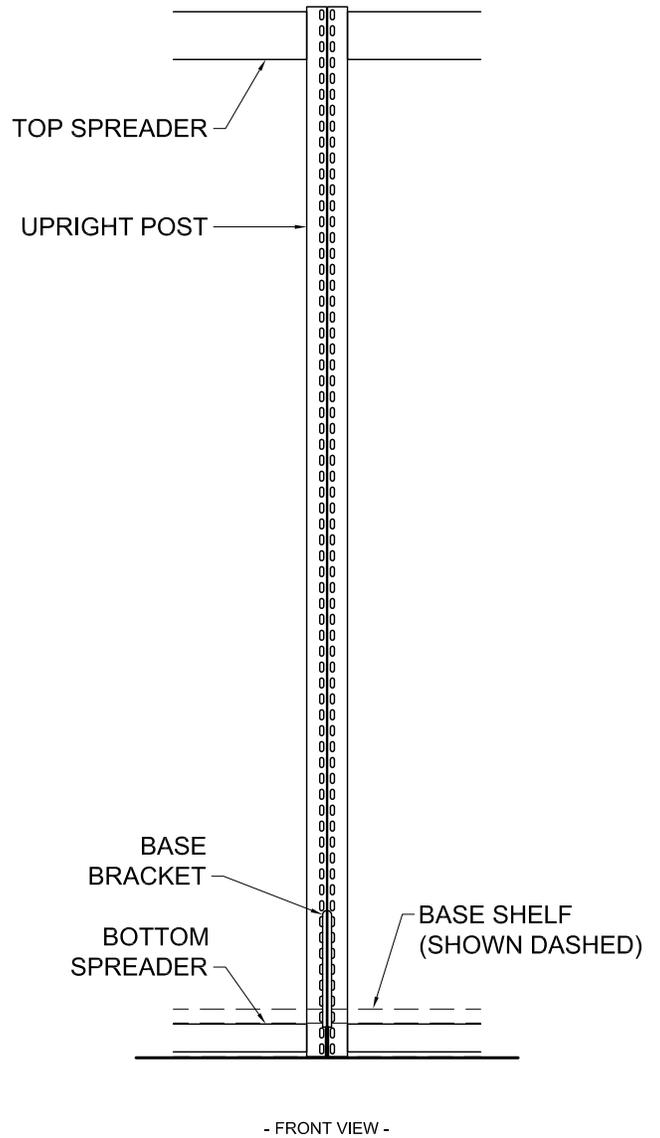
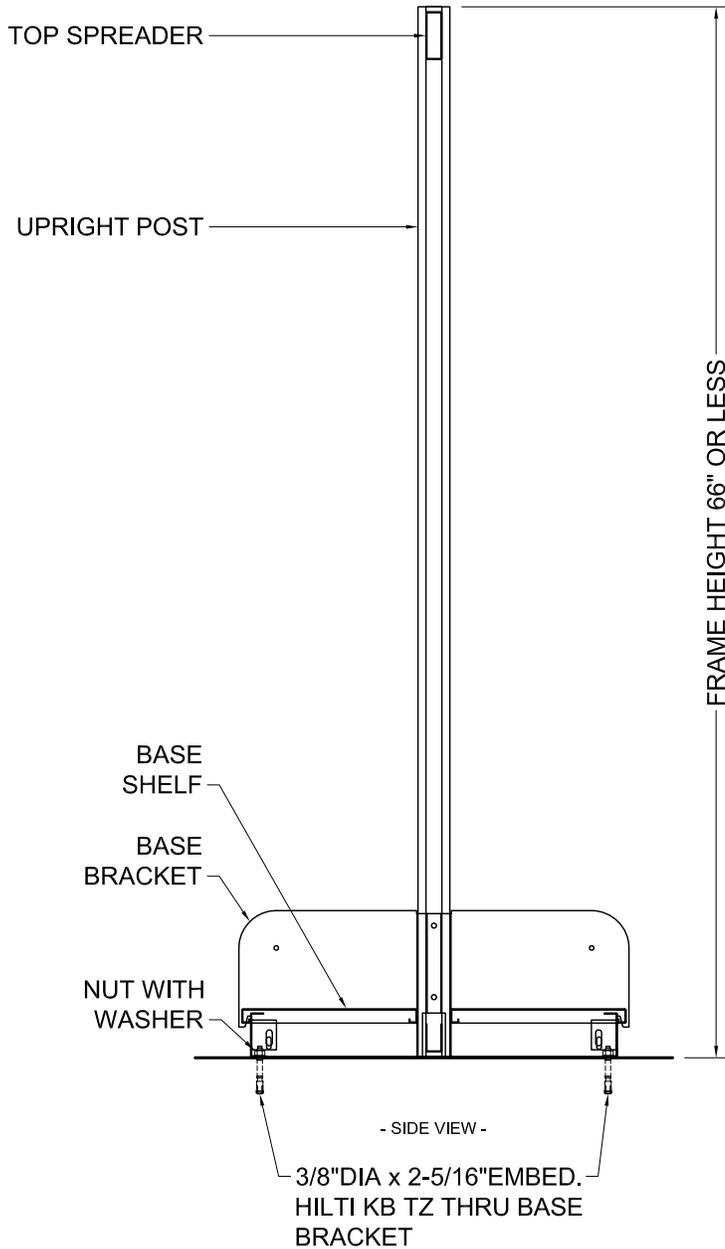


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-	-	-
-	-	-
NO	REVISION	DATE
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:	SHEET:	
1"=1'-0"	S5(a)	



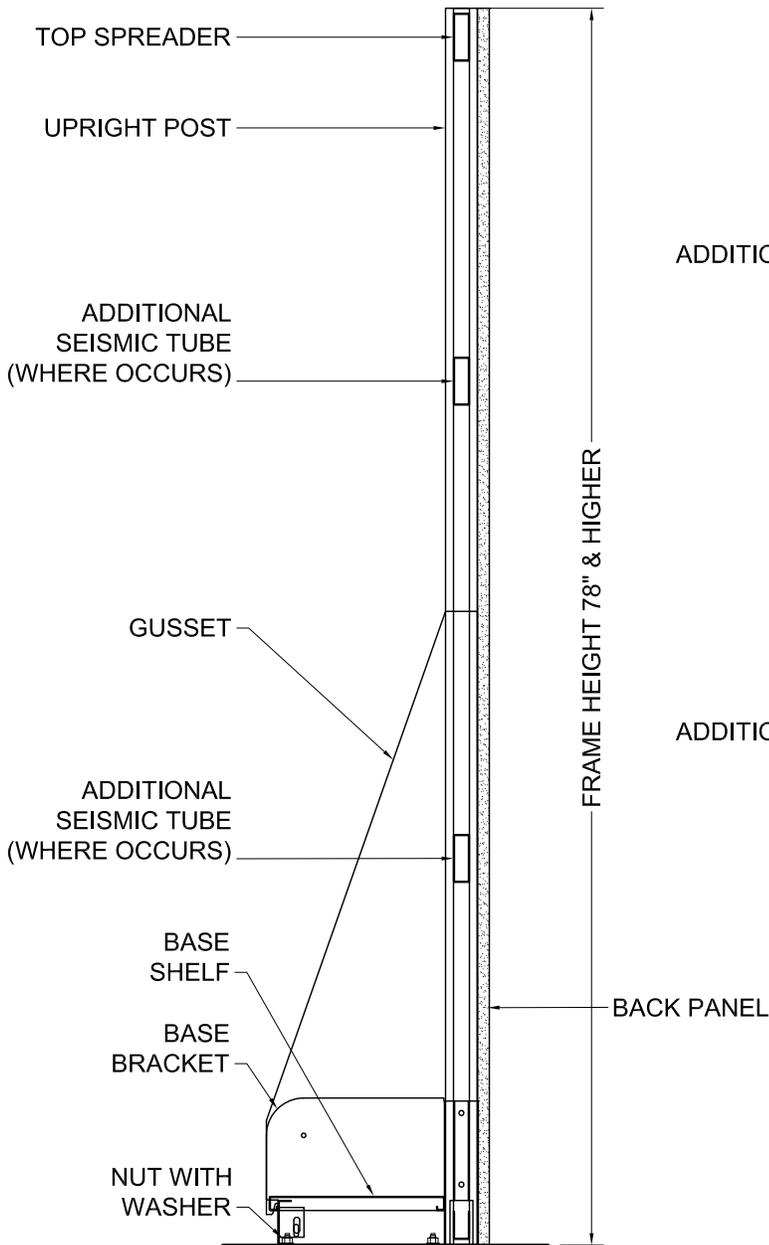
NOTE:
ENGINEER OF RECORD (OF BUILDING) MUST VERIFY SUFFICIENCY OF (E) FLOOR TO RECEIVE SHELVING LOAD.

PROJECT:	ALTADENA LIBRARY
DESCRIPTION:	FLOOR ANCHORING DETAIL (66" HIGH DOUBLE FACE & LOWER)

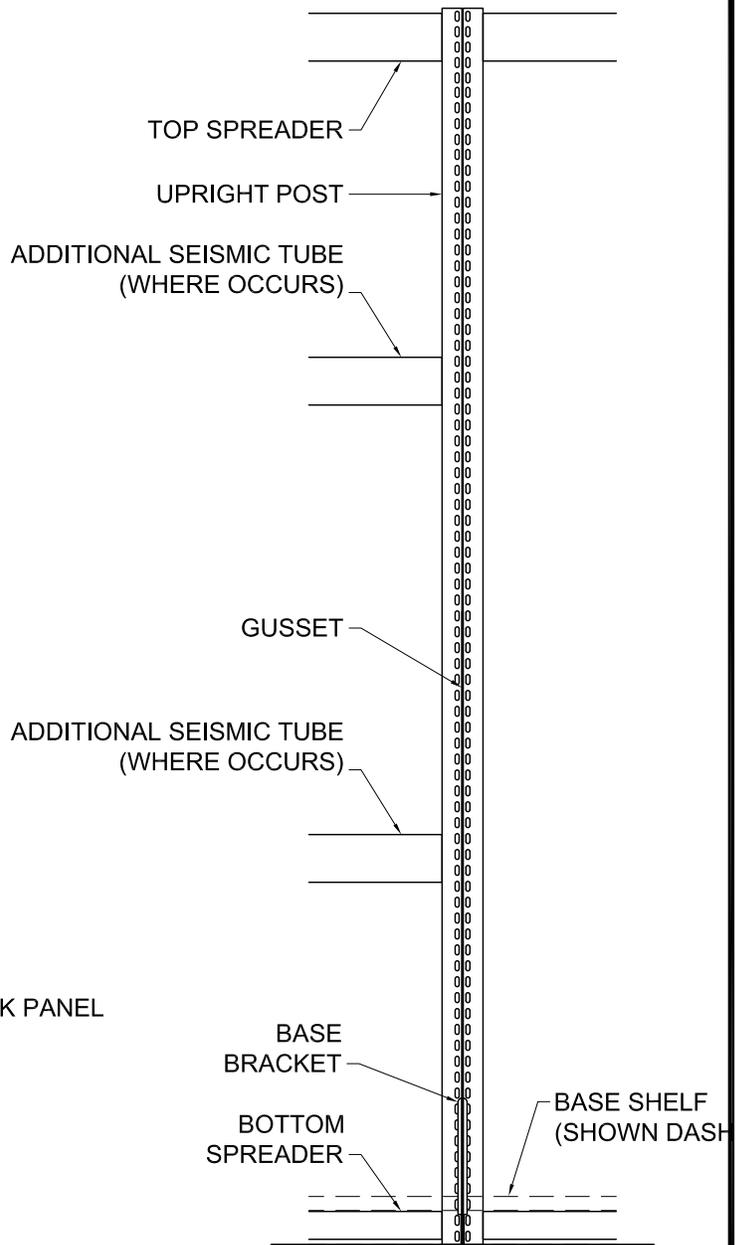
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-	-	-
NO	REVISION	DATE
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:	SHEET:	
1"=1'-0"	S5(b)	



(2) 3/8" DIA X 2-5/16" EMBED. HILTI KB TZ (ICC ESR 1917) THRU BASE BRACKET & GUSSET [SPECIAL INSPECTION REQUIRED]



NOTE:
ENGINEER OF RECORD (OF BUILDING) MUST VERIFY SUFFICIENCY OF (E) FLOOR TO RECEIVE SHELVING LOAD.

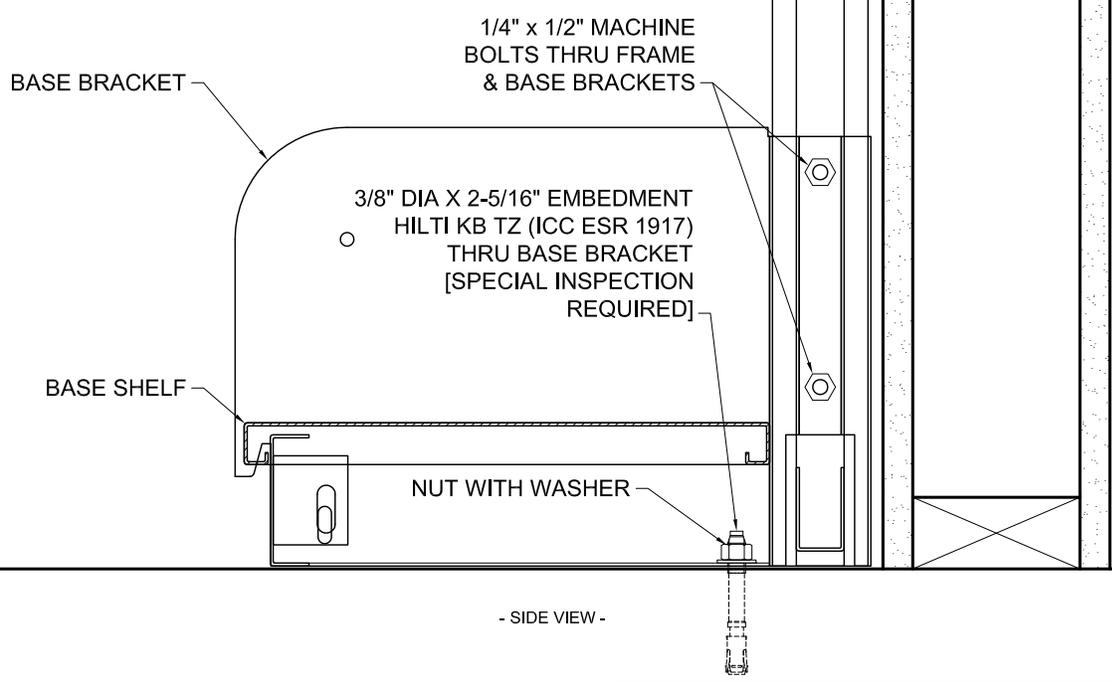
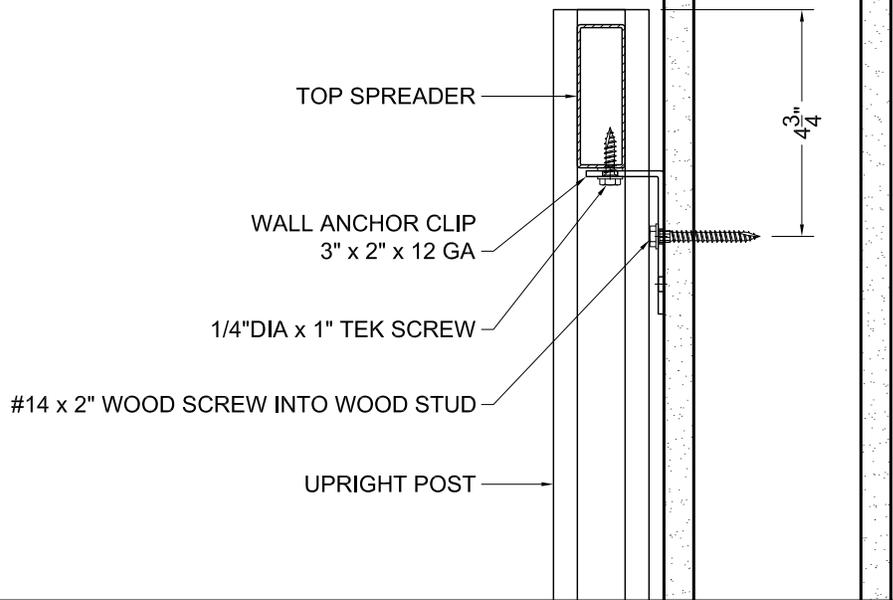
PROJECT:
ALTADENA LIBRARY

DESCRIPTION:
**FLOOR ANCHORING DETAIL
(78" HIGH SINGLE FACE & HIGHER)**

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-	-	-
NO	REVISION	DATE
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:	SHEET:	
1"=1'-0"	S5(c)	



- SIDE VIEW -

NOTE:

- ENGINEER OF RECORD (OF BUILDING) MUST VERIFY SUFFICIENCY OF (E) FLOOR TO RECEIVE SHELVING LOAD.
- ALL SINGLE FACED UNITS IN STRAIGHT RANGES MUST BE WALL ANCHORED.
- ANCHOR AT EACH SHELVING UNIT AS SHOWN.

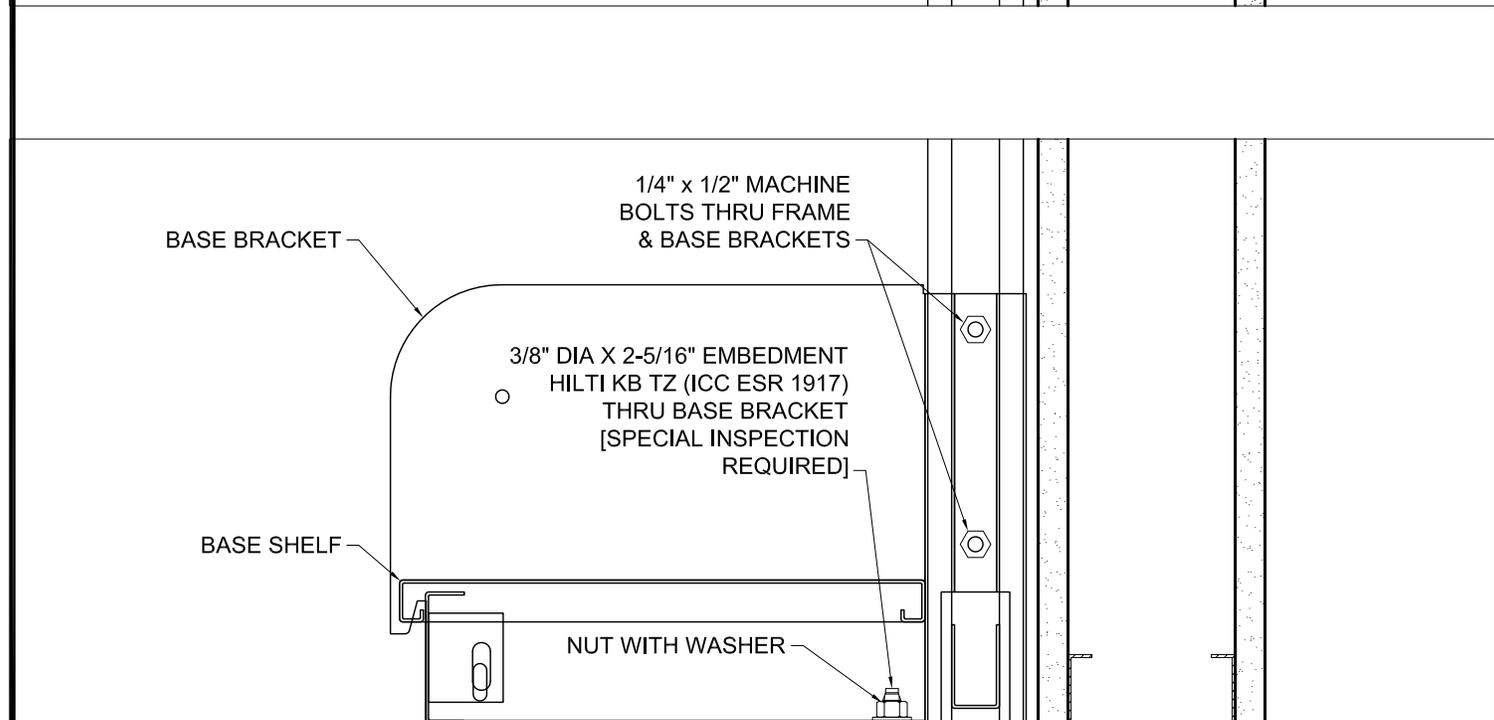
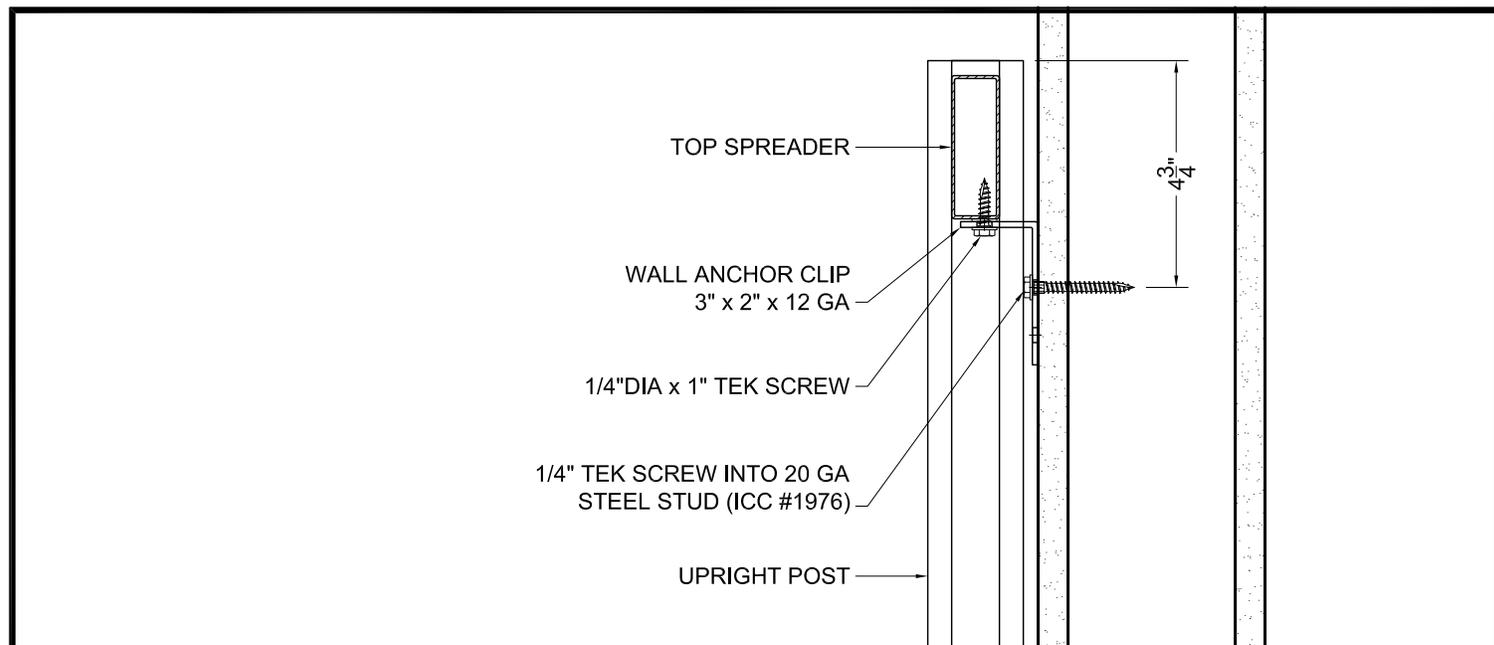
PROJECT:
ALTADENA LIBRARY

DESCRIPTION:
**WALL ANCHOR INSTALLATION
(WOOD STUD WALL)**

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-	-	-
NO	REVISION	DATE
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:	SHEET:	
3"=1'-0"	S6(a)	



- SIDE VIEW -

NOTE:

- ENGINEER OF RECORD (OF BUILDING) MUST VERIFY SUFFICIENCY OF (E) FLOOR TO RECEIVE SHELVING LOAD.
- ALL SINGLE FACED UNITS IN STRAIGHT RANGES MUST BE WALL ANCHORED.
- ANCHOR AT EACH SHELVING UNIT AS SHOWN.

PROJECT:

ALTADENA LIBRARY

DESCRIPTION:

**WALL ANCHOR INSTALLATION
(STEEL STUD WALL)**

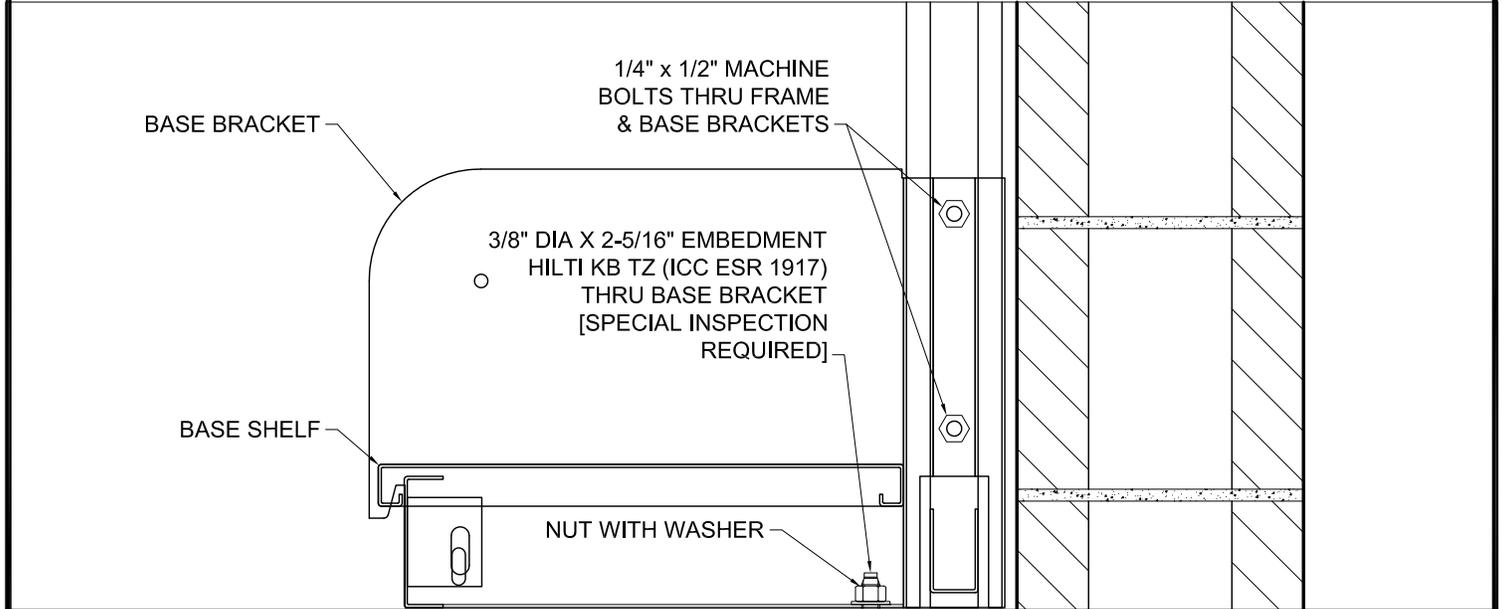
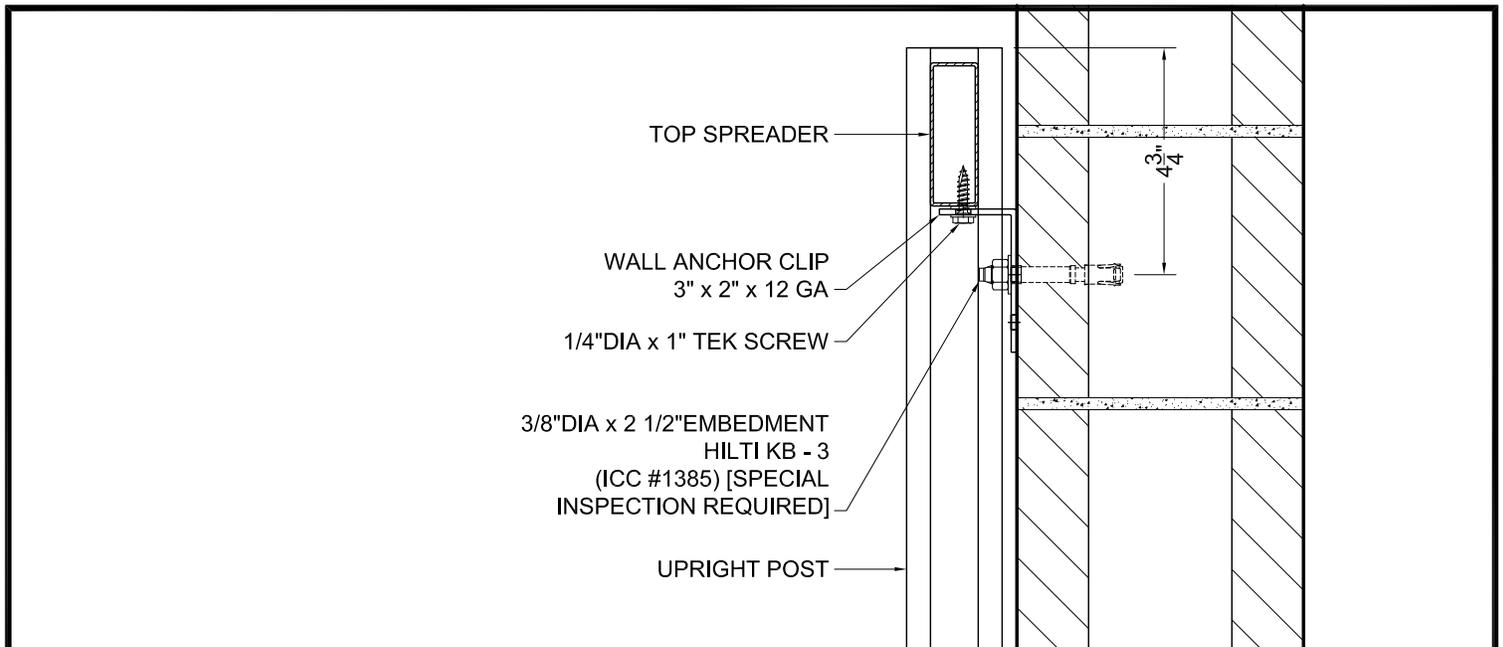


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-	-	-
NO	REVISION	DATE
DRAWN BY:		O.TREJO
DATE:		07-06-17
SCALE:	SHEET:	
3"=1'-0"	S6(b)	



- SIDE VIEW -

NOTE:

- ENGINEER OF RECORD (OF BUILDING) MUST VERIFY SUFFICIENCY OF (E) FLOOR TO RECEIVE SHELVING LOAD.
- ALL SINGLE FACED UNITS IN STRAIGHT RANGES MUST BE WALL ANCHORED.
- ANCHOR AT EACH SHELVING UNIT AS SHOWN.

PROJECT:
ALTADENA LIBRARY

DESCRIPTION:
**WALL ANCHOR INSTALLATION
 (C.M.U. WALL)**



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-	-	-
-	-	-
NO	REVISION	DATE
DRAWN BY:		O.TREJO
DATE:		01-06-17
SCALE:	SHEET:	
3"=1'-0"	S6(c)	

APPENDIX C
GEOTECHNICAL LETTER



September 19, 2025

Project No. 23-7751

Altadena Library District
8640 National Boulevard
Culver City, California 90232

Attention: Ms. Jennifer Pearson, AIA

Subject: Updated Geotechnical Investigation Report and Response to County of Los Angeles Department of Public Works, Geotechnical and Materials Engineering Division, Geologic and Soils Engineering Review Sheet dated September 11, 2025, 626 East Mariposa Street, Altadena, California.

References: TGR Geotechnical, 2024, Geotechnical Update Report, Proposed Renovation, Main Library, Altadena Library District, 626 East Mariposa Street, Altadena, California, dated November 8, 2022.

Percolation Testing Report for WQMP, Proposed Renovation, Main Library, Altadena Library District, 626 East Mariposa Street, Altadena, California, dated July 19, 2023.

Anderson Brule Architects, Civil Plans, Altadena Main Library, 600 E Mariposa Street, Altadena, CA 91001, dated August 1, 2025.

Jennifer,

In accordance with your request and authorization, TGR Geotechnical, Inc. (TGR) is providing this response to the County of Los Angeles Department of Public Works Geotechnical and Materials Engineering Division Geologic and Soils Engineering review sheet dated September 11, 2025 with respect to the subject site. The correction items along with our responses are presented below. In addition, a copy of the correction letter is attached with this report.

Item G1:

Provide a geotechnical map that complies with the provisions of the County of Los Angeles Department of Public Works Manual for Preparation of Geotechnical Reports. The geotechnical map/site plan shall be based on the proposed grading plans and include, at a minimum, the existing and proposed grades, removal and recompaction recommendations, and location of subsurface explorations (i.e. borings, trenches, etc.).

Response:

See Plate 1 of the update geotechnical letter in Appendix A.

Item S1:

Submit an updated geotechnical consultant report/letter, which addresses and evaluates current site conditions and the most recent plans, for all reports older than one year, to verify the validity and applicability of the original soils report. Digital reports shall include an electronically generated representation of the licensee's seal, signature, and date of signing.

Response:

An updated geotechnical letter is presented on Appendix A.

The opportunity to be of continued service is greatly appreciated. If you have any questions regarding this report, please do not hesitate to contact this office. We appreciate this opportunity to be of service.

Respectfully submitted,

TGR GEOTECHNICAL, INC.



Sanjay Govil, PhD, PE, GE 2382
Principal Geotechnical Engineer
Distribution: (1) Addressee

Attachments: County of Los Angeles Department of Public Works Geotechnical and Materials Engineering Division Soils Engineering and Geologic Review Sheet dated September 11, 2025.

Appendix A – Updated Report

Tract / Parcel Map _____	---	Lot(s) _____	---	Parent Tract _____	---
Site Address _____	600 East Mariposa Street	Location _____	Altadena	APN _____	5840-010-900
Geologist _____	---	Developer/Owner _____	Altadena Library District		
Soils Engineer _____	TGR Geotechnical	Engineer/Arch. _____	Anderson Brule Architects		

Review of:

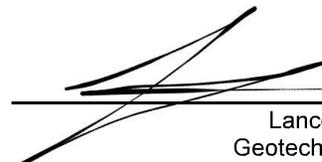
Grading P.C. No.: GRAD240925000473 For: Proposed Rough Grading for Library Exterior (685 CY)
Submittal Received by GMED: 08/12/2025

Geologic Report(s) Dated: _____
Soils Engineering Report(s) Dated: 07/19/2023
Geotechnical Report(s) Dated: _____
References: _____

Action: Plan is not recommended for approval from a geotechnical standpoint for reasons below.

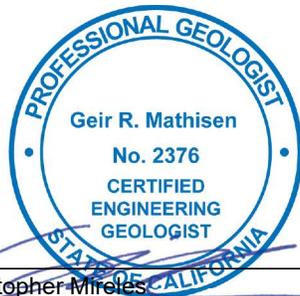
- G1. Provide a geotechnical map that complies with the provisions of the County of Los Angeles Department of Public Works *Manual for Preparation of Geotechnical Reports*. The geotechnical map/site plan shall be based on the proposed grading plans and include, at a minimum, the existing and proposed grades, removal and recompaction recommendations, and location of subsurface explorations (i.e. borings, trenches, etc.).
- S1. Submit an updated geotechnical consultant report/letter, which addresses and evaluates current site conditions and the most recent plans, for all reports older than one year, to verify the validity and applicability of the original soils report. Digital reports shall include an electronically generated representation of the licensee's seal, signature, and date of signing.
- S2. On the grading plans. Provide the approximate limits and depth of removal and recompaction of unsuitable soils per the latest geotechnical engineer's recommendations. The plans must clearly show the limits and depth for verification of compliance with geotechnical recommendations and County code.
- S3. Provide an infiltration study that evaluates and addresses the site for the potential of stormwater infiltration.
- S4. As necessary, provide revised grading plans that show any new additions and/or changes to the proposed LID features of the proposed development.
- S5. The geotechnical consultant(s) must review the plans and sign and stamp, as appropriate, the plans in verification of their recommendations.
- S6. Please submit documents in response to this review to the EPIC-LA plan case: ESTU2025000446 using the EPIC-LA system at the following URL: <https://epicla.lacounty.gov/SelfService#/home>. Contact GMED at GMEDSubmittals@dpw.lacounty.gov or call (626) 458-4925 if documents cannot be uploaded to the plan case.
- S7. Include a copy of this review sheet with your response.

Prepared by


Lance Nargida
Geotechnical Section






Christopher Mireles
Engineering Geology Section

Date 09/11/2025

**APPENDIX A
UPDATED REPORT**



September 19, 2025

Project No. 23-7751

Altadena Library District
Ms. Jennifer Pearson, AIA
Architect, Program Manager
8640 National Boulevard
Culver City, CA 90232

Subject: Update Geotechnical letter, Proposed Renovation, Main Library, Altadena Library District, 626 East Mariposa Street, Altadena, California.

References: TGR Geotechnical, 2024, Geotechnical Update Report, Proposed Renovation, Main Library, Altadena Library District, 626 East Mariposa Street, Altadena, California, dated November 8, 2022.

Percolation Testing Report for WQMP, Proposed Renovation, Main Library, Altadena Library District, 626 East Mariposa Street, Altadena, California, dated July 19, 2023.

Anderson Brule Architects, Civil Plans, Altadena Main Library, 600 E Mariposa Street, Altadena, CA 91001, dated August 1, 2025.

Jennifer,

In accordance with your request, we are providing an update geotechnical letter for the proposed renovation at the subject site. A representative of TGR visited the site on September 17, 2025. The site conditions are generally the same as observed during the previous investigation. TGR also reviewed the latest grading plan prepared by Anderson Brule Architects (2025) with respect to the referenced report. Based on this review, we have determined that the geotechnical recommendations provided in our previous reports remain applicable. A geotechnical map has been prepared, incorporating the most recent plans and relevant information from the available geotechnical reports for the site. This map is attached as Plate 1.

The opportunity to be of continued service is greatly appreciated. If you have any questions regarding this report, please do not hesitate to contact this office. We appreciate this opportunity to be of service.

Respectfully submitted,

TGR GEOTECHNICAL, INC.

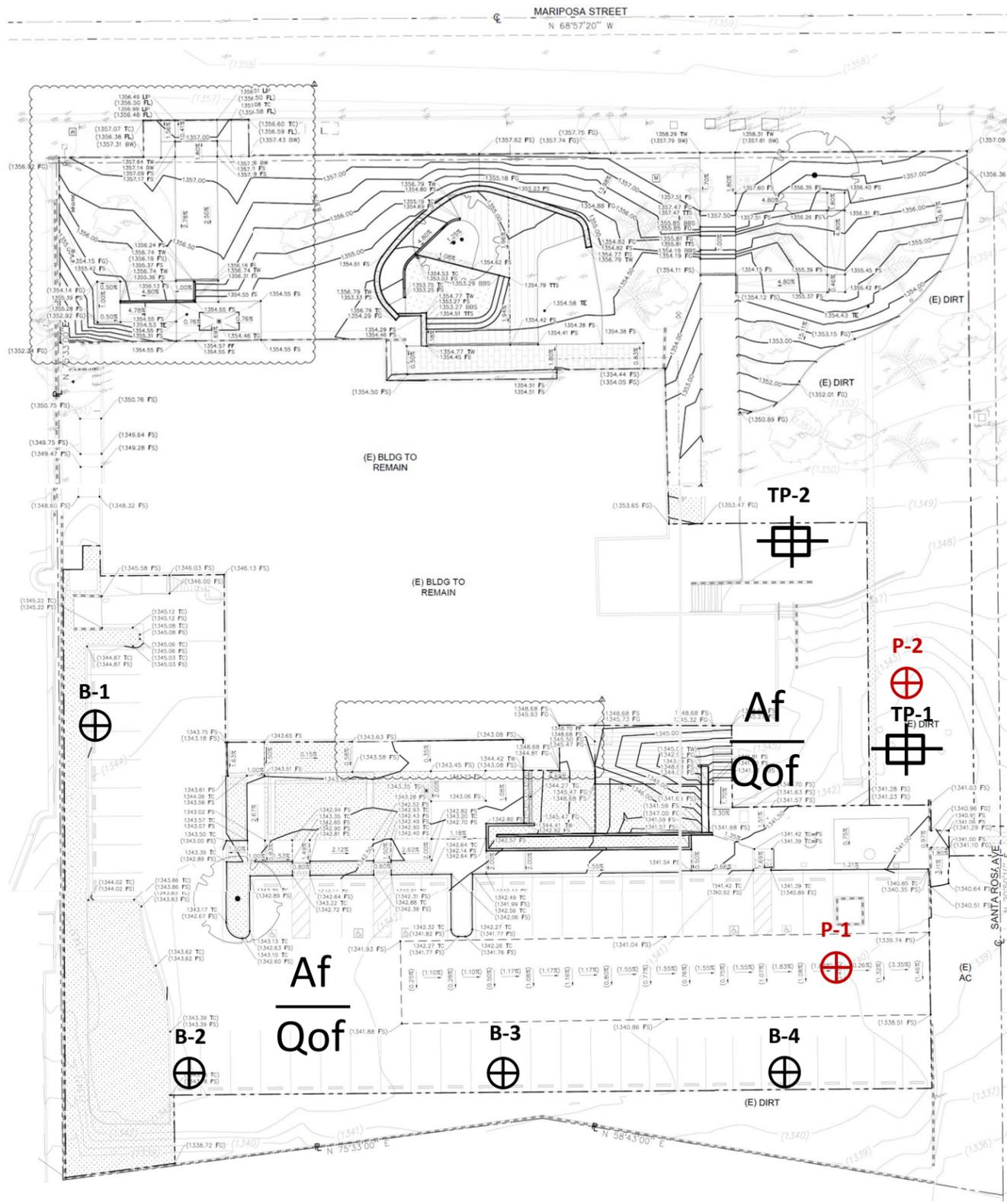


Sanjay Govil, PhD, PE, GE 2382
Principal Geotechnical Engineer

Distribution: (1) Addressee

Attachments:

Orange County Public Works Comments dated September 11, 2025
Plate 1 – Geotechnical Map



LEGEND

- B-4** ⊕ APPROXIMATE LOCATION OF EXPLORATORY BORING - BYER GEOTECHNICAL (2012)
- TP-2** ⊞ APPROXIMATE LOCATION OF EXPLORATORY TEST PIT - BYER GEOTECHNICAL (2012)
- P-2** ⊕ APPROXIMATE LOCATION OF PERCOLATION TESTING - TGR GEOTECHNICAL (2023)

- GEOLOGIC UNITS
- Af** ARTIFICIAL FILL
 - Qof** QUATERNARY OLDER ALLUVIUM



APPENDIX D
PERCOLATION TESTING
REPORT



November 8, 2022

Project No. 23-7751

Altadena Library District
Ms. Jennifer Pearson, AIA
Architect, Program Manager
Huckabee
8640 National Boulevard
Culver City, CA 90232

Subject: Percolation Testing Report for WQMP, Proposed Renovation, Main Library, Altadena Library District, 626 East Mariposa Street, Altadena, California

Jennifer,

In accordance with your request and authorization, TGR Geotechnical, Inc. (TGR) has completed our percolation testing at the subject site for the proposed WQMP.

Presented below are the details of our investigation.

SCOPE OF SERVICES

Our scope of work included performing the following tasks:

- Site reconnaissance, mark boring locations and notify Dig-Alert for utility clearance.
- Excavation, logging and percolation testing of one (1) hollow-stem auger boring to an approximate depth of 15 feet and excavation, logging and percolation testing of one (1) hand auger boring to an approximate depth of 10 feet below existing grade. The percolation testing was performed in accordance with Los Angeles County Guidelines GS200.1. The borings were backfilled with soil cuttings upon completion of testing, excess soil disposed on site, and surface was sealed with rapid set concrete, where appropriate.
- Laboratory testing of selected samples to include in-situ moisture content and dry density and passing No. 200 sieve.
- Preparation of this report summarizing current subsurface soil conditions, findings and presenting the results of percolation testing.

FIELD INVESTIGATION

Field exploration was performed on October 30, 2023 at 626 East Mariposa Street in the City of Altadena, California (Figure 1) by representatives from our firm who logged the borings and obtained representative samples, which were subsequently transported to the laboratory for further review and testing. The approximate locations of the borings are indicated on the enclosed Boring Location Map (Figure 2).

The subsurface conditions were explored by drilling, sampling, and logging one (1) hollow stem auger borings, P-1, with a truck mounted hollow stem drill rig to an approximate depth of fifteen (15)

feet one (1) hand auger boring, P-2, to perform percolation testing. Subsequent to drilling and percolation testing, all borings were backfilled with cuttings and surface sealed with rapid set concrete. The log of borings presenting soil conditions and descriptions are presented on Plates 1 and 2.

The drill rig and hand auger were equipped with a sampling apparatus to allow for recovery of driven modified California Ring Sampler (CRS), 3-inch outside diameter, and 2.42-inch inside diameter and SPT samples. Driven samples and bulk samples of the earth materials encountered at selected intervals were recovered from the borings.

The samples were driven using an automatic 140-pound hammer falling freely from a height of 30 inches. The blow counts for CRS were converted to equivalent SPT blow counts. Soil descriptions were entered on the logs in general accordance with the Unified Soil Classification System (USCS). Driven samples and bulk samples of the earth materials encountered at selected intervals were recovered from the borings. The locations and depths of the soil samples recovered are indicated on the boring logs on Plates 1 and 2.

GEOTECHNICAL FINDINGS

Regional Geologic Setting

The subject site is located in the eastern portion of the Pasadena 7.5-minute quadrangle, Los Angeles County, California. Per the Geologic Map of the Pasadena Quadrangles, Los Angeles County, California (Dibblee, 1989), the subject site is underlain Quaternary alluvial fan gravel and sand derived from the San Gabriel Mountains. Figure 3 presents the Regional Geologic Map.

Earth Units

Based on our subsurface investigation, the subject site is underlain by silty sand and slightly moist condition to a depth of approximately 15 feet below grade in Boring P-1. In Boring P-2, sand in a dry condition was encountered. Gravel and cobbles were encountered at a depth of 4 feet to 10 feet below existing grade. Detailed descriptions of the earth units encountered in our borings are presented in the boring logs on Plates 1 and 2.

Groundwater

Subsurface water was not encountered to a depth of approximately 15 feet below existing grade during the subsurface exploration. Based on our review of available historical groundwater information, the historic high groundwater has not been mapped at the subject site (Figure 4).

Based on the previous geotechnical investigation at the subject site (Byer Geotechnical, 2012), groundwater was not encountered to a depth of 30.5 feet below existing grade. Groundwater is anticipated to be greater than 10 feet below the proposed infiltration invert.

Seasonal and long-term fluctuations in the groundwater may occur as a result of variations in subsurface conditions, rainfall, run-off conditions and other factors. Therefore, variations may occur.

Static groundwater is not anticipated to impact the proposed development.

LABORATORY TESTING

Laboratory tests were performed on representative samples to verify the field classification of the recovered samples and to evaluate the geotechnical properties of the subsurface soils. The results of the laboratory testing are presented below:

In-Situ Moisture and Dry Density Determination (ASTM D2216 and D7263): Moisture content and dry density determinations were performed on relatively undisturbed samples obtained from the test borings. The results of these tests are presented in the boring logs on Plates 1 and 2.

Passing No. 200 Sieve (ASTM D1140): Typical materials were washed over No. 200 sieve. The test results are presented in the boring logs and in the table below:

Sample Location	% Passing No. 200 Sieve
P-1 @ 7.5 feet	29.6%
P-1 @ 12.5 feet	34.7%
P-2 @ 5 feet	4.3%

PERCOLATION TEST RESULTS

Field percolation testing was performed in general accordance with the with the Los Angeles County Department of Public Works Guidelines for Geotechnical Investigation and Reporting Low Impact Development Stormwater Infiltration GS200.1 (2021).

Borings P-1 and P-2 were converted to field percolation test wells by placing approximately two inches of gravel at the bottom of the borehole, installation of two-inch diameter PVC pipes and placement of gravel in the annulus between the borehole and the PVC pipe to hold it securely in place. The borings were presoaked for 25 minutes prior to percolation testing. Infiltration test rates were determined utilizing the referenced County of Los Angeles guidelines. A gravel factor of 0.54 was used in the calculations to account for the volume of water reduction from the gravel in the annular space of the boring. Results of the infiltration testing are presented in Table 1 - Percolation Test Worksheet and in the table below:

Test Location	Test Depth	Preadjusted Infiltration Rate (inches/hour)	Reduction Factor (RF _t + RF _v + RF _s)	Design Infiltration Rate (inches/hour)
P-1	15" – 15'	2.47	1 + 2 + 2 = 5	0.49
P-2	14.4" – 10'	3.13	1 + 2 + 2 = 5	0.63

Based on the percolation test results and the referenced guidelines, stormwater infiltration is feasible from a geotechnical standpoint at the subject site at the locations and depths tested.

LIMITATIONS

This report was prepared for the subject project based on the client's needs, directions and requirements at the time.

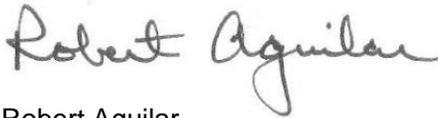
This report was necessarily based in part upon data obtained from a limited number of observances, site visits, soil and/or other samples, tests, analyses, histories of occurrences, spaced subsurface exploration and limited information on historical events and observations. Such information is necessarily incomplete. Variations can be experienced within small distances and under various climatic conditions. Changes in subsurface conditions can and do occur over time.

This report is not authorized for use by and is not to be relied upon by any party except the client with whom TGR contracted for the work. Use or reliance on this report by any other party is that party's sole risk. Unauthorized use of or reliance on this report constitutes an agreement to defend and indemnify TGR from and against any liability which may arise as a result of such use or reliance, regardless of any fault, negligence, or strict liability of TGR.

If you have any questions regarding this report, please do not hesitate to contact this office. We appreciate this opportunity to be of service.

Respectfully submitted,

TGR GEOTECHNICAL, INC.



Robert Aguilar
Staff Engineer



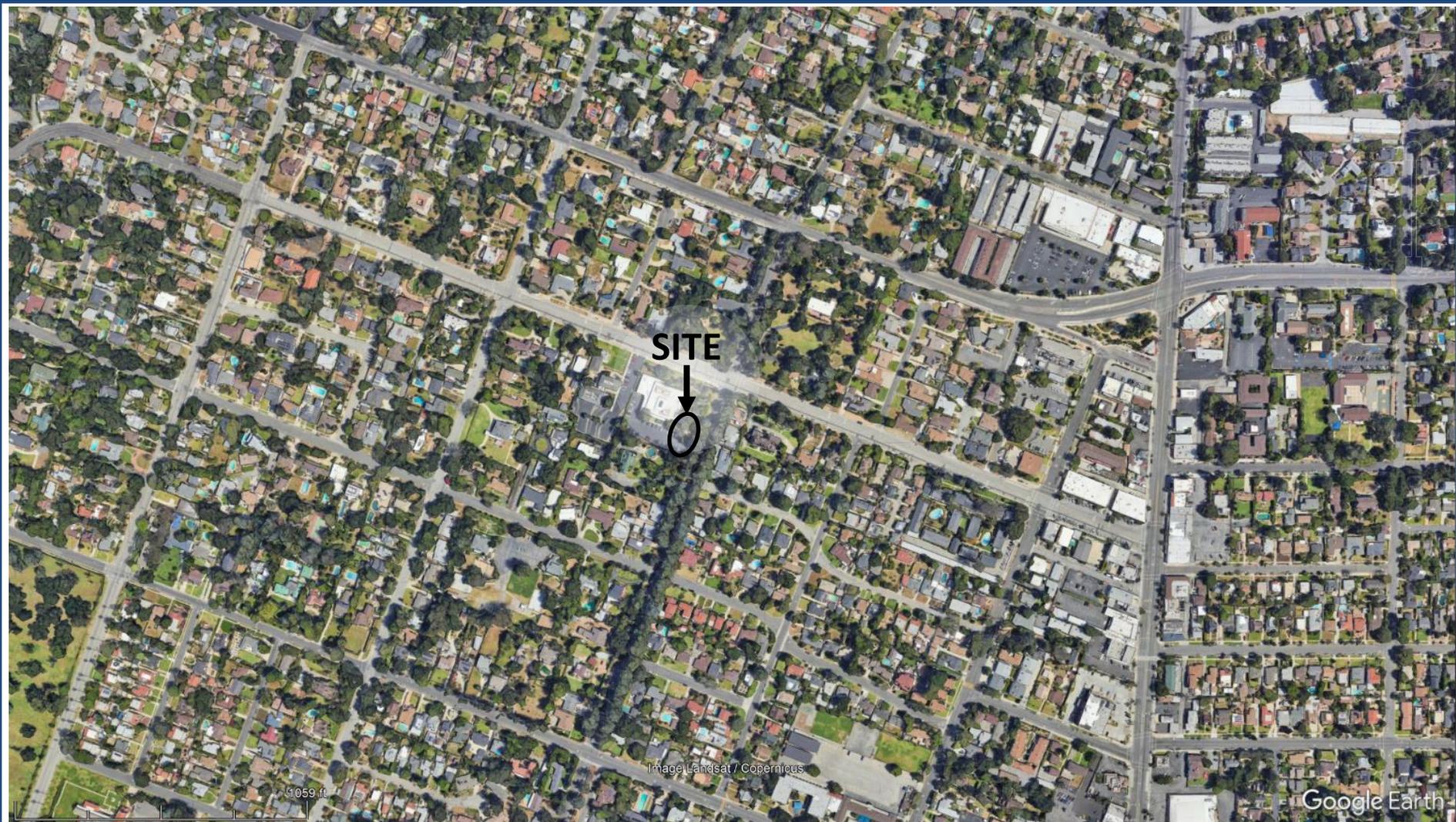
Sanjay Govil, PhD, PE, GE 2382
Principal Geotechnical Engineer

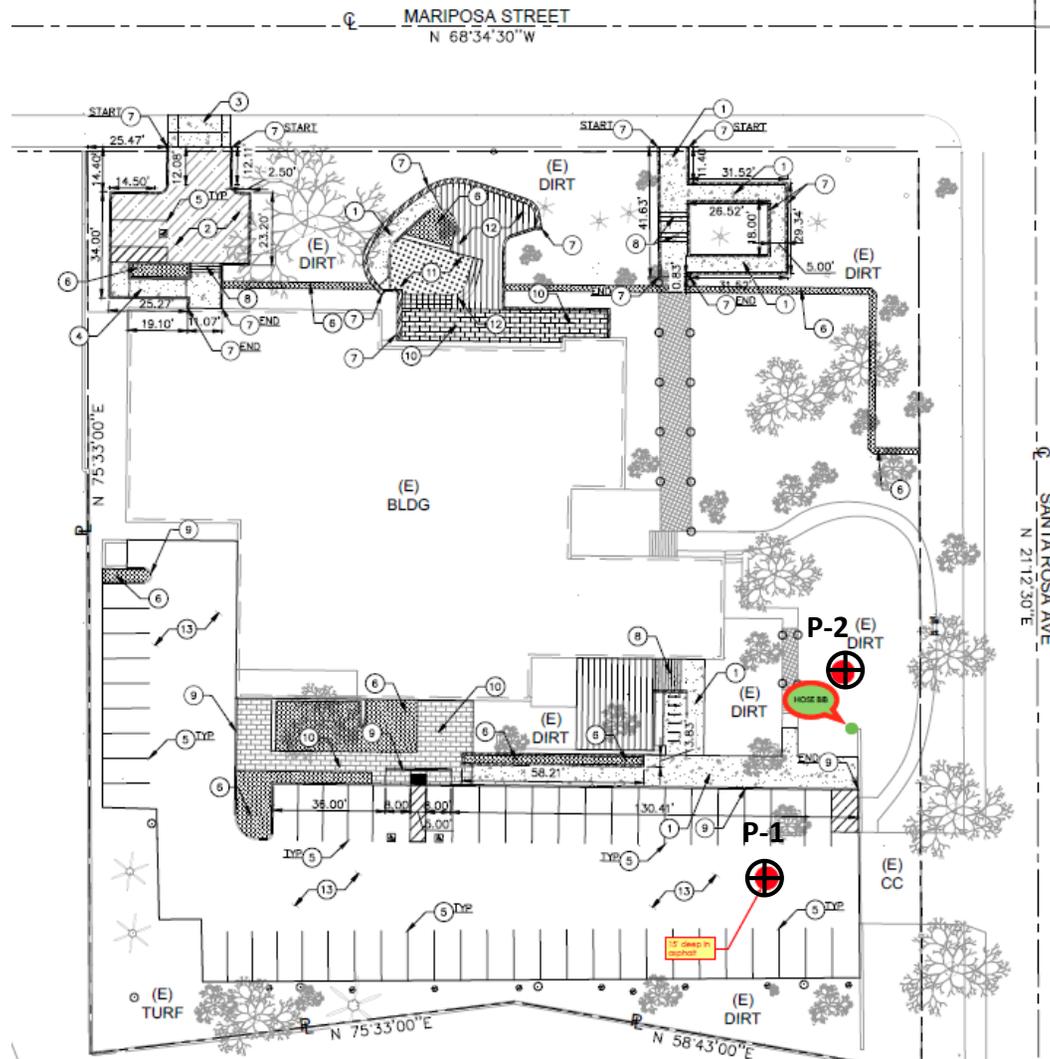
Attachments: Figure 1 – Site Location Map
Figure 2 – Boring Location Map
Figure 3 – Regional Geologic Map
Figure 4 – Historic High Groundwater Map

Table 1 – Percolation Test Worksheet

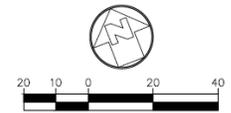
Plates 1 and 2 – Boring Logs

Distribution: (1) Addressee



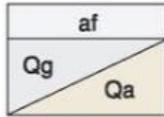


P-2
 APPROXIMATE LOCATION OF PERCOLATION BORING



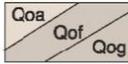
BORING LOCATION MAP
 ALTADENA LIBRARY
 626 EAST MARIPOSA STREET, CALIFORNIA

PROJECT NO. 23-7751
 FIGURE 2



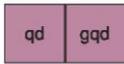
SURFICIAL SEDIMENTS

- af** Artificial fill
- Qg** Stream channel deposits of gravel, sand and silt
- Qa** Alluvium: unconsolidated floodplain deposits of silt, sand and gravel



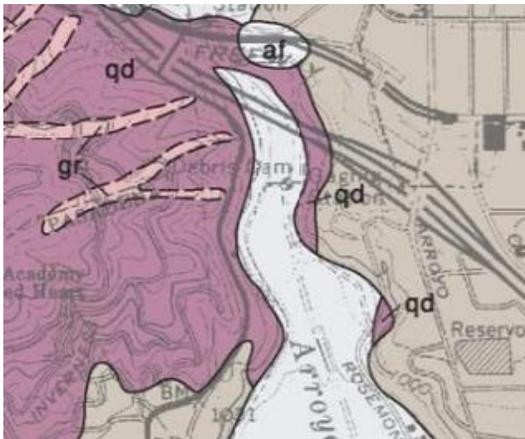
OLDER DISSECTED SURFICIAL SEDIMENTS

- Qoa** Remnants of older weakly consolidated alluvial deposits of gravel, sand and silt
- Qof** Alluvial fan gravel and sand derived from San Gabriel Mountains; includes some **Qg** and **Qa** in northern areas
- Qog** Elevated remnants of alluvial gravel and conglomerate deposits, weakly indurated; in San Gabriel Mountain foothills partly weathered reddish; in that area may locally include Pacoima and Saugus Formations of Smith (1986)



QUARTZ DIORITE

- (Wilson Diorite of Miller, 1934)
- Crook, et al., 1987, include units mapped as hornblende diorite, hornblende biotite diorite, and biotite hornblende diorite by Smith, 1986)
- Early Cretaceous age (122 m.y. B.P.)
- Gray, medium-grained quartz diorite to diorite, composed essentially of plagioclase feldspar (oligoclase-andesine), hornblende, biotite, and minor quartz; incoherent where weathered
- qd** Massive, non-gneissoid quartz diorite
- gqd** Massive to gneissoid quartz diorite, locally includes unmapped biotite-rich gneiss



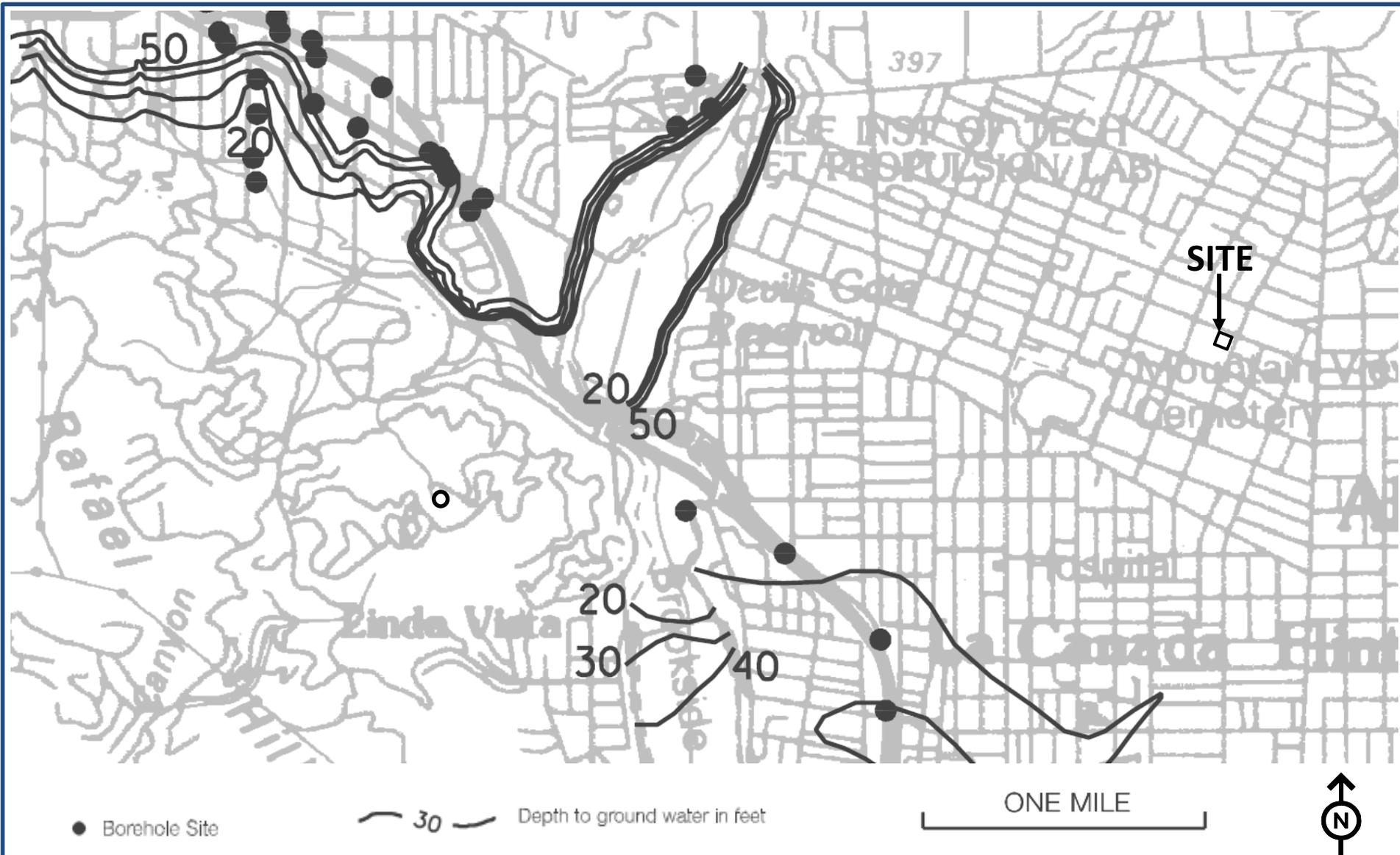
Modified From: Dibblee, T.W., and Ehrenspeck, H.E., ed., 1989, Geologic map of the Pasadena quadrangle, Los Angeles County, California: Dibblee Geological Foundation, DF-23, scale 1:24,000.



REGIONAL GEOLOGY MAP
ALTADENA LIBRARY
626 EAST MARIPOSA STREET, ALTADENA

PROJECT NO. 23-7751

FIGURE 3



Modified From: California Department of Conservation, Division of Mines and Geology, 1998, Seismic Hazard Zone Report for the Pasadena 7.5-Minute Quadrangle, Los Angeles County California, Report 014.

Table 1: Percolation Test Worksheet

Test Hole	Total Depth (in)	Initial Depth (in)	Final Depth (in)	ΔWater Level (in)	Initial Time (min)	Final Time (min)	Δ Time (min)	Initial Height of Water (in)	Final Height of Water (in)	Average Height of Water (in)	Gravel Factor	Infiltration Rate (in/hr)
P-1	180	15.0	64.7	49.7	0.0	10.0	10.0	165.0	115.3	140.2	0.54	2.26
	180	15.0	87.6	72.6	0.0	10.0	10.0	165.0	92.4	128.7	0.54	3.60
	180	15.0	80.5	65.5	0.0	10.0	10.0	165.0	99.5	132.2	0.54	3.16
	180	15.0	75.5	60.5	0.0	10.0	10.0	165.0	104.5	134.8	0.54	2.87
	180	15.0	70.6	55.6	0.0	10.0	10.0	165.0	109.4	137.2	0.54	2.59
	180	15.0	68.8	53.8	0.0	10.0	10.0	165.0	111.2	138.1	0.54	2.49
	180	15.0	68.5	53.5	0.0	10.0	10.0	165.0	111.5	138.3	0.54	2.47
P-2	120	14.4	87.5	73.1	0.0	10.0	10.0	105.6	32.5	69.1	0.54	3.38
	120	14.4	87.1	72.7	0.0	10.0	10.0	105.6	32.9	69.2	0.54	3.35
	120	14.4	84.5	70.1	0.0	10.0	10.0	105.6	35.5	70.6	0.54	3.17
	120	14.4	85.3	70.9	0.0	10.0	10.0	105.6	34.7	70.1	0.54	3.23
	120	14.4	84.2	69.8	0.0	10.0	10.0	105.6	35.8	70.7	0.54	3.15
	120	14.4	83.9	69.5	0.0	10.0	10.0	105.6	36.1	70.9	0.54	3.13

$$I_t = \frac{\Delta H(60r)}{\Delta t(r + 2H_{avg})}$$

ΔH = Change in height
 Δt = Time interval
 r = Radius

I_t Infiltration Rate
 H_{ave} Average Head Height over the time interval

APPENDIX E

SOUTHERN CALIFORNIA EDISON (SCE) SUBMITTAL

EX: 1661892E POLE
 45' CLASS 5
 RM: 1 - CU# PH-16-3P-#2-1
 RM: ___ CU# CL-CLP-#2-3-A-1 (892E TO P727)
 IN: 1 - CU# PH-16-3P-1/0-2
 IN: 3 - CU# FE-CO-16-2
 IN: ___ CU# CL-CLP-1/0-3-A-1 (892E TO P727)

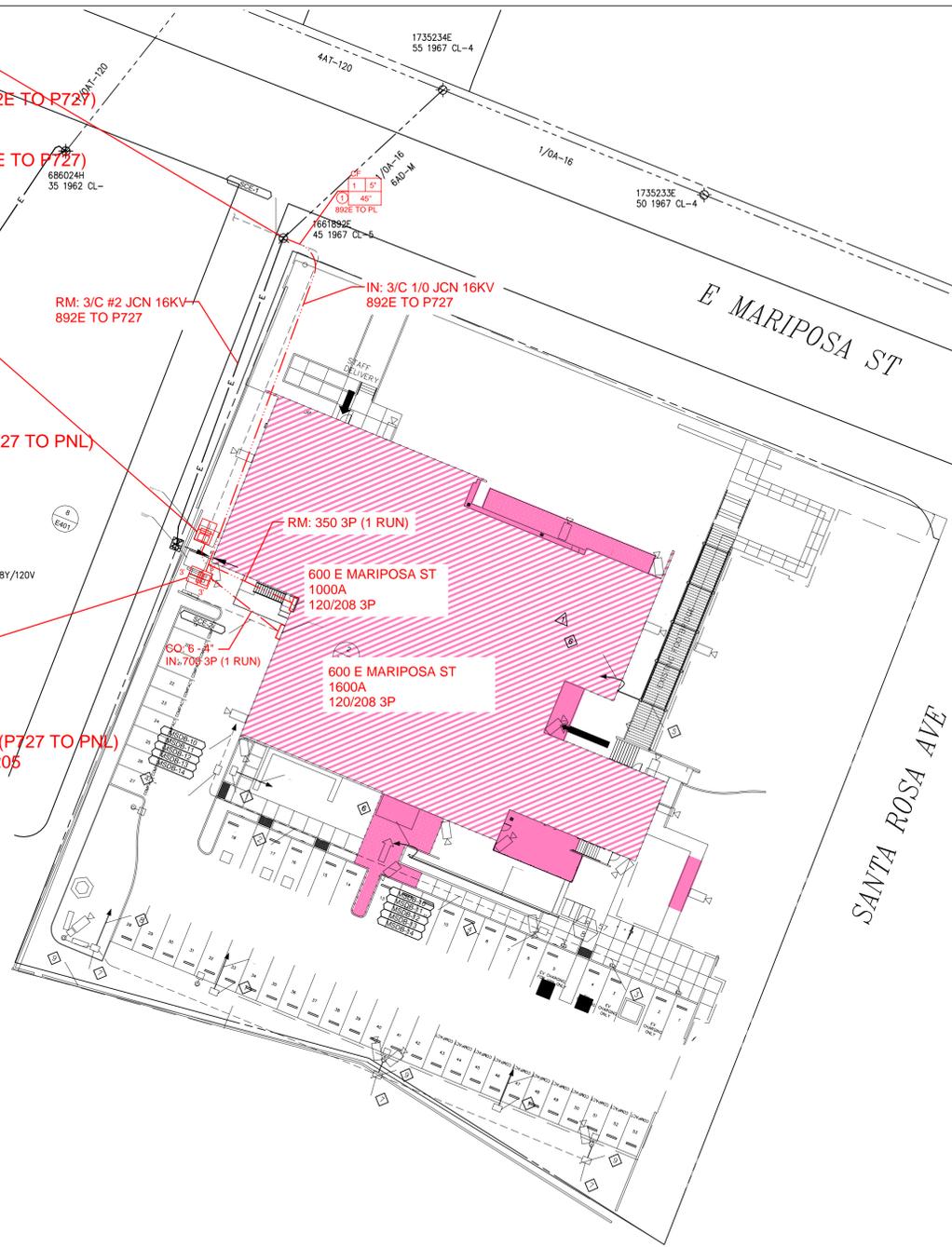
CO: 5007727 SLAB BOX
 6' x 8'6"
 RM: 1 - CU# T-U-150-16-DE-2
 RM: 2 - CU# CNN-HY-350-3P-1
 RM: 1 - CU# CNN-BLT-700-3P-1
 RM: ___ CU# CL-CLP-350-4-A-3 (P727 TO PNL)
 RM: 1 - CU# M-3P/4W-208-DM-205

1 CO: 5007727 PAD
 72" x 94" CONCRETE
 IN: 1 - CU# T-U-300-16-DE-9
 IN: 2 - CU# CNN-HY-700-3P-1
 IN: 1 - CU# CNN-BLT-700-3P-1
 IN: ___ CU# CL-CLP-700-4-A-4 (P727 TO PNL)
 IN: 1 - CU# M-3P/4W-208-DM-205

T.L.M. DATA: P5007727

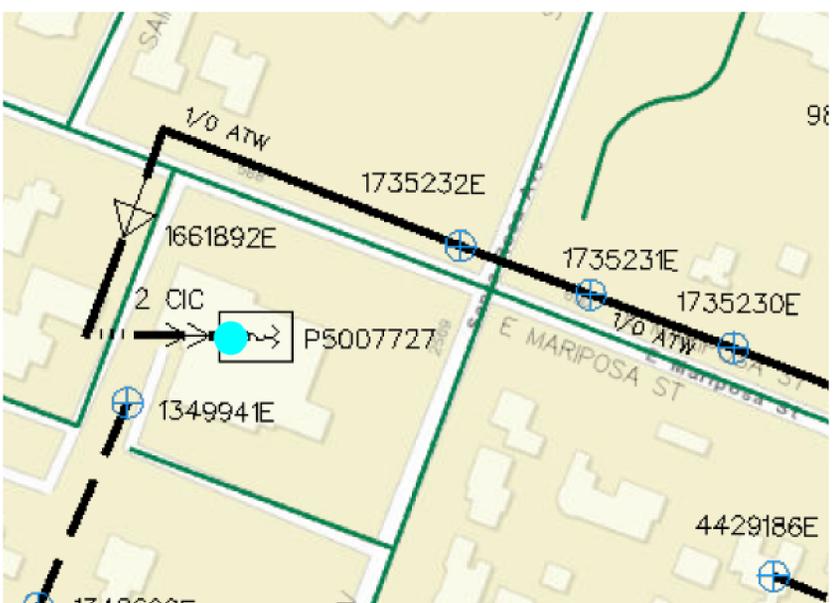
SIZE	KVA	CUST	% LOAD
EXIST. 150	77	1	51 %
PROP. 300	160	1	53 %

VOLTAGE DROP: 0.00%
 FLICKER FACTOR: 0.00%
 PRI. CIRCUIT: CIRCUIT NAME #KV



PROJECT REQUIREMENTS (Y/N)

EDISON EASEMENT REQUIRED	<input type="checkbox"/>
PWRD 88 REQUIRED	<input type="checkbox"/>
UG CIVIL ONLY WORK ORDER	<input type="checkbox"/>
PERMIT REQUIRED	<input checked="" type="checkbox"/>
PERMIT TYPE:	
OUTAGE REQUIRED	<input checked="" type="checkbox"/>
OUTAGE DATE:	TIME:
TRAFFIC CONTROL REQUIRED	<input checked="" type="checkbox"/>
PED. TRAFFIC CONTROL REQ'D	<input checked="" type="checkbox"/>
CONVEYANCE LETTER REQ'D	<input type="checkbox"/>
ENVIRONMENTAL CLEARANCE REQ'D	<input checked="" type="checkbox"/>
CSD 140 (TLM) REQ'D	<input checked="" type="checkbox"/>



SUBMITAL TO SCE - PENDING FINAL APPROVAL

DISTRICT	PROJECT NO.	SERVICE REQUEST	PROJ. MGR. PHONE	MSR NO.	PRODUCT-1	PLANNER PHONE	DESIGNER	ASSOC DESIGN
####	####	####	####	####	####	####	####	####
CIRCUIT / VOLTAGE	####	####	####	####	PRODUCT-2	####	####	ASSOC DESIGN
####	####	####	####	####	####	####	####	####
DESIGN / PG NO.	####	####	####	####	PRODUCT-3	####	####	ASSOC DESIGN
####	####	####	####	####	####	####	####	####
INVENTORY MAP	####	J.P.A. NO.	####	####	PROPOSED CONSTRUCTION (LOCATION)			
####	####	####	####	####	####	####	####	####
TYPE	DATE	APPROVED BY	CHECKED BY	DRAWN BY	PAX #	SHEET	DESIGN/DRWG NO.	####-####
Southern California Edison Company							## of ##	####-####

DRAWINGS

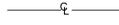
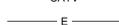
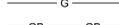
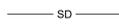
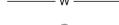
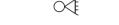
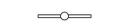
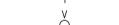
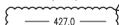
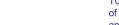
GENERAL NOTES:

- ALL WORK PERFORMED IN THIS CONTRACT SHALL CONFORM TO:
 - PROJECT SPECIFICATIONS.
 - THE LATEST EDITION AND SUPPLEMENTS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC) AND AMERICAN PUBLIC WORKS ASSOCIATION (APWA).
 - CALIFORNIA BUILDING CODE, LATEST VERSION.
 - ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE WORK SPECIFIED ON THE DRAWINGS AND WITHIN THE VARIOUS NOTES SHOWN HEREIN.
 - THE EXISTING CONDITIONS SHOWN DIAGRAMMATICALLY ON THE PLANS ORIGINATED FROM AS BUILT DRAWINGS AND FIELD SURVEY. ANY DISCREPANCY SHALL BE REPORTED IMMEDIATELY TO THE ARCHITECT/OAR USING THE PROPER REQUEST FOR INFORMATION FORMS PRIOR TO SUBMITTING HIS BID FOR PROPER ACTION.
 - THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES IN THE AREA OF WORK WHICH ARE NOT INCLUDED IN THIS CONSTRUCTION. ANY DAMAGE RESULTING FROM THIS WORK SHALL BE REPAIRED AND/OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- UNDERGROUND SERVICE ALERT:**
- BEFORE COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL OBTAIN AN UNDERGROUND SERVICE ALERT INQUIRY I.D. NUMBER BY CALLING 1-800-422-4133. TWO (2) WORKING DAYS SHALL BE ALLOWED AFTER THE I.D. NUMBER IS OBTAINED AND BEFORE THE EXCAVATION WORK IS STARTED SO THAT UTILITY OWNERS CAN BE NOTIFIED.
- PROTECTION AND RESTORATION OF EXISTING IMPROVEMENTS:**
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PUBLIC AND PRIVATE PROPERTY ADJACENT TO THE WORK PER SECTION 01-1100 OF THE STANDARD SPECIFICATIONS.
- REMOVALS:**
- EXISTING STRUCTURES AND SUBSTRUCTURES WHICH ARE INDICATED TO BE REMOVED IN THIS CONSTRUCTION DOCUMENTS SHALL BE TOTALLY REMOVED AND DISPOSED OF OFFSITE, UNLESS OTHERWISE INDICATED. EXISTING FACILITIES WHICH ARE DISCOVERED DURING CONSTRUCTION (INCLUDING WALLS, FOOTINGS AND FOUNDATIONS) SHALL BE REPORTED TO AND COORDINATED WITH THE ARCHITECT AS TO THEIR REMOVAL. CONTRACTOR WILL NOTIFY THE IOR AND OAR IN WRITING PRIOR TO COMMENCING THE WORK.
 - ALL SITE PREPARATION AS INDICATED SHALL BE MADE UNDER THE CONTINUOUS INSPECTION OF THE IOR. SECURE THE REQUIRED PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY FOR THE CONSTRUCTION OF TRENCHES, SHORING OR EXCAVATIONS WHICH ARE 5 FEET OR DEEPER OR WORK THAT MAY JEOPARDIZE THE WORKERS. SHORING CALCULATIONS SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED FOR APPROVAL AND PERMITTING.
 - THE CONTRACTOR SHALL KEEP THE CONSTRUCTION AREA SUFFICIENTLY DAMPENED TO CONTROL DUST CAUSED BY WORK ACTIVITIES AS REQUIRED BY THE DISTRICT AND JURISDICTIONAL AGENCY.
 - ALL FILL OR BACKFILL SHALL BE COMPACTED TO 90% MAXIMUM DENSITY PER GEOTECHNICAL REPORT.
 - CONSTRUCTION STAKING AND ADJUSTMENTS FOR IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR PAID FOR BY THE CONTRACTOR AND INCLUDED IN THE CONTRACT.
 - VOIDS RESULTING FROM REMOVAL WORK SHALL BE FILLED WITH SUITABLE MATERIALS APPROVED BY THE OWNER RETAINED GEOTECHNICAL ENGINEER AND COMPACTED TO 90% MAXIMUM DENSITY PER GEOTECHNICAL REPORT.
 - UPON COMPLETION OF THE PROJECT, CONTRACTOR SHALL REMOVE EXISTING CONSTRUCTION FENCING, APPURTENANCES AND OFFICE TRAILERS FROM THE SITE. PAVEMENT SHALL BE PATCHED AND REPAIRED TO MATCH ADJACENT PAVEMENT AND APPROVED BY THE IOR.
 - ANY ADDITIONAL SURVEYS OR TESTING AS A RESULT OF CONTRACTOR ERROR OR MISINFORMATION WILL BE CHARGED TO THE CONTRACTOR.
 - CONSTRUCT STRAIGHT GRADES BETWEEN ELEVATIONS SHOWN ON PLAN UNLESS INTERRUPTED BY A GRADE CHANGE LINE. ANY DEVIATION FROM THE GRADING PLAN MUST HAVE PRIOR APPROVAL FROM THE ARCHITECT.
 - GRADE LAWN, TURF, AND PLANTING AREA 1" BELOW DESIGN GRADES INDICATED.
 - ADJUST TO GRADE EXISTING MANHOLE RIMS, VALVE BOXES AND ELECTRICAL VAULT LIDS TO DESIGN GRADES WITHIN THE IMPROVEMENT AREA, UNLESS NOTED OTHERWISE.
 - MAINTAIN A RECORD OF LOCATION OF UTILITY MARKERS ON THE AS-BUILT PLAN AND REINSTALL THEM AFTER PAVING. REPLACE BENT OR UNUSABLE MARKERS FOR ALL UTILITY LINES DISCOVERED WITHIN THE WORK AREA. INSTALL BRASS UTILITY MARKERS INDICATING DIRECTIONS OF LINES AT ALL CHANGES IN DIRECTIONS AFTER PAVING. INFORM THE SURVEYOR TO LOCATE AND RECORD ACTUAL LOCATIONS.
 - IF EXISTING UTILITIES ARE EXPOSED OR DETERMINED TO EXIST UNDER THE ROUGH GRADING SITE, CONTRACTOR SHALL PROVIDE A FLAGGED STAKE THAT INDICATES THEIR LOCATION, TYPE OF UTILITY, SIZE, PIPE MATERIAL AND DEPTH. STAKES SHALL BE INSTALLED NO LESS THAN 50' ON CENTER ON STRAIGHT LINES AND AT BENDS.
 - UNCLOG, CLEAN AND FLUSH THE WORK AREA DRAINAGE SYSTEM AFTER PAVING AND IMMEDIATELY BEFORE A RAIN FORECAST.
 - ALL EXPORT OF MATERIAL FROM THE SITE MUST GO TO A PERMITTED SITE OR A LEGAL DUMPSITE. RECEIPTS FOR ACCEPTANCE OF EXCESS MATERIAL BY A DUMPSITE ARE REQUIRED AND MUST BE PROVIDED TO THE INSPECTOR OF RECORD UPON REQUEST.
 - A COPY OF THE GRADING PERMIT AND APPROVED GRADING PLANS MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE SITE AT ALL TIMES.
 - SITE BOUNDARIES, EASEMENTS, DRAINAGE DEVICES, RESTRICTED USE AREAS SHALL BE LOCATED PER CONSTRUCTION STAKING BY A LICENSED SURVEYOR. PRIOR TO GRADING, AS REQUESTED BY THE INSPECTOR OF RECORD, ALL PROPERTY LINES, EASEMENTS, AND RESTRICTED USE AREAS SHALL BE STAKED.
 - IF GRADING AUTHORIZED BY THIS PLAN IS TO EXTEND THROUGH THE RAINY SEASON, APRIL THROUGH NOVEMBER OF THE FOLLOWING YEAR, SEPARATE UPDATED PLANS FOR EROSION CONTROL MUST BE SUBMITTED PRIOR TO OCTOBER TO THE CITY ENGINEER FOR APPROVAL. CONTRACTOR TO PROVIDE STORM WATER PREVENTION PLAN, PRE-CONSTRUCTION AND POST CONSTRUCTION BMPs AND UPDATE FROM TIME TO TIME TO COMPLY WITH THE REQUIREMENTS.
 - CONTRACTOR SHALL INSTALL TEMPORARY FENCING AROUND THE PERIMETER OF THE CONSTRUCTION SITE AND STAGING AREA. FENCING SHALL BE MINIMUM 8' TALL AND SHALL HAVE A DUST/VISION BARRIER ALONG THE FULL LENGTH. THE DUST/VISION BARRIER SHALL EXTEND THE LENGTH OF THE CONSTRUCTION SITE. THE FENCING SHALL BE ANCHORED TO THE SURFACE AND SHALL BE ABLE TO WITHSTAND A 200-POUND HORIZONTAL POINT LOAD IN ANY DIRECTION. WORK AREA AND STAGING AREA SHALL BE SECURE AT ALL TIMES.
 - CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, INCLUDING NPDES, FROM THE APPROPRIATE JURISDICTIONAL AGENCIES FOR DISCHARGE OF GROUND WATER THAT MAY BE NECESSARY TO ACCOMPLISH EXCAVATIONS SHOWN ON THESE PLANS.

GENERAL NOTES (cont):

- STORM DRAINAGE SYSTEMS SHOWN ON THESE PLANS HAVE BEEN DESIGNED FOR THE FINAL SITE COLLECTION AT COMPLETION OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE OF THE SITE, DURING INTERIM CONDITIONS OF CONSTRUCTION.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE ARCHITECT WITH A COMPLETE SET OF REPRODUCIBLE "AS-BUILT" DRAWINGS OF ALL WORK PERFORMED UNDER THIS CONTRACT. AS SHOWN WITHIN THESE CONSTRUCTION DRAWINGS, ALL FIELD CHANGES SHALL BE SHOWN IN DETAIL ON THE "AS-BUILT" DRAWINGS AND SHALL INCORPORATE AS A MINIMUM, NEW ELEVATIONS, GRADES AND ALIGNMENT OF UNDERGROUND FACILITIES WITH DIMENSIONAL TIES TO BUILDINGS OR OTHER VISIBLE IMPROVEMENTS.
 - THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS.
 - THE PROPOSED GRADE IS THE FINAL GRADE AND NOT THE ROUGH GRADE. THE CONTRACTOR SHALL SUBTRACT THE THICKNESS OF THE PAVED SECTION AND/OR LANDSCAPE TOPSOIL SECTION TO ARRIVE AT THE ROUGH GRADE ELEVATION.
- GRADING NOTES:**
- ALL GRADING AND CONSTRUCTION SHALL CONFORM TO THE 2017 COUNTY OF LOS ANGELES BUILDING CODES AND THE STATE MODEL WATER EFFICIENCY LANDSCAPE ORDINANCE UNLESS SPECIFICALLY NOTED ON THESE PLANS.
 - ANY MODIFICATIONS OF OR CHANGES TO APPROVED GRADING PLANS MUST BE APPROVED BY THE BUILDING OFFICIAL.
 - NO GRADING SHALL BE STARTED WITHOUT FIRST NOTIFYING THE BUILDING OFFICIAL. A PRE-GRADING MEETING AT THE SITE IS REQUIRED BEFORE THE START OF THE GRADING WITH THE FOLLOWING PEOPLE PRESENT: OWNER, GRADING CONTRACTOR, DESIGN CIVIL ENGINEER, SOILS ENGINEER, GEOLOGIST, COUNTY GRADING INSPECTOR(S) OR THEIR REPRESENTATIVES, AND WHEN REQUIRED THE ARCHEOLOGIST OR OTHER JURISDICTIONAL AGENCIES. PERMITTEE OR HIS AGENT ARE RESPONSIBLE FOR ARRANGING PRE-GRADE MEETING AND MUST NOTIFY THE BUILDING OFFICIAL AT LEAST TWO BUSINESS DAYS PRIOR TO PROPOSED PRE-GRADE MEETING.
 - APPROVAL OF THESE PLANS REFLECT SOLELY THE REVIEW OF PLANS IN ACCORDANCE WITH THE COUNTY OF LOS ANGELES BUILDING CODES AND DOES NOT REFLECT ANY POSITION OF DISCOVERY OR RECOGNITION OF ANY HUMAN REMAINS OF PUBLIC WORKS REGARDING THE STATUS OF ANY TITLE ISSUES RELATING TO THE LAND ON WHICH THE IMPROVEMENTS MAY BE CONSTRUCTED. ANY DISPUTES RELATING TO TITLE ARE SOLELY A PRIVATE MATTER NOT INVOLVING THE COUNTY OF LOS ANGELES OR THE DEPARTMENT OF PUBLIC WORKS.
 - ALL GRADING AND CONSTRUCTION ACTIVITIES SHALL COMPLY WITH COUNTY OF LOS ANGELES CODE, TITLE 12, SECTION 12.12.030 THAT CONTROLS AND RESTRICTS NOISE FROM THE USE OF CONSTRUCTION AND GRADING EQUIPMENT FROM THE HOURS OF 8:00 PM TO 6:30 AM, AND ON SUNDAYS AND HOLIDAYS. (MORE RESTRICTIVE CONSTRUCTION ACTIVITY TIMES MAY GOVERN, AS REQUIRED BY THE DEPARTMENT OF REGIONAL PLANNING AND SHOULD BE SHOWN ON THE GRADING PLANS WHEN APPLICABLE.)
 - CALIFORNIA PUBLIC RESOURCES CODE (SECTION 5097.98) AND HEALTH AND SAFETY CODE (SECTION 7050.5) ADDRESS THE DISCOVERY AND DISPOSITION OF HUMAN REMAINS. IN THE EVENT OF DISCOVERY OF ANY HUMAN REMAINS IN ANY LOCATION OTHER THAN A DEDICATED CEMETERY, THE LAW REQUIRES THAT GRADING IMMEDIATELY STOPS AND NO FURTHER EXCAVATION OR DISTURBANCE OF THE SITE, OR ANY NEARBY AREA WHERE HUMAN REMAINS MAY BE LOCATED, OCCUR UNTIL THE FOLLOWING HAS BEEN MEASURED HAVE BEEN TAKEN:
 - THE COUNTY CORONER HAS BEEN INFORMED AND HAS DETERMINED THAT NO INVESTIGATION OF THE CAUSE OF DEATH IS REQUIRED, AND
 - IF THE REMAINS ARE OF NATIVE AMERICAN ORIGIN, THE DESCENDANTS FROM THE DECEASED NATIVE AMERICANS HAVE MADE A RECOMMENDATION FOR THE MEANS OF TREATING OR DISPOSING, WITH APPROPRIATE DIGNITY, OF THE HUMAN REMAINS AND ANY ASSOCIATED GRAVE GOODS.
 - THE LOCATION AND PROTECTION OF ALL UTILITIES IS THE RESPONSIBILITY OF THE PERMITTEE.
 - ALL EXPORT OF MATERIAL FROM THE SITE MUST GO TO A PERMITTED SITE APPROVED BY THE BUILDING OFFICIAL OR A LEGAL DUMPSITE. RECEIPTS FOR ACCEPTANCE OF EXCESS MATERIAL BY A DUMPSITE ARE REQUIRED AND MUST BE PROVIDED TO THE BUILDING OFFICIAL UPON REQUEST.
 - A COPY OF THE GRADING PERMIT AND APPROVED GRADING PLANS MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE SITE AT ALL TIMES.
 - SITE BOUNDARIES, EASEMENTS, DRAINAGE DEVICES, RESTRICTED USE AREAS SHALL BE LOCATED PER CONSTRUCTION STAKING BY FIELD ENGINEER OR LICENSED SURVEYOR. PRIOR TO GRADING, AS REQUESTED BY THE BUILDING OFFICIAL, ALL PROPERTY LINES, EASEMENTS, AND RESTRICTED USE AREAS SHALL BE STAKED.
 - NO GRADING OR CONSTRUCTION SHALL OCCUR WITHIN THE PROTECTED ZONE OF ANY OAK TREE AS REQUIRED PER TITLE CHAPTER 22.56 OF THE COUNTY OF LOS ANGELES ZONING CODE. THE PROTECTED ZONE SHALL MEAN THAT AREA WITHIN THE DRIP LINE OF AN OAK TREE EXTENDING THERE FROM A POINT AT LEAST FIVE FEET OUTSIDE THE DRIP LINE, OR 15 FEET FROM THE TRUNK(S) OF A TREE, WHICHEVER IS GREATER.
 - THE STANDARD RETAINING WALL DETAILS SHOWN ON THE GRADING PLANS ARE FOR REFERENCE ONLY. STANDARD RETAINING WALLS ARE NOT CHECKED, PERMITTED, OR INSPECTED PER THE GRADING PERMIT. A SEPARATE RETAINING WALL PERMIT IS REQUIRED FOR ALL STANDARD RETAINING WALLS.
 - A PREVENTIVE PROGRAM TO PROTECT THE SLOPES FROM POTENTIAL DAMAGE FROM BURROWING RODENTS IS REQUIRED PER SECTION J101.8 OF THE COUNTY OF LOS ANGELES BUILDING CODE. OWNER IS TO INSPECT SLOPES PERIODICALLY FOR EVIDENCE OF BURROWING RODENTS AND A FIRST EVIDENCE OF THEIR EXISTENCE SHALL EMPLOY AN EXTERMINATOR FOR THEIR REMOVAL.
 - WHERE A GRADING PERMIT IS ISSUED AND THE BUILDING OFFICIAL DETERMINES THAT THE GRADING WILL NOT BE COMPLETED PRIOR TO NOVEMBER 1, THE OWNER OF THE SITE ON WHICH THE GRADING IS BEING PERFORMED SHALL, ON OR BEFORE OCTOBER 1, FILE OR CAUSE TO BE FILED WITH THE BUILDING OFFICIAL AN ESCP PER SECTION J110.8.3 OF THE COUNTY OF LOS ANGELES BUILDING CODE.
 - TRANSFER OF RESPONSIBILITY: IF THE FIELD ENGINEER, THE SOILS ENGINEER, OR THE ENGINEERING GEOLOGIST OF RECORD IS CHANGED DURING GRADING, THE WORK SHALL BE STOPPED UNTIL THE REPLACEMENT HAS AGREED IN WRITING TO ACCEPT THEIR RESPONSIBILITY WITHIN THE AREA OF TECHNICAL COMPETENCE FOR APPROVAL UPON COMPLETION OF THE WORK. IT SHALL BE THE DUTY OF THE PERMITTEE TO NOTIFY THE BUILDING OFFICIAL IN WRITING OF SUCH CHANGE PRIOR TO THE RECOMMENCEMENT OF SUCH GRADING.
 - ALL GRADING SHALL CONFORM TO THE REQUIREMENTS OF THE GEOTECHNICAL REPORT PREPARED BY TGR GEOTECHNICAL, INC., DATED JULY 19, 2023.

LEGENDS:

- REMOVE EXISTING 3" AC PAVEMENT AND BASE MATERIAL, FULL DEPTH. 
- REMOVE EXISTING 4" CONCRETE PAVEMENT AND BASE MATERIAL, FULL DEPTH. 
- CLEAR, GRUB AND REMOVE EXISTING TURF/PLANTER/SHRUBS/EXPOSED SUBGRADE AREA. REMOVE EXISTING SHRUBS AND ROOTS IN THEIR ENTIRETY. 
- 3" THICK ASPHALT PAVEMENT OVER 4" BASE PER DETAIL 9 ON SHEET C-5.0. 
- 4" THICK CONCRETE PAVEMENT OVER 4" BASE PER DETAIL 1 ON SHEET C-5.0. 
- NEW PLANTER AREA PER LANDSCAPE DRAWINGS. 
- GRAVITY WALL PER DETAIL 3 ON SHEET C-5.0. 
- NEW STRIPING PER ARCHITECTURAL DRAWINGS. 
- CONCRETE PAVERS PER LANDSCAPE DRAWINGS. 
- CENTERLINE ----- 
- PROPERTY LINE ----- 
- RIGHT OF WAY ----- 
- CABLE TV LINE ----- CATV ----- 
- ELECTRICAL LINE ----- 
- GAS LINE ----- 
- GRADE BREAK LINE ----- GB ----- GB ----- 
- RIDGE LINE ----- R ----- R ----- 
- SEWER LINE ----- 
- STORM DRAIN LINE ----- SD ----- 
- TELEPHONE LINE ----- T ----- 
- OVERHEAD WIRES ----- OHW ----- 
- WATER LINE ----- W ----- 
- FIRE HYDRANT ----- 
- STREET LIGHT ----- 
- TRAFFIC SIGNAL ----- 
- TRAFFIC SIGNAL ARM & POLE ----- 
- LIGHT STANDARD ----- 
- UTILITY POLE ----- 
- GUY WIRE & ANCHOR ----- 
- WATER METER ----- 
- GAS METER ----- 
- WATER VALVE ----- 
- GAS VALVE ----- 
- PULL BOX ----- 
- GRATE INLET ----- 
- SIGN ----- 
- VENT ----- 
- SEWER MANHOLE ----- 
- STORM DRAIN MANHOLE ----- 
- TELEPHONE MANHOLE ----- 
- MANHOLE ----- 
- SEWER CLEANOUT ----- 
- MONITORING WELL ----- 
- HANDICAP PARKING STALL ----- 
- LANDSCAPED AREA ----- 
- PROTECT IN PLACE ----- 
- REMOVE AND DISPOSE OFFSITE -----
- RELOCATE -----
- PLOTABLE EASEMENT ITEM NO. PER TITLE REPORT -----
- EXIST. CONTOUR ----- (427.0) -----
- DESIGN CONTOUR ----- 427.0 -----
- TREE, SPECIES VARIES LABELED TREE -----
- PALM TREE LABELED TREE NUMBER -----

ABBREVIATIONS:

AB	AGGREGATE BASE	N	NORTH
AC	ASPHALT CONCRETE	NG	NATURAL GROUND
APWA	AMERICAN PUBLIC WORKS ASSOCIATION	NAT	NAIL & TAG
BLK	CONCRETE BLOCK	NIO	NORTH OF
BMP	BEST MANAGEMENT PRACTICE	NLY	NORTHERLY
BS	BACK OF SIDEWALK	OAR	OWNER AUTHORIZED REPRESENTATIVE
C	CALCULATED DATA	OHW	OVERHEAD WIRE
CAB	CRUSHED AGGREGATE BASE	PB	PULL BOX
CB	CATCH BASIN	PCC	CONCRETE
CF	CURB FACE	PIV	POST INDICATOR VALVE
CL	CENTERLINE	PL	PROPERTY LINE
CLF	CHAIN LINK FENCE	PRO	PROPORTIONATE MEASUREMENT
CO	CLEANOUT	R	RADIUS
D OR Δ	DELTA	RD	ROOF DRAIN
DCV	DETECTOR CHECK VALVE	RWH	REDWOOD HEADER
DS	ROOF DOWNSPOUT	RW	RIGHT OF WAY
(E)	EXISTING	(RAD)	RADIAL BEARING
E	EAST	S	SOUTH
EG	EDGE OF GUTTER	SCB	SIGNAL CONTROL BOX
EO	ELECTRICAL OUTLET	SMH	SEWER MANHOLE
EP	EDGE OF PAVEMENT	SPK	SPIKE
E/O	EAST OF	SSPWC	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
ELY	EASTERLY	SW	SIDEWALK
FDC	FIRE DEPT. CONNECTION	S/O	SOUTH OF
FF	FINISHED FLOOR	S'LY	SOUTHERLY
FG	FINISHED GRADE	T	TANGENT
FH	FIRE HYDRANT	TC	TOP OF CURB
FL	FLOW LINE	TE	TRASH ENCLOSURE
FS	FINISHED SURFACE	TP	TELEPHONE CALL
FT	FEET	TRAN	TRANSITION
GB	GRADE BREAK	TRANS	TRANSFORMER
GM	GAS METER	TW	TOP OF WALL
GR	TOP OF GRATE	TYP	TYPICAL
HB	HOSE BB	UG	UNDERGROUND
HP	HIGH POINT	UNK	UNKNOWN
HT	HEIGHT	UP	UTILITY POLE
ICV	IRRIGATION CONTROL VALVE	VAR	VARIABLE
IOR	INSPECTOR OF RECORDS	W	WEST
IP	IRON PIPE	WDF	WOOD FENCE
L	LENGTH	WIF	WROUGHT IRON FENCE
LID	LOW IMPACT DEVELOPMENT	WM	WATER METER
LS	LIGHT STANDARD	WV	WATER VALVE
L&T	LEAD & TAG	W/O	WEST OF
M	MEASURED DATA	WLY	WESTERLY
MAX	MAXIMUM		
MH	MANHOLE		
MIN	MINIMUM		

SHEET INDEX:

C-1.0	GENERAL NOTES, LEGENDS AND ABBREVIATIONS
C-1.1	TOPOGRAPHIC SURVEY
CD-1.0	SITE DEMOLITION PLAN
C-2.0	SITE CONTROL PLAN
C-3.0	OVERALL SITE GRADING PLAN
C-3.1	ENLARGED SITE GRADING PLAN
C-3.2	ENLARGED SITE GRADING PLAN
C-3.3	GRADING SECTIONS
C-3.4	OVEREXCAVATION PLAN
C-4.0	SITE UTILITY PLAN
C-4.1	LID PLAN
C-5.0	MISCELLANEOUS DETAILS
C-5.1	MISCELLANEOUS DETAILS
C-5.2	MISCELLANEOUS DETAILS
C-5.3	MISCELLANEOUS DETAILS
C-6.0	EROSION CONTROL PLAN
C-6.1	EROSION CONTROL DETAILS



VICINITY MAP
NOT TO SCALE



October 3, 2025 TGR Geotechnical, Inc (TGR) TGR has reviewed these plans and found them to be in general conformance with the project geotechnical reports and addendums. TGR makes no representation as to accuracy of dimension, measurements, calculations or any review of the design.



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BUILDING PERMIT SUBMITTAL

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NO. DATE REVISIONS

1	06/24/2024	BUILDING PERMIT SUBMITTAL
2	08/01/2025	GRADING PERMIT SUBMITTAL #2
	10/28/2025	ADDENDUM 06

PROJECT TITLE:

ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010

DATE: 06-24-2024

SHEET TITLE:

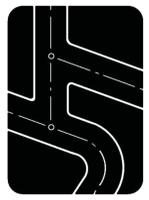
GENERAL NOTES, LEGENDS AND ABBREVIATION

SCALE: As indicated

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NO.	REVISIONS	DATE

Prepared by:
Joseph C. Truxaw and Associates, Inc.
 Civil Engineers and Land Surveyors
 1915 W. Orangewood Ave., Suite 101, Orange, CA 92668 (714) 935-0265 truxaw.com



TOPOGRAPHIC SURVEY
 ALTADENA MAIN LIBRARY
 600 E. MARIPOSA STREET
 ALTADENA IN THE UNINCORPORATED AREA OF THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA

BUILDING PERMIT SUBMITTAL

CONSULTANTS LOGO

JCA ENGINEERS LLP
 1025 S. GARDEN AVENUE
 ANAHEIM, CA 92805
 TEL: 714.771.9999
 FAX: 714.771.9995

STAMP

NO.	DATE	REVISIONS
1	06/24/2024	BUILDING PERMIT SUBMITTAL
2	08/01/2025	GRADING PERMIT SUBMITTAL #2
	10/28/2025	ADDENDUM 06

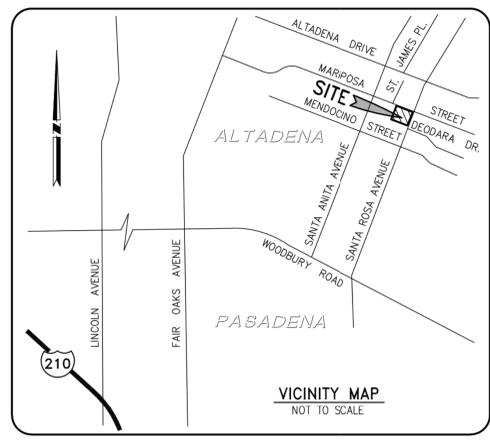
PROJECT TITLE:
ALTADENA MAIN LIBRARY
 600 E. MARIPOSA STREET
 ALTADENA, CA 91001

PROJECT NO. 2111010
 DATE: 06-24-2024
 SHEET TITLE:

TOPOGRAPHIC SURVEY

SCALE: As Indicated

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BASIS OF BEARINGS
 THE BEARING OF N68°57'20"W FOR THE CENTERLINE OF MARIPOSA STREET AS SHOWN ON RECORD OF SURVEY, FILED IN BOOK 252 PAGE 96 OF RECORDS OF SURVEY OF LOS ANGELES COUNTY, WAS USED FOR THE BASIS OF BEARINGS FOR THIS PLAN.

BENCHMARK
 LOS ANGELES COUNTY PUBLIC WORKS BENCHMARK NUMBER HY11205
 L&T IN S. CB 1FT W/O BCR @ SW COR ALTADENA DR & SANTA ROSA AVE
 ELEVATION: 1357.085 FEET (QUAD YEAR 2013)

CENTERLINE AND BOUNDARY NOTE
 THIS IS A TOPOGRAPHIC SURVEY ONLY. THE PROJECT SCOPE DID NOT INCLUDE THE ESTABLISHMENT OF BOUNDARY LINES NOR WAS A TITLE REPORT PROVIDED FROM WHICH THIS COULD BE ACHIEVED. THE CENTERLINES SHOWN ARE ESTIMATED & BASED ONLY ON RECORD DATA & FIELD MONUMENTS FOUND.

THERE MAY BE EASEMENTS, DEDICATIONS, ENCROACHMENTS AND ENCUMBRANCES ON AND ACROSS THE SUBJECT PROPERTY WHICH ARE NOT SHOWN OR EVIDENT BASED ON THIS TOPOGRAPHIC SURVEY.

THIS TOPOGRAPHIC SURVEY MAKES NO ATTEMPT TO IDENTIFY OWNERSHIP. THE RESEARCH AND PLOTTING OF UNDERGROUND UTILITIES WAS NOT INCLUDED IN THE SCOPE OF SERVICES FOR THIS PLAN.

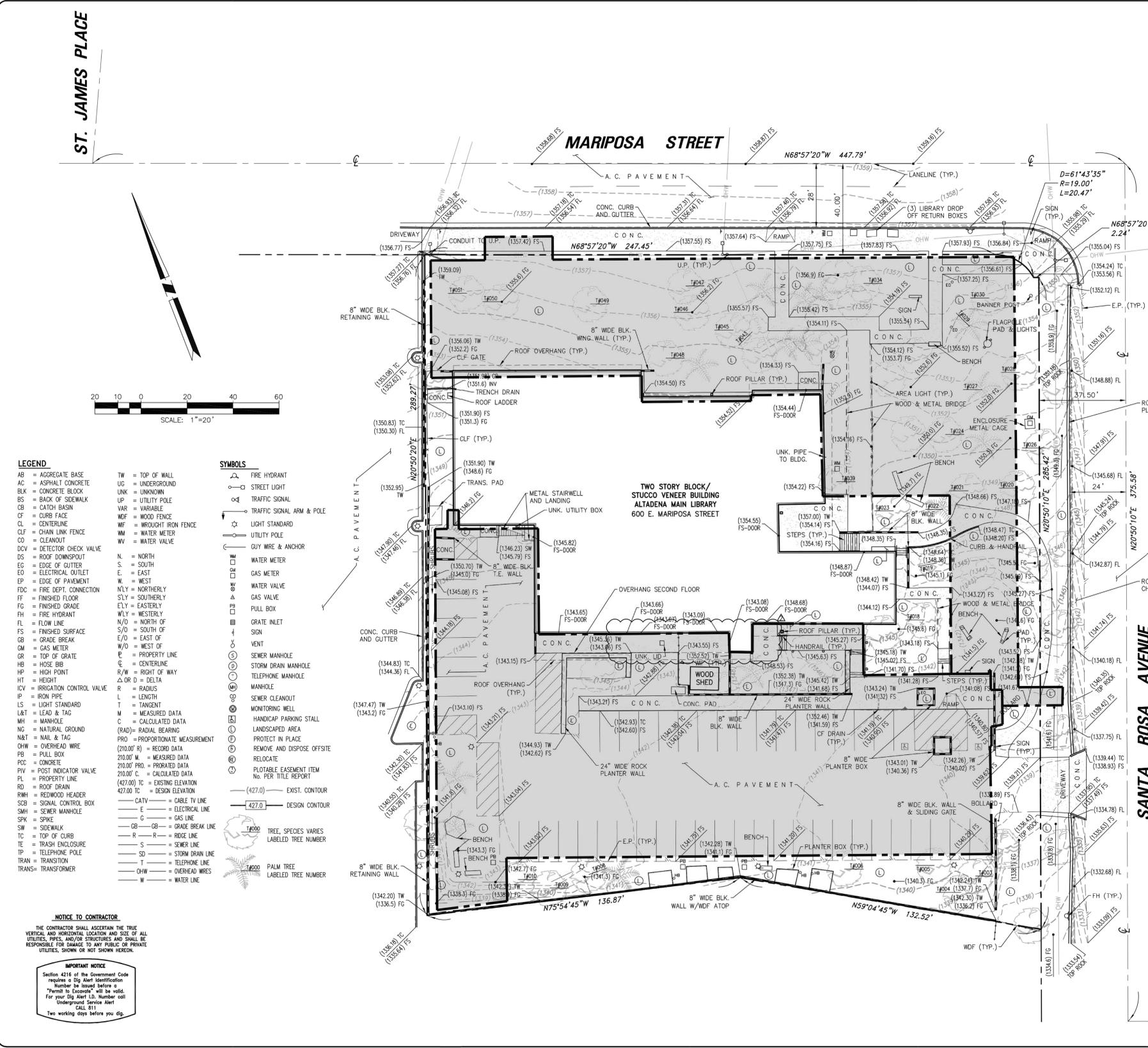
THIS SURVEY WAS MADE BY ME OR UNDER MY DIRECTION.
 THE FIELD WORK WAS COMPLETED ON SEPTEMBER 22 & 26, 2023

Michael P. Hernandez DATE: 09/29/2023
 PROFESSIONAL LAND SURVEYOR NO. 9281

PLAN PREPARED FOR
HUCKABEE
 8640 NATIONAL BOULEVARD
 CULVER CITY, CA 90232

DEODARA DRIVE

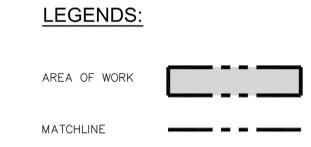
FOR REFERENCE ONLY



- LEGEND**
- AB = AGGREGATE BASE
 - AC = ASPHALT CONCRETE
 - BLK = CONCRETE BLOCK
 - BS = BACK OF SIDEWALK
 - CB = CATCH BASIN
 - CF = CURB FACE
 - CL = CENTERLINE
 - CLF = CHAIN LINK FENCE
 - CO = CLEANOUT
 - DCV = DETECTOR CHECK VALVE
 - DS = ROOF DOWNSPOUT
 - EG = EDGE OF GUTTER
 - EO = ELECTRICAL OUTLET
 - EP = EDGE OF PAVEMENT
 - FDC = FIRE DEPT. CONNECTION
 - FF = FINISHED FLOOR
 - FG = FINISHED GRADE
 - FH = FIRE HYDRANT
 - FL = FLOW LINE
 - FS = FINISHED SURFACE
 - GB = GRADE BREAK
 - GM = GAS METER
 - GT = TOP OF GRATE
 - HB = HOSE BIB
 - HP = HIGH POINT
 - HT = HEIGHT
 - ICV = IRRIGATION CONTROL VALVE
 - IP = IRON PIPE
 - LS = LIGHT STANDARD
 - L&T = LEAD & TAG
 - MH = MANHOLE
 - NG = NATURAL GROUND
 - N&T = NAIL & TAG
 - CHW = OVERHEAD WIRE
 - PB = PULL BOX
 - PCC = CONCRETE
 - PIV = POST INDICATOR VALVE
 - PL = PROPERTY LINE
 - RD = ROOF DRAIN
 - RWH = REDWOOD HEADER
 - SCB = SIGNAL CONTROL BOX
 - SMH = SEWER MANHOLE
 - SPK = SPIKE
 - SW = SIDEWALK
 - TC = TOP OF CURB
 - TE = TRASH ENCLOSURE
 - TP = TELEPHONE POLE
 - TRAN = TRANSITION
 - TRANS = TRANSFORMER
 - TW = TOP OF WALL
 - UC = UNDERGROUND
 - UNK = UNKNOWN
 - UP = UTILITY POLE
 - VAR = VARIABLE
 - WDF = WOOD FENCE
 - WF = WROUGHT IRON FENCE
 - WM = WATER METER
 - WW = WATER VALVE
 - N = NORTH
 - S = SOUTH
 - E = EAST
 - W = WEST
 - NLY = NORTHERLY
 - SLY = SOUTHERLY
 - Ely = EASTERLY
 - Wly = WESTERLY
 - N/O = NORTH OF
 - S/O = SOUTH OF
 - E/O = EAST OF
 - W/O = WEST OF
 - Q = QUAD
 - Q = CENTERLINE
 - R/W = RIGHT OF WAY
 - Δ OR D = DELTA
 - R = RADIUS
 - L = LENGTH
 - T = TANGENT
 - M = MEASURED DATA
 - C = CALCULATED DATA
 - (RAD) = RADIAL BEARING
 - PRO = PROPORTIONATE MEASUREMENT
 - (210.00) R = RECORD DATA
 - 210.00 M = MEASURED DATA
 - 210.00 PRO. = PRORATED DATA
 - 210.00 C. = CALCULATED DATA
 - (427.00) TC = EXISTING ELEVATION
 - 427.00 TC = DESIGN ELEVATION
 - (427.0) = EXIST. CONTOUR
 - 427.0 = DESIGN CONTOUR
 - TREE, SPECIES VARIES
 - LABELLED TREE NUMBER
 - PALM TREE
 - LABELLED TREE NUMBER

NOTICE TO CONTRACTOR
 THE CONTRACTOR SHALL ASCERTAIN THE TRUE VERTICAL AND HORIZONTAL LOCATION AND SIZE OF ALL UTILITIES, PIPES, AND/OR STRUCTURES AND SHALL BE RESPONSIBLE FOR DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES, SHOWN OR NOT SHOWN HEREON.

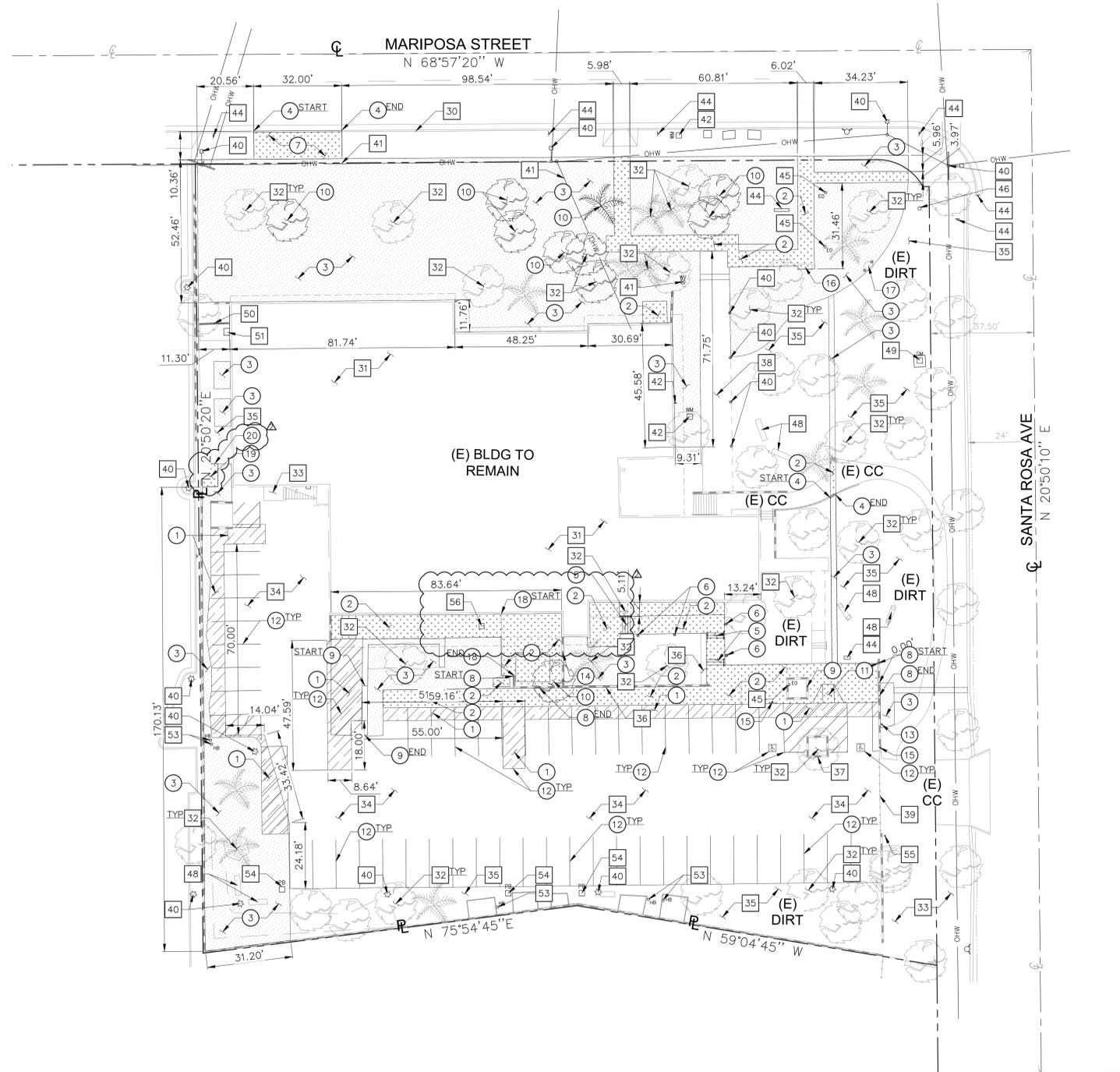
IMPORTANT NOTICE
 Section 4216 of the Government Code requires a Dig Alert identification Number be issued before a "Permit to Excavate" will be valid. For your Dig Alert I.D. Number call Underground Service Alert CALL 811 Two working days before you dig.





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Claremont, CA 91711



REMOVAL NOTES:

- 1 REMOVE EXISTING 3" THICK AC PAVEMENT AND BASE MATERIAL, FULL DEPTH.
- 2 REMOVE EXISTING 4" THICK CONCRETE PAVEMENT AND BASE MATERIAL, FULL DEPTH.
- 3 CLEAR, GRUB AND REMOVE EXISTING TURF/PLANTER/HEADER/EXPOSED SUBGRADE AREA. REMOVE EXISTING SHRUBS AND ROOTS.
- 4 REMOVE EXISTING CURB IN ITS ENTIRETY.
- 5 REMOVE EXISTING CONCRETE STAIR.
- 6 REMOVE EXISTING LIGHT POST.
- 7 REMOVE EXISTING CONCRETE SIDEWALK.
- 8 REMOVE EXISTING CMU WALL.
- 9 REMOVE EXISTING PLANTER WALL.
- 10 REMOVE EXISTING TREE.
- 11 REMOVE EXISTING CURB RAMP.
- 12 REMOVE EXISTING STRIPING.
- 13 REMOVE EXISTING BOLLARD.
- 14 REMOVE EXISTING RETAINING WALL.
- 15 REMOVE EXISTING SIGNAGE.
- 16 REMOVE EXISTING BENCH.
- 17 REMOVE EXISTING FLAGPOLE, BASE, LIGHTS AND FOOTING. RETURN FLAG TO OWNER.
- 18 REMOVE EXISTING FENCE IN ITS ENTIRETY.
- 19 REMOVE EXISTING CONCRETE SLAB.
- 20 REMOVE EXISTING TRANSFORMER. COORDINATE WITH ELECTRICAL DRAWINGS PRIOR TO REMOVAL.

PROTECT-IN-PLACE NOTES:

- 30 PROTECT IN PLACE EXISTING CONCRETE CURB.
- 31 PROTECT IN PLACE EXISTING BUILDING.
- 32 PROTECT IN PLACE EXISTING TREES, SHRUBS, SOD, ETC. COORDINATE WITH LANDSCAPE DRAWINGS.
- 33 PROTECT IN PLACE EXISTING CONCRETE PAVEMENT.
- 34 PROTECT IN PLACE EXISTING ASPHALT PAVEMENT. PROVIDE NEW SLURRY COAT.
- 35 PROTECT IN PLACE EXISTING PLANTER AREA.
- 36 PROTECT IN PLACE EXISTING CMU WALL.
- 37 PROTECT IN PLACE EXISTING PLANTER WALL.
- 38 PROTECT IN PLACE EXISTING WOODEN BRIDGE.
- 39 PROTECT IN PLACE EXISTING SLIDING GATE.
- 40 PROTECT IN PLACE EXISTING LIGHT POLE.
- 41 PROTECT IN PLACE EXISTING OVERHEAD WIRE LINE.
- 42 PROTECT IN PLACE EXISTING WATER VALVE.
- 43 PROTECT IN PLACE EXISTING WATER METER.
- 44 PROTECT IN PLACE EXISTING SIGNAGE.
- 45 PROTECT IN PLACE EXISTING ELECTRICAL OUTLET.
- 46 PROTECT IN PLACE EXISTING BANNER POST.
- 47 PROTECT IN PLACE EXISTING UNKNOWN PIPE.
- 48 PROTECT IN PLACE EXISTING BENCH.
- 49 PROTECT IN PLACE EXISTING GAS METER.
- 50 PROTECT IN PLACE EXISTING TRENCH DRAIN.
- 51 PROTECT IN PLACE EXISTING ROOF LADDER.
- 52 NOT USED.
- 53 PROTECT IN PLACE EXISTING HOSE BIB.
- 54 PROTECT IN PLACE EXISTING PULL BOX.
- 55 PROTECT IN PLACE EXISTING BOLLARD.
- 56 PROTECT IN PLACE EXISTING UNKNOWN LID.

REMOVAL LEGEND:

- REMOVE EXISTING 3" AC PAVEMENT AND BASE MATERIAL, FULL DEPTH.
- REMOVE EXISTING 4" CONCRETE PAVEMENT AND BASE MATERIAL, FULL DEPTH.
- CLEAR, GRUB AND REMOVE EXISTING TURF/PLANTER/SHRUBS/EXPOSED SUBGRADE AREA. REMOVE EXISTING SHRUBS AND ROOTS IN THEIR ENTIRETY.

SHEET NOTES:

- 1. FOR GENERAL NOTES, LEGENDS AND ABBREVIATIONS, SEE SHEET C-1.0.
- 2. SEE ARCHITECTURAL DRAWINGS FOR OTHER SITE RELATED DIMENSIONS NOT SHOWN ON THIS DRAWING.
- 3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND SURFACE AND/OR UNDERGROUND UTILITIES IN CONFLICT WITH THE PROPOSED DEMOLITION AND DESIGN ITEMS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND/OR CONSTRUCTION RELATED ISSUES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.
- 4. CONTRACTOR TO VERIFY IN FIELD THE JOINING TO EXISTING ELEVATION AND THE CURRENT SITE CONDITION WITH THE DESIGN GRADES. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.



SITE DEMOLITION PLAN



SCALE: 1"=20'

BUILDING PERMIT SUBMITTAL

CONSULTANTS LOGO



STAMP



NO. DATE REVISIONS

NO.	DATE	REVISIONS
1	06/24/2024	BUILDING PERMIT SUBMITTAL
2	08/01/2025	GRADING PERMIT SUBMITTAL #2
	10/28/2025	ADDENDUM 06

PROJECT TITLE:

ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010

DATE: 06-24-2024

SHEET TITLE:

SITE DEMOLITION PLAN

SCALE: As Indicated

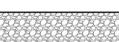
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CD-1.0

CONSTRUCTION NOTES:

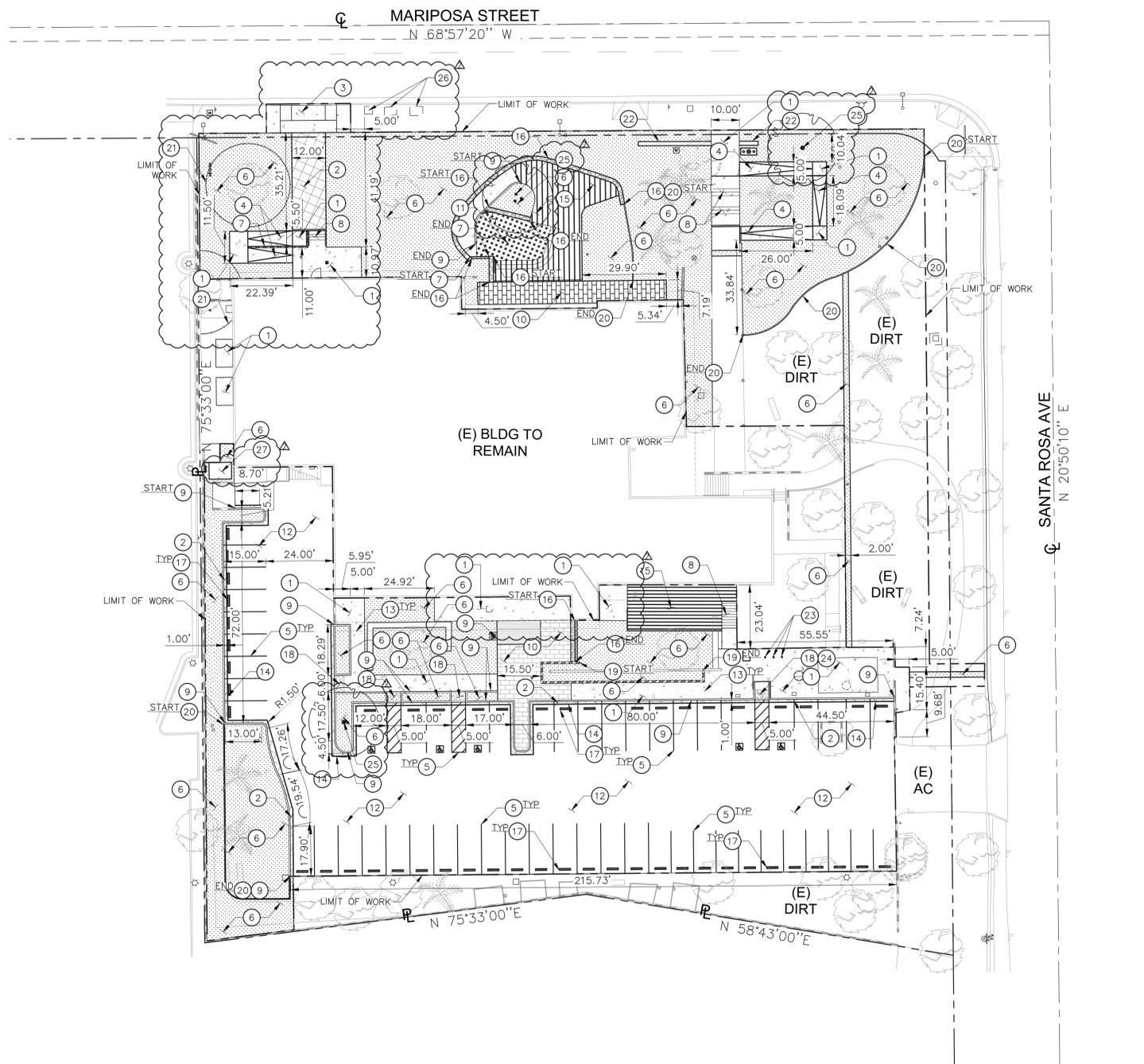
- 1 4" THICK CONCRETE PAVEMENT OVER 4" BASE PER DETAIL 1 ON SHEET C-5.0.
- 2 3" THICK ASPHALT PAVEMENT OVER 4" BASE PER DETAIL 9 ON SHEET C-5.0.
- 3 CONSTRUCT DRIVEWAY PER CITY OF LOS ANGELES STANDARD DRAWING S-440-4.
- 4 CONSTRUCT CONCRETE RAMP PER ARCHITECTURAL DRAWINGS.
- 5 NEW STRIPING PER ARCHITECTURAL DRAWINGS.
- 6 NEW PLANTER AREA PER LANDSCAPE DRAWINGS.
- 7 CONSTRUCT GRAVITY WALL PER DETAIL 3 ON SHEET C-5.0.
- 8 CONSTRUCT CONCRETE STAIRS/HANDRAIL PER LANDSCAPE DRAWING 7/L110.
- 9 CONSTRUCT CONCRETE CURB PER DETAIL 8 ON SHEET C-5.0.
- 10 CONSTRUCT CONCRETE PAVERS PER LANDSCAPE DRAWINGS.
- 11 INSTALL SYNTHETIC TURF PER LANDSCAPE DRAWINGS.
- 12 PROVIDE NEW SLURRY COAT FOR EXISTING ASPHALT PAVEMENT.
- 13 INSTALL CONTROL JOINTS, EXPANSION JOINTS AND CONSTRUCTION JOINT. SEE DETAIL 2 ON SHEET C-5.0.
- 14 SAWCUT AND JOIN TO MATCH EXISTING CONDITION.
- 15 INSTALL WOODEN DECK PER ARCHITECTURAL DRAWINGS.
- 16 CONSTRUCT STONE VENEER SEAT WALL PER LANDSCAPE DRAWINGS.
- 17 REINSTALL EXISTING WHEELSTOP PER ARCHITECTURAL DRAWINGS.
- 18 INSTALL NEW TRUNCATED DOME PER LANDSCAPE DRAWINGS.
- 19 CONSTRUCT PLANTER WALL PER LANDSCAPE DRAWINGS.
- 20 INSTALL STEEL EDGING PER LANDSCAPE DRAWINGS.
- 21 INSTALL CHAINLINK FENCE PER ARCHITECTURAL DRAWINGS.
- 22 CONSTRUCT ENTRY SIGN WALL PER LANDSCAPE DRAWINGS.
- 23 INSTALL BIKE RACK PER LANDSCAPE DRAWINGS.
- 24 CONSTRUCT ACCESSIBLE CURB RAMP PER ARCHITECTURAL DRAWINGS.
- 25 NEW TREE PER LANDSCAPE DRAWINGS.
- 26 RELOCATE DROP BOXES PER LANDSCAPE DRAWINGS.
- 27 SLAB BOX PER ELECTRICAL DRAWINGS. REFER TO DETAIL 8/E401.

LEGENDS:

-  3" THICK ASPHALT PAVEMENT OVER 4" BASE PER DETAIL 9 ON SHEET C-5.0
-  4" THICK CONCRETE PAVEMENT OVER 4" BASE PER DETAIL 1 ON SHEET C-5.0
-  NEW PLANTER AREA PER LANDSCAPE DRAWINGS.
-  GRAVITY WALL PER DETAIL 3 ON SHEET C-5.0
-  NEW STRIPING PER ARCHITECTURAL DRAWINGS
-  CONCRETE PAVERS PER LANDSCAPE DRAWINGS.
-  CONSTRUCT STONE VENEER SEAT WALL PER LANDSCAPE DRAWINGS.
-  CONSTRUCT CAST IN PLACE WALL/CURB PER LANDSCAPE DRAWINGS.
-  LIMIT OF WORK

SHEET NOTES:

1. FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS, SEE SHEETS C-1.0.
2. REFER TO ARCHITECTURAL DRAWINGS FOR OTHER SITE DIMENSIONS AND IMPROVEMENTS NOT SHOWN ON THIS DRAWING.



SITE CONTROL PLAN



SCALE: 1"=20'

BUILDING PERMIT SUBMITTAL

CONSULTANTS LOGO



STAMP



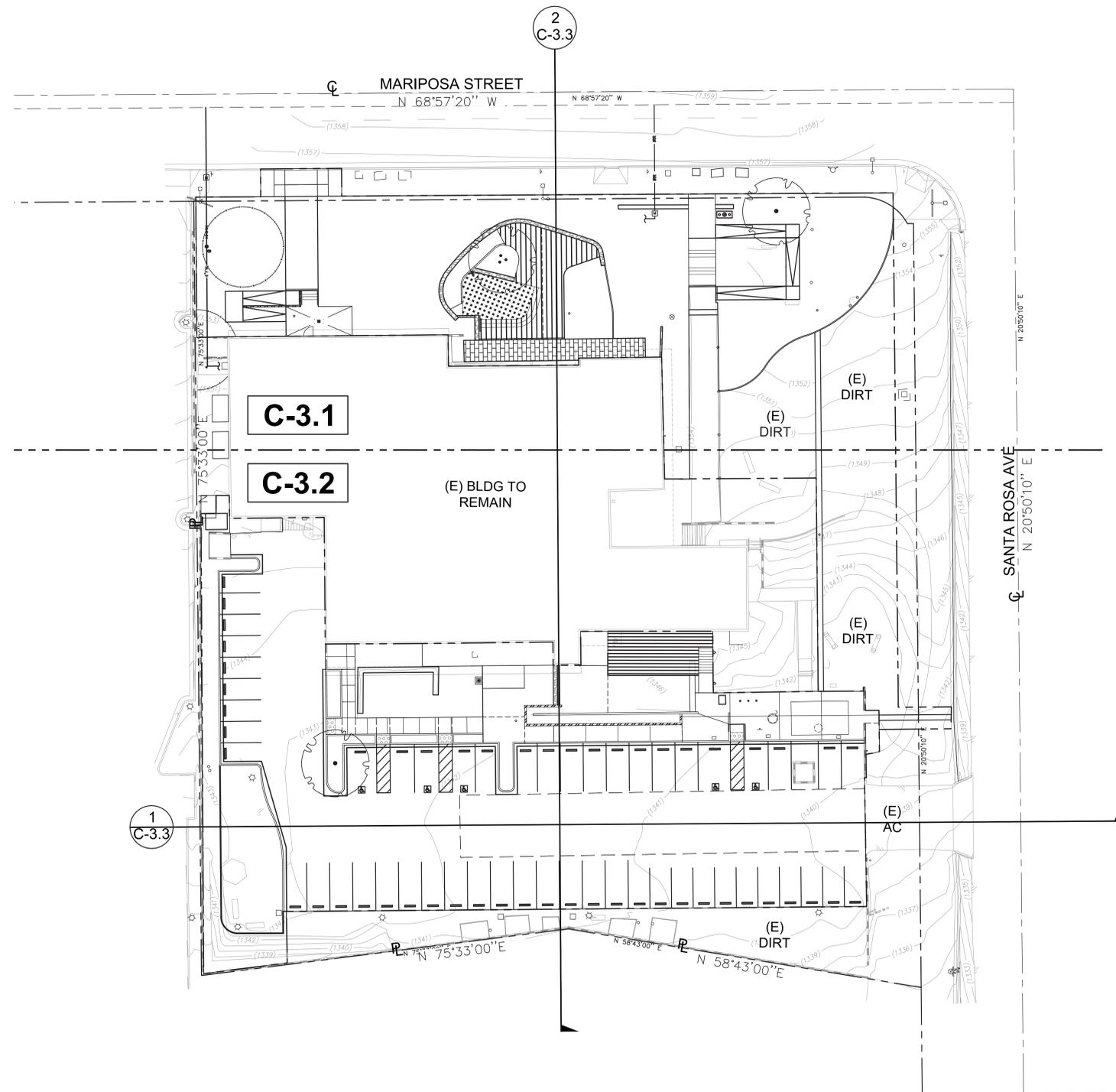
NO.	DATE	REVISIONS
1	06/24/2024	BUILDING PERMIT SUBMITTAL
2	08/01/2025	GRADING PERMIT SUBMITTAL #2
	10/28/2025	ADDENDUM 06

PROJECT TITLE:
ALTADENA MAIN LIBRARY
600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010
DATE: 06-24-2024
SHEET TITLE:

SITE CONTROL PLAN

SCALE: As Indicated



ESTIMATED EARTHWORK QUANTITY

ESTIMATED CUT	=	329 CY
ESTIMATED FILL	=	188 CY
NET VOLUME	=	141 CY (EXPORT)
OVER-EXCAVATION	=	356 CY

NOTES:

- ESTIMATED EARTHWORK ABOVE IS BASED ON DESIGN FINISH GRADES TO EXISTING GRADES IN SURVEY. THE ESTIMATED EARTHWORK DOES NOT CONSIDER THE THICKNESS OF EACH PAVEMENT MATERIAL OR THE REMOVAL OF ANY UNSUITABLE MATERIAL.
- THE ESTIMATED EARTHWORK QUANTITIES DO NOT INCLUDE SHRINKAGE FACTORS DUE TO COMPACTION.
- THE CONTRACTOR SHALL CALCULATE HIS OWN EARTHWORK QUANTITIES NECESSARY FOR HIS BID AND WORK. VCA IS NOT RESPONSIBLE AND LIABLE FOR THE CONTRACTOR'S EARTHWORK CALCULATIONS.
- ESTIMATED EARTHWORK QUANTITIES ABOVE ASSUME THAT ALL ON-SITE MATERIALS ARE SUITABLE FOR BACKFILLING. HOWEVER, ACTUAL EXISTING ON-SITE MATERIALS AND IMPORTED MATERIALS MUST FIRST BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO INSTALLATION, REMOVAL, OR REPLACEMENT.
- CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT FOR ALL OTHER REQUIREMENTS THAT MAY BE REQUIRED IN ORDER TO CALCULATE THE CUT AND FILL QUANTITIES.
- THE CONTRACTOR SHALL VERIFY THE FF ELEVATION ON SITE.

LEGEND:

- FIRELANE
- PROPERTY LINE
- LIMIT OF WORK

SHEET NOTES:

- ALL GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE JURISDICTIONAL AGENCIES.
- PROVIDE A HAUL ROUTE AS REQUIRED BY THE JURISDICTIONAL AGENCIES.
- NO GRADING WORK SHALL BE PERFORMED AT ANY TIME WITHOUT AN EROSION CONTROL SYSTEM APPROVED BY ENGINEER. BETWEEN NOVEMBER 1 AND APRIL 15, ANY GRADING WORK SHALL BE PERFORMED WITH AN EROSION CONTROL SYSTEM APPROVED BY THE ENGINEER AND THE JURISDICTIONAL DISTRICT.
- CONSTRUCT DESIGN GRADES SHOWN ON PLAN. CONSTRUCT STRAIGHT GRADES BETWEEN INDICATED ELEVATIONS UNLESS INTERRUPTED BY A GRADE CHANGE LINE. ANY DEVIATIONS FROM THE GRADING PLAN MUST HAVE PRIOR APPROVAL OF THE ARCHITECT.
- CONTRACTOR SHALL RECOMPACT THE TOP 12" OF THE PAVING SUB GRADE TO 95% MAXIMUM RELATIVE DENSITY.
- THE CONTRACTOR SHALL NOT BEGIN THE PAVING OPERATION UNTIL THE SUB GRADE HAS BEEN APPROVED BY THE DISTRICT RETAINED GEOTECHNICAL ENGINEER AND IOR.
- THE CONTRACTOR IS ADVISED THAT THE APPROVAL OF THIS PLAN DOES NOT WAIVE THE REQUIREMENTS FOR EXCAVATIONS CONTAINED IN THE STATE CONSTRUCTION SAFETY ORDERS ENFORCED BY THE STATE DIVISION OF INDUSTRIAL SAFETY.
- NO FILL TO BE PLACED, UNTIL THE GEOTECHNICAL ENGINEER OR IOR HAS INSPECTED AND APPROVED THE BOTTOM OF EXCAVATION.
- ALL FILL OR BACK FILL SHALL BE COMPACTED BY MECHANICAL MEANS TO A MINIMUM 95% RELATIVE COMPACTION AS DETERMINED BY THE ASTM D-1557. ALL FILL INSTALLATION SHALL REQUIRE CERTIFICATION BY THE GEOTECHNICAL ENGINEER PRIOR TO FOUNDATION INSTALLATION.
- A PROPERTY LINE SURVEY, PREPARED BY A CA LICENSED LAND SURVEYOR OR A CIVIL ENGINEER WITH A LICENSE NUMBER BELOW C33966, MAY BE REQUIRED BY THE BUILDING OFFICIAL BASED UPON SITE CONDITIONS IN ACCORDANCE WITH LACBC SECTION 108.1.

ENGINEER'S/SURVEYOR'S STATEMENT REGARDING THE PRESENCE OF MONUMENTS WITHIN PROJECT LIMITS

I HEREBY ATTEST THAT I HAVE LOCATED AND REFERENCED ON THESE PLANS THE MONUMENTS EXISTING PRIOR TO CONSTRUCTION TO ENSURE PERPETUATION OF THEIR LOCATION IN ACCORDANCE WITH THE SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE. I FURTHER ATTEST THAT I HAVE PERFORMED A RECORD SEARCH AND FIELD INSPECTION TO IDENTIFY EXISTING MONUMENTS; SHALL SET SEARCH SUFFICIENT CONTROLLING, WITNESS, AND PERMANENT MONUMENTS; AND SHALL FILE THE REQUISITE CORNER RECORD OR RECORD OF SURVEY OF THE REFERENCES WITH THE COUNTY SURVEYOR.

ENGINEER/SURVEYOR SEAL & SIGNATURE

DATE

October 3, 2025 TGR Geotechnical, Inc (TGR)
TGR has reviewed these plans and found them to be in general conformance with the project geotechnical reports and addendums. TGR makes no representation as to accuracy of dimension, measurements, calculations or any review of the design.



OVERALL SITE
GRADING PLAN



SCALE: 1"=20'

BUILDING PERMIT SUBMITTAL

CONSULTANTS LOGO



STAMP



NO. DATE REVISIONS

1	06/24/2024	BUILDING PERMIT SUBMITTAL
2	08/01/2025	GRADING PERMIT SUBMITTAL #2
	10/28/2025	ADDENDUM 06

PROJECT TITLE:

ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010

DATE: 06-24-2024

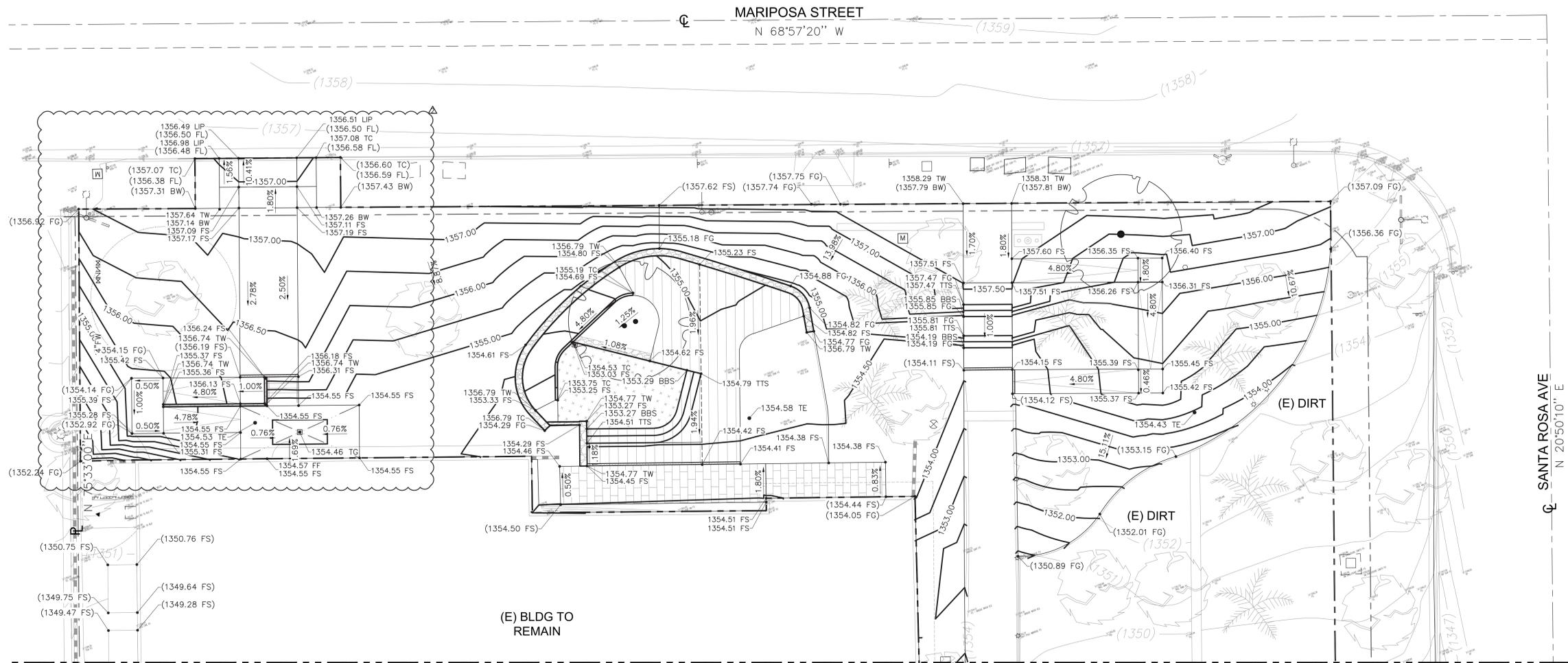
SHEET TITLE:

OVERALL SITE
GRADING PLAN

SCALE: As indicated

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C-3.0



SEE MATCHLINE ON SHEET C-3.2

ESTIMATED EARTHWORK QUANTITY

ESTIMATED CUT	=	329 CY
ESTIMATED FILL	=	188 CY
NET VOLUME	=	141 CY (EXPORT)
OVER-EXCAVATION	=	356 CY

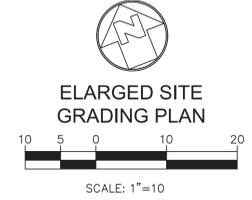
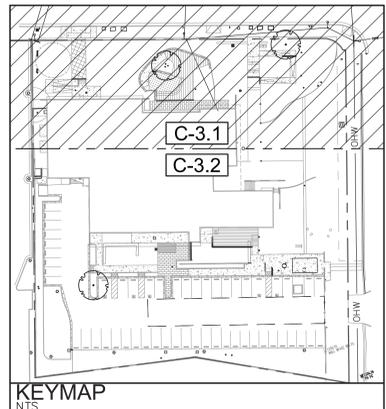
NOTES:

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- THE CONTRACTOR SHALL VERIFY THE FF ELEVATION ON SITE.

- SHEET NOTES:**
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- LEGEND:**
- PROPERTY LINE
 - LIMIT OF WORK

October 3, 2025 TGR Geotechnical, Inc. (TGR) has reviewed these plans and found them to be in general conformance with the project geotechnical reports and addendums. TGR makes no representation as to accuracy of dimension, measurements, calculations or any review of the design.



BUILDING PERMIT SUBMITTAL



NO.	DATE	REVISIONS
1	06/24/2024	BUILDING PERMIT SUBMITTAL
2	08/01/2025	GRADING PERMIT SUBMITTAL #2
	10/28/2025	ADDENDUM 06

PROJECT TITLE:
ALTADENA MAIN LIBRARY
600 E MARIPOSA STREET
ALTADENA, CA 91001

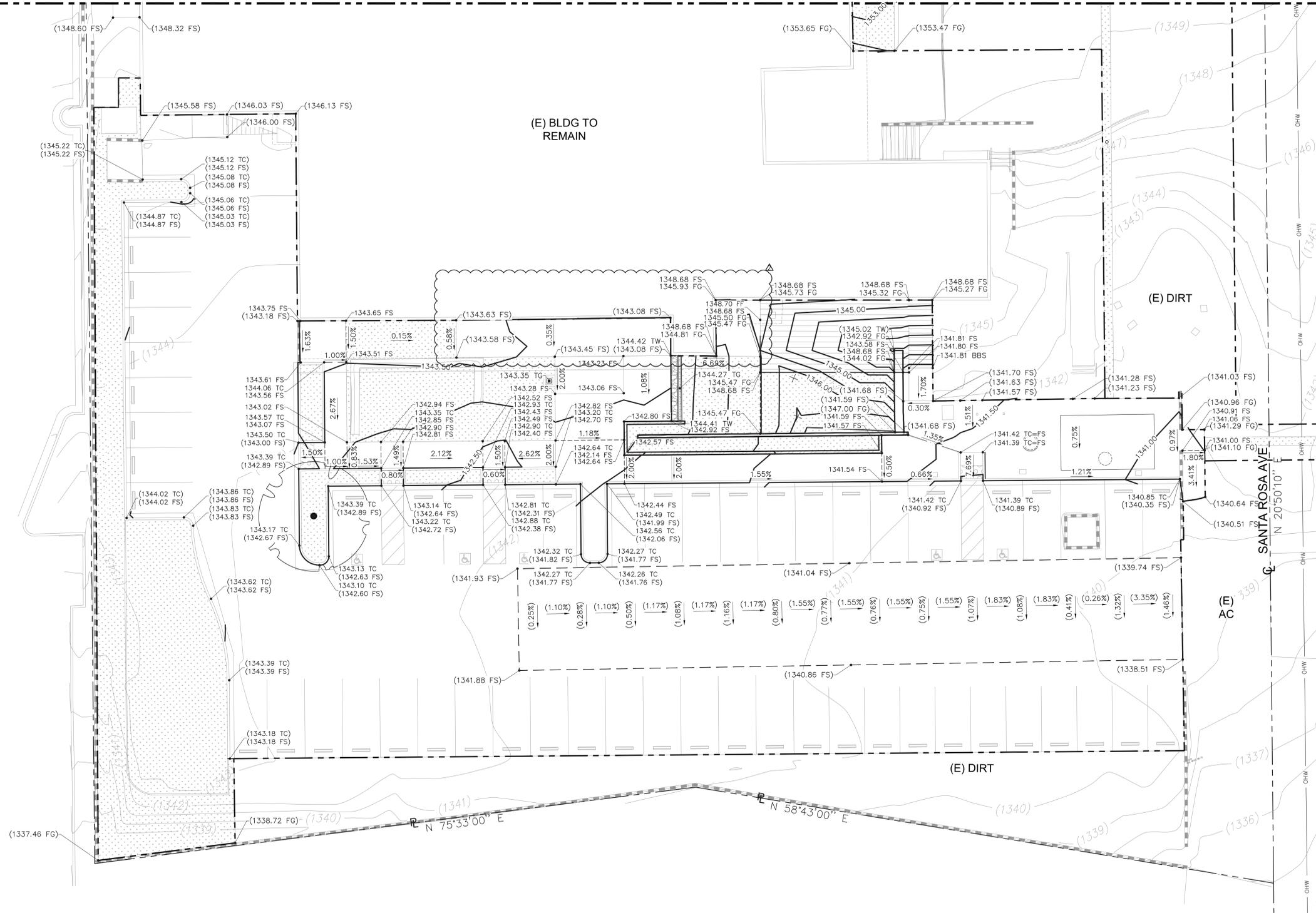
PROJECT NO. 2111010
DATE: 06-24-2024
SHEET TITLE:

ENLARGED SITE GRADING PLAN

SCALE: As Indicated

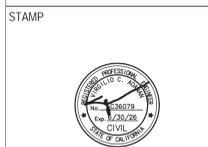
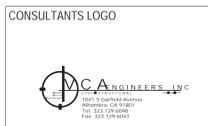
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SEE MATCHLINE ON SHEET C-3.1



ANDERSON BRULÉ ARCHITECTS
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 408.298.1885 | www.aba-arch.com
 409 Harvard Avenue, Suite 201
 Claremont, CA 91711

BUILDING PERMIT SUBMITTAL



NO.	DATE	REVISIONS
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2	08/01/2025	GRADING PERMIT SUBMITTAL #2
	10/28/2025	ADDENDUM 06

PROJECT TITLE:
ALTADENA MAIN LIBRARY
 600 E MARIPOSA STREET
 ALTADENA, CA 91001

PROJECT NO. 2111010
 DATE: 06-24-2024
 SHEET TITLE:

ENLARGED SITE GRADING PLAN

SCALE: As Indicated

SCALE: 1"=10'

C-3.2

ESTIMATED EARTHWORK QUANTITY

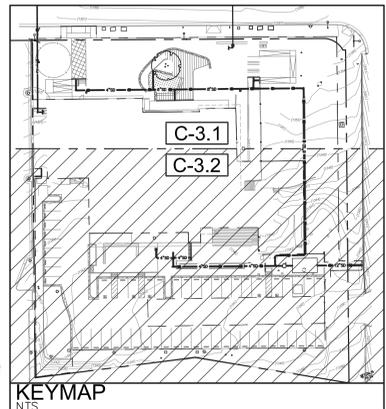
ESTIMATED CUT	=	329 CY
ESTIMATED FILL	=	188 CY
NET VOLUME	=	141 CY (EXPORT)
OVER-EXCAVATION	=	356 CY

NOTES:

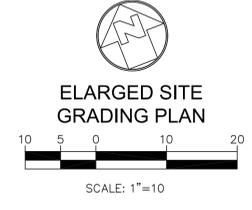
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- LEGEND:**
- FIRELANE
 - PROPERTY LINE
 - LIMIT OF WORK



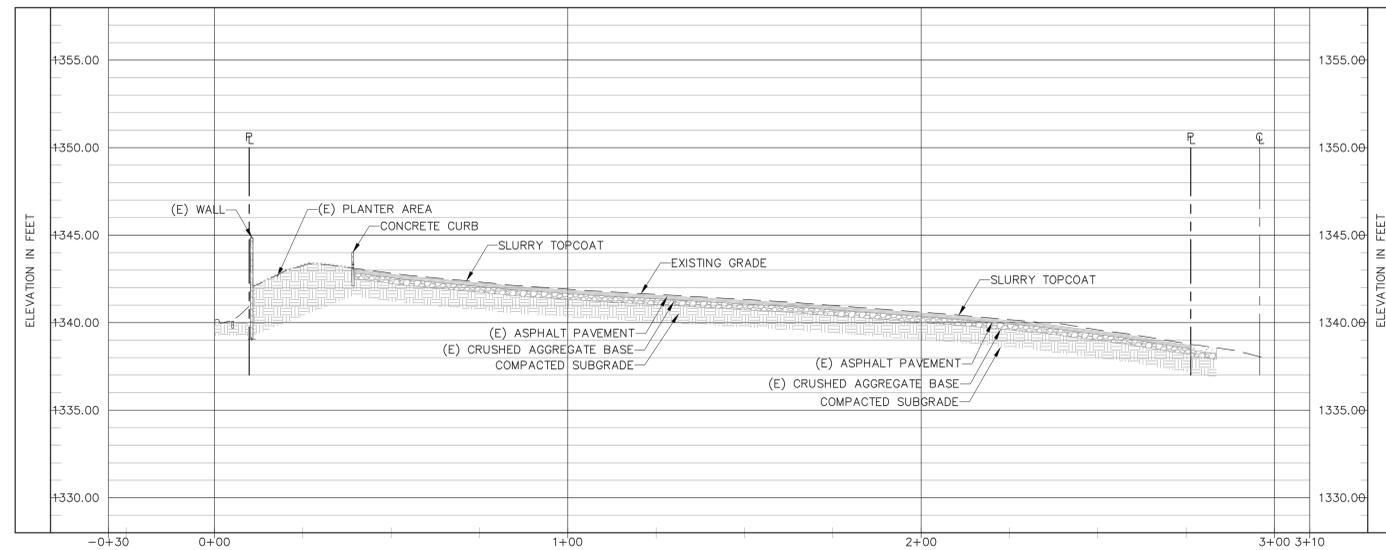
October 3, 2025 TGR Geotechnical, Inc (TGR) TGR has reviewed these plans and found them to be in general conformance with the project geotechnical reports and addendums. TGR makes no representation as to accuracy of dimension, measurements, calculations or any review of the design.



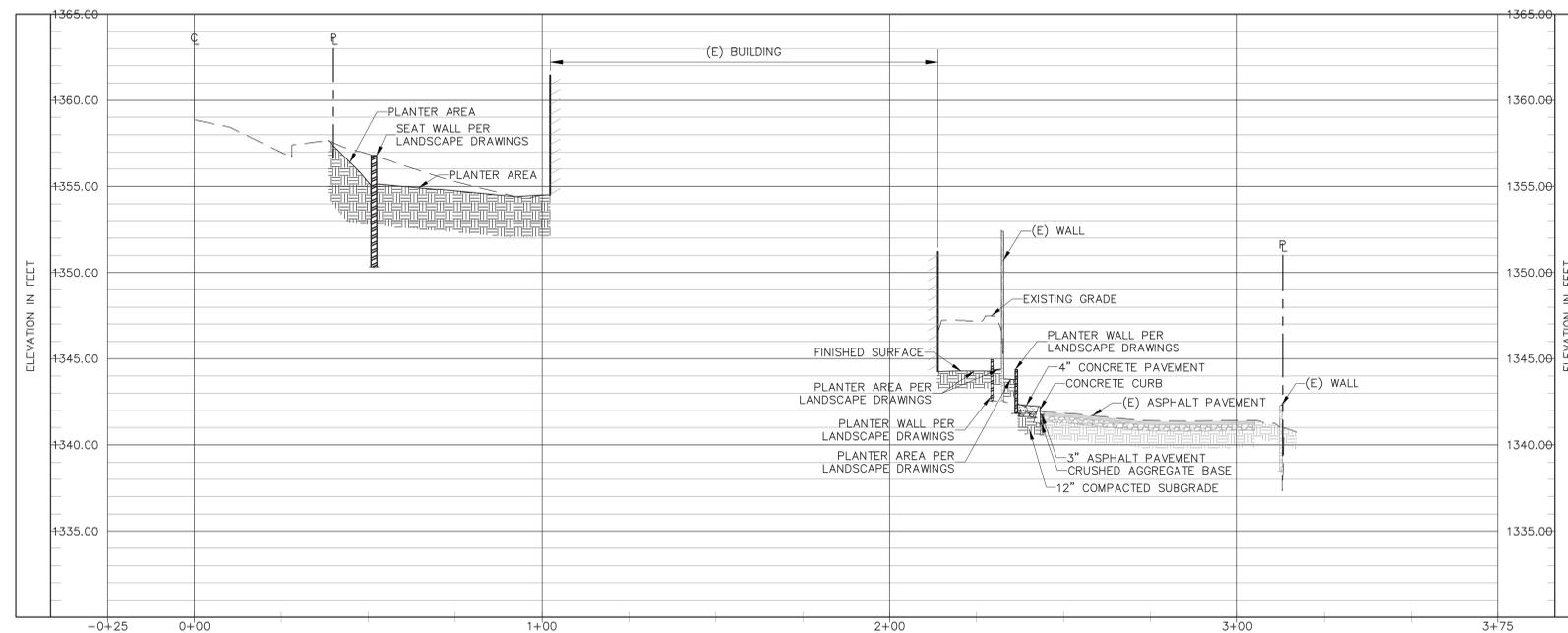


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GRADING SECTION 1
SCALE HOR 1"=20' VER 1"=4'



GRADING SECTION 2
SCALE HOR 1"=20' VER 1"=4'

BUILDING PERMIT SUBMITTAL

CONSULTANTS LOGO



STAMP



NO. DATE REVISIONS

NO.	DATE	REVISIONS
1	06/24/2024	BUILDING PERMIT SUBMITTAL
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	10/28/2025	ADDENDUM 06

PROJECT TITLE:

ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010

DATE: 06-24-2024

SHEET TITLE:

GRADING SECTIONS

SCALE: As indicated

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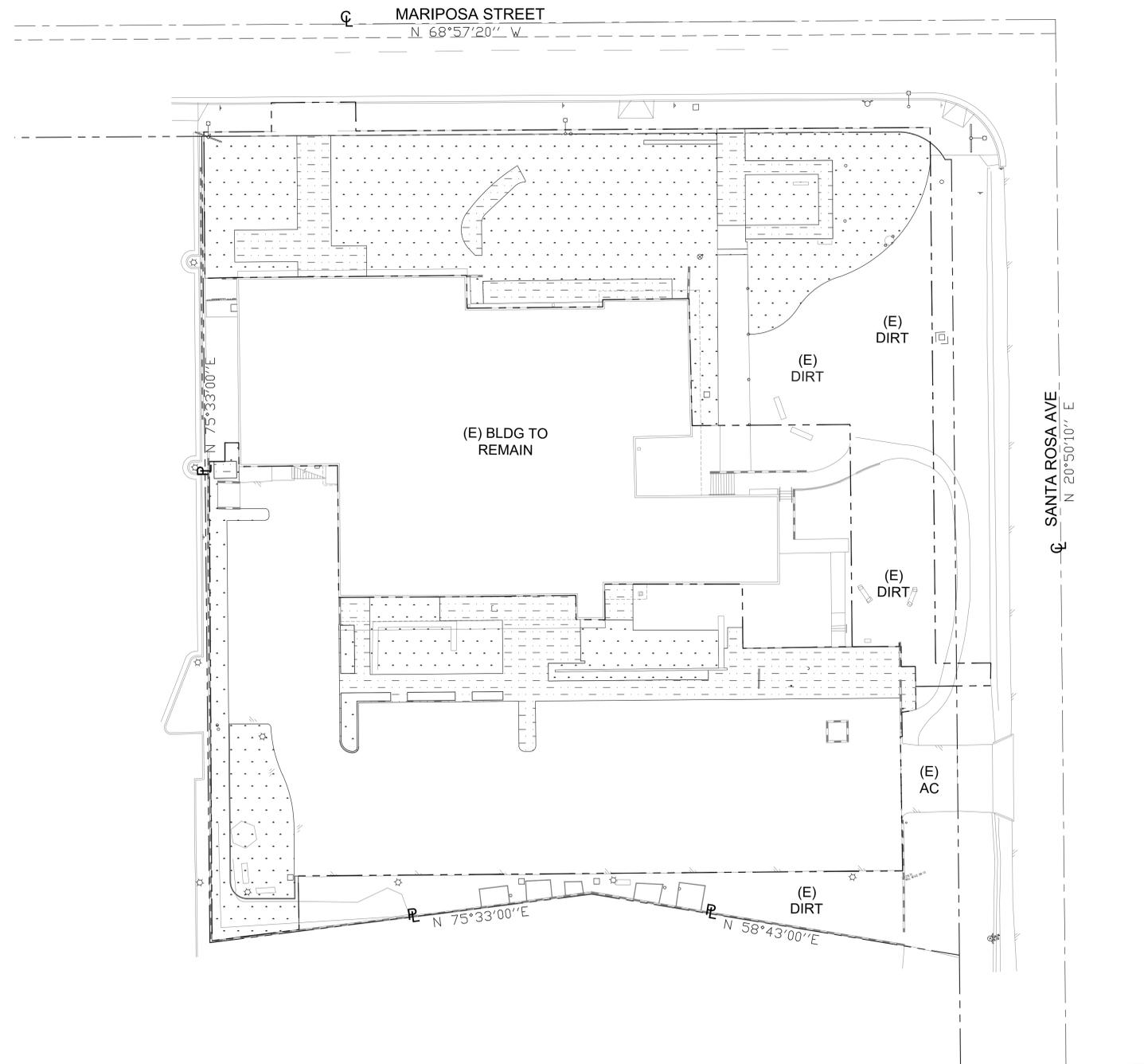
C-3.3

October 3, 2025 TGR Geotechnical, Inc (TGR) TGR has reviewed these plans and found them to be in general conformance with the project geotechnical reports and addendums. TGR makes no representation as to accuracy of dimension, measurements, calculations or any review of the design.



GEOTECHNICAL NOTES:

1. THE SUBJECT SITE IS LOCATED ON THE NORTHEAST CORNER OF EAST MARIPOSA STREET AND SANTA ROSA AVENUE, IN ALTADENA, CALIFORNIA (FIGURE 1). THE SUBJECT SITE IS A CURRENTLY OCCUPIED BY THE ALTADENA LIBRARY. IT IS OUR UNDERSTANDING THAT THE PROPOSED IMPROVEMENTS CONSIST OF APPROXIMATELY 4,000 SQUARE FEET OF ADDITIONS AND A FULL RENOVATION OF THE EXISTING BUILDING. THE PROPOSED ADDITIONS CONSIST OF A NEW COMMUNITY ROOM ON THE SOUTHWEST CORNER OF THE LIBRARY, A NEW ENTRY/LOBBY AND MAKER SPACE DESK ON THE SOUTH SIDE OF THE LIBRARY, A NEW AMPHITHEATER ON THE NORTH SIDE OF THE LIBRARY AND AN ELEVATOR IN THE CENTER OF THE LIBRARY.
2. DURING EARTHWORK CONSTRUCTION, ALL SITE PREPARATION AND THE GENERAL PROCEDURES OF THE CONTRACTOR SHOULD BE OBSERVED, AND THE FILL SELECTIVELY TESTED BY A REPRESENTATIVE OF TGR. IF UNUSUAL OR UNEXPECTED CONDITIONS ARE EXPOSED IN THE FIELD, THEY SHOULD BE REVIEWED BY THIS OFFICE AND IF WARRANTED, MODIFIED AND/OR ADDITIONAL RECOMMENDATIONS WILL BE OFFERED. DURING CONSTRUCTION, VOIDS CREATED FROM REMOVAL OF BURIED ELEMENTS (FOOTINGS, PIPELINES, SEPTIC PITS ETC) SHALL BE BACKFILLED WITH ENGINEERED FILL COMPACTED TO A MINIMUM OF NINETY (90) PERCENT RELATIVE COMPACTION AT NEAR OPTIMUM MOISTURE CONTENT PER ASTM D1557 UNDER THE OBSERVATION OF TGR.
3. IT IS RECOMMENDED THAT MINIMUM OF THREE (3) FEET OF ENGINEERED FILL BE PLACED UNDER FOOTINGS, A MINIMUM OF TWO (2) FEET OF ENGINEERED FILL UNDER SLAB-ON-GRADE AND A MINIMUM OF ONE (1) FOOT BE PLACED UNDER FLATWORK AND PAVEMENT. SITE SOILS MAY BE REUSED AS ENGINEERED FILL PROVIDED THEY ARE FREE OF OVERSIZED PARTICLES AND THE RECOMMENDATIONS PRESENTED IN THIS REPORT ARE IMPLEMENTED. EXPOSED BOTTOMS SHOULD BE SCARIFIED A MINIMUM OF 6-INCHES, MOISTURE CONDITIONED AT NEAR OPTIMUM MOISTURE AND COMPACTED TO A MINIMUM NINETY (90) PERCENT RELATIVE COMPACTION. SUBSEQUENTLY, SITE FILL SOILS SHOULD BE RECOMPACTED TO A MINIMUM OF NINETY (90) PERCENT RELATIVE COMPACTION AT NEAR OPTIMUM MOISTURE CONTENT.
4. THE DEPTH OF OVER-EXCAVATION SHOULD BE REVIEWED BY THE GEOTECHNICAL CONSULTANT DURING THE ACTUAL CONSTRUCTION. ANY SUBSURFACE OBSTRUCTION BURIED STRUCTURAL ELEMENTS, AND UNSUITABLE MATERIAL ENCOUNTERED DURING GRADING, SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE GEOTECHNICAL CONSULTANT FOR PROPER EXPOSURE, REMOVAL AND PROCESSING, AS RECOMMENDED.



OVER EXCAVATION LEGEND:

- IT IS RECOMMENDED THAT MINIMUM OF ONE (1) FOOT OF ENGINEERED FILL BE PLACED UNDER FLATWORK AND PAVEMENT.
- REFER TO LANDSCAPE DRAWINGS FOR THE EXCAVATION DEPTH FOR PLANTER AREAS.

SHEET NOTE:

1. CONTRACTOR TO PROTECT IN PLACE EXISTING UTILITIES AS INDICATED ON DEMOLITION PLAN DURING THE EXCAVATION.

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OVEREXCAVATION PLAN



SCALE: 1"=20'

BUILDING PERMIT SUBMITTAL

CONSULTANTS LOGO



STAMP



NO. DATE REVISIONS

NO.	DATE	REVISIONS
1	06/24/2024	BUILDING PERMIT SUBMITTAL
2	08/01/2025	GRADING PERMIT SUBMITTAL #2
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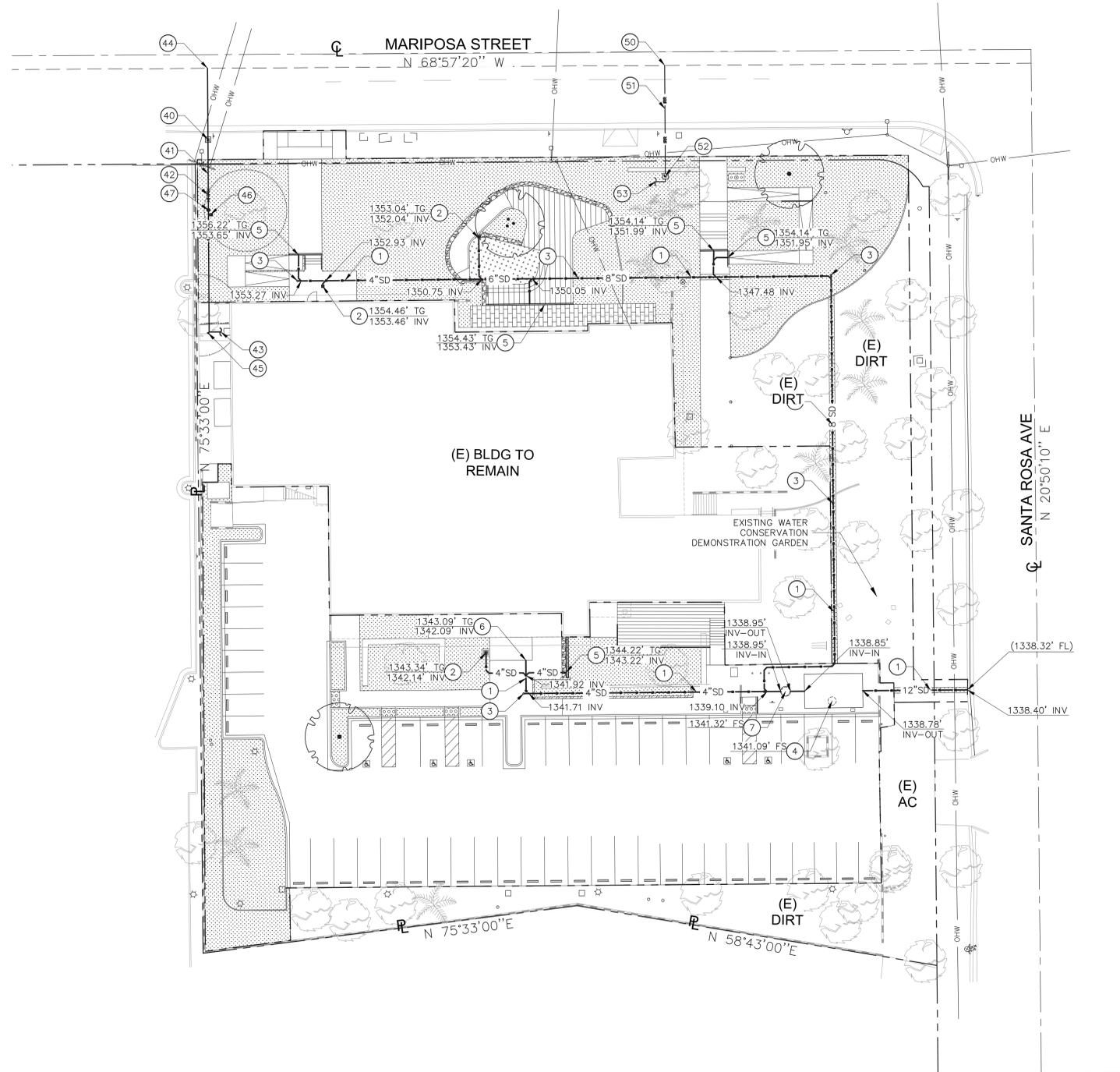
DATE: 06-24-2024

SHEET TITLE:

OVEREXCAVATION PLAN

SCALE: As indicated

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CONSTRUCTION NOTES:

STORM DRAINAGE:

- 1 INSTALL SCH 40 STORM DRAIN PIPE, BEDDING PER DETAIL 4 ON SHEET C-5.0. PIPE SIZE PER PLAN.
- 2 CONSTRUCT 12"x12" CATCH BASIN PER DETAIL 7 ON SHEET C-5.0. INSTALL FILTER INSERT PER DETAIL 1 ON SHEET C-5.3.
- 3 INSTALL CLEAN OUT PER DETAIL 6 SHEET C-5.0.
- 4 INSTALL CONTECH CMP INFILTRATION SYSTEM PER DETAIL 1 ON SHEET C-5.1 & C-5.2.
- 5 INSTALL TRENCH DRAIN PER DETAIL 5 ON SHEET C-5.0.
- 6 CONNECT TO WALK-OFF GRILL UNDER DRAIN SYSTEM.
- 7 INSTALL CDS PRE-TREATMENT UNIT PER DETAIL 2 ON SHEET C-5.2.

FIRE WATER:

- 40 INSTALL NEW 4"Ø FIRE WATER METER, COORDINATE WITH WATER PURVEYOR PRIOR TO ORDERING AND INSTALLATION.
- 41 INSTALL 4"Ø AWWA C900 FIRE WATER LINE. BEDDING PER DETAIL 4 ON SHEET C-5.0.
- 42 INSTALL 4"Ø FIRE WATER ZURN MODEL 350DA DOUBLE CHECK DETECTOR ASSEMBLY PER DETAIL 2 ON SHEET C-5.3. COORDINATE WITH WATER PURVEYOR FOR ACCEPTABLE/APPROVED DEVICE. VERIFY LOCATION IN FIELD.
- 43 CONNECT TO BUILDING FIRE WATER LINE. COORDINATE AND MATCH LOCATION WITH BUILDING PLUMBING. PROVIDE REDUCER FITTINGS AS REQUIRED TO MATCH/JOIN WITH BUILDING PLUMBING.
- 44 POINT OF CONNECTION TO EXISTING WATER MAINLINE COORDINATE WITH THE UTILITY PURVEYOR FOR CONNECTION REQUIREMENT. CONTRACTOR TO PAY FOR PERMIT AND FEES.
- 45 INSTALL THRUST BLOCK PER DETAIL 3 ON SHEET C-5.3.
- 46 INSTALL FIRE DEPARTMENT CONNECTION PER DETAIL 4 ON SHEET C-5.3.
- 47 INSTALL POST INDICATOR VALVE PER DETAIL 5 ON SHEET C-5.3.

IRRIGATION WATER:

- 50 POINT OF CONNECTION TO EXISTING WATER MAINLINE COORDINATE WITH THE UTILITY PURVEYOR FOR CONNECTION REQUIREMENT. CONTRACTOR TO PAY FOR PERMIT AND FEES.
- 51 INSTALL 2" SCH. 80 PVC IRRIGATION PIPE PER IRRIGATION PLAN L200.
- 52 INSTALL 2"Ø IRRIGATION WATER METER. COORDINATE WITH WATER PURVEYOR PRIOR TO ORDERING AND INSTALLATION.
- 53 CONNECT TO ONSITE IRRIGATION WATER LINE. SEE CONTINUATION ON IRRIGATION PLAN L200.

SHEET NOTES:

1. FOR GENERAL NOTES, LEGENDS AND ABBREVIATIONS, SEE SHEET C-1.0.
2. SEE ARCHITECTURAL DRAWINGS FOR OTHER SITE RELATED DIMENSIONS NOT SHOWN ON THIS DRAWING.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL SURFACE AND/OR UNDERGROUND UTILITIES IN CONFLICT WITH THE PROPOSED DEMOLITION AND DESIGN ITEMS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND/OR CONSTRUCTION RELATED ISSUES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.
4. CONTRACTOR TO VERIFY IN FIELD THE JOINING TO EXISTING ELEVATION AND THE CURRENT SITE CONDITION WITH THE DESIGN GRADES. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF WORK.

**BUILDING PERMIT
SUBMITTAL**

CONSULTANTS LOGO



STAMP



NO. DATE REVISIONS

NO.	DATE	REVISIONS
1	06/24/2024	BUILDING PERMIT SUBMITTAL
2	08/01/2025	GRADING PERMIT SUBMITTAL #2
	10/28/2025	ADDENDUM 06

PROJECT TITLE:

**ALTADENA MAIN
LIBRARY**

600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010

DATE: 06-24-2024

SHEET TITLE:

**SITE UTILITY
PLAN**

SCALE: As Indicated

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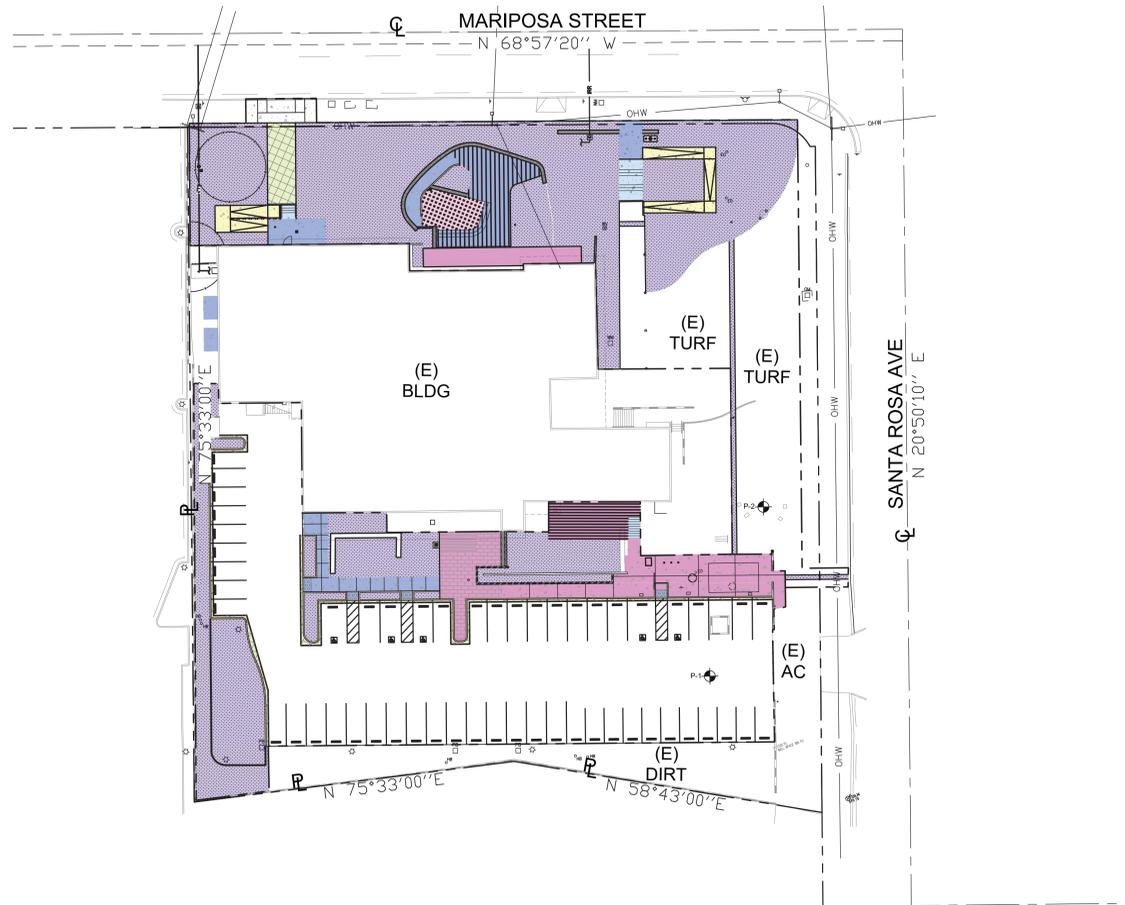
C-4.0



SITE UTILITY PLAN



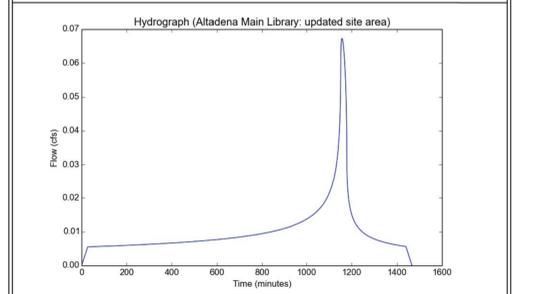
SCALE: 1"=20'



Peak Flow Hydrologic Analysis

File location: Z:\CA Projects 52372 to XXX2605-122 Altadena Main Library Site Improvements\Cals\Altadena Main Library - updated site area.pdf
Version: HydroCalc 2.0-beta

Input Parameters	Altadena Main Library
Project Name	Altadena Main Library
Subarea ID	updated site area
Area (ac)	0.57
Flow Path Length (ft)	288.0
Flow Path Slope (vft/hft)	0.01
85th Percentile Rainfall Depth (in)	1.22
Percent Impervious	0.323
Soil Type	14
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True



November 8, 2022

Altadena Library District:
Ms. Jennifer Pearson, AIA
Architect, Program Manager
Huckabee
8640 National Boulevard
Culver City, CA 90232

Geotechnical
Environmental
Hydrogeology
Material Testing
Construction Inspection

Project No. 23-7751

Subject: Percolation Testing Report for WQMP, Proposed Renovation, Main Library, Altadena Library District, 626 East Mariposa Street, Altadena, California

Jennifer,
In accordance with your request and authorization, TGR Geotechnical, Inc. (TGR) has completed our percolation testing at the subject site for the proposed WQMP.

Presented below are the details of our investigation.

SCOPE OF SERVICES

- Our scope of work included performing the following tasks:
- Site reconnaissance, mark boring locations and notify Dig-Alert for utility clearance.
 - Excavation, logging and percolation testing of one (1) hollow-stem auger boring to an approximate depth of 15 feet and excavation, logging and percolation testing of one (1) hand auger boring to an approximate depth of 10 feet below existing grade. The percolation testing was performed in accordance with Los Angeles County Guidelines GS200.1. The borings were backfilled with soil cuttings upon completion of testing, excess soil disposed on site, and surface was sealed with rapid set concrete, where appropriate.
 - Laboratory testing of selected samples to include in-situ moisture content and dry density and passing No. 200 sieve.
 - Preparation of this report summarizing current subsurface soil conditions, findings and presenting the results of percolation testing.

FIELD INVESTIGATION

Field exploration was performed on October 30, 2023 at 626 East Mariposa Street in the City of Altadena, California (Figure 1) by representatives from our firm who logged the borings and obtained representative samples, which were subsequently transported to the laboratory for further review and testing. The approximate locations of the borings are indicated on the enclosed Boring Location Map (Figure 2).

The subsurface conditions were explored by drilling, sampling, and logging one (1) hollow stem auger borings, P-1, with a truck mounted hollow stem drill rig to an approximate depth of fifteen (15)

TGR GEOTECHNICAL
2025 & 20th ANNIVERSARY
303 S. HARBOR BLVD
SANTA ANA, CA 92704
P 714.961.7100 F 714.941.7100
www.tgrgeotech.com

LEGENDS:

	ASPHALT PAVEMENT	919 SF
	CONCRETE	2,270 SF
	WALL	320 SF
	CONCRETE RAMP	677 SF
	CONCRETE STAIRS	268 SF
	PERMEABLE PAVERS	3,419 SF
	CONCRETE CURB	300 SF
	PLANTER AREA	15,954 SF
	PERMEABLE SYNTHETIC TURF	375 SF
		24,502 SF

REFERENCES:
STANDARD USED FOR LID CALCULATIONS AND SYSTEMS

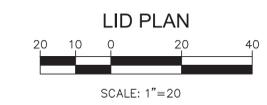
- COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS LOW IMPACT DEVELOPMENT STANDARDS MANUAL FEBRUARY 2014
- GEOTECHNICAL UPDATE REPORT, PROPOSED RENOVATION, MAIN LIBRARY, ALTADENA LIBRARY DISTRICT, 626 EAST MARIPOSA STREET, ALTADENA, CALIFORNIA

LID SUMMARY TABLE

SWQDv = 897 CF			
REQUIRED VOLUME		PROVIDED VOLUME	
INFILTRATION	897 CF	INFILTRATION	1,296 CF

IMPERVIOUS/PERVIOUS AREAS

Site Conditions	Imperviousness		Perviousness	
	Area (SF)	%	Area (SF)	%
Pre-Construction	4,992	20	19,510	80
Post-Construction	4,754	22	19,748	78
TOTAL DISTURBED SITE AREA =		24,502 SF (0.57 ACRES)		



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1	06/24/2024	BUILDING PERMIT SUBMITTAL
2	08/01/2025	GRADING PERMIT SUBMITTAL #2
	10/28/2025	ADDENDUM 06

PROJECT TITLE:

ALTADENA MAIN LIBRARY
600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010

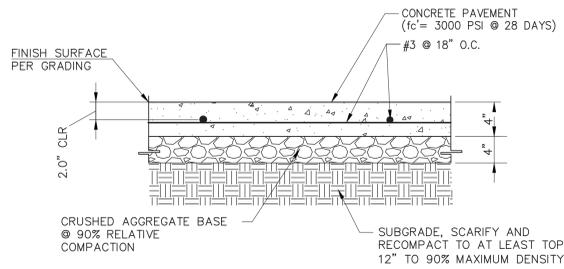
DATE: 06-24-2024

SHEET TITLE:

LID PLAN

SCALE: As indicated

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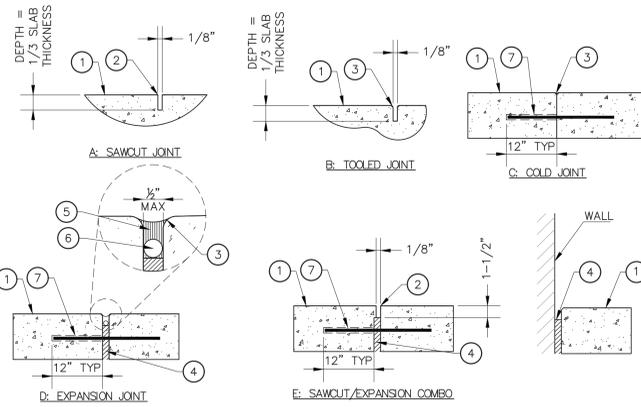
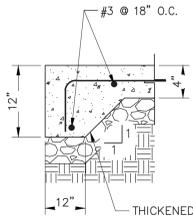


LOCATION	CONCRETE PAVEMENT THICKNESS "A"	CRUSHED AGGREGATE BASE THICKNESS "B"
NON TRAFFIC	4"	4"

NOTES:

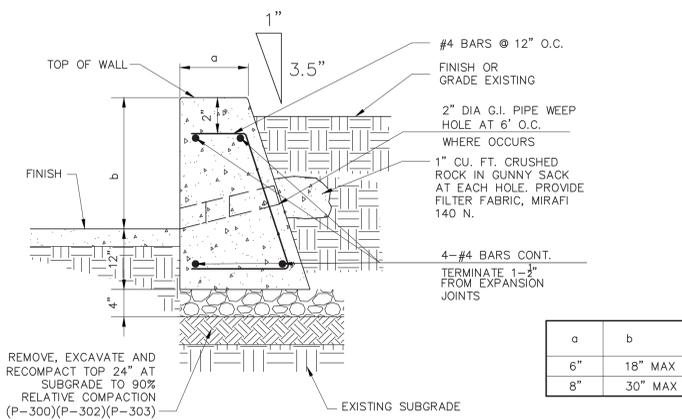
- FOR CONSTRUCTION JOINTS, EXPANSION JOINTS, AND FINISH SURFACE REQUIREMENTS REFER TO DETAIL 2 ON THIS SHEET.
- CONCRETE, $f_c=3000$ PSI @ 28 DAYS. REBARS, $f_y=60,000$ PSI PER ASTM A615.
- CONCRETE FINISHES TO BE EQUIVALENT TO MEDIUM SALTED FINISH FOR SLOPES OF LESS THAN 6%, AND SLIP RESISTANT FOR SLOPES 6% OR GREATER.
- CONCRETE PAVEMENT SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF ALL FIRE APPARATUS & SHALL BE SURFACED SO AS TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES FOR FIRE LANE.
- REFER TO LANDSCAPE DRAWINGS FOR INTEGRAL COLOR AND FINISH.

EDGE OF RIGID PAVEMENT



LEGEND:

- PAVING FINISH SURFACE.
- SAWCUT.
- 1/4" R. @ EDGES. TYP.
- PREMOLDED E.J. FILLER.
- JOINT SEALANT. COLOR TO BE SELECTED BY ARCHITECT. SUBMIT COLOR SAMPLES PRIOR TO INSTALLATION.
- BACKER ROD.
- 18" #3 REBAR W/ 'SPEED DOWEL' @ 18" OC, CENTER IN CONC. AT COLD JOINTS & E.J.'S.
- CONTROL JOINTS 20'-0" O.C. MAX.
- CONTRACTOR TO SUBMIT SHOP DRAWINGS OF CONTROL JOINT AND EXPANSION JOIN LAYOUT.



NOTES:

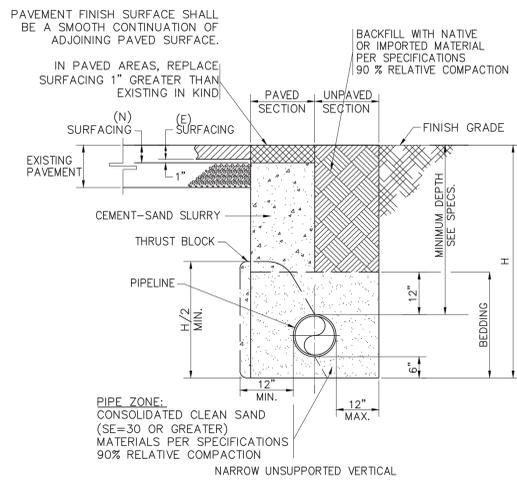
- PROVIDE 1/4" EXPANSION JOINT WITH PREFORMED JOINT FILLER AT ALL ANGLE POINTS AND THE BEGINNING AND END OF ALL CURVES.
- PROVIDE CONTRACTION JOINTS CONSISTING OF ONE INCH DEEP CUT SCORES AT 20' O.C. MAX UNLESS OTHERWISE NOTED BY SIDEWALK OR PAVEMENT JOINT PATTERN.
- WHERE A WALK IS ADJACENT TO THE CURB, ALL JOINTS IN THE CURB SHALL LINE WITH ALL JOINTS IN THE WALK.
- CONCRETE, $f_c=3000$ psi @ 28 DAYS PER SSPWC.
- REBARS, $f_y=60,000$ psi ASTM A615.
- THE EXISTING GRADE IN THIS AREA SHOULD BE REMOVED AND RECOMPACTED A MINIMUM OF 24" BELOW THE SUBGRADE ELEVATION. THE SOILS SHOULD BE BROUGHT TO THE OPTIMUM MOISTURE CONTENT AND RE-COMPACTED TO 95 PERCENT OF THE MAXIMUM DENSITY PER SOILS REPORT.
- SEE SOILS REPORT FOR UNDERLAYMENT REQUIREMENTS.

a	b
6"	18" MAX
8"	30" MAX

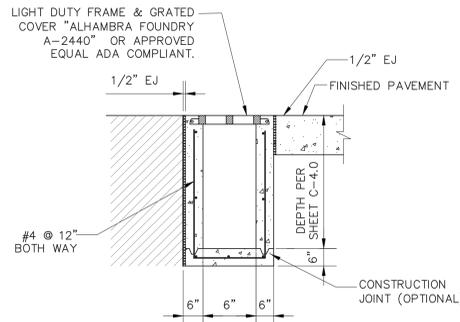
1 CONCRETE PAVEMENT DETAIL
NOT TO SCALE

2 JOINT DETAILS
NOT TO SCALE

3 GRAVITY WALL DETAIL
NOT TO SCALE



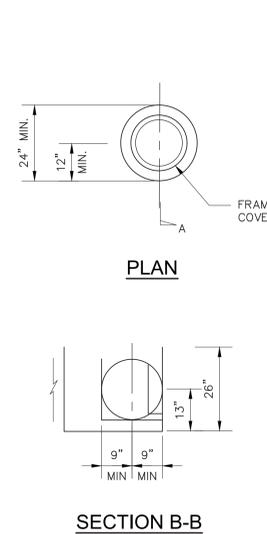
NOMINAL PIPE DIAMETER (INCHES)	NARROW TRENCH WIDTH MIN. (INCHES)
4	18
6	18
8	24
12	36



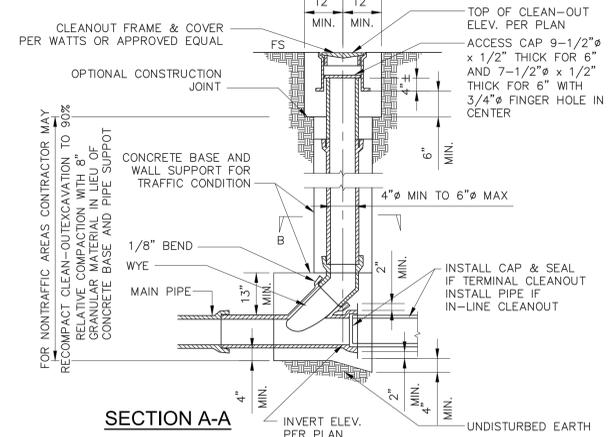
NOTES:

- THE SLOPE IN THE TRENCH DRAIN SHALL BE 1% MINIMUM
- FOR THE ELEVATION OF THE CONCRETE SEE DRAWING.
- FOR LOCATION OF DISCHARGE PIPE, SEE DRAWING.
- GRATE SHALL BE A.D.A. COMPLIANT, HEEL PROOF, AND VANDAL RESISTANT
- INSTALL TRENCH DRAIN FILTER.

5 TRENCH DRAIN DETAIL
NOT TO SCALE



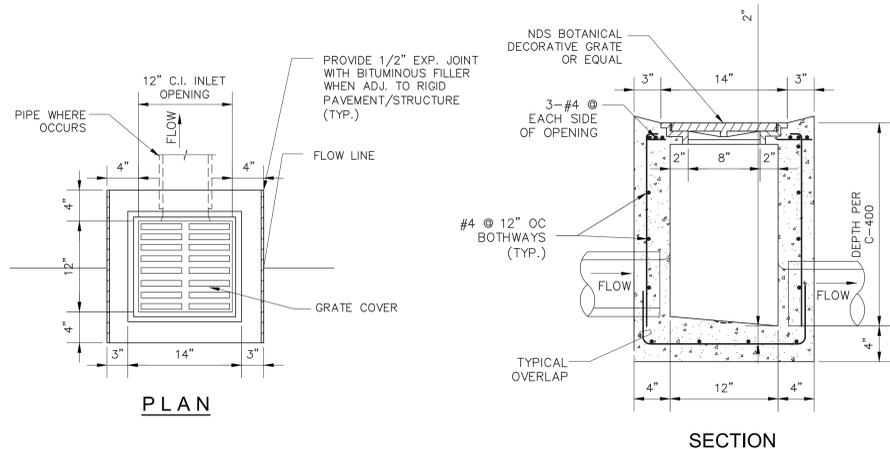
6 CLEANOUT DETAIL
NOT TO SCALE



NOTES:

- FOR STORM DRAINAGE CLEAN OUT COVER, PROVIDE COVER WITH INSCRIPTION "D" TO DENOTE STORM DRAINAGE.

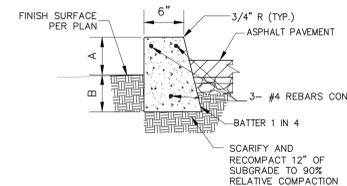
4 UTILITY TRENCH DETAIL
NOT TO SCALE



NOTES:

- USE 3/4" DIA. PIPE BAR SPACERS ASSEMBLED ON (2) 1/2" DIA. RODS WITH THREADS AND NUTS AT BOTH ENDS.
- ALL METAL PARTS SHALL BE GALVANIZED AFTER FABRICATION AND WELDING, AND BEFORE ASSEMBLING.
- FRAME AND GRATE SHALL BE SIMILAR TO ALHAMBRA FOUNDRY CO. LTD. SERIES MODEL NO. 1581 OR BROOKS PRODUCTS, INC. OR APPROVED EQUAL.
- CONCRETE, $f_c=3,000$ PSI @ 28 DAYS PER SSPWC.
- CATCH BASIN ALTERNATE CAN BE PREFABRICATED AVAILABLE ON THE MARKET.

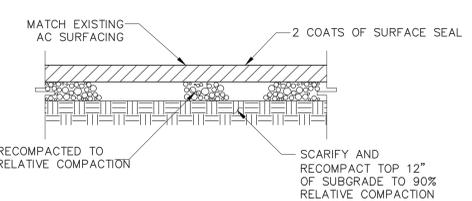
October 3, 2025 TGR Geotechnical, Inc. (TGR) has reviewed these plans and found them to be in general conformance with the project geotechnical reports and addendums. TGR makes no representation as to accuracy of dimension, measurements, calculations or any review of the design.



NOTES:

- WHEN "A" IS 6" OR LESS, B=6".
- WHEN "A" IS GREATER THAN 6" AND LESS THAN OR EQUAL TO 12", A=B.
- WHEN "A" IS GREATER THAN 12" AND LESS THAN OR EQUAL TO 18", B=18".
- WHEN THE SUM OF "A" PLUS "B" IS 18" OR GREATER, PLYWOOD FORM IS REQUIRED.
- PROVIDE EXPANSION JOINTS AT 30'-0" O.C. MAX.
- TERMINATE REBARS 1/2" FROM EXPANSION JOINT.

8 CONCRETE CURB DETAIL
NOT TO SCALE



LOCATION	ASPHALT CONCRETE THICKNESS	BASE COURSE	
		THICKNESS	TYPE
PARKING	3"	4"	CLASS 2 AGGREGATE BASE

NOTES:

- ASPHALT PAVEMENT SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF ALL FIRE APPARATUS & SHALL BE SURFACED SO AS TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES FOR FIRE LANE.

9 ASPHALT PAVEMENT DETAIL
NOT TO SCALE



ANDERSON BRULÉ ARCHITECTS
325 South First Street, 4th Floor
San Jose, California 95113
408.298.1985 | www.aba-arch.com
409 Harvard Avenue, Suite 201
Claremont, CA 91711

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CONSULTANTS LOGO

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NO.	DATE	REVISIONS
1	06/24/2024	BUILDING PERMIT SUBMITTAL
2	08/01/2025	GRADING PERMIT SUBMITTAL #2
	10/28/2025	ADDENDUM 06

PROJECT TITLE:

ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010

DATE: 06-24-2024

SHEET TITLE:

MISCELLANEOUS DETAILS

SCALE: As Indicated

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C-5.0

STUB INFORMATION

PIECE	STUB INVERT	SYSTEM INVERT
12"Ø STUB A1	1,338.85	1,334.90
12"Ø STUB C2	1,338.78	1,334.90

RISER INFORMATION

PIECE	RIM ELEV.	SYSTEM INVERT
36"Ø RISER C3	1,340.90	1,334.90

ASSEMBLY
 SCALE: 1" = 5'
 STRUCTURAL BACKFILL STORAGE: 317 CF
 TOTAL STORAGE PROVIDED: 1191 CF
 LOADING: H20
 PIPE INV. = 1339.60'

NOTES

- THE PIPE SHOULD BE FULLY PERFORATED IN ACCORDANCE WITH AASHTO M 36, SECTION 8.3.2.2, AND USING CLASS 2 PERFORATIONS. THE TOTAL OPEN AREA OF THE PERFORATIONS WILL BE A MINIMUM OF 2.2% OF THE PIPE SURFACE AREA.
- BULKHEADS SHALL BE 12-GAUGE OR HEAVIER STEEL AND THE COATING WILL MATCH THE SPECIFIED CMP COATING. BULKHEAD PLATES SHALL BE FULLY WELDED ONTO THE CMP WITH STEEL REINFORCEMENT AS REQUIRED. THE STEEL REINFORCEMENT SHALL BE POST COATED WITH ZINC RICH PAINT PER AASHTO M 36. BULKHEAD DESIGNS SHALL SATISFY THE REQUIREMENTS SHOWN IN CHAPTER 8 OF THE NCSA CSP DESIGN MANUAL, AND CALCULATIONS SHALL BE PROVIDED TO THE ENGINEER OF RECORD (EOR) FOR APPROVAL UPON REQUEST.
- ALL FITTINGS SHALL BE STRUCTURALLY CHECKED FOR REINFORCEMENTS PER ASTM A998 AND PROVIDED TO THE EOR FOR APPROVAL UPON REQUEST.
- CONNECTING BANDS FOR INFILTRATION SYSTEMS SHALL BE ANY TYPE, BUT MUST BE AT LEAST 12" WIDE. BANDS SHALL MATCH THE SPECIFIED CMP COATINGS AND MEET THE REQUIREMENTS OF AASHTO M 36.
- ALL METALLIC COATINGS AFFECTED BY MANUFACTURING FABRICATION SHALL BE REPAIRED PER AASHTO M 36 SECTION 11 REQUIREMENTS (E.G. ZINC-RICH PAINT ON ALL WELDS). IF POLYMER COATINGS ARE USED THE REPAIR OF DAMAGED COATINGS WILL BE IN CONFORMANCE WITH AASHTO M 245 SECTION 11 REQUIREMENTS.

THE UNDERSIGNED HEREBY APPROVES THE ATTACHED (5) PAGES INCLUDING THE FOLLOWING:

- PIPE STORAGE = 874 CF
- MAINLINE PIPE GAGE = 16
- WALL TYPE = PERFORATED
- DIAMETER = 60"
- FINISH = ALT2
- CORRUGATION = 5x1

CUSTOMER _____ DATE _____

MARK	DATE	REVISION DESCRIPTION	BY

CONTECH ENGINEERED SOLUTIONS LLC
 CMP DETENTION SYSTEMS
 9100 Centre Pointe Dr., Suite 400, West Chester, OH 43089
 800-338-1122 513-645-7000 513-645-7993 FAX

CONTECH CONTRACT DRAWING

60"Ø PERFORATED UNDERGROUND RETENTION SYSTEM -
 797134-010
 ALTADENA MAIN LIBRARY
 ALTADENA, CA
 SITE DESIGNATION: CMP #1

PROJECT NO.	REV. NO.	DATE
797134	010	5/15/2024

EXFILTRATION AREA STANDARD PERFORMANCE PATTERNS

PIPE	2 2/3" x 1/2"	3" x 1"	5" x 1"	ULTRA FLO
60"Ø	61.1 SQ. IN.	64.5 SQ. IN.	62.8 SQ. IN.	

TYPICAL PERFORMANCE DETAIL
NOT TO SCALE

NOTES:

- PERFORATIONS MEET AASHTO AND ASTM SPECIFICATIONS.
- PERFORATION OPEN AREA PER SQUARE FOOT OF PIPE IS BASED ON THE NOMINAL DIAMETER AND LENGTH OF PIPE.
- DIMENSIONS SUBJECT TO MANUFACTURER'S TOLERANCES.
- ALL HOLES 3/8"Ø.

CONSTRUCTION LOADING DIAGRAM

NOT TO SCALE

PIPE SPAN INCHES	AXLE LOADS (KIP)			
	18-50	50-75	75-110	110-150
12-42	2.0	2.5	3.0	3.0
46-72	3.0	3.0	3.5	4.0
78-120	3.0	3.5	4.0	4.0
126-144	3.5	4.0	4.5	4.5

MINIMUM COVER (FT)

SPECIFICATION FOR CORRUGATED STEEL PIPE-ALUMINIZED TYPE 2 STEEL

SCOPE
THIS SPECIFICATION COVERS THE MANUFACTURE AND INSTALLATION OF THE CORRUGATED STEEL PIPE (CSP) DETAILED IN THE PROJECT PLANS.

MATERIAL
THE ALUMINIZED TYPE 2 STEEL COILS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M274 OR ASTM A295.

PIPE
THE CSP SHALL BE MANUFACTURED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF AASHTO M56 OR ASTM A760. THE PIPE SIZES, GAGES AND CORRUGATIONS SHALL BE AS SHOWN ON THE PROJECT PLANS.

ALL FABRICATION OF THE PRODUCT SHALL OCCUR WITHIN THE UNITED STATES.

HANDLING AND ASSEMBLY
SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS OF THE NATIONAL CORRUGATED STEEL PIPE ASSOCIATION (NCSA).

INSTALLATION
SHALL BE IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 08 DIVISION II OR ASTM A798 AND IN CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS. IF THERE ARE ANY INCONSISTENCIES OR CONFLICTS THE CONTRACTOR SHOULD DISCUSS AND RESOLVE WITH THE SITE ENGINEER.

IT IS ALWAYS THE RESPONSIBILITY OF THE CONTRACTOR TO FOLLOW OSHA GUIDELINES FOR SAFE PRACTICES.

ANTI-FLOTATION PROVISIONS DUE TO HIGH GROUNDWATER OR OTHER FLOTATION CONCERNS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.

MATERIAL SPECIFICATION
NOT TO SCALE

60"Ø PERFORATED UNDERGROUND RETENTION SYSTEM -
 797134-010
 ALTADENA MAIN LIBRARY
 ALTADENA, CA
 SITE DESIGNATION: CMP #1

MARK	DATE	REVISION DESCRIPTION	BY

CONTECH ENGINEERED SOLUTIONS LLC
 CMP DETENTION SYSTEMS
 9100 Centre Pointe Dr., Suite 400, West Chester, OH 43089
 800-338-1122 513-645-7000 513-645-7993 FAX

CONTECH CONTRACT DRAWING

60"Ø PERFORATED UNDERGROUND RETENTION SYSTEM -
 797134-010
 ALTADENA MAIN LIBRARY
 ALTADENA, CA
 SITE DESIGNATION: CMP #1

PROJECT NO.	REV. NO.	DATE
797134	010	5/15/2024

TABLE 1:

DIAMETER, D	MIN. COVER	CORR. PROFILE
6"-10"	12"	1 1/2" x 1/4"
12"-48"	12"	2 2/3" x 1/2"
>48"-96"	12"	3" x 1", 5" x 1"
>96"	DIR	3" x 1", 5" x 1"

STRUCTURAL BACKFILL MUST EXTEND TO LIMITS OF THE TABLE. TOTAL HEIGHT OF COMPACTED COVER FOR CONVENTIONAL HIGHWAY LOADS IS MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TOP OF RIGID PAVEMENT.

INSTALLATION NOTES

- WHEN PLACING THE FIRST LIFTS OF BACKFILL IT IS IMPORTANT TO MAKE SURE THAT THE BACKFILL IS PROPERLY COMPACTED UNDER AND AROUND THE PIPE HAUNCHES.
- OTHER ALTERNATE BACKFILL MATERIAL MAY BE ALLOWED DEPENDING ON SITE SPECIFIC CONDITIONS, AS APPROVED BY SITE ENGINEER.
- AN HDPE MEMBRANE LINER WILL BE PLACED ON THE CROWN OF EACH PIPE TO PROVIDE AN IMPERMEABLE BARRIER AGAINST ENVIRONMENTAL CHANGES THAT MAY ADVERSELY AFFECT THE SYSTEM OVER TIME. PLEASE REFER TO THE CORRUGATED METAL PIPE DETENTION DESIGN GUIDE FOR ADDITIONAL TECHNICAL DETAILS.

TABLE 2: CMP RETENTION STANDARD BACKFILL SPECIFICATIONS

MATERIAL LOCATION	MATERIAL SPECIFICATION	DESCRIPTION
FILL ENVELOPE WIDTH	PER ENGINEER OF RECORD	MINIMUM TRENCH WIDTH MUST ALLOW ROOM FOR PROPER COMPACTION OF HAUNCH MATERIALS UNDER THE PIPE. THE SUGGESTED MINIMUM TRENCH WIDTH, OR EOR RECOMMENDATION: PIPE < 24" 3.00' PIPE > 24" 1.44' D + 4"Ø PIPE > 144" 1.50 + 12"
FOUNDATION	AASHTO 26.5.2 - PER ENGINEER OF RECORD	PRIOR TO PLACING THE BEDDING, THE FOUNDATION MUST BE CONSTRUCTED TO A UNIFORM AND STABLE GRADE. IN THE EVENT THAT UNSUITABLE FOUNDATION MATERIALS ARE ENCOUNTERED DURING EXCAVATION, THEY SHALL BE REMOVED AND FOUNDATION BROUGHT BACK TO GRADE WITH A FILL MATERIAL APPROVED BY THE ENGINEER OF RECORD. ENGINEER OF RECORD TO DETERMINE IF BEDDING IS REQUIRED. PIPE MAY BE PLACED ON A RELATIVELY LOOSE, NATIVE SUITABLE WELL GRADED GRANULAR MATERIAL THAT IS ROUGHLY SHAPED TO FIT THE BOTTOM OF THE PIPE, 2" MIN DEPTH. THE BEDDING MATERIAL MAY BE SUITABLE OPEN GRADED GRANULAR BEDDING CONFORMING TO AASHTO SOIL CLASSIFICATIONS A1, A2, OR A3 WITH MAXIMUM PARTICLE SIZE OF 3" PER AASHTO 26.3.1
BEDDING	AASHTO M 43, 3, 357, 4, 467, 5, 56, 57	
BACKFILL	FREE-DRAINING, ANGULAR, WASHED-STONE PER AASHTO M 42, 3, 371, 4, 467, 5, 56, 57 OR APPROVED EQUAL.*	HAUNCH ZONE MATERIAL SHALL BE HAND SHOVELED OR SHOVEL SLICED INTO PLACE TO ALLOW FOR PROPER COMPACTION WITHOUT SOFT SPOTS. BACKFILL SHALL BE PLACED IN 8" +/- LOOSE LIFTS AND COMPACTED TO 90% STANDARD PROCTOR PER AASHTO T 99. BACKFILL SHALL BE PLACED SUCH THAT THERE IS NO MORE THAN A TWO (2) INCH DIFFERENTIAL BETWEEN ANY OF THE PIPES AT ANY TIME DURING THE BACKFILL PROCESS. THE BACKFILL SHOULD BE ADVANCED ALONG THE LENGTH OF THE SYSTEM TO AVOID DIFFERENTIAL LOADING WHERE CONVENTIONAL COMPACTION TESTING IS NOT PRACTICAL. THE MATERIAL SHALL BE MECHANICALLY COMPACTED UNTIL NO FURTHER YIELDING OF MATERIAL IS OBSERVED UNDER THE COMPACTOR. *IN AREAS WITH HIGH WATER TABLE FLUCTUATIONS THAT INTERACT WITH THE PIPE ZONE, CONSIDER INSTALLING A GEOTEXTILE SEPARATION LAYER TO PREVENT SOIL MIGRATION.
COVER MATERIAL	UP TO MIN. COVER - AASHTO M 145: A-1, A-2, A-3 ABOVE MIN. COVER - PER ENGINEER OF RECORD	COVER MATERIAL MAY INCLUDE NON-BITUMINOUS, GRANULAR ROADBASE MATERIAL WITHIN MIN COVER LIMITS
RIGID OR FLEXIBLE PAVEMENT (IF APPLICABLE)	PER ENGINEER OF RECORD	FLEXIBLE PAVEMENT SHOULD NOT BE COUNTED AS PART OF THE FILL HEIGHT OVER THE CMP. FINAL BACKFILL MATERIAL SELECTION AND COMPACTION REQUIREMENTS SHALL FOLLOW THE PROJECT PLANS AND SPECIFICATIONS PER THE ENGINEER OF RECORD.
OPTIONAL SIDE GEOTEXTILE	NONE	GEOTEXTILE LAYER IS RECOMMENDED ON SIDES OF EXCAVATION TO PREVENT SOIL MIGRATION.
GEOTEXTILE BETWEEN LAYERS	NONE	IF SOIL TYPES DIFFER AT ANY POINT ABOVE PIPE INVERT, A GEOTEXTILE LAYER IS RECOMMENDED TO BE PLACED BETWEEN THE LAYERS TO PREVENT SOIL MIGRATION.

NOTES:

- FOR MULTIPLE BARREL INSTALLATIONS, THE RECOMMENDED STANDARD SPACING BETWEEN PARALLEL PIPE RUNS SHALL BE THE PIPE DIAMETER /2 BUT NO LESS THAN 12" FOR DIAMETERS < 72", FOR 72" AND LARGER DIAMETERS, THE MINIMUM SPACING IS 36". CONTACT YOUR CONTECH REPRESENTATIVE FOR NONSTANDARD SPACING.
- APPROVED REGIONAL EQUIVALENTS FOR SECTION 5 INCLUDE CA-7, MIDOT 6AA, 6A, OR SG. PROVIDED THEY MEET THE PARTICLE SIZES INDICATED.

MANUFACTURER RECOMMENDED BACKFILL
NOT TO SCALE

60"Ø PERFORATED UNDERGROUND RETENTION SYSTEM -
 797134-010
 ALTADENA MAIN LIBRARY
 ALTADENA, CA
 SITE DESIGNATION: CMP #1

MARK	DATE	REVISION DESCRIPTION	BY

CONTECH ENGINEERED SOLUTIONS LLC
 CMP DETENTION SYSTEMS
 9100 Centre Pointe Dr., Suite 400, West Chester, OH 43089
 800-338-1122 513-645-7000 513-645-7993 FAX

CONTECH CONTRACT DRAWING

60"Ø PERFORATED UNDERGROUND RETENTION SYSTEM -
 797134-010
 ALTADENA MAIN LIBRARY
 ALTADENA, CA
 SITE DESIGNATION: CMP #1

PROJECT NO.	REV. NO.	DATE
797134	010	5/15/2024

CONNECTION DETAIL

7 1/2" TECHCO SHOWN - MAY VARY

ELEVATION VIEW OF CMP AND RISER

CONNECTION DETAIL (DBBS)

PLAIN END CMP RISER PIPE

GENERAL NOTES:

- DELIVERED BAND STYLE AND FASTENER TYPE MAY VARY BY FABRICATION PLANT.
- JOINT IS TO BE ASSEMBLED PER AASHTO BRIDGE CONSTRUCTION SPECIFICATION SEC 26.4.2.4.
- BAND MATERIAL AND GAGE TO BE SAME AS RISER MATERIAL.
- IF RISER HAS A HEIGHT OF COVER OF 10' OR MORE, USE A SLIP JOINT.
- BANDS ARE NORMALLY FURNISHED AS FOLLOWS:
 - 12" THRU 48" 1-PIECE
 - 54" THRU 96" 2-PIECES
 - 102" THRU 144" 3-PIECES
- ALL RISER JOINT COMPONENTS WILL BE FIELD ASSEMBLED.
- MANHOLE RISERS IN APPLICATIONS WHERE TRAFFIC LOADS ARE IMPOSED REQUIRE SPECIAL DESIGN CONSIDERATIONS.
- DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES.

12" RISER BAND DETAIL

NOT TO SCALE

D-24 DIMPLE BAND DETAIL

NOT TO SCALE

GENERAL NOTES:

- JOINT IS TO BE ASSEMBLED PER AASHTO BRIDGE CONSTRUCTION SPECIFICATION SEC 26.4.2.4.
- BAND MATERIALS AND/OR COATING CAN VARY BY LOCATION. CONTACT YOUR CONTECH REPRESENTATIVE FOR AVAILABILITY.
- BANDS ARE SHAPED TO MATCH THE PIPE-ARCH WHEN APPLICABLE.
- BANDS ARE NORMALLY FURNISHED AS FOLLOWS:
 - 12" THRU 48" 1-PIECE
 - 54" THRU 96" 2-PIECES
 - 102" THRU 144" 3-PIECES
- BAND FASTENERS ARE ATTACHED WITH SPOT WELDS, RIVETS OR HAND WELDS.
- DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
- ORDER SHALL DESIGNATE GASKET OPTION, IF REQUIRED (SEE DETAILS ABOVE).

60"Ø PERFORATED UNDERGROUND RETENTION SYSTEM -
 797134-010
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 ALTADENA, CA
 SITE DESIGNATION: CMP #1

MARK	DATE	REVISION DESCRIPTION	BY

CONTECH ENGINEERED SOLUTIONS LLC
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 9100 Centre Pointe Dr., Suite 400, West Chester, OH 43089
 800-338-1122 513-645-7000 513-645-7993 FAX

CONTECH CONTRACT DRAWING

60"Ø PERFORATED UNDERGROUND RETENTION SYSTEM -
 797134-010
 ALTADENA MAIN LIBRARY
 ALTADENA, CA
 SITE DESIGNATION: CMP #1

PROJECT NO.	REV. NO.	DATE
797134	010	5/15/2024

BUILDING PERMIT SUBMITTAL

CONSULTANTS LOGO

STAMP

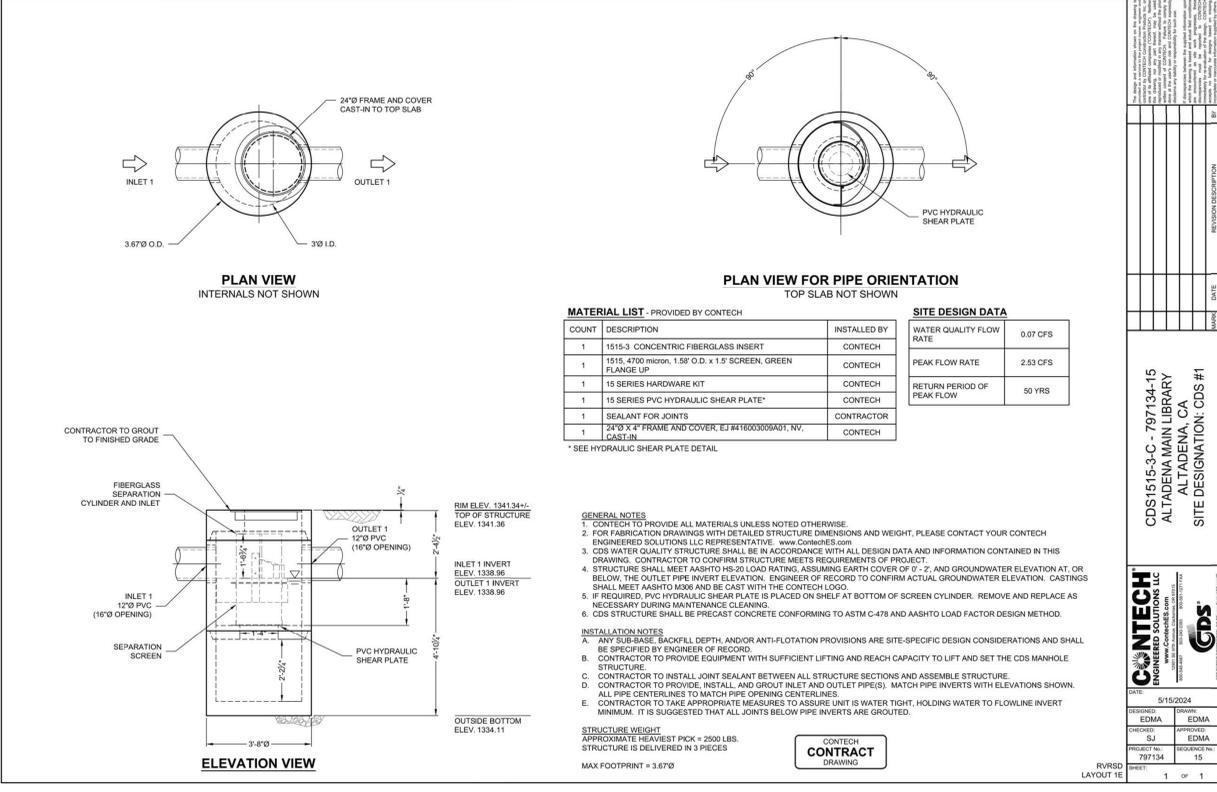
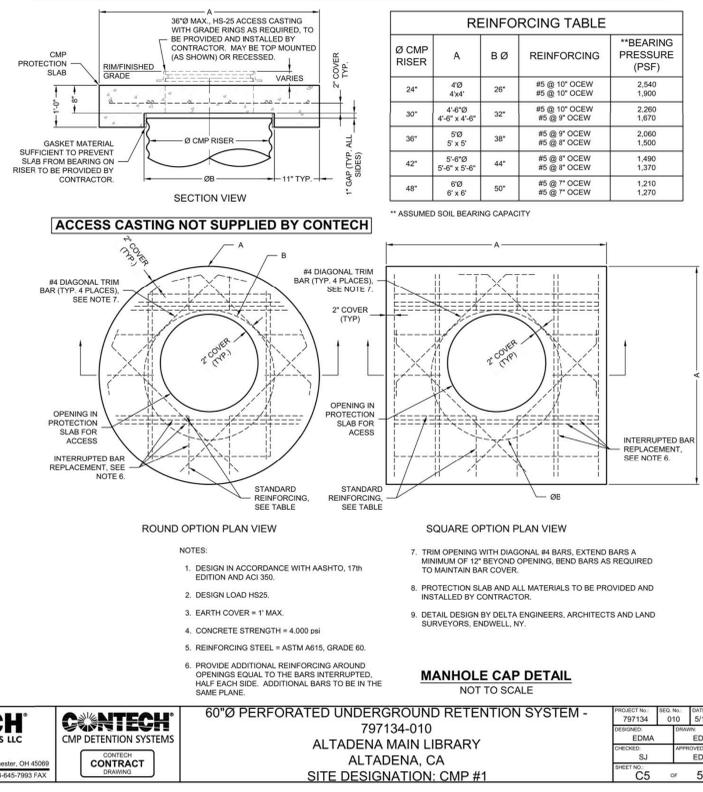
NO. DATE REVISIONS

1	06/24/2024	BUILDING PERMIT SUBMITTAL
2	08/01/2025	GRADING PERMIT SUBMITTAL #2
	10/28/2025	ADDENDUM 06

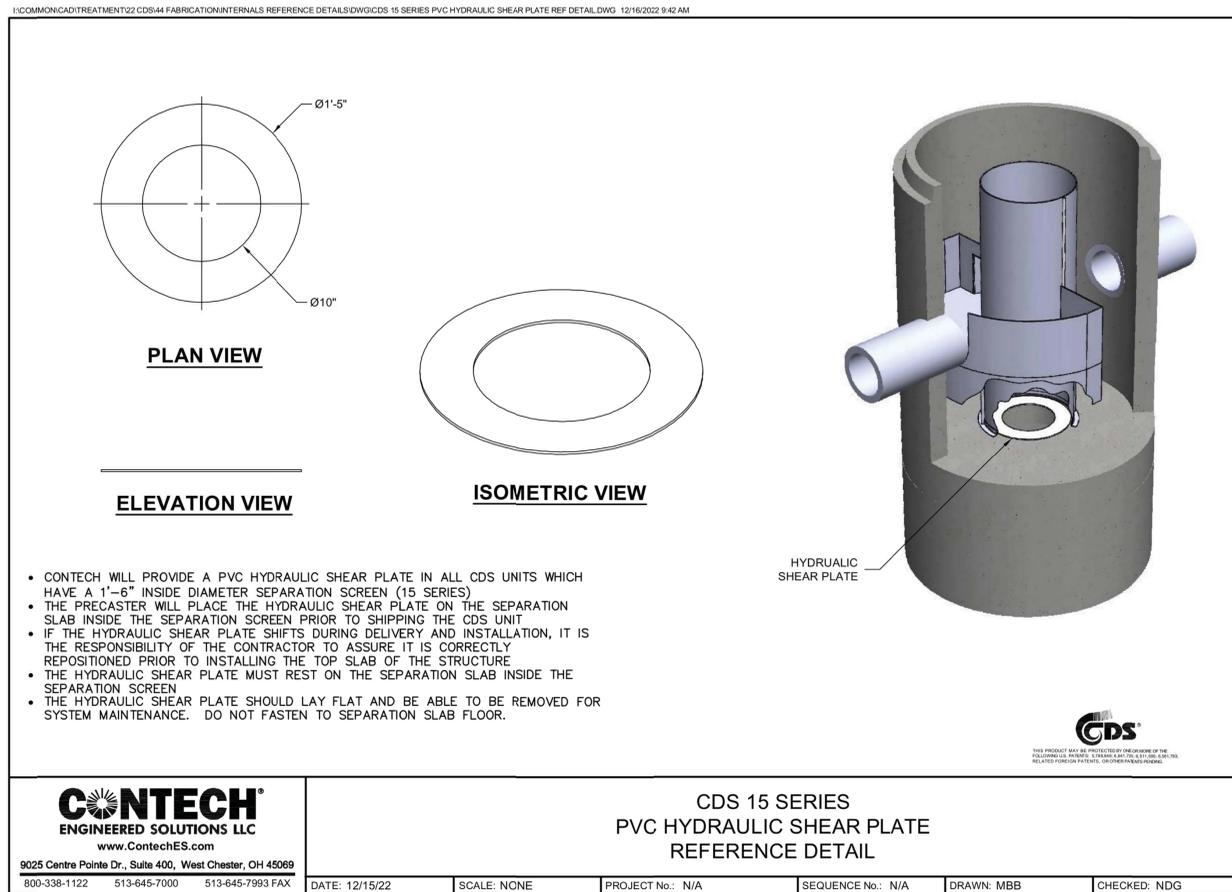
PROJECT TITLE:
ALTADENA MAIN LIBRARY
 600 E MARIPOSA STREET
 ALTADENA, CA 91001

PROJECT NO. 2111010
 DATE: 06-24-2024
 SHEET TITLE:

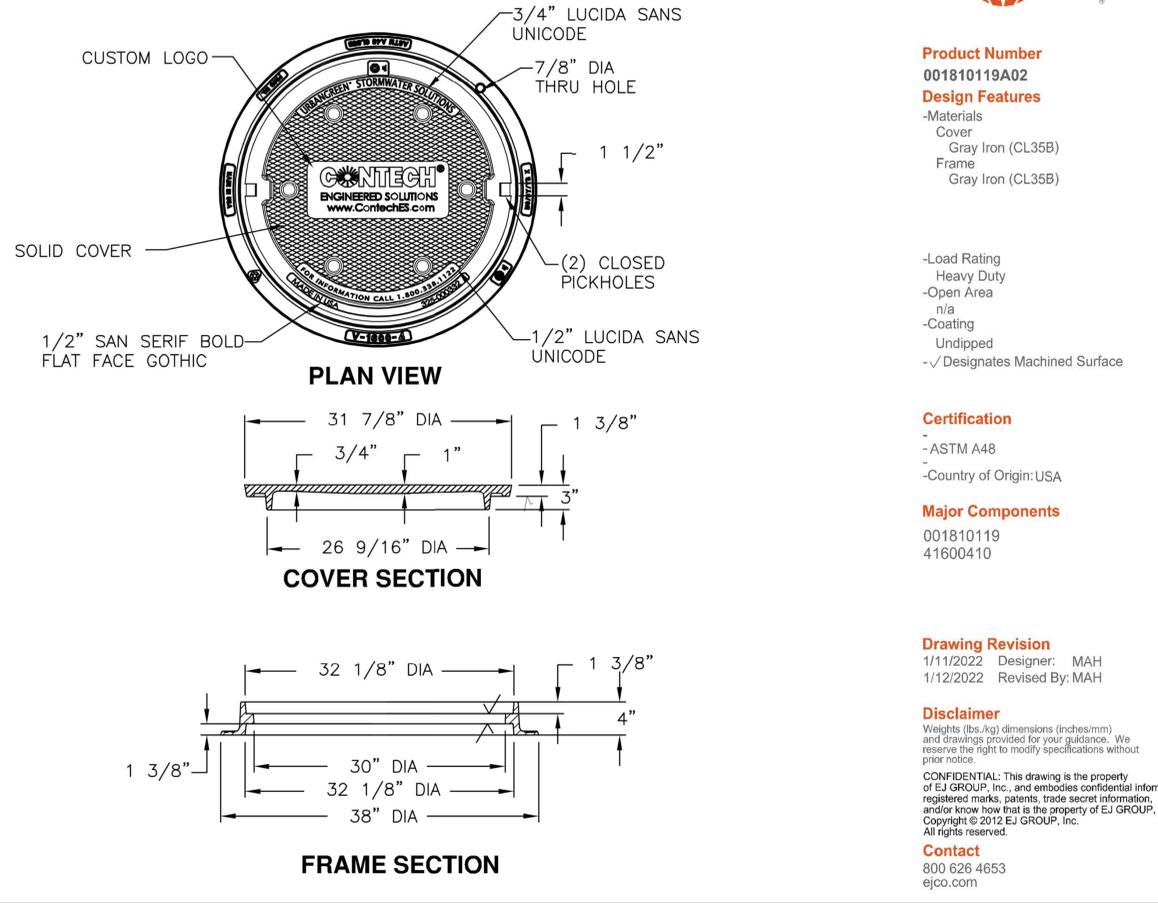
MISCELLANEOUS DETAILS



1 CONTECH CMP DETAIL (CONTINUED)
NOT TO SCALE



1810A4 V1600-4 Assembly



CONSULTANTS LOGO

EJ ENGINEERS
10011 Corporate Blvd
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Tel: 626-276-0600
Fax: 626-276-0600

STAMP
Professional Engineer
EJ ENGINEERS
No. 336279
Exp. 12/30/26
State of California
Civil

NO.	DATE	REVISIONS
1	06/24/2024	BUILDING PERMIT SUBMITTAL
2	08/01/2025	GRADING PERMIT SUBMITTAL #2
	10/28/2025	ADDENDUM 06

PROJECT TITLE:
ALTADENA MAIN LIBRARY
600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010
DATE: 06-24-2024
SHEET TITLE:

MISCELLANEOUS DETAILS

SCALE: As Indicated

All drawings and written specifications herein constitute the entire contract. No verbal or written agreements, conditions, or specifications shall be binding unless they are specifically incorporated into these drawings. The user of these drawings shall be deemed to have accepted the terms and conditions of use set forth herein. The user shall be responsible for obtaining all necessary permits and approvals. The user shall indemnify and hold the architect harmless from and against all claims, damages, and expenses, including reasonable attorneys' fees, arising out of or from the use of these drawings, whether or not such claims, damages, and expenses are caused in whole or in part by the negligence of the architect. The architect shall not be responsible for the construction of the project or for the safety of the project. The architect shall not be responsible for the construction of the project or for the safety of the project. The architect shall not be responsible for the construction of the project or for the safety of the project.

FG-0001

SPECIFIER CHART			
MODEL	INLET ID	GRATE OD	COMMENTS
FF-12D	12" X 12"	15" X 20"	GRATED INLET
FF-16D	16" X 16"	18" X 18"	GRATED INLET
FF-18D	18" X 18"	20" X 20"	GRATED INLET
FF-1836SD	18" X 36"	18" X 40"	GRATED INLET
FF-1836DGO	18" X 36"	18" X 40"	COMBINATION INLET
FF-24D	24" X 24"	28" X 26"	GRATED INLET
FF-2436SD	24" X 36"	24" X 40"	GRATED INLET
FF-24DGO	24" X 24"	18" X 20"	COMBINATION INLET
FF-2436DGO	24" X 36"	24" X 40"	COMBINATION INLET
FF-36D (2 PIECE)	36" X 36"	38" X 40"	GRATED INLET
FF-3648D (2 PIECE)	36" X 48"	40" X 48"	GRATED INLET

NOTES:

- Filter insert shall have a high flow bypass feature.
- Filter support frame shall be constructed from stainless steel Type 304.
- Filter medium shall be Fossil Rock™, installed and maintained in accordance with manufacturer specifications.
- Storage capacity reflects 80% of maximum solids collection prior to impeding filtering bypass.

FloGard®
Catch Basin Insert Filter
Grated Inlet Style

Oldcastle®
Stormwater Solutions
1742 Southbank Plaza, Suite 200 | Littleton, CO 80120 | PH: 800.579.8819 | oldcastlestormwater.com

FG-0001 E ECO-0142 JPR 7/13/16 JPR 12/18/06 SHEET 1 OF 2

FG-0001

FloGard®
Catch Basin Insert Filter
Grated Inlet Style

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FG-0001 E ECO-0142 JPR 7/13/16 JPR 12/18/06 SHEET 2 OF 2

ZURN Model 350DA Double Check Detector Assembly

Application: Designed for installation on water lines in fire protection systems to protect against both back-siphonage and back-pressure of polluted water into the potable water supply. Model 350DA shall provide protection where a potential health hazard does not exist. Incorporates metered by-pass to detect leaks and unsanitized water use.

Standards Compliance: (12" Horizontal Only)
 • ASSE® Listed 1048 (Sizes 2 1/2" thru 12")
 • CSA® Certified B64.8 (Sizes 2 1/2" thru 8", & 12")
 • AWWA Compliant C510 (Sizes 2 1/2" thru 12"), and C550
 • UL® Classified (Sizes 2 1/2" thru 12")
 • C-UL® Classified (Sizes 2 1/2" thru 12")
 • FM® Approved (Sizes 2 1/2" thru 12")
 • NYSCEM A-147-268-M Vol 4 (2-1/2" - 12")
 • Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California (Sizes 2 1/2" thru 12")
 • Meets the requirements of NSF/ANSI/CAN 61 - 10.25% MAX. WEIGHTED AVERAGE LEAD CONTENT

By-Pass Backflow Assembly 3/4" Model 950XLD

Materials: Main valve body: Ductile Iron ASTM A 536; Access covers: Ductile Iron ASTM A 536; Coatings: NSF Approved fusion epoxy finish; Internals: Stainless steel, 300 Series; Fasteners: Stainless Steel, 300 Series; Elongated: Burns Nitrite (FDA approved); Polymers: NORYL™; Springs: Stainless Steel, 300 Series

Options: (Suffixes can be combined)
 L - with OS & Y gate valves (standard)
 LM - less shut-off valves (flanged body connections)
 LM - less water meter (standard)
 CFM - with cu ft meter
 CM - with cu meter meter
 G - with groove end gate valves
 FG - with flanged inlet connection and grooved outlet connection
 PI - with Post Indicator Gate Valve with flanged inlet connection and grooved outlet connection
 GF - with flanged inlet connection and grooved outlet connection
 BG - with grooved end butterfly valves with integral monitor switches (2 1/2" - 10")

Accessories:
 Repair kit (rubber only)
 Thermal expansion tank (Model XT)
 OS & Y Gate valve tamper switch (OSY-40)

Features: Sizes: 2 1/2", 3", 4", 6", 8", 10", 12"; Maximum working water pressure: 175 PSI; Maximum working water temperature: 140°F; Hydrostatic test pressure: 350 PSI; AWWA C606 ASME B16.42 Class 150

Dimensions & Weights (do not include pkg.)

MODEL SIZE	LESS SHUT OFF VALVES	OS&Y GATE VALVES	OS&Y GATE VALVES FLANGED	OS&Y GATE VALVES GROOVED	BUTTERFLY VALVES	BUTTERFLY VALVES GROOVED
IN. MM	IN. MM	IN. MM	IN. MM	IN. MM	IN. MM	IN. MM
2 1/2	48	31	178	48	140	140
3	60	41	213	60	175	175
4	102	48	206	104	282	282
6	150	60	288	150	300	300
8	192	72	360	192	360	360
10	240	84	432	240	420	420
12	300	96	504	300	480	480

Attention: Model 350DA (flange body) and Model 350DA (grooved body) have different lay lengths.

Zurn Industries, LLC | Wilkins
1747 Commerce Way, Piner Hills, CA U.S.A. 92448 | PH: 855-663-9876 | FAX: 805-238-5766
In Canada | Zurn Industries Limited
7800 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, 877-892-8216
www.zurn.com

Page 1 of 2

Flow Characteristics

Typical Installation: Local codes shall govern installation requirements. Unless otherwise specified, the assembly shall be mounted at a minimum of 12" (305mm) and a maximum of 30" (762mm) above adequate drains with sufficient side clearance for testing and maintenance. The installation shall be made so that no part of the unit can be submerged.

Pipe size	5 f/sec	7.5 f/sec	10 f/sec	15 f/sec
2 1/2"	75	112	149	224
3"	115	173	230	346
4"	198	298	397	595
6"	450	675	900	1351
8"	780	1169	1559	2339
10"	1229	1843	2458	3687
12"	1763	2644	3525	5288

Specifications: The Double Check Detector Backflow Prevention Assembly shall be certified to NSF/ANSI/CAN 61, ASSE® Listed 1048, and supplied with full port gate valves. The main body and access cover shall be epoxy coated ductile iron (ASTM A 536), the seat ring and check valve shall be Noryl™, the stem shall be stainless steel (ASTM A 276) and the seat disc elastomers shall be EPDM. The first and second check valves shall be accessible for maintenance without removing the device from the line. The Double Check Detector Backflow Prevention Assembly shall be a ZURN WILKINS Model 350DA.

Zurn Industries, LLC | Wilkins
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Page 2 of 2

1 CATCH BASIN FILTER INSERT DETAIL
NOT TO SCALE

ELEVATION VERTICAL BEND (SEE NOTE 5)
PLAN WYE
PLAN VALVES
 BLIND FLANGE OR PLUG AT END OF WATERMAIN
PLAN CROSSES
PLAN TEES
PLAN BENDS
 DIRECTION OF RESULTANT THRUST

GENERAL NOTES:

- ALL ANCHOR AND THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED SOIL.
- MINIMUM ALLOWABLE WATER PRESSURE FOR DESIGN OF THRUST BLOCKS IS 1500 PSI. BEARING AREA INCREASE IN PRESSURE.
- ALL CONCRETE USED IN THRUST BLOCKS SHALL ATTAIN 2000 PSI STRENGTH.
- ALL ANCHOR RODS SHALL BE REINFORCING STEEL AND A MINIMUM OF 1/2-INCH IN DIAMETER.
- USE ANCHOR BLOCKS AT VERTICAL BENDS WHEN PIPE IS ABOVE OR BELOW GROUND. SIZE OF BLOCK AND ROD SHALL BE AS SHOWN ON THE PLANS OR AS DETERMINED BY THE ENGINEER IN THE FIELD.
- USE 30 POUND FELT TO INSURE COLD JOINT.
- CONCRETE SHALL NOT COME INTO DIRECT WITH ASBESTOS CEMENT PIPE.
- FOR PIPE 14" IN DIAMETER OR LARGER ENGINEER IS TO SUBMIT CALCULATIONS.

MINIMUM BEARING AREAS IN SQ.FT.				
MAIN SIZE	TEE	90° BEND	45° BEND	22 1/2° BEND
6"	4	4	4	3
8"	5	7	4	3

BASED ON 150 PSI W.W.R. PRESSURE & SOIL BEARING LOADS OF 2000 PSF THE RATIO OF WIDTH TO HEIGHT SHALL NOT EXCEED 1 1/2 TO 1
TEES, PLUGS, CAPS & HYDRANTS.

SOIL TYPE	MAX. ALLOWABLE SOIL BEARING VALUES	FACTORS FOR INCREASING AREAS IN TABLE 1
LOOSE SAND	500 PSF	4
SOFT SANDY CLAY	1000 PSF	2
ADOBE	1000 PSF	2
COMPACT FINE SAND	2000 PSF	1
COMPACT COARSE SAND	2000 PSF	1
MEDIUM STIFF CLAY	2000 PSF	1

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE SAFE SOIL BEARING VALUES AND SIZE OF BEARING AREAS.
BASED ON 2 FEET MINIMUM DEPTH OF COVER OVER THE PIPE.

3 THRUST BLOCK DETAIL
NOT TO SCALE

2 DOUBLE CHECK DETECTOR ASSEMBLY
NOT TO SCALE

2 - OUTLET PUMPER CONNECTION
NATURAL GRADE
4" AWWA C900 FW
THRUST BLOCK PER DETAIL 3 OF SHEET C-5.0
DI FLANGED LONG RADIUS 4" x 90° BEND
UNDISTURBED SOIL

4 FIRE DEPARTMENT CONNECTION DETAIL
NOT TO SCALE

POST INDICATOR
FINISHED SURFACE
CONCRETE COLLAR
BOTTOM SECTION GATE VALVE
FIRE WATER
PIPE
VALVE CONCRETE THRUST BLOCK PER DETAIL 3 OF SHEET C-5.0
UNDISTURBED SOIL

NOTE:

- POST INDICATOR VALVE TO BE PROTECTED WITH ABOVEGROUND BOLLARD / GUARD POSTS PER FIRE DEPARTMENT REQUIREMENTS.
- POST INDICATOR VALVE, AMERICAN FLOW CONTROL IP-71, 4" MODEL 1A OR APPROVED EQUAL

5 POST INDICATOR VALVE DETAIL
NOT TO SCALE



ANDERSON BRULÉ ARCHITECTS
325 South First Street, 4th Floor
San Jose, California 95113
408.208.1885 | www.ab-arch.com
409 Harvard Avenue, Suite 201
Claremont, CA 91711

BUILDING PERMIT SUBMITTAL

CONSULTANTS LOGO

MCA ENGINEERS & ARCHITECTS
1000 North Main Street
Anaheim, CA 92810
Tel: 714.776.6600

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NO.	DATE	REVISIONS
1	06/24/2024	BUILDING PERMIT SUBMITTAL
2	08/01/2025	GRADING PERMIT SUBMITTAL #2
	10/28/2025	ADDENDUM 06

PROJECT TITLE:
ALTADENA MAIN LIBRARY
600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010
DATE: 06-24-2024
SHEET TITLE:

MISCELLANEOUS DETAILS

SCALE: As indicated

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C-5.3

GENERAL NOTES:

- IN CASE OF EMERGENCY, CALL: CONTRACTOR NAME _____ PHONE NUMBER: _____
- A STAND-BY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON (NOVEMBER 1 TO APRIL 15). NECESSARY MATERIALS SHALL BE AVAILABLE ON-SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF EMERGENCY DEVICES WHEN RAIN IS IMMINENT.
- EROSION CONTROL DEVICES SHOWN ON THIS PLAN MAY BE REMOVED WHEN APPROVED BY THE BUILDING OFFICIAL IF THE GRADING OPERATION HAS PROGRESSED TO THE POINT WHERE THEY ARE NO LONGER REQUIRED.
- GRADED AREAS ADJACENT TO FILL SLOPES LOCATED AT THE SITE PERIMETER MUST DRAIN AWAY FROM THE TOP OF SLOPE AT THE CONCLUSION OF EACH WORKING DAY. ALL LOOSE SOILS AND DEBRIS THAT MAY CREATE A POTENTIAL HAZARD TO OFF-SITE PROPERTY SHALL BE STABILIZED OR REMOVED FROM THE SITE ON A DAILY BASIS.
- ALL SILT AND DEBRIS SHALL BE REMOVED FROM ALL DEVICES WITHIN 24 HOURS AFTER EACH RAINSTORM AND BE DISPOSED OF PROPERLY.
- A GUARD SHALL BE POSTED ON SITE WHEREVER THE DEPTH OF WATER IN ANY DEVICE EXCEEDS TWO FEET. THE DEVICE SHALL BE DRAINED OR PUMPED DRY WITHIN 24 HOURS AFTER EACH RAINSTORM. PUMPING AND DRAINING OF ALL BASINS AND DRAINAGE DEVICES MUST COMPLY WITH THE APPROPRIATE BMP FOR DEWATERING OPERATIONS.
- THE PLACEMENT OF ADDITIONAL DEVICES TO REDUCE EROSION DAMAGE AND CONTAIN POLLUTANTS WITHIN THE SITE IS LEFT TO THE DISCRETION OF THE OSP. ADDITIONAL DEVICES AS NEEDED SHALL BE INSTALLED TO RETAIN SEDIMENTS AND OTHER POLLUTANTS ON SITE.
- DESILTING BASINS MAY NOT BE REMOVED OR MADE INOPERABLE BETWEEN NOVEMBER 1 AND APRIL 15 OF THE FOLLOWING YEAR WITHOUT THE APPROVAL OF THE BUILDING OFFICIAL.
- STORM WATER POLLUTION AND EROSION CONTROL DEVICES ARE TO BE MODIFIED, AS NEEDED, AS THE PROJECT PROGRESSES, THE DESIGN AND PLACEMENT OF THESE DEVICES IS THE RESPONSIBILITY OF THE FIELD ENGINEER. PLANS REPRESENTING CHANGES MUST BE SUBMITTED FOR APPROVAL IF REQUESTED BY THE BUILDING OFFICIAL.
- EVERY EFFORT MUST BE MADE TO ELIMINATE THE DISCHARGE OF NONSTORM WATER FROM THE PROJECT SITE AT ALL TIMES.
- ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON-SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES, OR WIND.
- STOCKPILES OF EARTH AND OTHER CONSTRUCTION-RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
- FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTINGS AND ARE NOT TO CONTAMINATE THE SOILS AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
- EXCESS OR WASTE CONCRETE MAY NOT BE WASTED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON-SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
- DEVELOPERS/CONTRACTORS ARE RESPONSIBLE TO INSPECT ALL EROSION CONTROL DEVICES AND BMP'S ARE INSTALLED AND FUNCTIONING PROPERLY IF THERE IS A 40% CHANCE OF 0.25 INCHES OR GREATER OF PREDICTED PRECIPITATION, AND AFTER ACTUAL PRECIPITATION. A CONSTRUCTION SITE INSPECTION CHECKLIST AND INSPECTION LOG SHALL BE MAINTAINED AT THE PROJECT SITE AT ALL TIMES AND AVAILABLE FOR REVIEW BY THE BUILDING OFFICIAL (COPIES OF SELF-INSPECTION CHECKLIST AND INSPECTION LOGS ARE AVAILABLE UPON REQUEST). AT HIS/HER EXPENSE THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A QUALIFIED SWPPP PRACTITIONER FOR THE DURATION OF THE PROJECT.
- TRASH AND CONSTRUCTION-RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
- SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEEPED UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
- ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
- AS THE ENGINEER OF RECORD, I HAVE SELECTED APPROPRIATE BMP'S TO EFFECTIVELY MINIMIZE THE NEGATIVE IMPACTS OF THIS PROJECT'S CONSTRUCTION ACTIVITIES ON STORM WATER QUALITY. THE PROJECT OWNER AND CONTRACTOR ARE AWARE THAT THE SELECTED BMP'S MUST BE INSTALLED, MONITORED, AND MAINTAINED TO ENSURE THEIR EFFECTIVENESS. THE BMP'S NOT SELECTED FOR IMPLEMENTATION ARE REDUNDANT OR DEEMED NOT APPLICABLE TO THE PROPOSED CONSTRUCTION QUALITY."
- THE FOLLOWING BMP'S AS OUTLINED IN, BUT NOT LIMITED TO, THE "CALIFORNIA STORMWATER BEST MANAGEMENT PRACTICES HANDBOOK" - JANUARY 2003, OR THE LATEST REVISED EDITION, MAY APPLY DURING THE CONSTRUCTION OF THIS PROJECT (ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY THE PROJECT ENGINEER OR THE BUILDING OFFICIAL). BUILDING OFFICIAL SIGNATURE _____

- EROSION CONTROL**
- EC1 - SCHEDULING
 - EC2 - PRESERVATION OF EXISTING VEGETATION
 - EC3 - HYDRAULIC MULCH
 - EC4 - HYDROSEEDING
 - EC5 - SOIL BINDERS
 - EC6 - STRAW MULCH
 - EC7 - GEOTEXTILES AND MATS
 - EC8 - WOOD MULCHING
 - EC9 - EARTH DIKES AND DRAINAGE SWALES
 - EC10 - VELOCITY DISSIPATION DEVICES
 - EC11 - SLOPE DRAINS
 - EC12 - STREAMBANK STABILIZATION
 - EC13 - RESERVED
 - EC14 - COMPOST BLANKETS
 - EC15 - SOIL PREPARATION/ROUGHENING
 - EC16 - NON-VEGETATED STABILIZATION

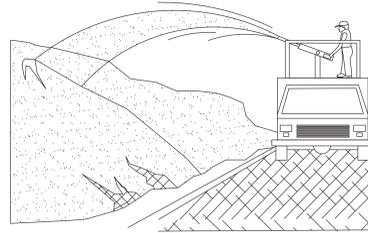
- TEMPORARY SEDIMENT CONTROL**
- SE1 - SILT FENCE
 - SE2 - SEDIMENT BASIN
 - SE3 - SEDIMENT TRAP
 - SE4 - CHECK DAM
 - SE5 - FIBER ROLLS
 - SE6 - GRAVEL BAG BERM
 - SE7 - STREET SWEEPING AND VACUUMING
 - SE8 - GRAVEL BAG BARRIER
 - SE9 - STRAW BALE BARRIER
 - SE10 - STORM DRAIN INLET PROTECTION
 - SE11 - ACTIVE TREATMENT SYSTEMS
 - SE12 - TEMPORARY SILT DIKE
 - SE13 - COMPOST SOCKS & BERMS
 - SE14 - BIOFILTERS BAGS

- WIND EROSION CONTROL**
- WE1 - WIND EROSION CONTROL

- EQUIPMENT TRACKING CONTROL**
- TC1 - STABILIZED CONSTRUCTION ENTRANCE
 - EXIT
 - TC2 - STABILIZED CONSTRUCTION ROADWAY
 - TC3 - ENTRANCE/OUTLET TIRE WASH

- NON-STORMWATER MANAGEMENT**
- NS1 - WATER CONSERVATION PRACTICES
 - NS2 - DEWATERING OPERATIONS
 - NS3 - PAVING AND GRINDING OPERATIONS
 - NS4 - TEMPORARY STREAM CROSSING
 - NS5 - CLEARWATER DIVERSION
 - NS6 - ILLICIT CONNECTION/DISCHARGE
 - NS7 - POTABLE WATER/IRRIGATION
 - NS8 - VEHICLE AND EQUIPMENT CLEANING
 - NS9 - VEHICLE AND EQUIPMENT FUELING
 - NS10 - VEHICLE AND EQUIPMENT MAINTENANCE
 - NS11 - PILE DRIVING OPERATIONS
 - NS12 - CONCRETE CURING
 - NS13 - CONCRETE FINISHING
 - NS14 - MATERIAL AND EQUIPMENT USE
 - NS15 - DEMOLITION ADJACENT TO WATER
 - NS16 - TEMPORARY BATCH PLANTS

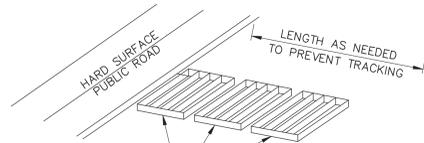
- WASTE MANAGEMENT & MATERIAL POLLUTION CONTROL**
- WM1 - MATERIAL DELIVERY AND STORAGE
 - WM2 - MATERIAL USE
 - WM3 - STOCKPILE MANAGEMENT
 - WM4 - SPILL PREVENTION AND CONTROL
 - WM5 - SOLID WASTE MANAGEMENT
 - WM6 - HAZARDOUS WASTE MANAGEMENT
 - WM7 - CONTAMINATION SOIL MANAGEMENT
 - WM8 - CONCRETE WASTE MANAGEMENT
 - WM9 - SANITARY/SEPTIC WASTE MANAGEMENT
 - WM10 - LIQUID WASTE MANAGEMENT



NOTES:

- SOIL/SLOPE STABILIZATION PRACTICES SHALL BE DESIGNED TO PRESERVE EXISTING VEGETATION WHERE FEASIBLE AND TO REVEGETATE OPEN AREAS AS SOON AS FEASIBLE AFTER GRADING. THESE CONTROL PRACTICES SHALL INCLUDE TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, SOD STABILIZATION, VEGETATIVE BUFFER STRIPS, PROTECTION OF TREES, OR OTHER SOIL STABILIZATION PRACTICES.
- SOIL STABILIZATION SHALL BE IMPLEMENTED ON ALL INACTIVE DISTURBED AREAS FROM NOVEMBER 1 THRU APRIL 15 AND ON ALL DISTURBED AREAS DURING A RAIN EVENT OR POTENTIAL RAIN.
- STABILIZATION PRACTICES SHALL CONTROL/PREVENT EROSION FROM THE FORCES OF WIND AND WATER.
- STABILIZATION PRACTICES SHALL BE IMPLEMENTED IN CONJUNCTION WITH SEDIMENT TRAPPING/FILTERING PRACTICES AND PRACTICES TO REDUCE THE TRACKING OF SEDIMENT ONTO PAVED ROADS.
- WHEN USING STRAW MULCHING, THE MINIMUM APPLICATION SHALL BE 2 TONS/ACRE. MULCH MUST BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER.
- WHEN USING HYDROSEEDING/MULCHING, THE MINIMUM APPLICATION OF WOOD FIBER SHALL BE 1,500 LBS/ACRE, THAT DOES NOT CONTAIN MORE THAN 50 PERCENT NEWSPRINT.
- FOR SEEDING RECOMMENDATIONS, USDA, NATURAL RESOURCES CONSERVATION SERVICE.

3 EROSION CONTROL



A SERIES OF STEEL PLATES (3 OR MORE) WITH RUMBLE STRIPS SHALL BE INSTALLED ON EXISTING ASPHALT OR CONCRETE PAVEMENT

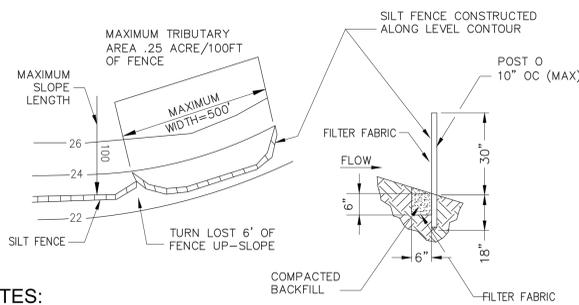
NOTES:

- SEDIMENTS AND OTHER MATERIALS SHALL NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS SHALL BE STABILIZED SO AS TO PREVENT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC ROADS. DEPOSITIONS MUST BE SWEEPED UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS INTO THE STORM DRAIN SYSTEM.
- STABILIZED CONSTRUCTION ENTRANCE SHALL BE:
 - A. LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE RD OR FROM A PUBLIC RIGHT OF WAY, STREET, ALLEY, AND SIDEWALK OR PARKING AREA.
 - B. A SERIES OF STEEL PLATES WITH "RUMBLE STRIPS", AND/OR MIN 4" COARSE AGGREGATE WITH LENGTH, WIDTH & THICKNESS AS NEEDED TO ADEQUATELY PREVENT ANY TRACKING ONTO PAVED SURFACES.
- ADDING A WASH RACK WITH A SEDIMENT TRAP LARGE ENOUGH TO COLLECT ALL WASH WATER CAN GREATLY IMPROVE EFFICIENCY.
- ALL VEHICLES ACCESSING THE CONSTRUCTION SITE SHALL UTILIZE THE STABILIZED CONSTRUCTION ENTRANCE SITES.

STREET MAINTENANCE

- REMOVE ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS IMMEDIATELY.
- SWEEP PAVED AREAS THAT RECEIVE CONSTRUCTION TRAFFIC WHENEVER SEDIMENT BECOMES VISIBLE.
- PAVEMENT WASHING WITH WATER IS PROHIBITED IF IT RESULTS IN A DISCHARGE TO THE STORM DRAIN SYSTEM.

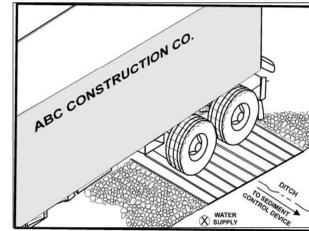
4 STABILIZED CONSTRUCTION ENTRANCE / EXIT



NOTES:

- CONSTRUCT THE SILT FENCE ALONG A LEVEL CONTOUR.
- SILT FENCES SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED.
- PROVIDE SUFFICIENT ROOM FOR RUNOFF TO POND BEHIND THE FENCE AND ALLOW SEDIMENT REMOVAL EQUIPMENT TO PASS BETWEEN THE SILT FENCE AND TOE OF SLOPE OR OTHER OBSTRUCTIONS. ABOUT 1200 SQ. FT. OF PONDING AREA SHALL BE PROVIDED FOR EVERY ACRE DRAINING TO THE FENCE.
- TURN THE ENDS OF THE FILTER FENCE UPHILL TO PREVENT STORMWATER FROM FLOWING AROUND THE FENCE.
- LEAVE AN UNDISTURBED OR STABILIZED AREA IMMEDIATELY DOWNSLOPE FROM THE FENCE.
- DO NOT PLACE IN LIVE STREAM OR INTERMITTENTLY FLOWING CHANNELS.
- WHEN STANDARD FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG. TIE WIRES OR HOG RINGS.

5 SILT FENCE

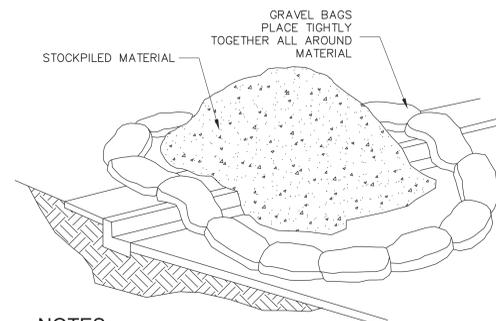


NOTES:

- THE TIRE WASH REQUIRES A SUPPLY OF WASH WATER.
- A TURNOUT OR DOUBLEWIDE EXIT IS REQUIRED TO AVOID HAVING ENTERING VEHICLES DRIVE THROUGH THE WASH AREA.
- DO NOT USE WHERE WET TIRE TRUCKS LEAVING THE SITE LEAVE THE ROAD DANGEROUSLY SLICK.
- INCORPORATE WITH A STABILIZED CONSTRUCTION ENTRANCE/EXIT.
- CONSTRUCT ON LEVEL GROUND WHEN POSSIBLE, ON A PAD OF COARSE AGGREGATE GREATER THAN 3 IN. BUT SMALLER THAN 6 IN. A GEOTEXTILE FABRIC SHOULD BE PLACED BELOW THE AGGREGATE.

WASH RACK SHOULD BE DESIGNED AND CONSTRUCTED/MANUFACTURED FOR ANTICIPATED TRAFFIC LOADS.

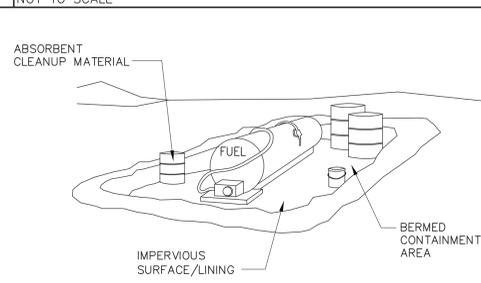
6 ENTRANCE/OUTLET TIRE WASH



NOTES:

- DIRT AND OTHER CONSTRUCTION RELATED MATERIALS PLACED IN THE STREET OR ON OTHER IMPERVIOUS SURFACES MUST BE CONTAINED WITH SANDBAGS OR OTHER MEASURES TO PREVENT TRANSPORT TO THE STORMDRAIN SYSTEM.
- ANY CONSTRUCTION MATERIAL STORED OR STOCKPILED ON-SITE SHALL BE PROTECTED FROM BEING TRANSPORTED BY THE FORCE OF WIND OR WATER.

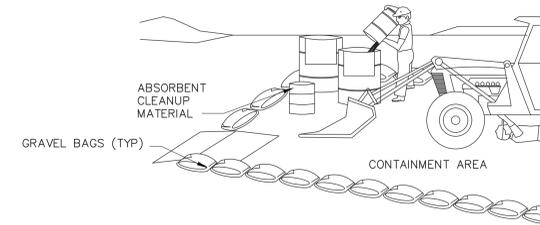
7 MATERIAL STORAGE



NOTE:

- FUELING SHALL BE PERFORMED IN A DESIGNATED AREA, AWAY FROM COURSES. ABSORBENT CLEANUP MATERIAL SHALL BE ON SITE AND USED IMMEDIATELY IN THE EVENT OF A SPILL.

8 VEHICLE / EQUIPMENT FUELING



NOTES:

- LEAKING VEHICLES AND EQUIPMENT SHALL NOT BE ALLOWED ON-SITE. EQUIPMENT AND VEHICLES SHALL BE INSPECTED FREQUENTLY FOR LEAKS AND SHALL BE REPAIRED IMMEDIATELY. CLEAN UP SPILLS AND LEAKS PROMPTLY WITH ABSORBENT; DO NOT FLUSH WITH WATER.
- VEHICLES AND EQUIPMENT SHALL BE MAINTAINED AND REPAIRED ON-SITE ONLY IN DESIGNATED AREAS. PREVENT RUN-ON AND RUN-OFF FROM DESIGNATED AREAS. CONTAINMENT DEVICES SHALL BE PROVIDED AND AREAS SHALL BE COVERED IF NECESSARY.
- DESIGNATE ON-SITE VEHICLE AND EQUIPMENT MAINTENANCE AREAS, WAY FROM STORM DRAIN INLETS AND WATERCOURSES.
- ALWAYS USE SECONDARY CONTAINMENT, SUCH AS A DRAIN PAN OR DROP CLOTH, TO CATCH SPILLS AND LEAKS WHEN REMOVING OR CHANGING FLUIDS.
- LEGALLY DISPOSE OF USED OILS, FLUIDS, AND LUBRICANTS.
- PROVIDE SPILL CONTAINMENT DIKES OR SECONDARY CONTAINMENT AROUND STORED OIL, FUEL, AND CHEMICAL DRUMS.
- MAINTAIN AN ADEQUATE SUPPLY OF ABSORBENT SPILL CLEANUP MATERIALS IN DESIGNATED AREA.

9 EQUIPMENT REPAIR/MAINTENANCE

OWNER STATEMENT OF UNDERSTANDING:

AS THE PROJECT OWNER OR AUTHORIZED AGENT OF THE OWNER, I HAVE READ AND UNDERSTAND THE REQUIREMENTS TO CONTROL STORM WATER POLLUTION FROM SEDIMENTS, EROSION, AND CONSTRUCTION MATERIALS, AND I CERTIFY THAT I WILL COMPLY WITH THESE REQUIREMENTS. I, OR MY REPRESENTATIVE, CONTRACTOR, DEVELOPER, OR ENGINEER, WILL MAKE CERTAIN THAT ALL BMP SHOWN ON THIS PLAN WILL BE FULLY IMPLEMENTED, AND ALL EROSION CONTROL DEVICES WILL BE KEPT CLEAN AND FUNCTIONING. PERIODIC INSPECTIONS OF THE BMP'S WILL BE CONDUCTED AND A CURRENT LOG, SPECIFYING THE EXACT NATURE OF THE INSPECTION AND ANY REMEDIAL MEASURES, WILL BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES AND WILL BE AVAILABLE FOR THE REVIEW BY THE BUILDING OFFICIAL.

AS THE PROJECT OWNER OR AUTHORIZED AGENT OF THE OWNER, I CERTIFY THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE INFORMATION SUBMITTED IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT SUBMITTING FALSE AND/OR INACCURATE INFORMATION, FAILING TO UPDATE THE LOCAL SWPPP TO REFLECT CURRENT CONDITIONS, OR FAILING TO PROPERLY AND/OR ADEQUATELY IMPLEMENT THE LOCAL SWPPP MAY RESULT IN REVOCATION OF GRADING AND/OR OTHER PERMITS OR OTHER SANCTIONS PROVIDED BY THE LAW."

OWNER OR AUTHORIZED REPRESENTATIVE (PERMITEE) _____ DATE _____



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BUILDING PERMIT SUBMITTAL

CONSULTANTS LOGO



STAMP



NO.	DATE	REVISIONS
1	06/24/2024	BUILDING PERMIT SUBMITTAL
2	08/01/2025	GRADING PERMIT SUBMITTAL #2
	10/28/2025	ADDENDUM 06

PROJECT TITLE:

ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010

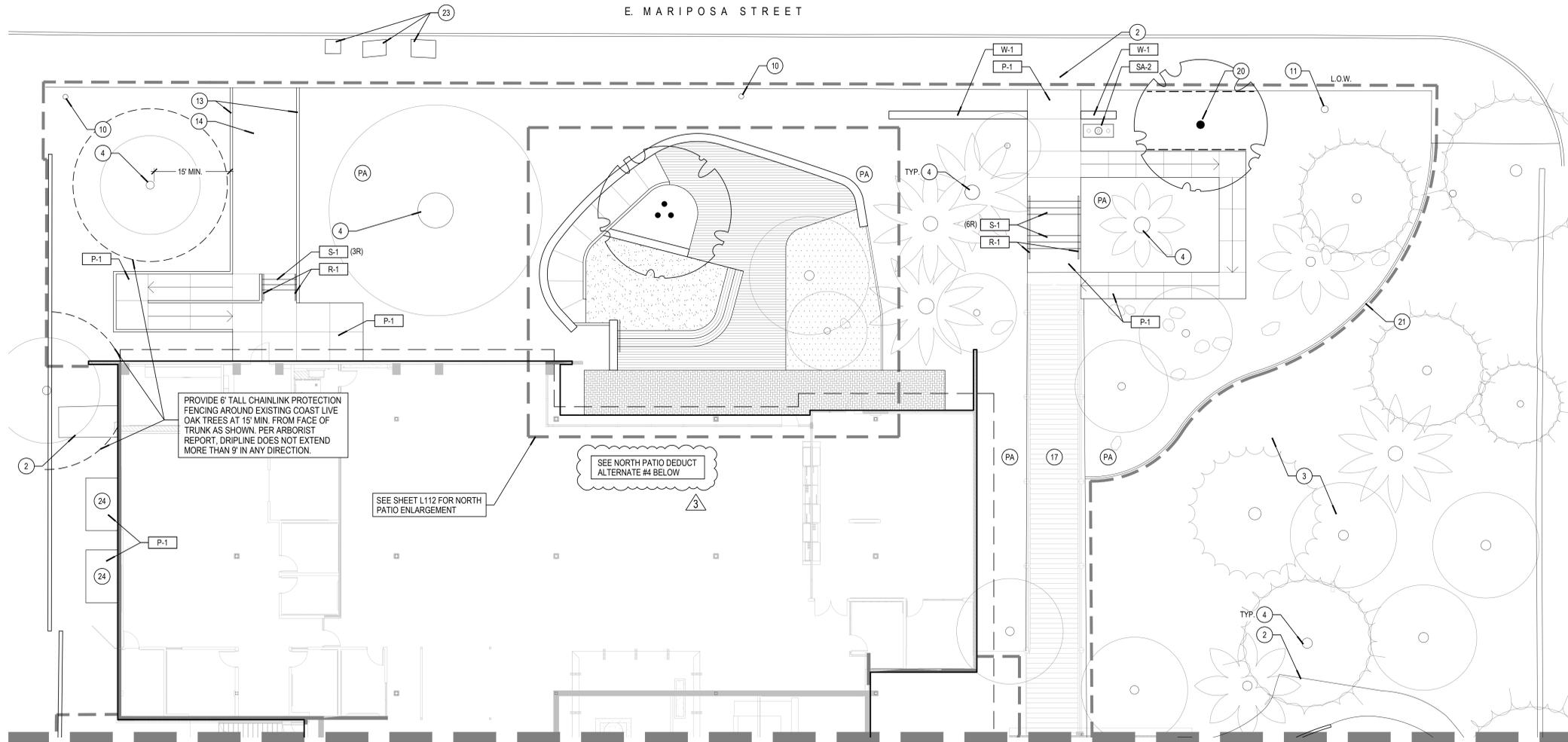
DATE: 06-24-2024

SHEET TITLE:

EROSION CONTROL DETAILS

SCALE: As Indicated

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MATCHLINE SEE SHEET L102

CONSTRUCTION LEGEND		
ITEM	DESCRIPTION	DETAIL
P-1	PEDESTRIAN CONCRETE PAVING- INTEGRAL COLOR, DAVIS PEBBLE, LIGHT SAND FINISH, WITH SINAK HLQ-125 SEALANT	PER CIVIL
P-2	PERMEABLE PRECAST CONCRETE PAVERS BASE BID: CASCADA 5X10 RB BY ORCO, COLOR: MANOR BLEND ALT BID: UFTOWN 6X12 RB BY ORCO, COLOR: MANOR BLEND	06 / L111
P-3	TRUNCATED DOME PAVERS	08 / L111
S-1	CONCRETE STEPS	08 / L110
R-1	STEEL HANDRAIL AT STEPS	08 / L110
W-1	ENTRY SIGN WALL	02 / 09 L110
W-2	STONE VENEER SEAT WALL	10 / L110
W-3	CONCRETE BLOCK PLANTER WALL	06 / L110
SA-1	BIKE RACKS: "CAPTOL" BY FORMS + SURFACES 800-451-0410, 3 RACKS = 6 SHORT TERM SPACES TOTAL	11 / L111
SA-2	FLAGPOLE PAD	10 / L111
SA-3	RAIN CHAIN DRAIN	09 / L111

CONSTRUCTION REFERENCE LEGEND	
ITEM	DESCRIPTION
1	FACE OF EXISTING BUILDING
2	EXISTING PAVING AREA TO REMAIN, MEET FLUSH, PROTECT IN PLACE (TYPICAL ALL ITEMS TO REMAIN)
3	EXISTING PLANTING AREA TO REMAIN, HAND WATER OR PROVIDE TEMPORARY IRRIGATION DURING CONSTRUCTION
4	EXISTING TREE TO REMAIN, SEE SHEET L001 FOR TREE PROTECTION NOTES
5	EXISTING CMU BLOCK WALL TO REMAIN, REFER TO SITE DEMOLITION PLAN FOR CUT LOCATION WHERE APPLICABLE
6	EXISTING LOW COBBLE WALL PORTION TO REMAIN, REFER TO SITE DEMOLITION PLAN FOR CUT LOCATION
7	EXISTING CONCRETE PLANTER BOX TO REMAIN
8	EXISTING WOOD BENCHES TO REMAIN, CLEAN AND RESEAL, REMOVE AND REINSTALL IN PLACE AS NEEDED TO INSTALL NEW IRRIGATION AND TURF.
9	EXISTING LIGHT POLE TO REMAIN
10	EXISTING UTILITY POLE TO REMAIN
11	EXISTING BANNER POLE TO REMAIN
12	RAISED DECK PER ARCHITECT
13	CURB PER CIVIL, MATCH P-1 COLOR AND FINISH
14	ASPHALT PAVING (NEW OR RESURFACED) PER CIVIL
15	RECESSED WALK OFF GRILL- REFER TO ARCHITECTURAL DRAWINGS
16	ACCESSIBLE RAMP- REFER TO CIVIL DRAWINGS
17	WOOD BRIDGE PER ARCHITECT
18	STORMWATER INFILTRATION SYSTEM- REFER TO CIVIL DRAWINGS
19	ELECTRICAL VEHICLE CHARGING STATION
20	PROPOSED TREE- SEE PLANTING PLAN
21	PROPOSED LANDSCAPE EDGING- SEE PLANTING PLAN
22	NEW BOOK DROPOFF- OFCI
23	EXISTING BOOK DROP CONTAINERS (3), RELOCATED AND SURFACE MOUNTED, PATCH PAVING AS NEEDED AT ORIGINAL LOCATION
24	PAD LOCATION FOR OFCI 5' X 10' MAINTENANCE SHED
PA	PROPOSED PLANTING AREA- SEE PLANTING PLAN



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PROPERTY OWNER
ALTADENA LIBRARY DISTRICT
600 E MARIPOSA STREET
ALTADENA, CA 91001
CONTACT: NIKKI WINSLOW
PHONE: (626) 798-0833

ADDENDUM 02

CONSULTANTS LOGO

DEPARTMENT OF SPACE

SITE DESIGN STUDIO

Department of Space, Inc.
480 N Indian Hill Blvd, Suite 2B
Claremont, CA 91711
909-532-1460

STAMP

NO.	DATE	REVISIONS
2	09-22-25	ADDENDUM 02
8	10-28-25	ADDENDUM 06

PROJECT TITLE:
ALTADENA MAIN LIBRARY
600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010
DATE: 08-15-25

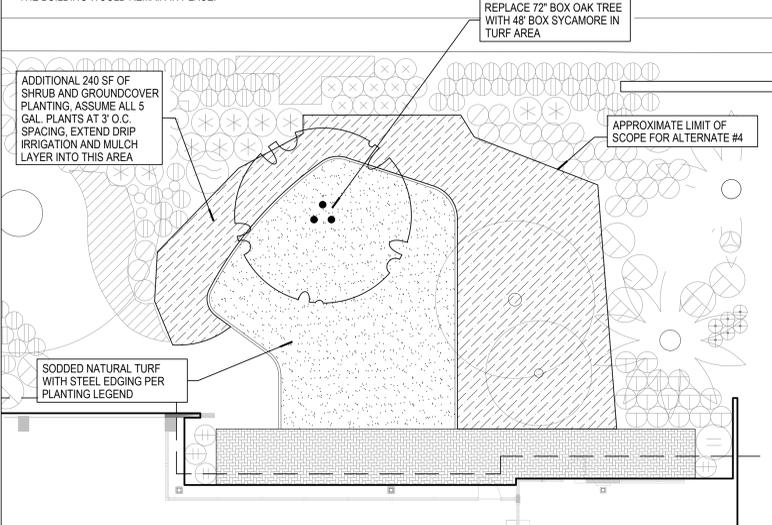
SHEET TITLE:
SITE CONSTRUCTION PLAN

SCALE: AS SHOWN

0' 5' 10' 20'
SCALE: 1" = 10'-0"

ALTERNATE #4

THE ALTERNATE DESIGN FOR NORTH AMPHITHEATER OMTS ALL DECKING, WALLS, AND PAVING, REPLACING IT WITH A GENTLY SLOPING TURF SEATING AREA CONTAINED BY A LANDSCAPE HEADER. THE TURF AREA WOULD BE IRRIGATED WITH HIGH EFFICIENCY ROTATOR NOZZLES AND SURROUNDED BY MULCH WITH ADDITIONAL NATIVE AND CLIMATE ADAPTED PLANTINGS. THIS OPTION REQUIRES ADDITIONAL GRADING DESIGN TO CREATE A USABLE SPACE. THE PATIO PORTION EXTENDING FROM THE FRONT OF THE BUILDING WOULD REMAIN IN PLACE.



CONSTRUCTION NOTES

- VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES PRIOR TO START OF WORK. CALL DIGALERT 811. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, GRADES, EXISTING STRUCTURES, AND FIELD CONDITIONS AT THE SITE BEFORE COMMENCING WORK. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.
- TYPICAL DETAILS SHALL APPLY IN GENERAL CONSTRUCTION WHERE NO DETAILS ARE GIVEN. OMISSIONS, AND/OR FIELD CONDITIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT BEFORE PROCEEDING WITH WORK.
- ENSURE THAT IRRIGATION SLEEVING, DRAINLINES, ELECTRICAL CONDUITS, SLEEVES, ETC. ARE IN PLACE PRIOR TO INSTALLATION OF PAVING AND WALLS. CONTRACTOR SHALL MAKE NO MATERIAL SUBSTITUTIONS UNLESS APPROVED BY LANDSCAPE ARCHITECT.

MOCKUPS AND SUBMITTALS

- ALL SAMPLES AND MOCKUPS TO BE REVIEWED AND APPROVED BY LANDSCAPE ARCHITECT AND/OR OWNER'S REPRESENTATIVE PRIOR TO COMPLETING CONSTRUCTION. PREPARE PRELIMINARY MOCKUPS ON SITE TO REVIEW DURING 4 SITE VISITS MAXIMUM. ALLOW FOR CHANGES IN COLOR/FINISH SPECIFICATION FOR MATERIALS OF EQUAL COST PRIOR TO MOCKUP APPROVAL.
- CONCRETE PAVING P-1: PROVIDE UP TO THREE 4'X4' MOCKUPS WITH JOINTS SHOWN.
 - PRECAST CONCRETE PAVERS: PROVIDE 4 FULL SIZE PAVERS OF EACH OPTION FOR REVIEW ADJACENT TO CONCRETE PAVING MOCKUP
 - WOOD DECKING: SUBMIT CUT SHEETS FOR ALL MATERIALS INCLUDING COLOR AND FINISHES. REVIEW 4'X4' MINIMUM MOCKUP IN PLACE
 - CONCRETE BLOCK PLANTER WALL: REVIEW MOCKUP IN PLACE, 4' LONG MINIMUM
 - STONE SEATWALL: REVIEW MOCKUP IN PLACE, 4' LONG MINIMUM



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ADDENDUM 06

CONSULTANTS LOGO

STAMP



NO. DATE REVISIONS

NO.	DATE	REVISIONS
1	06/24/2024	BUILDING PERMIT SUBMITTAL
1	11/06/2024	BACKCHECK #1 BLDG PERMIT SUBMITTAL
7	10/10/2025	ADDENDUM 05
8	10/28/2025	ADDENDUM 06

PROJECT TITLE:

ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010

DATE: 11-07-2024

SHEET TITLE:

FLOOR PLAN - LOWER LEVEL

SCALE: 1/8" = 1'-0"

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A200

FLOOR PLAN SHEET NOTES

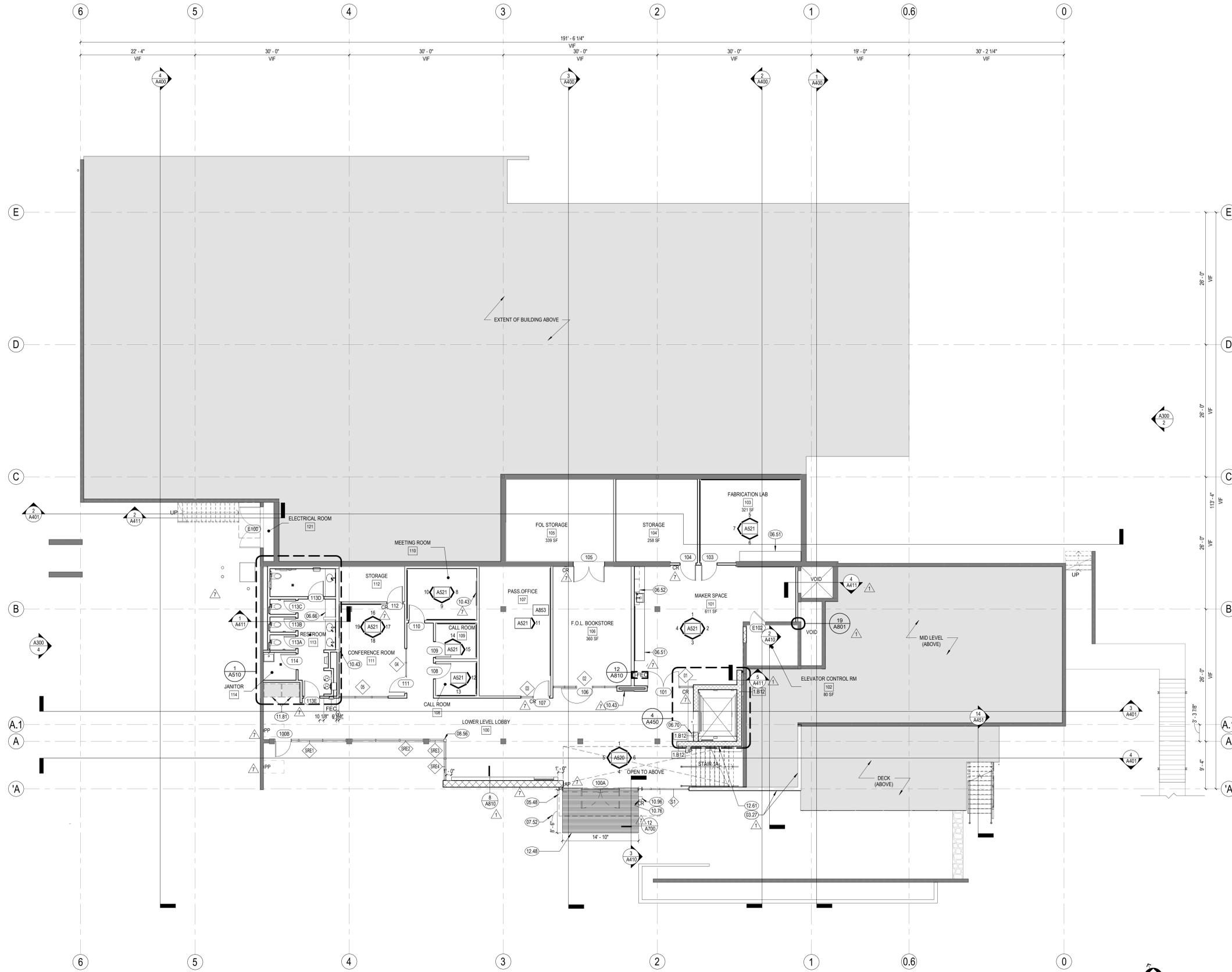
- A. CONTRACTOR TO VERIFY ALL CONDITIONS PRIOR TO WORK.
- B. PROVIDE ACCESS PANELS AS REQUIRED PER APPLICABLE CODES FOR MAINTENANCE ACCESS TO INSTALLED MEP EQUIPMENT. PROVIDE STAINLESS STEEL ACCESS PANELS AT CERAMIC TILE LOCATIONS. COORDINATE TYPES AND LOCATIONS OF WALL ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION.
- C. MATCH EXISTING STUD DIMENSION WHERE NEW PARTITION FRAMING ALIGNS WITH EXISTING PARTITION. STUD SIZE INDICATED IN WALL TYPE SHALL BE VERIFIED BY CONTRACTOR AT THESE CONDITIONS.
- D. ADJACENT IN-LINE PARTITIONS OF DIFFERENT TYPES SHALL BE CONSTRUCTED SUCH THAT EXPOSED FINISH SURFACES ARE FLUSH AND CONTINUOUS.
- E. PATCH AND REPAIR EXISTING WALLS WHERE DAMAGED DUE TO REMOVAL OF WOOD TRIM, HANDRAILS, AND OTHER ITEMS.
- F. FOR WALLS BUTTING INTO EXTERIOR WINDOWS, SEE 13/A801

KEYNOTES

- 03.27 CONCRETE STRUCTURAL WALL, SSD.
- 05.48 OUTLINE OF CANOPY (ABOVE). SEE 2/A210
- 06.51 BASE CABINETS. SEE ELEVATIONS ON A520-A526.
- 06.52 UPPER CABINETS. SEE ELEVATIONS ON A520-A526.
- 06.66 SOLID SURFACE COUNTERTOP
- 06.70 ELEVATOR CALL BOX OUT. SEE DETAIL 22/A451.
- 07.52 RAIN CHAIN
- 08.36 STOREFRONT INTERNAL CORNER MULLION
- 10.43 WALL MOUNTED TV. OFCL. SEE AV DWGS.
- 10.76 EMERGENCY KEY CABINET (RELOCATE EXISTING KNOX BOX)
- 10.96 BIBLIOTHECA SECURED ENTRANCE KEYPAD SYSTEM
- 11.81 VENDING MACHINE, OFCL.
- 12.48 ENTRANCE FLOOR GRILLE. SEE EXTERIOR DETAILS ON SHEET A700 AND SCD.
- 12.61 INSTALL SALVAGED (E) CIVIL SCULPTURE. DIMENSION IN FIELD AND SUBMIT INSTALLATION SHOP DRAWINGS. SEE A161 FOR ADDITIONAL INFORMATION.

LEGEND

- INTERIOR AND EXTERIOR SOFFITS ABOVE
- PARTITION. SEE PARTITION TYPES ON SHEET A800
- CMU WALL. SEE PARTITION TYPES ON SHEET A800
- 1-HR RATED STUD WALL. SEE PARTITION TYPES ON SHEET A800
- EXISTING (E) WALL TO REMAIN
- (F) LAH WALL TAG. SEE PARTITION TYPES ON SHEET A800
- ### DOOR TAG. SEE DOOR TYPES, FRAME TYPES, AND SCHEDULES ON SHEET A600
- (E)### EXISTING (E) DOOR TO REMAIN
- SP WINDOW TAG. SEE WINDOW TYPES ON SHEETS A610 AND A611
- SRE# STOREFRONT TO REPLACE EXISTING (E) WINDOW IN KIND, UNO. SEE WINDOW TYPES ON SHEETS A610 AND A611
- AP ALARM PANEL
- CR CARD READER
- FEC FIRE EXTINGUISHER CABINET
- PP PUSH PLATE DOOR ACTUATOR



1 FLOOR PLAN - LOWER LEVEL
1/8" = 1'-0"

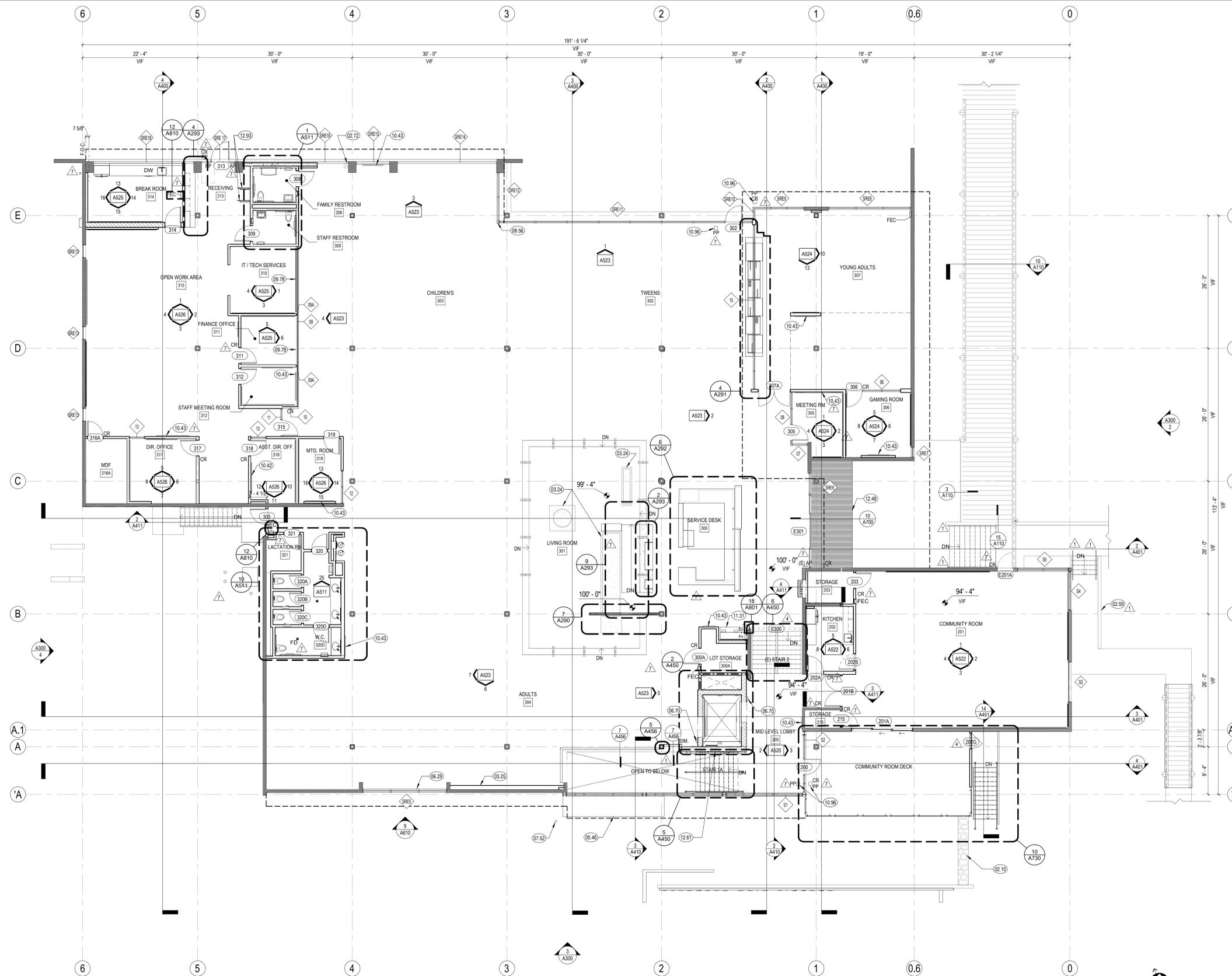
10/27/2025 4:55:00 PM

FLOOR PLAN SHEET NOTES

- A. CONTRACTOR TO VERIFY ALL CONDITIONS PRIOR TO WORK.
- B. PROVIDE ACCESS PANELS AS REQUIRED PER APPLICABLE CODES FOR MAINTENANCE ACCESS TO INSTALLED MEP EQUIPMENT. PROVIDE STAINLESS STEEL ACCESS PANELS AT CERAMIC TILE LOCATIONS. COORDINATE TYPES AND LOCATIONS OF WALL ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION.
- C. MATCH EXISTING STUD DIMENSION WHERE NEW PARTITION FRAMING ALIGNS WITH EXISTING PARTITION. STUD SIZE INDICATED IN WALL TYPE SHALL BE VERIFIED BY CONTRACTOR AT THESE CONDITIONS.
- D. ADJACENT IN-LINE PARTITIONS OF DIFFERENT TYPES SHALL BE CONSTRUCTED SUCH THAT EXPOSED FINISH SURFACES ARE FLUSH AND CONTINUOUS.
- E. PATCH AND REPAIR EXISTING WALLS WHERE DAMAGED DUE TO REMOVAL OF WOOD TRIM, HANDRAILS, AND OTHER ITEMS.
- F. FOR WALLS BUTTING INTO EXTERIOR WINDOWS. SEE 13/A801

2 ADD ALT. #2 MEETING ROOM ADDITION - FLOOR PLAN - MAIN LEVEL
1/8" = 1'-0"

3 ADD ALT. #1 NORTH PATIO + SLIDING DOORS - FLOOR PLAN - MAIN LEVEL
1/8" = 1'-0"



1 FLOOR PLAN - MAIN LEVEL
1/8" = 1'-0"

KEYNOTES

- 02.10 (E) STONE WALL
- 02.59 (E) WALL BELOW
- 02.72 (E) RAIN WATER LEADER
- 03.24 EXISTING CONCRETE PLANTERS
- 03.25 SLOPED CONCRETE WALKWAY
- 05.46 OUTLINE OF CANOPY (BELOW). SEE 2/A210
- 06.29 SALVAGED CHAIR RAIL
- 06.70 ELEVATOR CALL BOX OUT. SEE DETAIL 22/A451.
- 07.52 RAIN CHAIN
- 08.56 STOREFRONT INTERNAL CORNER MULLION
- 09.76 ACOUSTICAL WALL PANEL
- 09.78 TACKABLE ACOUSTIC PANEL. 1" THICK. NRC. 75 MIN UNO. SEE ELEVATIONS FOR EXTENT AND FINISH
- 10.42 PORCELAIN MARKERBOARD
- 10.43 WALL MOUNTED TV. OFCI. SEE AV DWGS.
- 10.96 BIBLIOTHECA SECURED ENTRANCE KEYPAD SYSTEM
- 11.31 LAPTOP KIOSK, OFCI
- 12.48 ENTRANCE FLOOR GRILLS. SEE EXTERIOR DETAILS ON SHEET A700 AND SCD.
- 12.61 INSTALL SALVAGED (E) OWL SCULPTURE. DIMENSION IN FIELD AND SUBMIT INSTALLATION SHOP DRAWINGS. SEE A181 FOR ADDITIONAL INFORMATION.
- 12.93 SURFACE MOUNTED BICYCLE RACK.

LEGEND

- INTERIOR AND EXTERIOR SOFFITS ABOVE
- PARTITION. SEE PARTITION TYPES ON SHEET A800
- CMU WALL. SEE PARTITION TYPES ON SHEET A800
- 1-HR RATED STUD WALL. SEE PARTITION TYPES ON SHEET A800
- EXISTING (E) WALL TO REMAIN
- EXISTING (E) DOOR TO REMAIN
- WALL TAG. SEE PARTITION TYPES ON SHEET A800
- DOOR TAG. SEE DOOR TYPES, FRAME TYPES, AND SCHEDULES ON SHEET A600
- EXISTING (E) DOOR TO REMAIN
- WINDOW TAG. SEE WINDOW TYPES ON SHEETS A610 AND A611
- STOREFRONT TO REPLACE EXISTING (E) WINDOW IN KIND, UNO. SEE WINDOW TYPES ON SHEETS A610 AND A611
- AP ALARM PANEL
- CR CARD READER
- FEC FIRE EXTINGUISHER CABINET
- PP PUSH PLATE DOOR ACTUATOR

ADDENDUM 06

CONSULTANTS LOGO

STAMP



NO. DATE REVISIONS

NO.	DATE	REVISIONS
1	06/24/2024	BUILDING PERMIT SUBMITTAL
2	11/06/2024	BACKCHECK #1 BLDG PERMIT SUBMITTAL
4	06/13/2025	FIRE PLAN BACKCHECK
7	10/10/2025	ADDENDUM 05
8	10/28/2025	ADDENDUM 06

PROJECT TITLE:

ALTADENA MAIN LIBRARY
600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010

DATE: 11-07-2024

SHEET TITLE:

FLOOR PLAN - MAIN LEVEL

SCALE: 1/8" = 1'-0"

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Claremont, CA 91711

SHEET NOTES

- A. SEE SHEET A240 FOR FINISH LEGEND
B. THE GENERAL CONTRACTOR SHALL COORDINATE WITH ALL TRADES INVOLVED TO ENSURE CLEARANCES FOR FIXTURES, DUCTS, PIPES, ETC. NECESSARY TO MAINTAIN SPECIFIED FINISH CEILING HEIGHT. NOTIFY ARCHITECT OF ANY CONFLICTS. CEILING HEIGHTS ARE TO BE MEASURED FROM FINISH FLOOR, TYP.
C. THE CONSTRUCTION OF DETAILS DESIGNATED AS UL (UNDERWRITERS LABORATORY), GA (GYPSUM ASSOCIATION), OR CBC (CALIFORNIA BUILDING CODE) ASSEMBLIES SHALL CONFORM TO THE DESCRIPTION OF THOSE ASSEMBLIES IN THE MOST CURRENT AND/OR ADOPTED MANUAL.
D. ALL NEW CEILINGS TO CONFORM DETAILS ON SHEETS A838 THROUGH A832 FOR APPLICABLE TYPICAL SUSPENDED ACoustICAL CEILING, LIGHT FIXTURE SUPPORT AND BRACING DETAILS.
E. ALL NEW CEILING TO MATCH (E) TYPES AND FINISHES. ALL CEILING MOUNTED LIGHT FIXTURE TRIMS (LAY-IN AND AT GYPSUM BOARD CEILING), SPEAKER GRILLS, ALARM HOUSINGS, ETC. SHALL BE FINISHED TO MATCH ADJACENT CEILING FINISH, UNO.
F. REFER TO ENLARGED PLANS FOR DIMENSIONING.
1. SUSPENDED CEILINGS ARE DIMENSIONED TO CENTERLINE OF THE SUSPENSION GRID OR CENTERLINE OF THE LAY-IN PANEL.
2. WHERE THE SUSPENDED CEILING GRID PANELS ARE NOT DIMENSIONED, CENTER SUSPENSION SYSTEM GRID OR PANEL ON THE ROOM IS SHOWN.
3. CENTER DOWN-LIGHTS, EXIT SIGNS, SPRINKLER HEADS, SMOKE DETECTORS, SPEAKERS ETC IN SUSPENDED CEILING PANEL GRIDS, TYPICAL, UNLESS DIMENSIONED OTHERWISE.
G. ARCHITECTURAL REFLECTED CEILING PLANS SHALL GOVERN LOCATIONS OF ALL FIXTURES AND/OR DEVICES AS SHOWN. REFERENCE ENGINEERING AND CONSULTANT DRAWINGS/SPECIFICATIONS FOR FIXTURE TYPES, DIFFUSER SCHEDULES ETC. SOME FIXTURES AND/OR DEVICES MAY NOT BE SHOWN ON THE ARCHITECTURAL DRAWINGS. ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND OTHER DRAWINGS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR COORDINATION.
H. PROVIDE RECESSED HEADS AT ACoustICAL CEILING TILES AND EXPOSED HEADS AT GYPSUM BOARD CEILINGS, WHITE FINISH TYPICAL.
I. GENERAL CONTRACTOR IS TO PROVIDE ACCESS PANELS AS REQUIRED BY APPLICABLE CODES FOR MAINTENANCE ACCESS TO INSTALLED MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT INCLUDING FIRE/SMOKE DAMPERS, PUMPS, VALVES, ELECTRICAL DISCONNECTS, ETC. SUBMIT A LOCATION PLAN FOR ARCHITECT REVIEW AND APPROVAL. TYPE, FINISH AND LOCATIONS SHALL BE APPROVED BY ARCHITECT PRIOR TO FABRICATION AND INSTALLATION. FOR WALL RATINGS, SEE SHEET A800.
J. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED AND SHALL BE INSCRIBED WITH 6" HIGH LETTERING AND SHALL BE LOCATED SO AS TO PROVIDE DIRECTION LEADING TO EXITS AND PLACED ABOVE EXITS. EACH SIGN WILL HAVE A SEPARATE SECONDARY POWER PACK FOR EMERGENCY OPERATION. SEE ELECTRICAL DRAWINGS, REF. SHEET G100 FOR ADDITIONAL NOTES.
K. REMOVE AND PATCH FIRE PROOFING (MONOKOTE MK-6) AS REQUIRED TO INSTALL ITEMS ATTACHED TO DECK AND BEAMS.
A. ALL DIMENSIONS ARE TO FACE OF STUD U.N.O.
B. DIMENSIONS NOTED "CLEAR" ARE TO FACE OF FINISH.
C. SEE SHEET A800 FOR PARTITION TYPES.
D. SEE SHEET A800 FOR DOOR SCHEDULE.
E. SEE SHEET A610-A612 FOR WINDOW TYPES.
F. LAYOUT OF ALL FURNITURE FIXTURES AND EQUIPMENT, INCLUDING LIBRARY SHELVING SHALL COMPLY WITH CBC CHAPTER 11B FOR ALL CLEARANCE AND ACCESS REQUIREMENTS.

KEYNOTES

- 05.47 OUTLINE OF CANOPY
06.27 CONCRETE SLAB INFILL, SSD.
10.91 UNDERSIDE OF EXTERIOR STAIR LANDING
26.46 LINEAR UP LIGHT ON GYPSUM BOARD SHELF

LEGEND

Legend table with symbols and descriptions for ceiling types (ACT1, ACT2, ACT3, ACT4), gypsum board (GB1, GB2), linear metal ceiling (MC1, MC2), security camera, ceiling height, mechanical diffusers, access panels, exit signage, window tags, storefronts, lighting fixtures, etc.

ADDENDUM 06

CONSULTANTS LOGO

STAMP



NO. DATE REVISIONS

Table with 3 columns: NO., DATE, REVISIONS. Contains 3 rows of revision data.

PROJECT TITLE:

ALTADENA MAIN LIBRARY
600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010

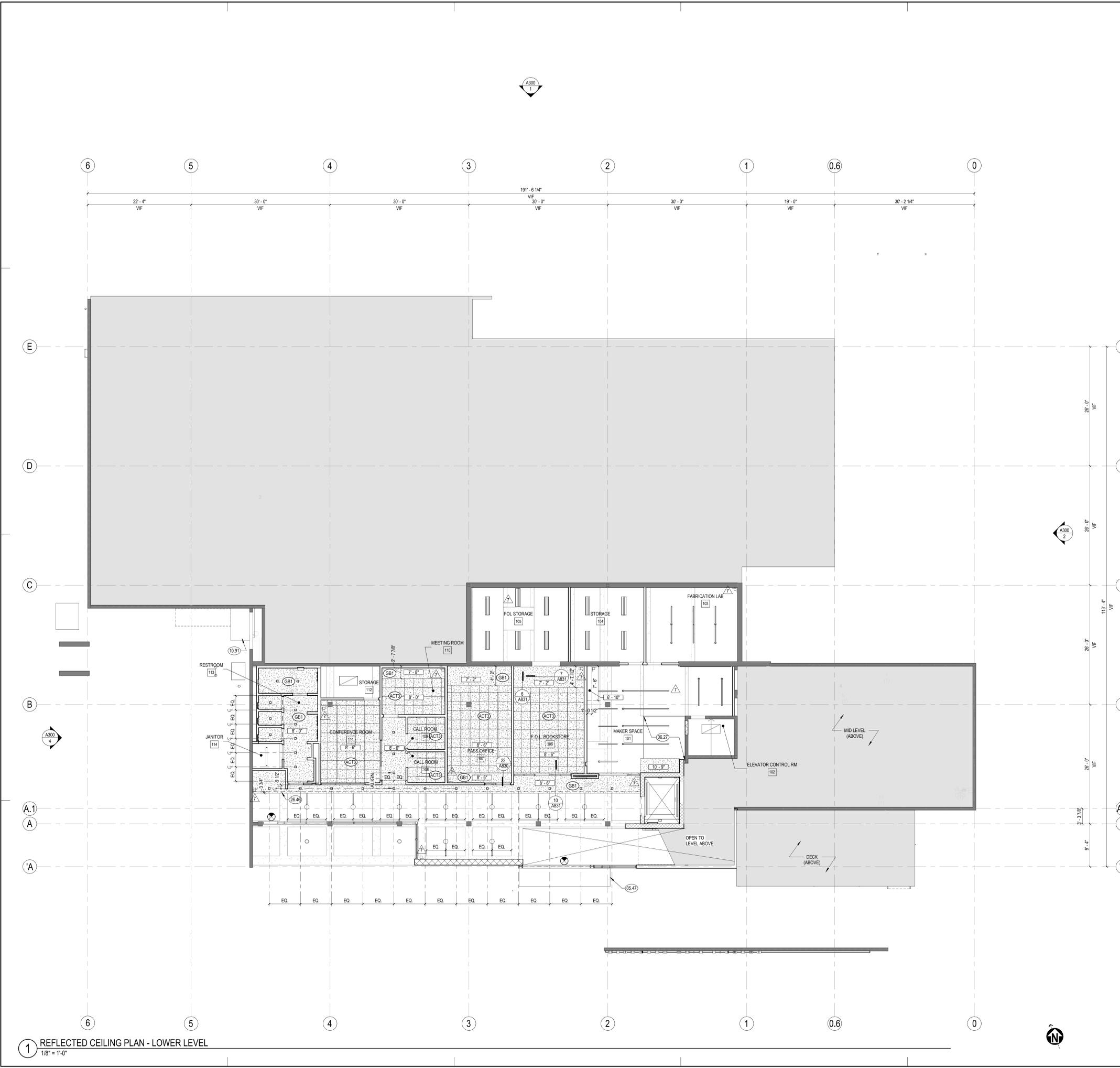
DATE: 11-07-2024

SHEET TITLE:

RCP - LOWER LEVEL

SCALE: 1/8" = 1'-0"

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1 REFLECTED CEILING PLAN - LOWER LEVEL
1/8" = 1'-0"

10/27/2024 4:55:10 PM

SHEET NOTES

- A. SEE SHEET A04 FOR FINISH LEGEND
- B. THE GENERAL CONTRACTOR SHALL COORDINATE WITH ALL TRADES INVOLVED TO ENSURE CLEARANCES FOR FIXTURES, DUCTS, PIPES, ETC. NECESSARY TO MAINTAIN ENSURED FINISH CEILING HEIGHT. NOTIFY ARCHITECT OF ANY CONFLICTS. CEILING HEIGHTS ARE TO BE MEASURED FROM FINISH FLOOR, TYP.
- C. THE CONSTRUCTION OF DETAILS DESIGNATED AS UL (UNDERWRITERS LABORATORY), GA (GYPSUM ASSOCIATION), OR CBC (CALIFORNIA BUILDING CODE) ASSEMBLIES SHALL CONFORM TO THE DESCRIPTION OF THOSE ASSEMBLIES IN THE MOST CURRENT AND/OR ADOPTED MANUAL.
- D. ALL NEW CEILINGS TO CONFORM DETAILS ON SHEETS A830 THROUGH A832 FOR APPLICABLE TYPICAL SUSPENDED ACoustICAL CEILING, LIGHT FIXTURE SUPPORT AND BRACING DETAILS.
- E. ALL NEW CEILING TO MATCH (E) TYPES AND FINISHES. ALL CEILING MOUNTED LIGHT FIXTURE TRIMS (LAY-IN AND AT GYPSUM BOARD CEILINGS), SPEAKER GRILLS, ALARM HOUSINGS, ETC. SHALL BE FINISHED TO MATCH ADJACENT CEILING FINISH, UNO.
- F. REFER TO ENLARGED PLANS FOR DIMENSIONING.
 1. SUSPENDED CEILINGS ARE DIMENSIONED TO CENTERLINE OF THE SUSPENSION GRID OR CENTERLINE OF THE LAY-IN PANEL.
 2. WHERE THE SUSPENDED CEILING GRID PANELS ARE NOT DIMENSIONED, CENTER SUSPENSION SYSTEM GRID OR PANEL ON THE ROOM AS SHOWN.
- G. CENTER DOWNLIGHTS, EXIT SIGNS, SPRINKLER HEADS, SMOKE DETECTORS, SPEAKERS ETC IN SUSPENDED CEILING PANEL GRIDS, TYPICAL UNLESS DIMENSIONED OTHERWISE.
- H. ARCHITECTURAL REFLECTED CEILING PLANS SHALL GOVERN LOCATIONS OF ALL FIXTURES AND/OR DEVICES AS SHOWN. REFERENCE ENGINEERING AND CONSULTANT DRAWINGS/SPECIFICATIONS FOR FIXTURE TYPES, DIFFUSER SCHEDULES ETC. SOME FIXTURES AND/OR DEVICES MAY NOT BE SHOWN ON THE ARCHITECTURAL DRAWINGS. ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND OTHER DRAWINGS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR COORDINATION.
- I. SEE MECHANICAL DRAWINGS/SPECIFICATIONS FOR GRILLES AND DIFFUSERS.
 1. SEE MECHANICAL DRAWINGS/SPECIFICATIONS FOR GRILLES AND DIFFUSERS.
 2. SEE ELECTRICAL DRAWINGS/SPECIFICATIONS FOR LIGHT FIXTURES, AND EXIT DEVICES.
 3. SEE FIRE PROTECTION DRAWINGS/SPECIFICATIONS FOR TYPES AND QUANTITIES OF SPRINKLER HEADS, PIPING AND RELATED DEVICES. COORDINATE LAYOUT OF SPRINKLER HEADS WITH CEILING GRID AND OTHER FIXTURES PRIOR TO INSTALLATION. COORDINATE WITH ARCHITECT.
- J. PROVIDE RECESSED HEADS AT ACoustICAL CEILING TILES AND EXPOSED HEADS AT GYPSUM BOARD CEILINGS, WHITE FINISH TYPICAL.
- K. GENERAL CONTRACTOR IS TO PROVIDE ACCESS PANELS AS REQUIRED BY APPLICABLE CODES FOR MAINTENANCE ACCESS TO INSTALLED MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT INCLUDING FIRE-SMOKING DAMPERS, PUMPS, VALVES, ELECTRICAL DISCONNECTS, ETC. SUBMIT A LOCATION PLAN FOR ARCHITECT REVIEW AND APPROVAL. TYPE, FINISH AND LOCATIONS SHALL BE APPROVED BY ARCHITECT PRIOR TO FABRICATION AND INSTALLATION. FOR WALL RATINGS, SEE SHEET A800.
- L. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED AND SHALL BE INSCRIBED WITH 6" HIGH LETTERING AND SHALL BE LOCATED SO AS TO PROVIDE DIRECTION LEADING TO EXITS AND PLACED ABOVE EXITS. EACH SIGN WILL HAVE A SEPARATE SECONDARY POWER PICK FOR EMERGENCY OPERATION. SEE ELECTRICAL DRAWINGS. REF. SHEET G100 FOR ADDITIONAL NOTES.
- M. REMOVE AND PATCH FIRE PROOFING (MONOKOTE MK-6) AS REQUIRED TO INSTALL ITEMS ATTACHED TO DECK AND BEAMS.
 - A. ALL DIMENSIONS ARE TO FACE OF STUD U.N.O.
 - B. DIMENSIONS NOTED "CLEAR" ARE TO FACE OF FINISH.
 - C. SEE SHEET A800 FOR PARTITION TYPES.
 - D. SEE SHEET A600 FOR DOOR SCHEDULE.
 - E. SEE SHEET A610-A612 FOR WINDOW TYPES.
 - F. LAYOUT OF ALL FURNITURE FIXTURES AND EQUIPMENT, INCLUDING LIBRARY SHELVING SHALL COMPLY WITH CBC CHAPTER 11B FOR ALL CLEARANCE AND ACCESS REQUIREMENTS.

KEYNOTES

- | | |
|-------|--|
| 02.54 | (E) 2' SOFFIT VENT |
| 09.36 | FACE OF SOFFIT TO BE PT1 |
| 09.65 | FACE OF SOFFIT TO BE PT3 |
| 10.65 | CEILING MOUNTED RETRACTABLE SCREEN, SEE AV DRAWINGS |
| 10.71 | REPLACE (E) LIGHTING AND LENS WITH LED LIGHTING AND LENS. |
| 11.71 | PROJECTOR, OFCL. SEE AV DWGS |
| 11.72 | RECESSED CEILING SPEAKER, TYP. SEE AV DWGS |
| 12.01 | MANUAL WINDOW SHADE. SEE FINISH LEGEND FOR MATERIAL |
| 26.47 | (E) LIGHT FIXTURES TO REMAIN, PROTECT IN PLACE OR REMOVE AND REINSTALL |

LEGEND

- 24"x24" REGULAR ACT CEILING WITH ARMSTRONG SILHOUETTE 1/4" REVEAL GRID, REFER TO SPECS FOR ADDITIONAL INFORMATION
- 24"x24" TEGULAR ACT CEILING WITH ARMSTRONG SILHOUETTE 1/4" REVEAL GRID, REFER TO SPECS FOR ADDITIONAL INFORMATION
- 24"x24" TEGULAR CEILING WITH 15/16" NARROW GRID, REFER TO SPECS FOR ADDITIONAL INFORMATION
- 24"x24" LAY-IN ACT CEILING WITH 15/16" NARROW GRID, REFER TO SPECS FOR ADDITIONAL INFORMATION
- GYPSUM BOARD CLG. FRAMED SYSTEM, PAINTED
- ARMSTRONG ACoustIC BUILT GYPSUM BOARD CLG
- EXISTING STRUCTURE
- (E) CEMENT PLASTER
- LINEAR METAL CEILING - INTERIOR
- LINEAR METAL CEILING - EXTERIOR
- SECURITY CAMERA
- CEILING HEIGHT A.F.F.
- CEILING HEIGHT A.F.F., V.I.F. - CEILING TO ALIGN WITH (E) PLASTER SOFFITS
- MECHANICAL DIFFUSERS, SMD
- ACCESS PANEL (CONTRACTOR TO VERIFY IN FIELD, BEST LOCATION, SIZE & NEED. COORDINATE WITH OTHER DISCIPLINES WHERE ACCESS IS NEEDED.)
- EXIT SIGNAGE: SEE ELECTRICAL DRAWINGS
- WINDOW TAG
- STOREFRONT TO REPLACE EXISTING (E) WINDOW IN KIND
- LIGHTING FIXTURES, SED.
- (E) LIGHTING FIXTURES

ADDENDUM 06

CONSULTANTS LOGO

STAMP

NO.	DATE	REVISIONS
6	06/24/2024	BUILDING PERMIT SUBMITTAL
7	10/10/2025	ADDENDUM 05
8	10/28/2025	ADDENDUM 06

PROJECT TITLE:

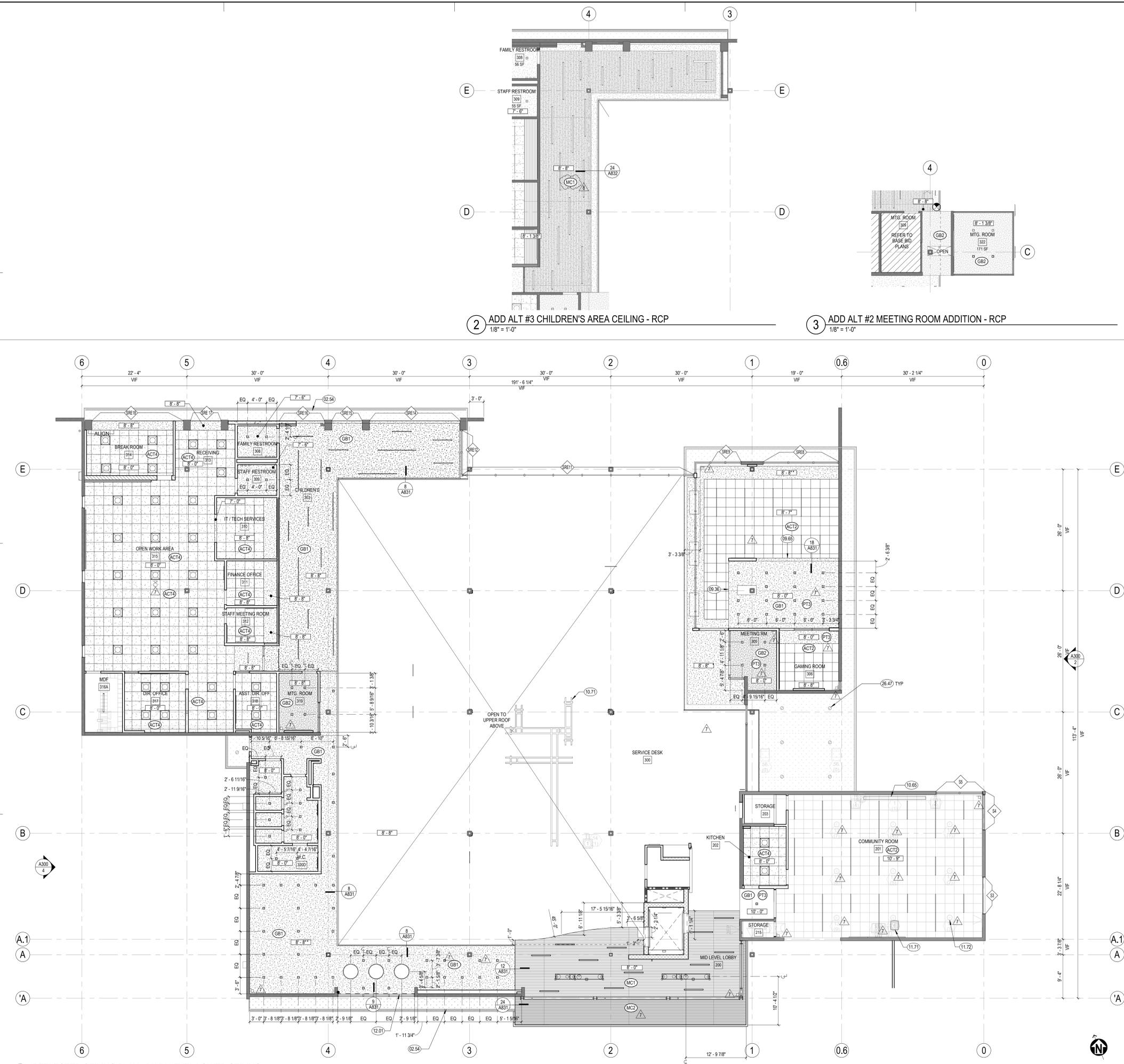
ALTADENA MAIN LIBRARY
600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010
DATE: 11-07-2024
SHEET TITLE:

RCP - MAIN LEVEL LOWER CEILING

SCALE: 1/8" = 1'-0"

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1 REFLECTED CEILING PLAN - MAIN LEVEL LOWER CEILING
1/8" = 1'-0"

2 ADD ALT #3 CHILDREN'S AREA CEILING - RCP
1/8" = 1'-0"

3 ADD ALT #2 MEETING ROOM ADDITION - RCP
1/8" = 1'-0"



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SHEET NOTES

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F. REFER TO ENLARGED PLANS FOR DIMENSIONING.
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K. REMOVE AND PATCH FIRE PROOFING (MONOKOTE MK-6) AS REQUIRED TO INSTALL ITEMS ATTACHED TO DECK AND BEAMS.
A. ALL DIMENSIONS ARE TO FACE OF STUD U.N.O.
B. DIMENSIONS NOTED 'TO EARY' ARE TO FACE OF FINISH.
C. SEE SHEET A800 FOR PARTITION TYPES.
D. SEE SHEET A800 FOR DOOR SCHEDULE.
E. SEE SHEET A810-A813 FOR WINDOW TYPES.
F. LAYOUT OF ALL FURNITURE FIXTURES AND EQUIPMENT, INCLUDING LIBRARY SHELVING SHALL COMPLY WITH CBC CHAPTER 11B FOR ALL CLEARANCE AND ACCESS REQUIREMENTS.

KEYNOTES

- 02.54 (E) 2' SOFFIT VENT
06.24 (E) NOTORIZED CEILING GRILLE TO REMAIN
26.47 (E) LIGHT FIXTURES TO REMAIN, PROTECT IN PLACE OR REMOVE AND REINSTALL
26.50 SUSPENDED LINEAR LIGHT FIXTURES TO BE CENTERED BETWEEN SHELVING UNITS, SEE 1/A253

LEGEND

- 24"x48" AND 48"x48" REGULAR ACT CEILING WITH ARMSTRONG SILHOUETTE 1/4" REVEAL GRID, REFER TO SPECS FOR ADDITIONAL INFORMATION
24"x24" REGULAR ACT CEILING WITH ARMSTRONG SILHOUETTE 1/4" REVEAL GRID, REFER TO SPECS FOR ADDITIONAL INFORMATION
24"x24" REGULAR CEILING WITH 15/16" NARROW GRID, REFER TO SPECS FOR ADDITIONAL INFORMATION
24"x24" LAY-IN ACT CEILING WITH 15/16" NARROW GRID, REFER TO SPECS FOR ADDITIONAL INFORMATION
GYPSUM BOARD CLG, FRAMED SYSTEM, PAINTED
ARMSTRONG ACOUSTIBUILT GYPSUM BOARD CLG
EXISTING STRUCTURE
(E) CEMENT PLASTER
LINEAR METAL CEILING - INTERIOR
LINEAR METAL CEILING - EXTERIOR
SECURITY CAMERA
CEILING HEIGHT A.F.F.
CEILING HEIGHT A.F.F., V.I.F. - CEILING TO ALIGN WITH (E) PLASTER SOFFITS
MECHANICAL DIFFUSERS, SMD
ACCESS PANEL (CONTRACTOR TO VERIFY IN FIELD, BEST LOCATION, SIZE & NEED. COORDINATE W OTHER DISCIPLINES WHERE ACCESS IS NEEDED)
EXIT SIGNAGE; SEE ELECTRICAL DRAWINGS
WINDOW TAG
STOREFRONT TO REPLACE EXISTING (E) WINDOW IN KIND
LIGHTING FIXTURES, SED.
(E) LIGHTING FIXTURES

ADDENDUM 06

CONSULTANTS LOGO

STAMP



NO. DATE REVISIONS

Table with 3 columns: NO., DATE, REVISIONS. Row 1: 06/24/2024 BUILDING PERMIT SUBMITTAL. Row 2: 7 10/10/2025 ADDENDUM 05. Row 3: 8 10/28/2025 ADDENDUM 06.

PROJECT TITLE:

ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010

DATE: 11-07-2024

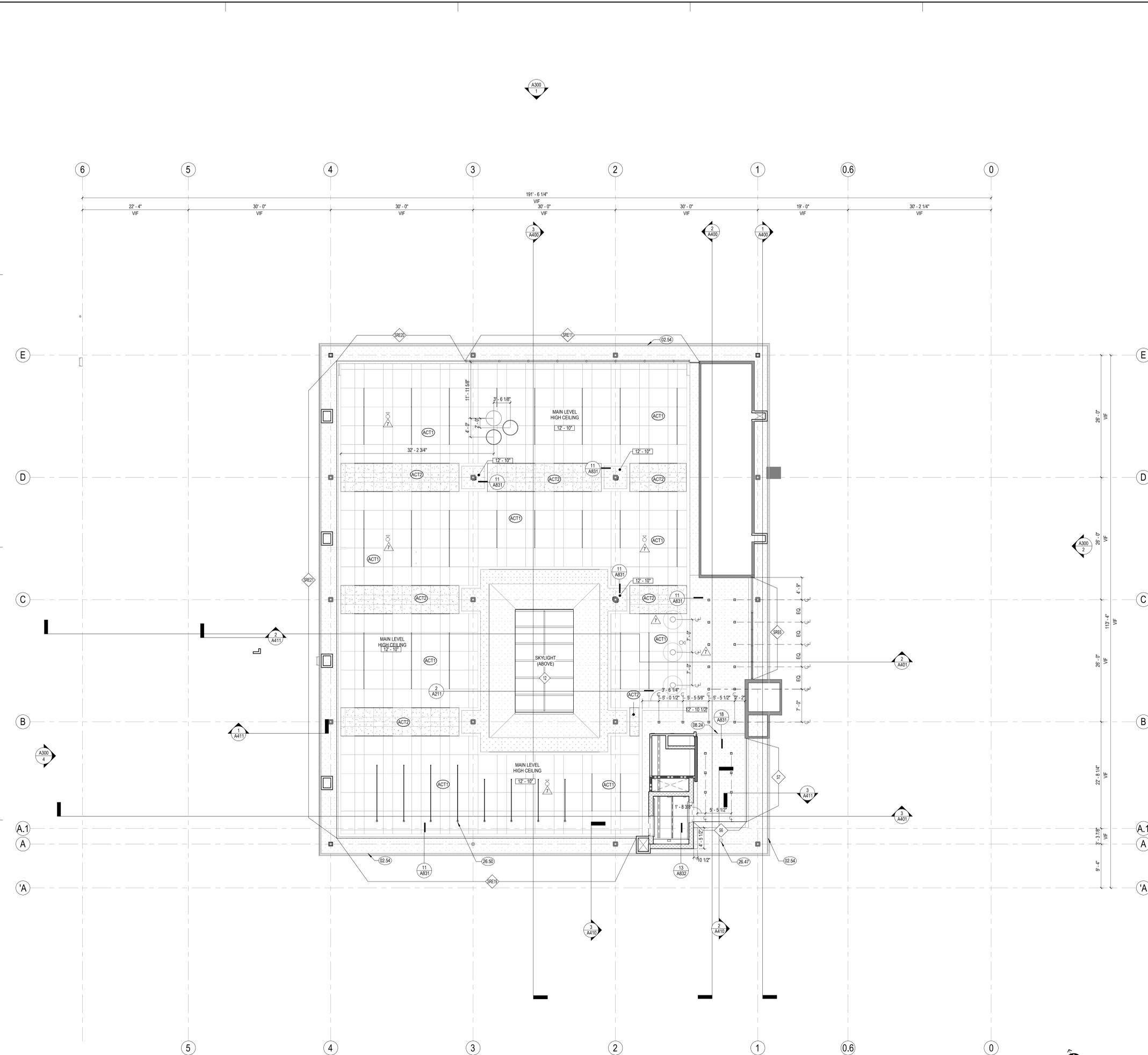
SHEET TITLE:

RCP - MAIN LEVEL UPPER CEILING

SCALE: 1/8" = 1'-0"

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A222



1 REFLECTED CEILING PLAN - MAIN LEVEL UPPER CEILING
1/8" = 1'-0"

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FINISH PLAN SHEET NOTES

- A. SEE SHEET A240 FOR FINISH LEGEND
- B. FOR VERTICAL FINISHES SEE ELEVATIONS
- C. FOR INTERIOR DOOR FRONT TYPE SEE A600
- D. FURNITURE SHOWN FOR REFERENCE ONLY
- E. ALL WALL BASE TO BE RUBBER BASE, WB, AS NOTES IN FINISH LEGEND, U.N.O.
- F. ALL GYPSUM BOARD WALLS TO BE PAINTED P1 U.N.O.
- G. ALL INTERIOR DOOR AND WINDOW TRIM TO BE PAINTED U.N.O.
- H. FOR AV EQUIPMENT LOCATIONS SEE RCP'S AND EQUIPMENT PLANS
- I. SEE SIGNAGE PLANS & ELEVATIONS ON SHEETS A254, A255, & A854 FOR SIGNAGE PAINT LOCATIONS AND EXTENT
- J. FLOOR FINISH TRANSITIONS BETWEEN MATERIAL TYPES OR PATTERN CHANGES ARE INDICATED WITH A LINE IN DOORWAYS, OPENING, OR OTHER LOCATIONS. PROVIDE TRANSITION STRIPS AT ALL LOCATIONS WHERE DIFFERENT MATERIALS ABUT U.N.O. SEE INTERIOR TRANSITION DETAILS ON SHEET A610
- L. FLOOR MATERIAL TO BE INSTALLED UNDER CASEWORK U.N.O.
- M. ALL CARPET TO MEET COMPLIANCE WITH CBC 604.4

FINISH PLAN KEYNOTES

- 06.71 PEGBOARD
- 09.77 FABRIC WRAPPED ACOUSTIC PANEL. SEE ELEVATIONS FOR EXTENT AND FINISH
- 09.78 TACKABLE ACOUSTIC PANEL. 1" THICK, NRC .75 MIN UNO. SEE ELEVATIONS FOR EXTENT AND FINISH
- 10.58 CORNER GUARD
- 12.48 ENTRANCE FLOOR GRILLE. SEE EXTERIOR DETAILS ON SHEET A700 AND SCD.

ADDENDUM 06

CONSULTANTS LOGO

STAMP



NO. DATE REVISIONS

NO.	DATE	REVISIONS
6	06/24/2024	BUILDING PERMIT SUBMITTAL
7	10/10/2025	ADDENDUM 05
8	10/28/2025	ADDENDUM 06

PROJECT TITLE:

ALTADENA MAIN LIBRARY
600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010

DATE: 11-07-2024

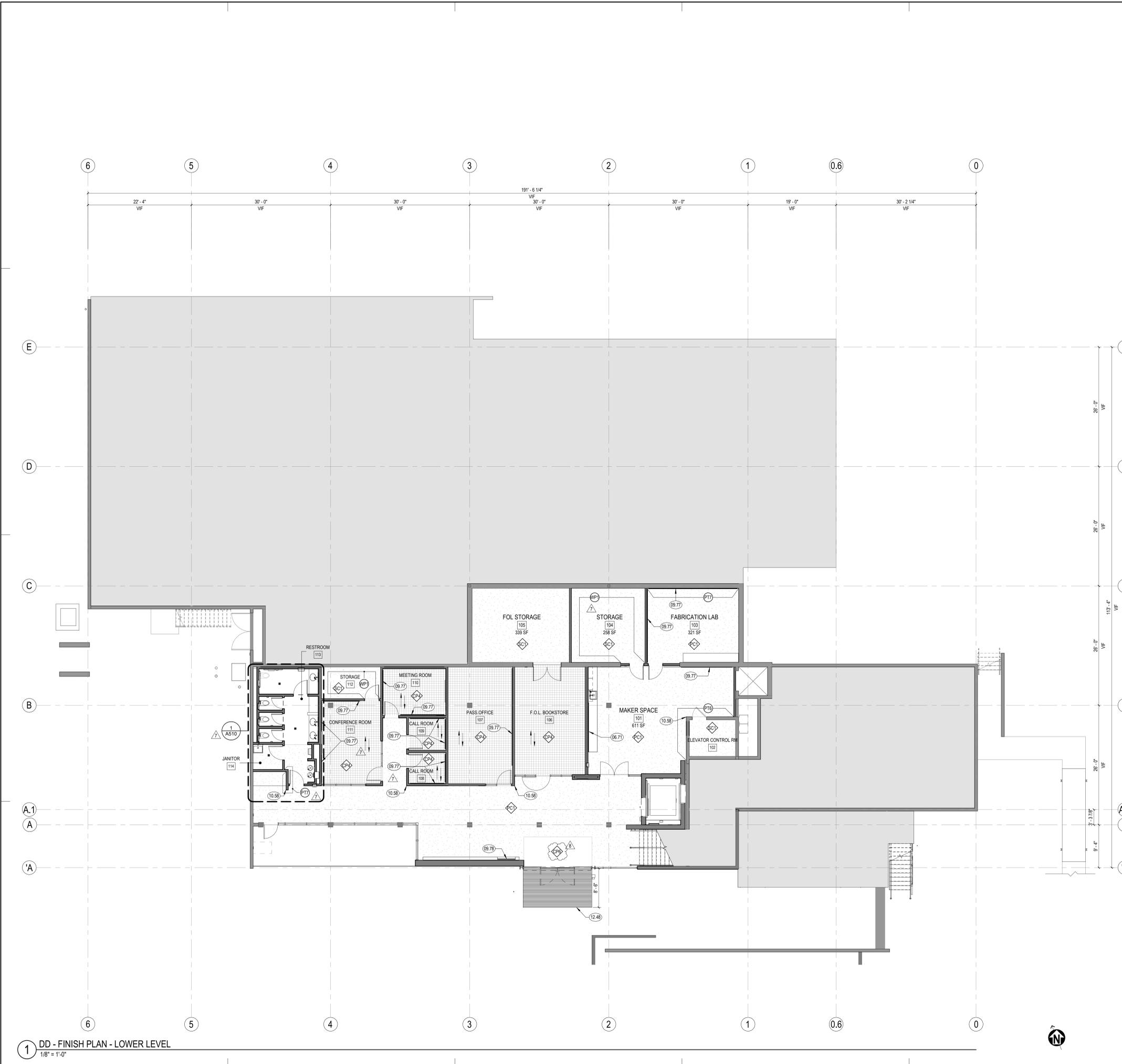
SHEET TITLE:

FINISH PLAN - LOWER LEVEL

SCALE: 1/8" = 1'-0"

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A230



FINISH PLAN LEGEND

- WTF WALL FINISH CALLOUT. SEE A240 FOR PAINT COLOR
- INDICATES START OF FLOOR PATTERN
- INDICATES TRANSITION OF MATERIAL
- FLOOR INSTALLATION DIRECTION
- PATTERN INDICATES FLOORING TYPE. SEE FINISH LEGEND ON SHEET A240

1 DD - FINISH PLAN - LOWER LEVEL
1/8" = 1'-0"

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409 Harvard Avenue, Suite 201
Claremont, CA 91711

FINISH PLAN SHEET NOTES

- A. SEE SHEET A240 FOR FINISH LEGEND
- B. FOR VERTICAL FINISHES SEE ELEVATIONS
- C. FOR INTERIOR DOOR FRONT TYPE SEE A600
- D. FURNITURE SHOWN FOR REFERENCE ONLY
- E. ALL WALL BASE TO BE RUBBER BASE, WB, AS NOTES IN FINISH LEGEND, U.N.O.
- F. ALL GYPSUM BOARD WALLS TO BE PAINTED P1 U.N.O.
- G. ALL INTERIOR DOOR AND WINDOW TRIM TO BE PAINTED U.N.O.
- H. FOR AV EQUIPMENT LOCATIONS SEE ROPS AND EQUIPMENT PLANS
- I. SEE SIGNAGE PLANS & ELEVATIONS ON SHEETS A254, A255, & A854 FOR SIGNAGE PAINT LOCATIONS AND EXTENT
- J. FLOOR FINISH TRANSITIONS BETWEEN MATERIAL TYPES OR PATTERN CHANGES ARE INDICATED WITH A LINE IN DOORWAYS, OPENING, OR OTHER LOCATIONS
- K. PROVIDE TRANSITION STRIPS AT ALL LOCATIONS WHERE DIFFERENT MATERIALS ABUT U.N.O. SEE INTERIOR TRANSITION DETAILS ON SHEET A810
- L. FLOOR MATERIAL TO BE INSTALLED UNDER CASEWORK U.N.O.
- M. ALL CARPET TO MEET COMPLIANCE WITH CBC 804.4

FINISH PLAN KEYNOTES

- 01 DIVISION 01 - DEMOLITION
- 09.52 EXISTING TILE TO REMAIN
- 09.53 CONTRAST STRIPE AT STAIRS
- 09.54 SCHLUTER VINEPRO, COLOR TBD
- 09.63 SEE A252 & A253 SIGNAGE PLANS FOR ADDITIONAL INFORMATION
- 09.77 FABRIC WRAPPED ACOUSTIC PANEL, SEE ELEVATIONS FOR EXTENT AND FINISH
- 10.58 CORNER GUARD
- 10.82 FIRE EXTINGUISHER CABINET, SURFACE MOUNTED.
- 12.21 GLASS MARKERBOARD
- 12.48 ENTRANCE FLOOR GRILLE, SEE EXTERIOR DETAILS ON SHEET A700 AND SCD.

ADDENDUM 06

CONSULTANTS LOGO

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NO.	DATE	REVISIONS
6	06/24/2024	BUILDING PERMIT SUBMITTAL
7	10/10/2023	ADDENDUM 05
8	10/26/2023	ADDENDUM 06

PROJECT TITLE:

ALTADENA MAIN LIBRARY
600 E MARIPOSA STREET
ALTADENA, CA 91001

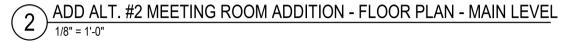
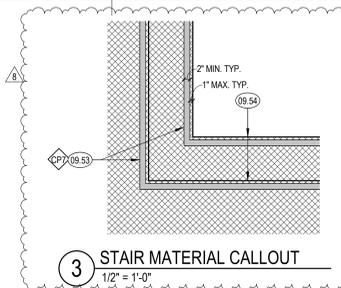
PROJECT NO. 2111010
DATE: 11-07-2024
SHEET TITLE:

FINISH PLAN - MAIN LEVEL

SCALE: As indicated

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A231



1 FINISH PLAN - MAIN LEVEL
1/8" = 1'-0"

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ADDENDUM 06

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NO.	DATE	REVISIONS
7	06/24/2024	BUILDING PERMIT SUBMITTAL
8	10/10/2025	ADDENDUM 05
	10/28/2025	ADDENDUM 06

PROJECT TITLE:
ALTADENA MAIN LIBRARY
 600 E MARIPOSA STREET
 ALTADENA, CA 91001

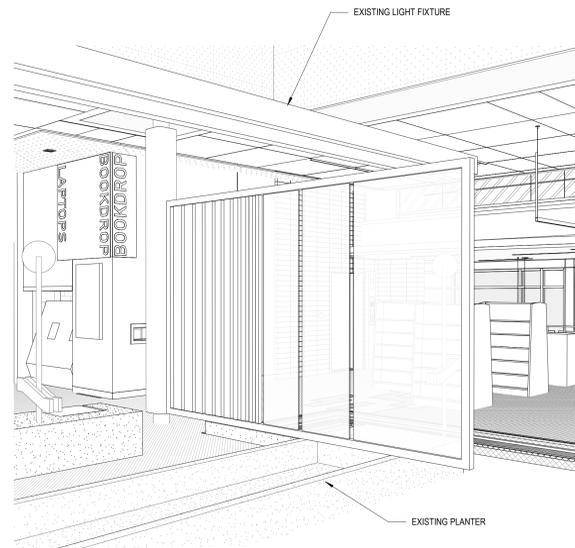
PROJECT NO. 2111010
 DATE: 11-07-2024
 SHEET TITLE:

FINISH LEGEND

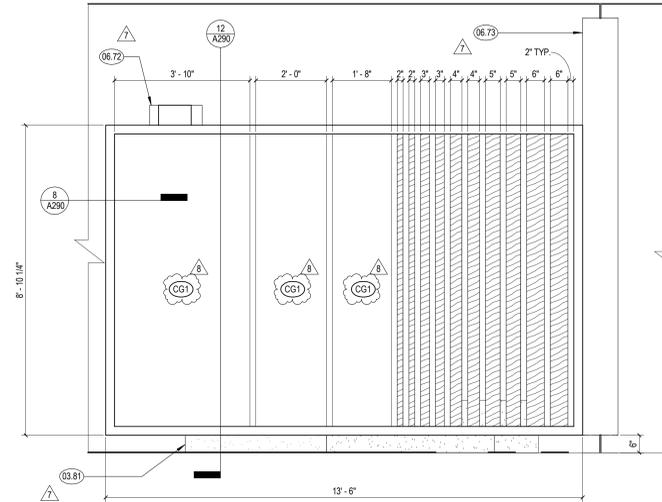
SCALE: 1/8" = 1'-0"

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<p>FLOOR FINISHES</p> <p>CARPET</p> <p>CP1 CARPET TILE MFR: MILLIKEN PATTERN: LYCEUM - PLATO COLOR: CELESTINE SIZE: 250x111 CUSTOM: DR: 01395881 BACKING: WELLBAC CUSHION</p> <p>CP2 CARPET TILE MFR: MILLIKEN PATTERN: GRAIN AND BIAS COLOR: CUSTOM SIZE: 250x111 BACKING: ROADRUNNER NOTE: FOR PRICING PURPOSES ONLY</p> <p>CP3 CARPET TILE MFR: MILLIKEN PATTERN: LYCEUM - PLATO COLOR: BRONZE SIZE: 250x111 BACKING: WELLBAC CUSHION</p> <p>CP4 CARPET TILE MFR: INTERFACE PATTERN: SOCIAL FABRIC COLOR: SUNSET SIZE: 9x9 BACKING: CQUEST GB</p> <p>CP5 CARPET TILE MFR: INTERFACE PATTERN: AQUATINT COLOR: CARBON SIZE: 9x9 BACKING: CQUEST GB</p> <p>CP6 WALK OFF CARPET TILE MFR: MILLIKEN PATTERN: FIBER COLOR: 119 DARK GREY BACKING: WELLBAC CUSHION</p> <p>CP7 CONTRAST STRIP MFR: TBD TYPE: TBD PATTERN: TBD COLOR: TBD BACKING: TBD</p> <p>TILE</p> <p>TF1 PORCELAIN FLOOR TILE MFR: DAL TILE TYPE: HALTE MONDE COLOR: GLITTERATI GRANITE GROUT: LATICRETE - 45 RAVEN SIZE: 12x24</p> <p>RESILIENT</p> <p>RF1 RESILIENT FLOOR MFR: TARKETT TYPE: LINOLEUM TRENTINO XF SIZE: 2.5MM THICK COLOR: GREY PEPPER</p> <p>RF2 RESILIENT FLOOR MFR: FORBO TYPE: MARMOLEUM REAL SIZE: ROLLED GOODS COLOR: DOVE BLUE</p> <p>CONCRETE</p> <p>PC1 POLISHED CONCRETE NOTE: SEE SPECIFICATIONS</p> <p>SC1 SEALED CONCRETE NOTE: SEE SPECIFICATIONS</p> <p>EPOXY TERRAZZO</p> <p>ET1 EPOXY TERRAZZO MFR: N/A TYPE: N/A COLOR: TBD NOTE: CONFIRM COLOR WITH ARCHITECT BEFORE INSTALLING</p>	<p>WALL FINISHES</p> <p>PAINT</p> <p>FT1 GENERAL WALL PAINT MFR: DUNN EDWARDS PAINT TYPE: SEE SPECIFICATIONS COLOR: WHITE FEVER FINISH: SEE SPECS</p> <p>FT2 ACCENT PAINT MFR: DUNN EDWARDS COLOR: DET47 - HARRISON RUST FINISH: SEE SPECIFICATIONS</p> <p>FT3 ACCENT PAINT MFR: DUNN EDWARDS COLOR: DET59 - YANKEE DOODLE FINISH: SEE SPECIFICATIONS</p> <p>FT4 ACCENT PAINT MFR: DUNN EDWARDS COLOR: DE385 - BLACK BEAN FINISH: SEE SPECIFICATIONS</p> <p>FT5 ACCENT PAINT MFR: DUNN EDWARDS COLOR: DE559 - ORGANIC MATTER FINISH: SEE SPECIFICATIONS</p> <p>FT6 ACCENT PAINT MFR: DUNN EDWARDS COLOR: DE933 - WINTER DUSK FINISH: SEE SPECIFICATIONS</p> <p>FT7 ACCENT PAINT MFR: DUNN EDWARDS COLOR: DET466 - WILDFLOWER HONEY FINISH: SEE SPECIFICATIONS NOTE: AT SIGNAGE LOCATIONS ONLY</p> <p>TILE</p> <p>TW1 WALL TILE MFR: FIRECLAY TYPE: CERAMIC COLOR: BONE BLACK (MATT) (V2) FINISH: (MATT) SIZE: 2x8 GROUT: 22 MINGHIT BLACK INCLUDE TRIM PIECES</p> <p>TW2 WALL TILE MFR: FIRECLAY TYPE: BRICK COLOR: COLUMBIA PLATEAU FINISH: GLOSS SIZE: 2x8 GROUT: CUSTOM BUILDING PRODUCTS - BROWN VELVET INCLUDE TRIM PIECES W/ FINISHED EDGES</p> <p>TW3 WALL TILE MFR: DAL TILE TYPE: COLOR WHEEL LINEAR COLOR: BISCUIT FINISH: GLOSS SIZE: 2x8 GROUT: LATICRETE - STERLING SILVER INCLUDE TRIM PIECES</p> <p>TW4 WALL TILE MFR: DAL TILE TYPE: COLOR WHEEL LINEAR COLOR: BISCUIT FINISH: MATTE SIZE: 2x8 GROUT: LATICRETE - STERLING SILVER</p> <p>TW5 WALL TILE COVE BASE MFR: DAL TILE COLOR: HALT MONDE SIZE: 6x12 GROUT: LATICRETE - RAVEN</p> <p>TW6 WALL TILE COVE BASE MFR: DAL TILE TYPE: FLAT TOP COVE BASE COLOR: BISCUIT FINISH: GLOSS SIZE: 4x12 GROUT: LATICRETE - STERLING SILVER</p> <p>TW7 WALL TILE COVE BASE MFR: DAL TILE TYPE: BULLNOSED COVE BASE COLOR: BISCUIT FINISH: GLOSS SIZE: 4x12 GROUT: LATICRETE - STERLING SILVER</p> <p>TW8 WALL TILE TRIM MFR: DAL TILE TYPE: JOLLY TRIM COLOR: BISCUIT FINISH: MATTE SIZE: 1/2 X 12 GROUT: LATICRETE - STERLING SILVER</p> <p>WALL BASE</p> <p>WB1 RUBBER WALL BASE MFR: BURKE MANNINGTON TYPE: RUBBER BASE WITH FOOT SIZE: 4" COLOR: BLACK BROWN</p> <p>WALL PROTECTION</p> <p>WP1 ACROVYN PANEL MFR: ACROVYN TYPE: 4600 HEIGHT: 5'-6" A.F.F. COLOR: PEARL</p>	<p>CASEWORK FINISHES</p> <p>PLASTIC LAMINATE</p> <p>PL1 PLASTIC LAMINATE MFR: NEVAMAR COLOR: MIESIAN FINISH: WOOD ESSENCE NOTE: AT SERVICE DESK ONLY</p> <p>PL2 PLASTIC LAMINATE MFR: NEVAMAR COLOR: MIESIAN FINISH: TEXTURED SUEDE</p> <p>PL3 PLASTIC LAMINATE MFR: WILSONART COLOR: MORELIA MANGO FINISH: TIMBERGRAIN NOTE: AT SERVICE DESK ONLY</p> <p>PL4 PLASTIC LAMINATE MFR: NEVAMAR COLOR: AQUA MINI RAFFIA FINISH: TEXTURED SUEDE</p> <p>PL5 PLASTIC LAMINATE MFR: LAMINART COLOR: CLASSIC BRUSHED CHAMPAGNE FINISH: BRUSHED</p> <p>PL6 PLASTIC LAMINATE MFR: NEVAMAR COLOR: GUNMETAL FINISH: TEXTURED SUEDE</p> <p>SOLID SURFACE</p> <p>SS1 QUARTZ SOLID SURFACE MFR: WILSONART COLOR: GRAPHITE NOTE: SEE DETAILS FOR THICKNESS</p> <p>SS2 SOLID POLYMER SOLID SURFACE MFR: CORIAN COLOR: BONE NOTE: SEE DETAILS FOR THICKNESS</p> <p>SS3 TRESPA MFR: TRESPA TYPE: TOPLAB COLOR: SLATE GREY</p> <p>SS4 QUARTZ SOLID SURFACE MFR: WILSONART COLOR: BODIESA NOTE: SEE DETAILS FOR THICKNESS</p> <p>WOOD FINISHES</p> <p>WD1 WOOD VENEER MFR: VENEER-ART COLOR: 974WB BROWN ANNIGRE FINISH: WEATHERED-GRAIN NOTE: QUARTER CUT/SPLIT MATCHED</p>	<p>SPECIALTY FINISHES</p> <p>FABRIC</p> <p>FA1 MFR: DESIGNTEX NAME: GAMUT STONE</p> <p>FA2 MFR: DESIGNTEX NAME: GAMUT OLIVE</p> <p>FA3 MFR: DESIGNTEX NAME: GAMUT NUTMEG</p> <p>FA4 MFR: DESIGNTEX NAME: GAMUT CADET</p> <p>FA5 MFR: DESIGNTEX NAME: GAMUT PUMICE</p> <p>FA6 MFR: DESIGNTEX NAME: GAMUT COBBLESTONE</p> <p>FA7 MFR: DESIGNTEX NAME: GAMUT BUTTERSOTCH</p> <p>FA8 MFR: DESIGNTEX NAME: TRAVELER CHARCOAL</p> <p>CEILING</p> <p>MC1 INTERIOR METAL CEILING MFR: RULON NAME: LINEAR OPEN COLOR: ENGLISH WALNUT</p> <p>MC2 EXTERIOR METAL CEILING MFR: RULON NAME: LINEAR W/ SPACERS COLOR: ENGLISH WALNUT</p> <p>RESIN / GLASS</p> <p>RP1 ACRYLIC RESIN MFR: 3 FORM NAME: OZNER COLOR: HICKORY G24 FRONT FINISH: OZNER EMBOSSED BACK FINISH: SANDSTONE LID-1086606 NOTE:</p> <p>RP2 ACRYLIC RESIN MFR: 3 FORM NAME: VARIA COLOR: HICKORY G24 FINISH SIDE 1: SANDSTONE FINISH SIDE 2: SANDSTONE NOTE: SIGNAGE ONLY</p> <p>RP3 ACRYLIC RESIN MFR: 3 FORM NAME: VARIA COLOR: VAPOR FINISH: SANDSTONE NOTE: AT LIBRARY OF THINGS</p> <p>CG1 CUSTOM GLASS PANEL MFR: 3 FORM NAME: CUSTOM DIGITAL PRINT LID-1089447 CUSTOM #: 1/2" SIZE: 1/2" COLOR: CUSTOM NOTE: NONE ANNEALED 4MM LOW IRON LITE SO-5828252.2</p> <p>TG1 TEMPERED GLASS DOOR MFR: 14" SIZE: 14" NOTE: LOW IRON</p> <p>ACOUSTIC FELT</p> <p>AP1 RIGID ACOUSTIC FELT MFR: SIELBERG NAME: MUTO DIVIDER ACOUSTIC PANEL THICKNESS: 1/2" PATTERN: CUSTOM DESIGN COLOR: LAMBS EAR</p> <p>OTHER</p> <p>RS1 ROLLER SHADE FABRIC MFR: MECO SHADE TYPE: ECOSHEER 6750 COLOR: ADOBE NOTE: SEE PROJECT SPECS FOR ADDITIONAL INFORMATION</p>
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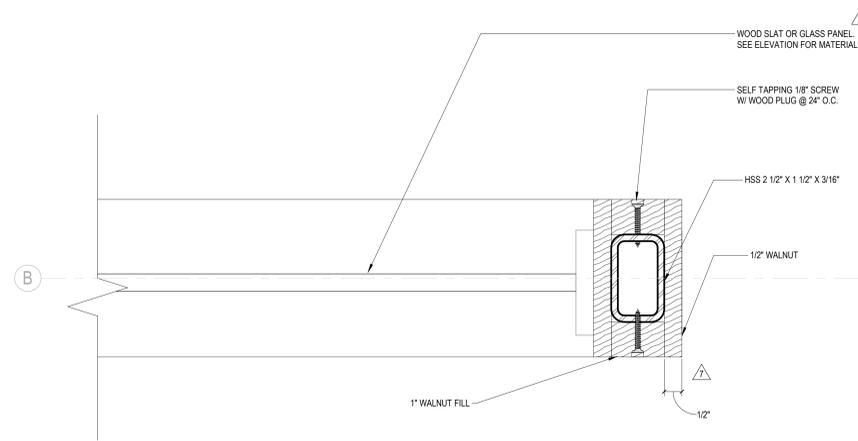
10 LIVING ROOM ELEMENT (FOR REFERENCE ONLY)



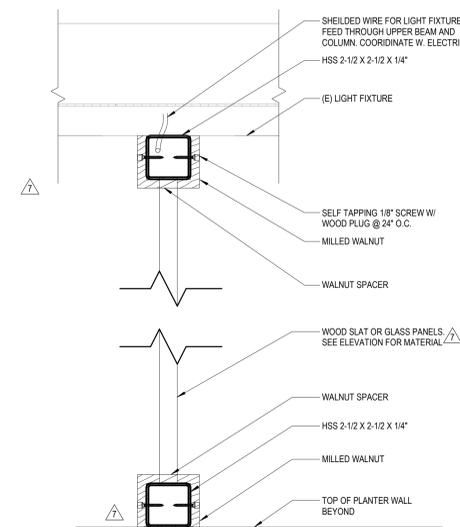
6 LIVING ROOM ELEMENT - ELEVATION - N
1/2" = 1'-0"



7 LIVING ROOM ELEMENT - ENLARGED PLAN
1" = 1'-0"



8 LIVING ROOM ELEMENT - EDGE DETAIL
6" = 1'-0"



12 LIVING ROOM ELEMENT - SECTION
3" = 1'-0"

SHEET NOTES

KEYNOTES

- 03.81 EXISTING PLANTER TO REMAIN
- 06.72 EXISTING LIGHT FIXTURE TO REMAIN
- 06.73 EXISTING COLUMN TO REMAIN



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ADDENDUM 06

CONSULTANTS LOGO

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NO.	DATE	REVISIONS
7	06/24/2024	BUILDING PERMIT SUBMITTAL
7	10/10/2025	ADDENDUM 05
8	10/28/2025	ADDENDUM 06

PROJECT TITLE:

ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010

DATE: 11-07-2024

SHEET TITLE:

ENLARGED PLANS & ELEVATIONS

SCALE: As indicated

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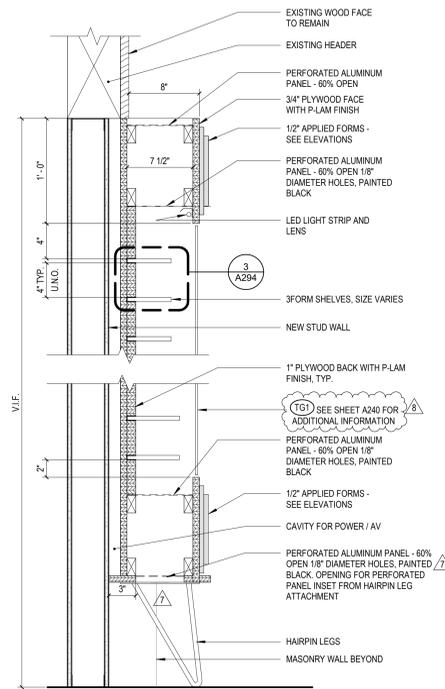
A290

SHEET NOTES

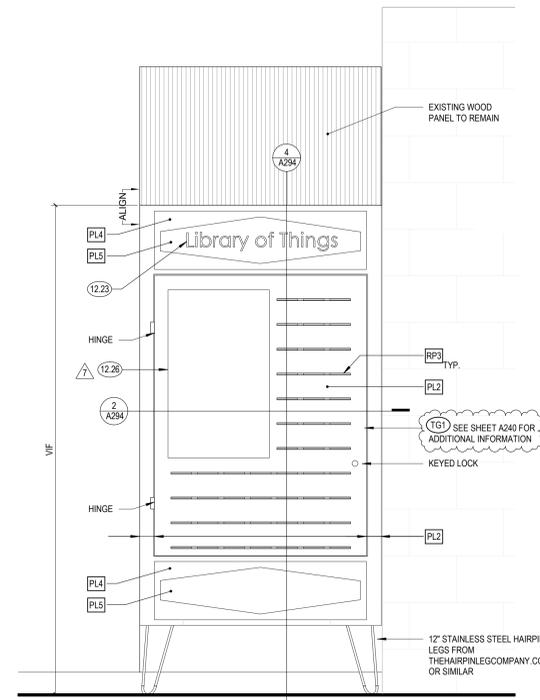
KEYNOTES

- 12.23 VINYL DECAL. COORDINATE CUSTOM FONT WITH ARCHITECT
- 12.26 MONITOR BY OTHERS. SEE ELECTRICAL DRAWINGS

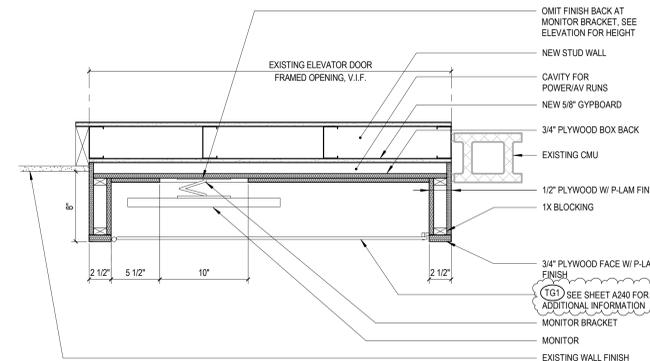
LEGEND



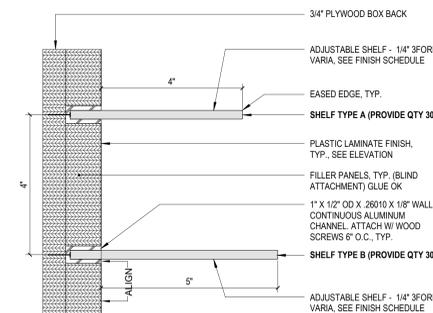
4 LIBRARY OF THINGS DISPLAY SECTION
1 1/2" = 1'-0"



1 LIBRARY OF THINGS DISPLAY
1" = 1'-0"



2 LIBRARY OF THINGS - PLAN SECTION
1 1/2" = 1'-0"



3 LIBRARY OF THINGS - SHELF SLOT DETAIL
6" = 1'-0"

ADDENDUM 06

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NO. DATE REVISIONS

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7	10/10/2025	ADDENDUM 05
8	10/28/2025	ADDENDUM 06

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600 E MARIPOSA STREET
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PROJECT NO. 2111010

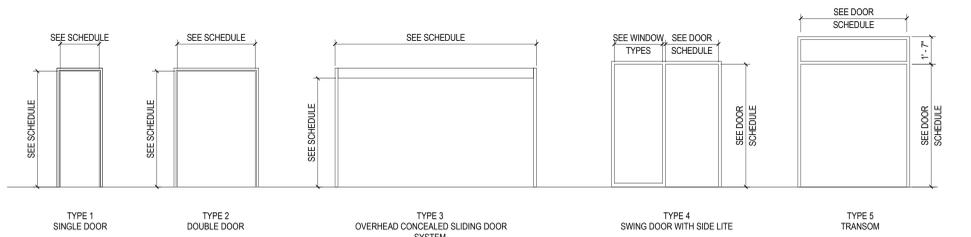
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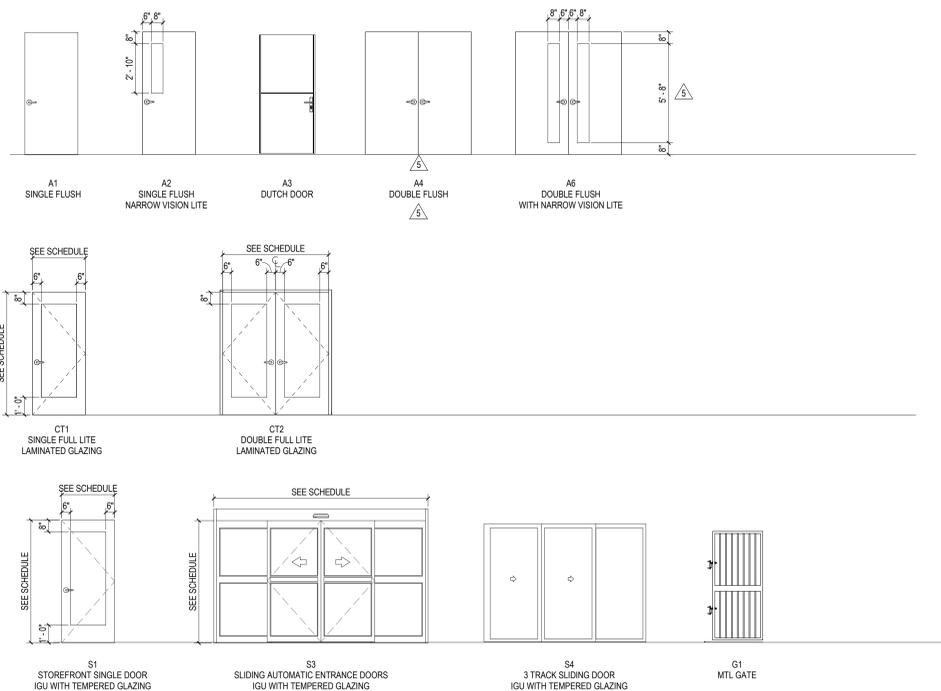
ENLARGED PLANS & ELEVATIONS

SCALE: As indicated

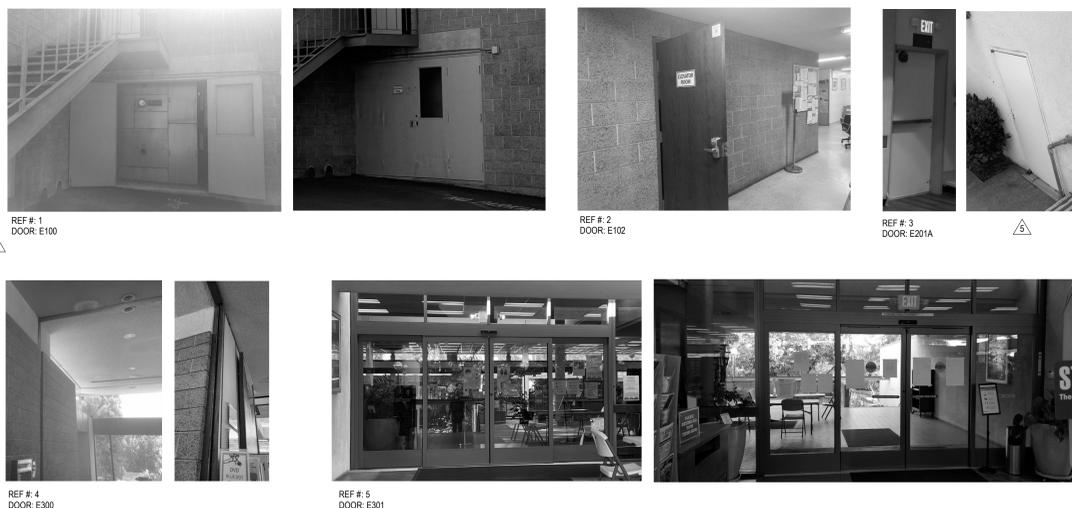
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DOOR FRAME TYPES



DOOR PANEL TYPES



EXISTING (E) DOORS TO REMIAN REFERENCE PHOTOS

EXISTING (E) TO REMAIN DOOR SCHEDULE

NUMBER	PHOTO NUMBER	DOOR (VERIFY IN FIELD)				FRAME		FIRE RATING	HARDWARE GROUP	PANIC HARDWARE	CLOSER	REMARKS
		WIDTH	HEIGHT	MATERIAL	FINISH	MATERIAL	FINISH					
LOWER LEVEL												
E100	1	3'-0"	6'-8"	HM	PAINT	HM	PAINT		28	No		PROVIDE CARD READER
E102	2	3'-0"	6'-8"	WD	STAIN	HM	PAINT		29	Yes	Yes	PROVIDE CARD READER
MID-LEVEL												
E201A	3	3'-0"	6'-8"	HM	PAINT	HM	PAINT		30	Yes		PROVIDE CARD READER. EXISTING PANIC HARDWARE TO REMAIN
MAIN LEVEL												
E300	4	10'-0"	13'-0"	MTL		HM			EXISTING TO REMAIN			ROLL-UP DOOR.
E301	5	6'-6"	6'-9"	ALM		ALM			31			AUTOMATIC SLIDING DOOR W/ EMERGENCY BREAK-OUT PUSH FUNCTION. PROVIDE CARD READER

BASE BID DOOR SCHEDULE

NUMBER	TYPE	DOOR				FRAME			DETAILS		FIRE RATING	HARDWARE GROUP	PANIC HARDWARE	CLOSER	REMARKS
		WIDTH	HEIGHT	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	JAMB	THRESHOLD					
LOWER LEVEL															
100A	S3	14'-6"	7'-10"	ALM	CLR ANODIZED	-	ALM	CLR ANODIZED	1/4"X10 SIM	2/4"X10 SIM		23	Yes	No	AUTOMATIC SLIDING DOOR W/ EMERGENCY BREAK-OUT PUSH FUNCTION. PROVIDE CARD READER
100B	S1	3'-0"	7'-0"	ALM	CLR ANODIZED	1	ALM	CLR ANODIZED	1/4"X10 SIM	2/4"X10 SIM		01	Yes	Yes	CARD READER. PUSH PLATE (EACH SIDE)
101	CT2	6'-0"	7'-0"	ALM	CLR ANODIZED	1	ALM	CLR ANODIZED	2/4"X20 SIM	2/4"X20 SIM		04			CARD READER
103	A1	3'-0"	7'-0"	WD	STAIN	1	ALM	CLR ANODIZED	4/4"X20	4/4"X20		10			
104	A1	3'-0"	7'-0"	WD	STAIN	1	ALM	CLR ANODIZED	4/4"X20	4/4"X20		19			CARD READER
105	A4	6'-0"	7'-0"	WD	STAIN	2	HM	PAINT	1/4"X20	1/4"X20		20			CARD READER
106	CT1	3'-0"	7'-0"	ALM	CLR ANODIZED	1	ALM	CLR ANODIZED	2/4"X20 SIM	2/4"X20 SIM		06			CARD READER
107	CT1	3'-0"	7'-0"	ALM	CLR ANODIZED	4	ALM	CLR ANODIZED	2/4"X20 SIM	2/4"X20 SIM		05			CARD READER
108	CT1	3'-0"	7'-0"	WD	STAIN	1	ALM	CLR ANODIZED	2/4"X20 SIM	2/4"X20 SIM		08			
109	CT1	3'-0"	7'-0"	WD	STAIN	1	ALM	CLR ANODIZED	2/4"X20 SIM	2/4"X20 SIM		08			
110	CT1	3'-0"	7'-0"	WD	STAIN	1	ALM	CLR ANODIZED	2/4"X20 SIM	2/4"X20 SIM		08			
111	CT1	3'-0"	7'-0"	ALM	CLR ANODIZED	1	ALM	CLR ANODIZED	2/4"X20 SIM	2/4"X20 SIM		08			
112	A1	3'-0"	7'-0"	WD	STAIN	1	ALM	CLR ANODIZED	4/4"X20	4/4"X20		17			CARD READER
113A	A1	2'-4"	7'-0"	WD	STAIN	2	ALM	CLR ANODIZED	4/4"X20	4/4"X20		14			
113B	A1	2'-4"	7'-0"	WD	STAIN	2	ALM	CLR ANODIZED	4/4"X20	4/4"X20		14			
113C	A1	2'-4"	7'-0"	WD	STAIN	2	ALM	CLR ANODIZED	4/4"X20	4/4"X20		14			
113D	A1	3'-0"	7'-0"	WD	STAIN	1	ALM	CLR ANODIZED	4/4"X20	4/4"X20		13			
113E	CT1	3'-0"	7'-0"	WD	STAIN	1	ALM	CLR ANODIZED	4/4"X20	4/4"X20		13			
114	A1	3'-0"	7'-0"	HM	PAINT	1	HM	PAINT	4/4"X20	4/4"X20		18			
MID-LEVEL															
203	S1	3'-0"	6'-8 1/2"	ALM	CLR ANODIZED	1	ALM	CLR ANODIZED	1/4"X10 SIM			01	Yes	Yes	CARD READER & PUSH PLATES (EACH SIDE)
201A	S4	12'-0"	8'-0"	ALM	CLR ANODIZED	-	ALM	CLR ANODIZED			7/700	24			
201B	A6	6'-0"	7'-0"	WD	STAIN	2	ALM	CLR ANODIZED	4/4"X20	4/4"X20		27	Yes		CARD READER
202A	A1	3'-0"	7'-0"	WD	STAIN	1	ALM	CLR ANODIZED	4/4"X20	4/4"X20		05			CARD READER
202B	A3	3'-3 1/4"	7'-2"	WD	STAIN	1	ALM	CLR ANODIZED				11			
202C	G1	3'-0"	7'-0"	HM	PAINT	1	HM	PAINT				22	Yes		
203	A1	3'-0"	7'-0"	WD	STAIN	1	ALM	CLR ANODIZED	4/4"X20	4/4"X20		17			CARD READER
215	A1	3'-0"	7'-0"	WD	STAIN	1	ALM	CLR ANODIZED	4/4"X20	4/4"X20		17			CARD READER
MAIN LEVEL															
300A	A1	3'-0"	7'-0"	WD	STAIN	1	ALM	CLR ANODIZED	4/4"X20	4/4"X20		05			CARD READER
302	S1	3'-0 5/16"	8'-6"	ALM	CLR ANODIZED	1	ALM	CLR ANODIZED				01	Yes	Yes	CARD READER & PUSH PLATES (EACH SIDE)
303	A2	3'-0"	7'-0"	HM	CLR ANODIZED	1	HM	CLR ANODIZED				02	Yes	Yes	
305	CT1	3'-0"	7'-0"	WD	STAIN	1	ALM	CLR ANODIZED	2/4"X20 SIM	2/4"X20 SIM		09			
306	CT1	3'-0"	7'-0"	WD	STAIN	1	ALM	CLR ANODIZED	2/4"X20 SIM	2/4"X20 SIM		07			CARD READER
307A	CT2	6'-0"	7'-0"	WD	STAIN	5	ALM	CLR ANODIZED	2/4"X20 SIM	2/4"X20 SIM		03			
308	A1	3'-0"	7'-0"	WD	STAIN	1	ALM	CLR ANODIZED	4/4"X20	4/4"X20		12			Yes
309	A1	3'-0"	7'-0"	WD	STAIN	1	ALM	CLR ANODIZED	4/4"X20	4/4"X20		12			Yes
311	CT1	3'-0"	7'-0"	WD	STAIN	1	ALM	CLR ANODIZED	4/4"X20	4/4"X20		07			CARD READER
312	CT1	3'-0"	7'-0"	WD	STAIN	1	ALM	CLR ANODIZED	4/4"X20	4/4"X20		09			
313	A1	3'-6"	7'-0"	HM	CLR ANODIZED	1	HM	PAINT	4/4"X20	4/4"X20		26	Yes	Yes	CARD READER & PUSH PLATES (EACH SIDE)
314	A2	3'-0"	7'-0"	WD	STAIN	1	HM	CLR ANODIZED	4/4"X20	4/4"X20		06			Yes
315	CT1	3'-0"	7'-0"	ALM	CLR ANODIZED	1	ALM	CLR ANODIZED	2/4"X20 SIM	2/4"X20 SIM		05			CARD READER
316A	A1	3'-0"	7'-0"	WD	STAIN	1	ALM	CLR ANODIZED	4/4"X20	4/4"X20		05			Yes
317	CT1	3'-0"	7'-0"	WD	STAIN	1	ALM	CLR ANODIZED	2/4"X20 SIM	2/4"X20 SIM		07			CARD READER
318	CT1	3'-0"	7'-0"	WD	STAIN	1	ALM	CLR ANODIZED	2/4"X20 SIM	2/4"X20 SIM		07			CARD READER
319	CT1	3'-0"	7'-0"	WD	STAIN	1	ALM	CLR ANODIZED	2/4"X20 SIM	2/4"X20 SIM		08			
320	A1	3'-0"	7'-0"	WD	STAIN	1	ALM	CLR ANODIZED	4/4"X20	4/4"X20		15			
320A	A1	2'-4"	7'-0"	WD	STAIN	2	ALM	CLR ANODIZED	4/4"X20	4/4"X20		14			
320B	A1	2'-4"	7'-0"	WD	STAIN	2	ALM	CLR ANODIZED	4/4"X20	4/4"X20		14			
320C	A1	2'-4"	7'-0"	WD	STAIN	2	ALM	CLR ANODIZED	4/4"X20	4/4"X20		14			
320D	A1	3'-0"	7'-0"	WD	STAIN	1	ALM	CLR ANODIZED	4/4"X20	4/4"X20		13			
321	A1	3'-0"	7'-0"	WD	STAIN	1	ALM	CLR ANODIZED	4/4"X20	4/4"X20		16			

ADD ALTERNATE DOOR SCHEDULE

NUMBER	TYPE	DOOR				FRAME			FIRE RATING	HARDWARE GROUP	PANIC HARDWARE	CLOSER	REMARKS
		WIDTH	HEIGHT	MATERIAL	FINISH	TYPE	MATERIAL	FINISH					
300A	S4	15'-5"	12'-10 3/4"			ALM							
302B	S4	15'-5"	12'-10 3/4"			ALM							
302C	S4	15'-5"	12'-10 3/4"			ALM							
322	D1	3'-0"	7'-11 3/8"			ALM							

SHEET NOTES

- GENERAL NOTES:
1. S4 DOOR TYPES ARE STOREFRONT ASSEMBLIES. SEE SHEET A610 AND A611.
 2. DOOR OPERATION AND HARDWARE: EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
 3. DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES TO BE ACCESSIBLE BY CHAPTER 11A OR 11B OF THE CALIFORNIA BUILDING CODE - SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.
 4. ALL DOORS WITH LATCH TO BE EQUIPPED WITH SINGLE EFFORT NON-GRASP HARDWARE (I.E. LEVER) CENTERED BTWN 30" AND 44" A.F.F.
 5. ALL GLAZED DOORS TO HAVE A 10" KICK PLATE AT BOTTOM.
 6. SEE SPECIFICATIONS FOR DOOR HARDWARE GROUP.
 7. DOOR HARDWARE ARE OPERABLE WITH ONE HAND AND DO NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE HAND. CBC 11B-404.2.7 AND 11B-309.4.
 8. DOOR THRESHOLDS, IF PROVIDED AT DOORWAYS, TO BE 1/2" INCH HIGH MAXIMUM. RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY WITH CBC SECTION 11B-302 AND 11B-303. CBC 11B-404.2.5.
 9. DOOR OPENING FORCE TO NOT EXCEED 5-POUNDS FOR INTERIOR AND EXTERIOR DOORS PER CBC 11B-404.2.9.
 10. DOOR OPENING HARDWARE TO BE MOUNTED AT 34" TO 44" ABOVE THE FINISH FLOOR PER CBC 11B-404.2.7.
 11. LOWER 10 INCH OF THE DOOR SURFACE IS PROVIDED WITH A SMOOTH SURFACE FOR THE FULL WIDTH OF THE DOOR, AT THE PUSH SIDE OF THE DOOR PER CBC 11B-404.2.10.

ABBREVIATIONS
ALM: ALUMINUM
HM: HOLLOW METAL

REMARKS



ANDERSON BRULÉ ARCHITECTS
325 South First Street, 4th Floor
San Jose, California 95113
408.298.1955 | www.aba-arch.com
409 Harvard Avenue, Suite 201
Claremont, CA 91711

ADDENDUM 06

CONSULTANTS LOGO

STAMP



NO. DATE REVISIONS

NO.	DATE	REVISIONS
1	06/24/2024	BUILDING PERMIT SUBMITTAL
4	06/13/2025	FIRE PLAN BACKCHECK
5	07/16/2025	FIRE PLAN BACKCHECK #3
7	10/10/2025	ADDENDUM 05
8	10/28/2025	ADDENDUM 06

PROJECT TITLE:

ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010

DATE: 11-07-2024

SHEET TITLE:

DOOR TYPES, FRAME TYPES, AND SCHEDULES

SCALE: As Indicated

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A600



ANDERSON BRULÉ ARCHITECTS

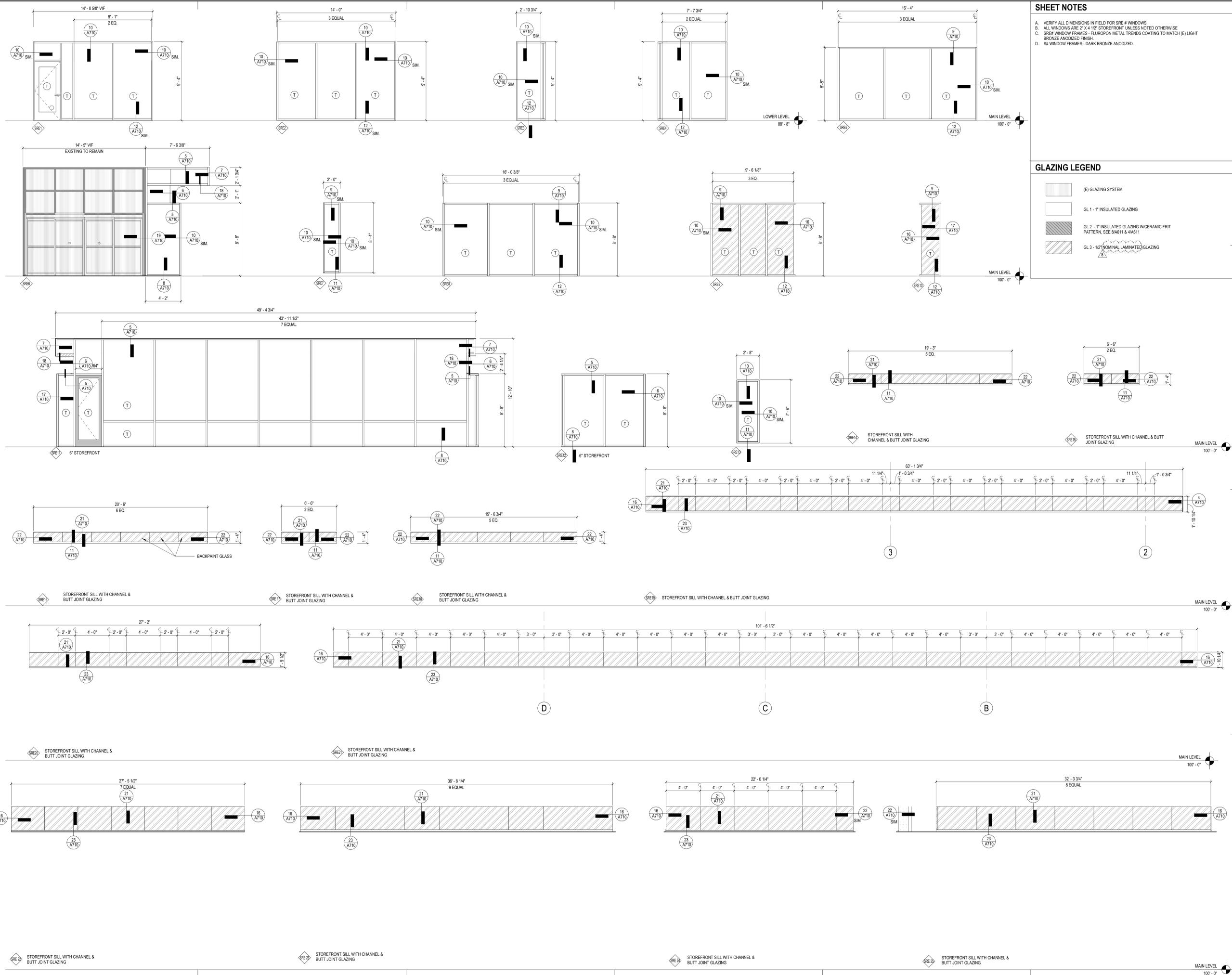
325 South First Street, 4th Floor
San Jose, California 95113
408.298.1885 | www.aba-arch.com
409 Harvard Avenue, Suite 201
Claremont, CA 91711

SHEET NOTES

- A. VERIFY ALL DIMENSIONS IN FIELD FOR SRE # WINDOWS.
- B. ALL WINDOWS ARE 2' X 4 1/2" STOREFRONT UNLESS NOTED OTHERWISE.
- C. SRE# WINDOW FRAMES - FLUOROPOLYMER METAL TRENDS COATING TO MATCH (E) LIGHT BRONZE ANODIZED FINISH.
- D. SF WINDOW FRAMES - DARK BRONZE ANODIZED.

GLAZING LEGEND

- (E) GLAZING SYSTEM
- GL 1 - 1" INSULATED GLAZING
- GL 2 - 1" INSULATED GLAZING W/CERAMIC FRIT PATTERN, SEE 8/A611 & 4/A611
- GL 3 - 1/2" NOMINAL LAMINATED GLAZING



ADDENDUM 06

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NO. DATE REVISIONS

NO.	DATE	REVISIONS
1	06/24/2024	BUILDING PERMIT SUBMITTAL
2	10/28/2025	ADDENDUM 06

PROJECT TITLE:

ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010

DATE: 11-07-2024

SHEET TITLE:

EXTERIOR WINDOW TYPES

SCALE: As indicated

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A610

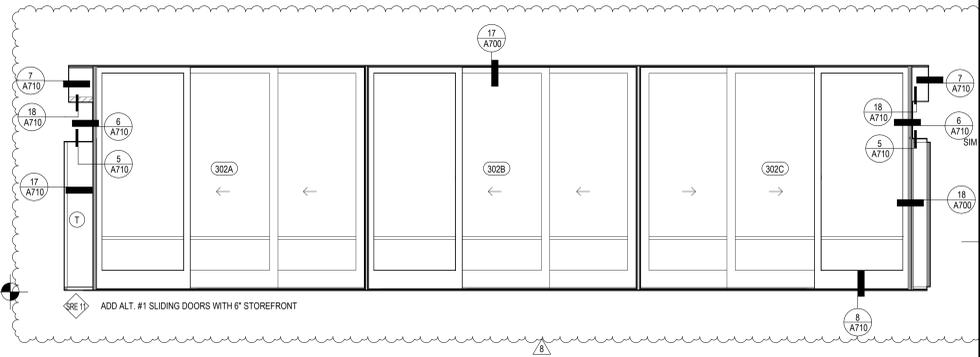
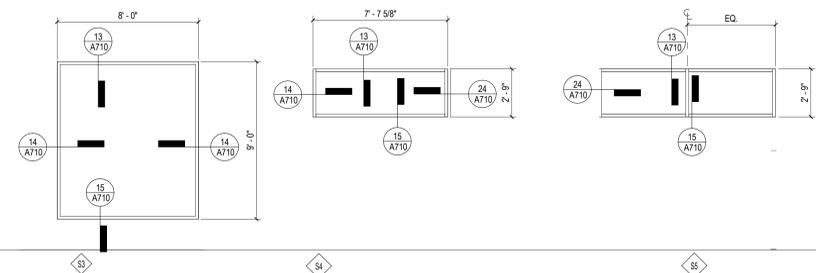
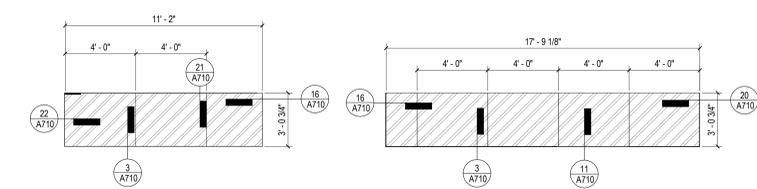
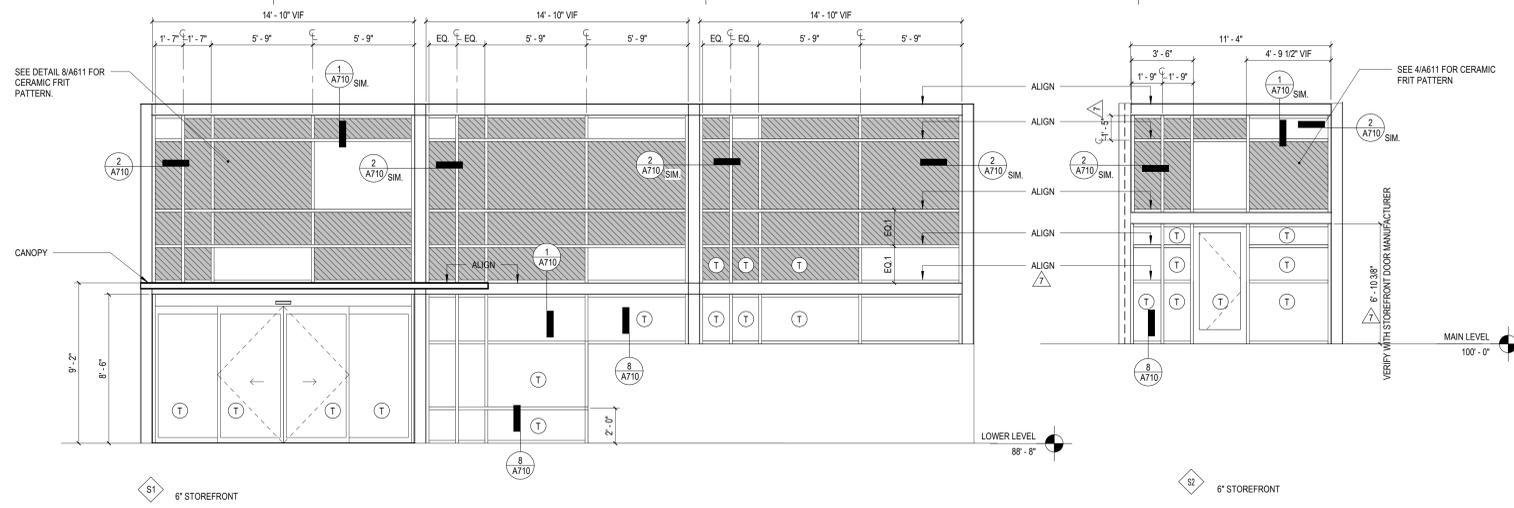
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SHEET NOTES

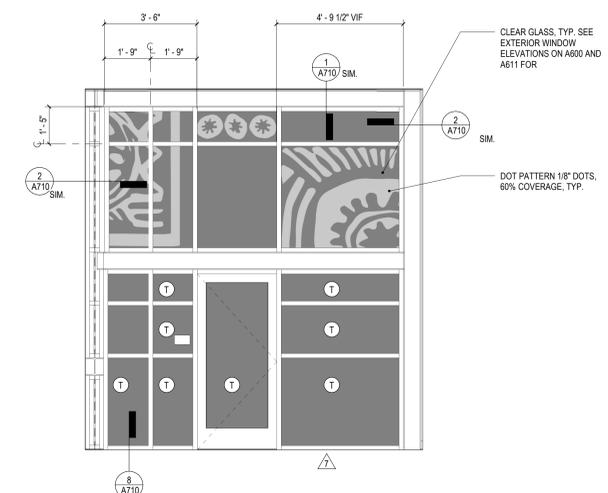
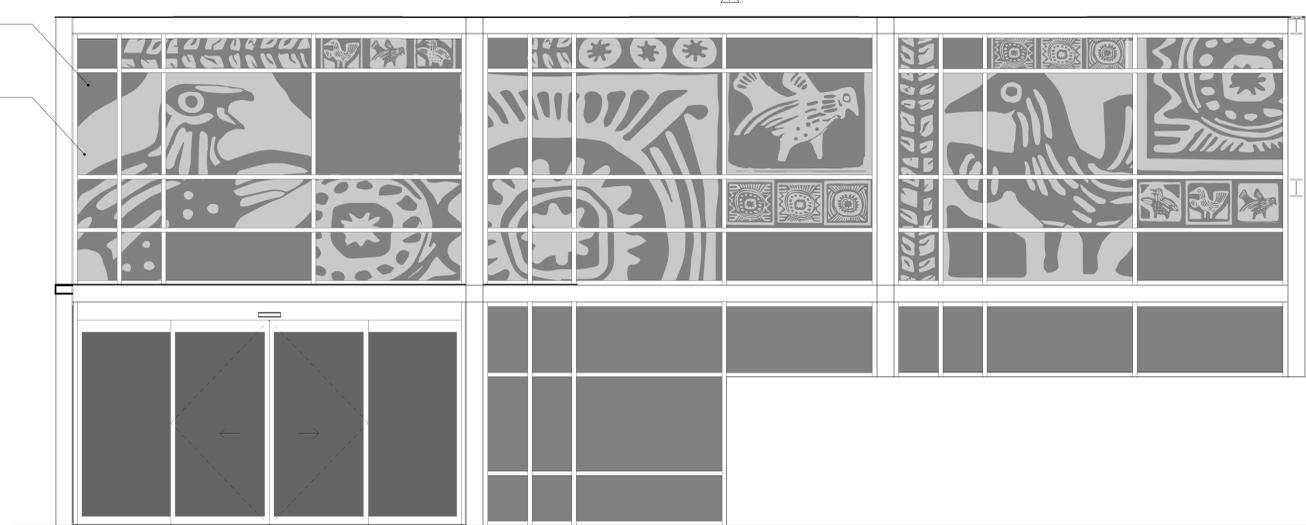
- A. VERIFY ALL DIMENSIONS IN FIELD
- B. ALL WINDOWS ARE 2" X 4 1/2" STOREFRONT UNLESS NOTED OTHERWISE
- C. SREB WINDOW FRAMES - FLUOROPON METAL TRENDS COATING TO MATCH (E) LIGHT BRONZE ANODIZED FINISH.
- D. SIF WINDOW FRAMES - DARK BRONZE ANODIZED.

GLAZING LEGEND

- (E) GLAZING SYSTEM
- GL 1 - 1" INSULATED GLAZING
- GL 2 - 1" INSULATED GLAZING W/CERAMIC FRIT PATTERN. SEE 8/A611 & 4/A611
- GL 3 - 1/2" NOMINAL LAMINATED GLAZING



CLEAR GLASS. TYP. SEE EXTERIOR WINDOW ELEVATIONS ON A600 AND A611 FOR
DOT PATTERN 1/8" DOTS, 60% COVERAGE, TYP.



20 SOUTH ENTRY LOBBY FACADE - CERAMIC FRIT PATTERN
3/8" = 1'-0"

8 ENTRY LOBBY FACADE AT DECK - CERAMIC FRIT PATTERN
3/8" = 1'-0"

ADDENDUM 06

CONSULTANTS LOGO



NO.	DATE	REVISIONS
6	06/24/2024	BUILDING PERMIT SUBMITTAL
7	10/10/2025	ADDENDUM 05
8	10/28/2025	ADDENDUM 06

PROJECT TITLE:

ALTADENA MAIN LIBRARY
600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010
DATE: 11-07-2024
SHEET TITLE:

EXTERIOR WINDOW TYPES

SCALE: As indicated

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ADDENDUM 06

CONSULTANTS LOGO

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NO.	DATE	REVISIONS
1	06/24/2024	BUILDING PERMIT SUBMITTAL
2	11/06/2024	BACKCHECK #1 BLDG PERMIT SUBMITTAL
7	10/10/2025	ADDENDUM 05
8	10/28/2025	ADDENDUM 06

PROJECT TITLE:

ALTADENA MAIN LIBRARY

600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010

DATE: 11-07-2024

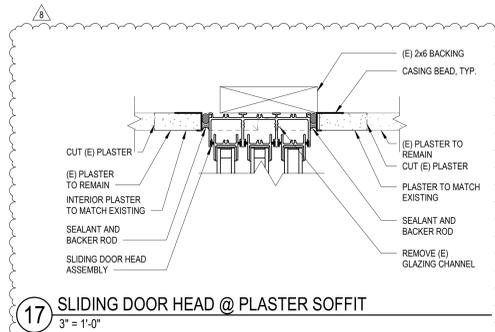
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EXTERIOR DETAILS

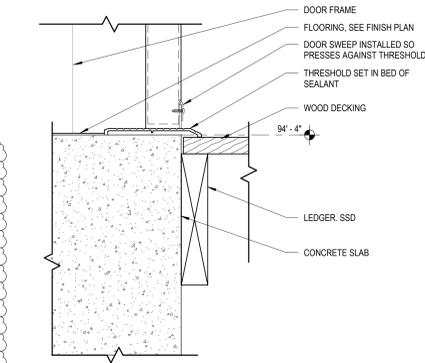
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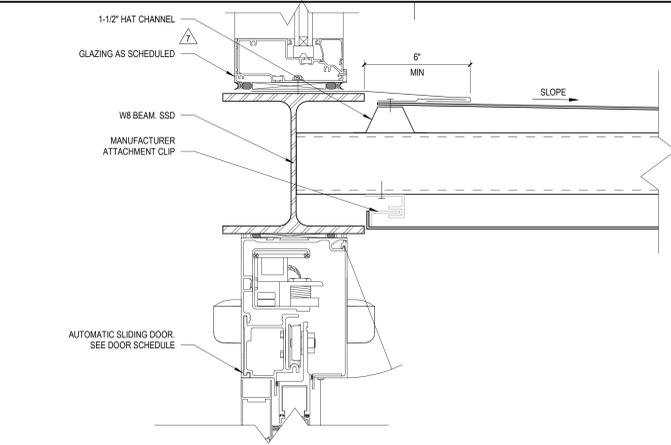
A700



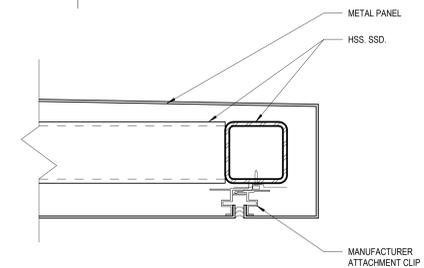
17 SLIDING DOOR HEAD @ PLASTER SOFFIT
3" = 1'-0"



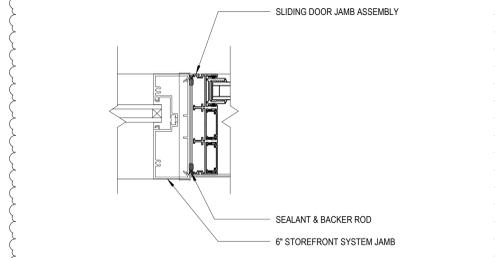
13 SWING DOOR SILL @ DECK
3" = 1'-0"



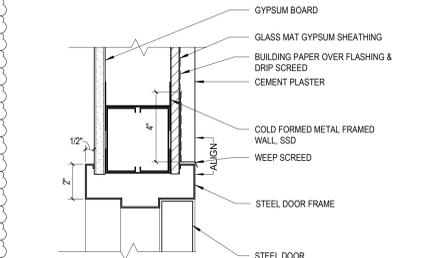
9 CANOPY SECTION @ COLUMN
3" = 1'-0"



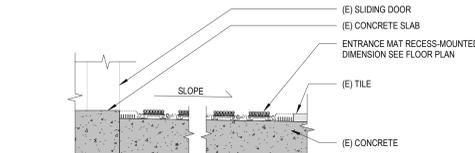
6 WATERPROOFING AT CONCRETE RETAINING WALL
1 1/2" = 1'-0"



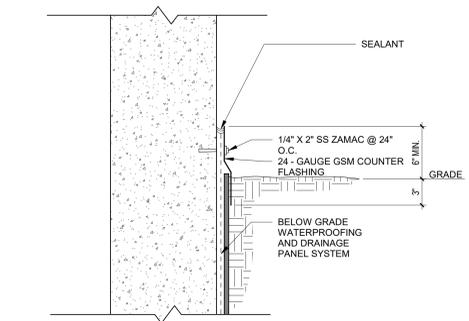
18 6" STOREFRONT JAMB @ SLIDING DOOR JAMB
3" = 1'-0"



14 EXTERIOR STEEL DOOR HEAD
3" = 1'-0"



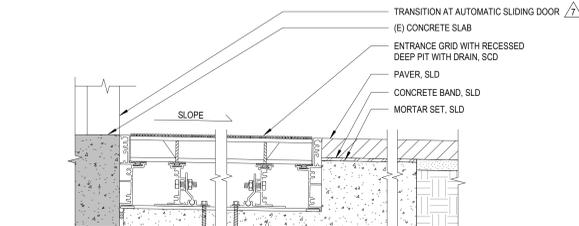
10 RECESSED ENTRANCE MAT
3" = 1'-0"



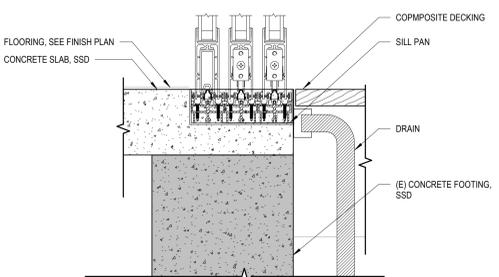
7 SLIDING DOOR SILL @ COMMUNITY ROOM
3" = 1'-0"



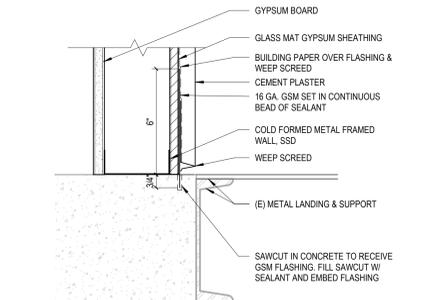
15 EXTERIOR STEEL DOOR JAMB
3" = 1'-0"



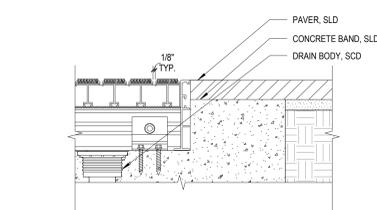
11 RECESSED ENTRANCE GRID
3" = 1'-0"



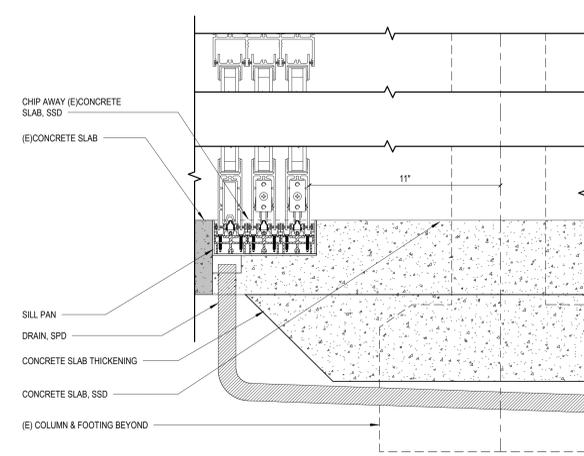
7 SLIDING DOOR SILL @ COMMUNITY ROOM
3" = 1'-0"



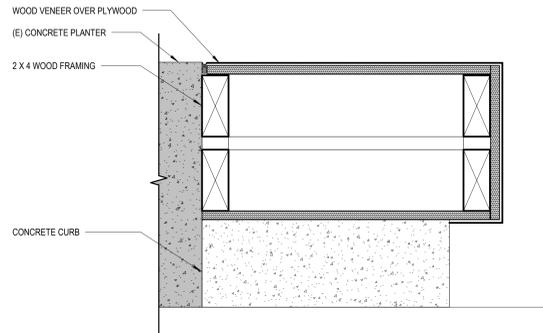
16 BASE OF WALL AT CEMENT PLASTER
3" = 1'-0"



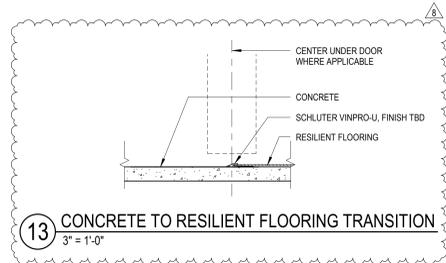
12 RECESSED ENTRANCE GRID @ DRAIN
3" = 1'-0"



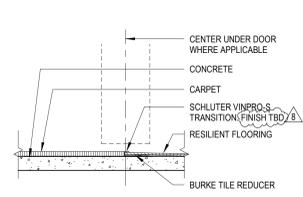
8 ADD ALT #1 NORTH PATIO SLIDING DOOR SILL
3" = 1'-0"



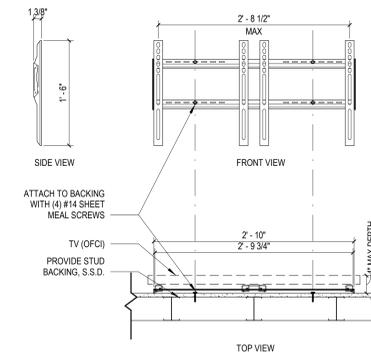
3 FLOOR PLAN - MAIN LEVEL - Section 1
3" = 1'-0"



13 CONCRETE TO RESILIENT FLOORING TRANSITION
3" = 1'-0"

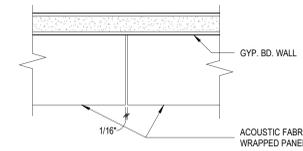


9 CARPET TO RESILIENT FLOORING TRANSITION
3" = 1'-0"



NOTE: TELEVISIONS AND MOUNT WEIGHT TOTAL AT 200 LBS MAX.

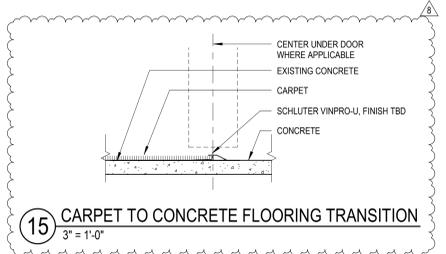
5 TELEVISION MOUNT DETAIL
1" = 1'-0"



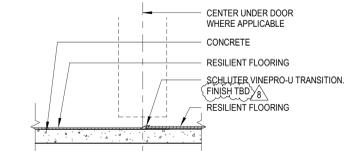
1 FABRIC WRAPPED PANEL BUTT JOINT DETAIL
6" = 1'-0"



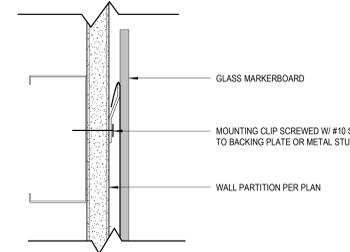
7 Vibia Plus Minus 3D View - For Reference Only
1" = 1'-0"



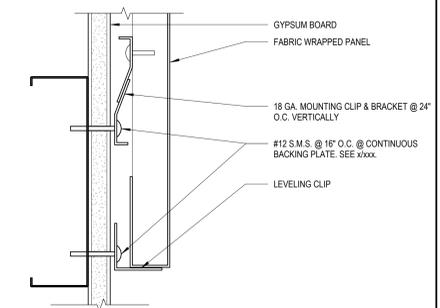
15 CARPET TO CONCRETE FLOORING TRANSITION
3" = 1'-0"



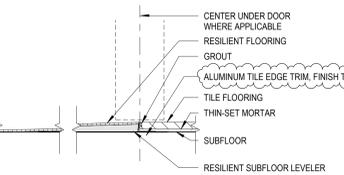
10 CARPET TO TILE FLOORING TRANSITION
3" = 1'-0"



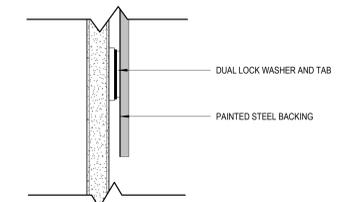
6 GLASS MARKERBOARD MOUNT
6" = 1'-0"



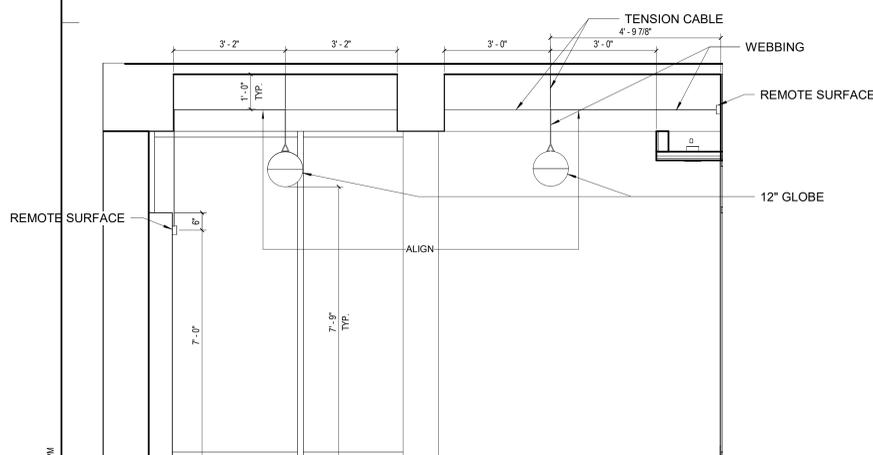
2 FABRIC WRAPPED PANEL AT ATTACHMENT
6" = 1'-0"



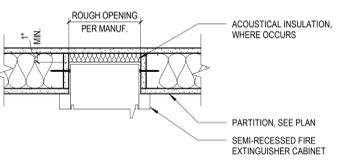
11 RESILIENT TO TILE FLOORING TRANSITION
3" = 1'-0"



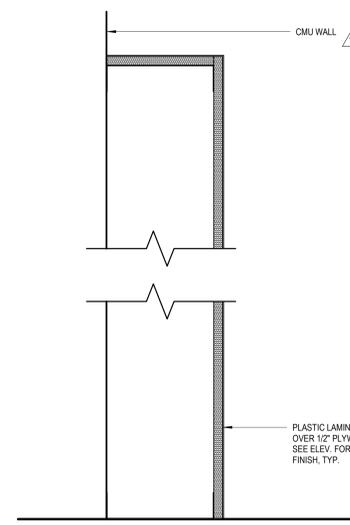
6 GLASS MARKERBOARD MOUNT
6" = 1'-0"



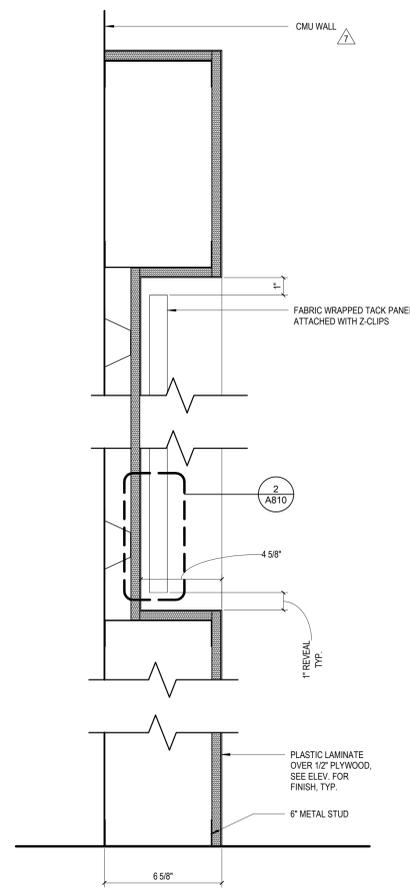
24 LIGHT FIXTURE ELEVATION @ SOFFIT
1/2" = 1'-0"



12 Fire Extinguisher Cabinet
1 1/2" = 1'-0"



8 DONOR WALL
3" = 1'-0"



4 COMMUNITY BOARD
3" = 1'-0"

ADDENDUM 06

CONSULTANTS LOGO

STAMP



NO. DATE REVISIONS

NO.	DATE	REVISIONS
7	06/24/2024	BUILDING PERMIT SUBMITTAL
7	10/10/2025	ADDENDUM 05
8	10/28/2025	ADDENDUM 06

PROJECT TITLE:

ALTADENA MAIN LIBRARY
600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010

DATE: 11-07-2024

SHEET TITLE:

INTERIOR DETAILS

SCALE: As indicated

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SHEET NOTES

- 1 MOUNT LIGHT FIXTURES UNDER CABINETS. COORDINATE LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
- 2 LIGHT FIXTURE SHALL BE MOUNTED ON TOP OF GYP SHELF. REFER TO DETAIL #12/AB07 FOR LOCATION.
- 3 MAKE CONNECTION TO RECEPTACLE FOR POWER.
- 4 ROUTE HOMERUN VIA "LCP-1" FOR CIRCUIT CONTROL. REFER TO SHEET E203 FOR "LCP-1" LOCATION.
- 5 LIGHTING CONTROL DEVICES IN THE LOBBY AREA SHALL BE INSTALLED IN THE SOFFIT.
- 6 PROVIDE WALL MOUNTED DEVICE AT THIS LOCATION.



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ARCHITECTS

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BUILDING PERMIT
SUBMITTAL

CONSULTANTS LOGO



STAMP

NO.	DATE	REVISIONS
03/07/2025		BACKCHECK #1 MEP BLDG PERMIT SUBMITTAL
Date 3		BACKCHECK#2 MEP BLD PERMIT SUBMITTAL
10/28/25		ADDENDUM 06

PROJECT TITLE:

ALTADENA MAIN LIBRARY
600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010

DATE: 06-24-2024

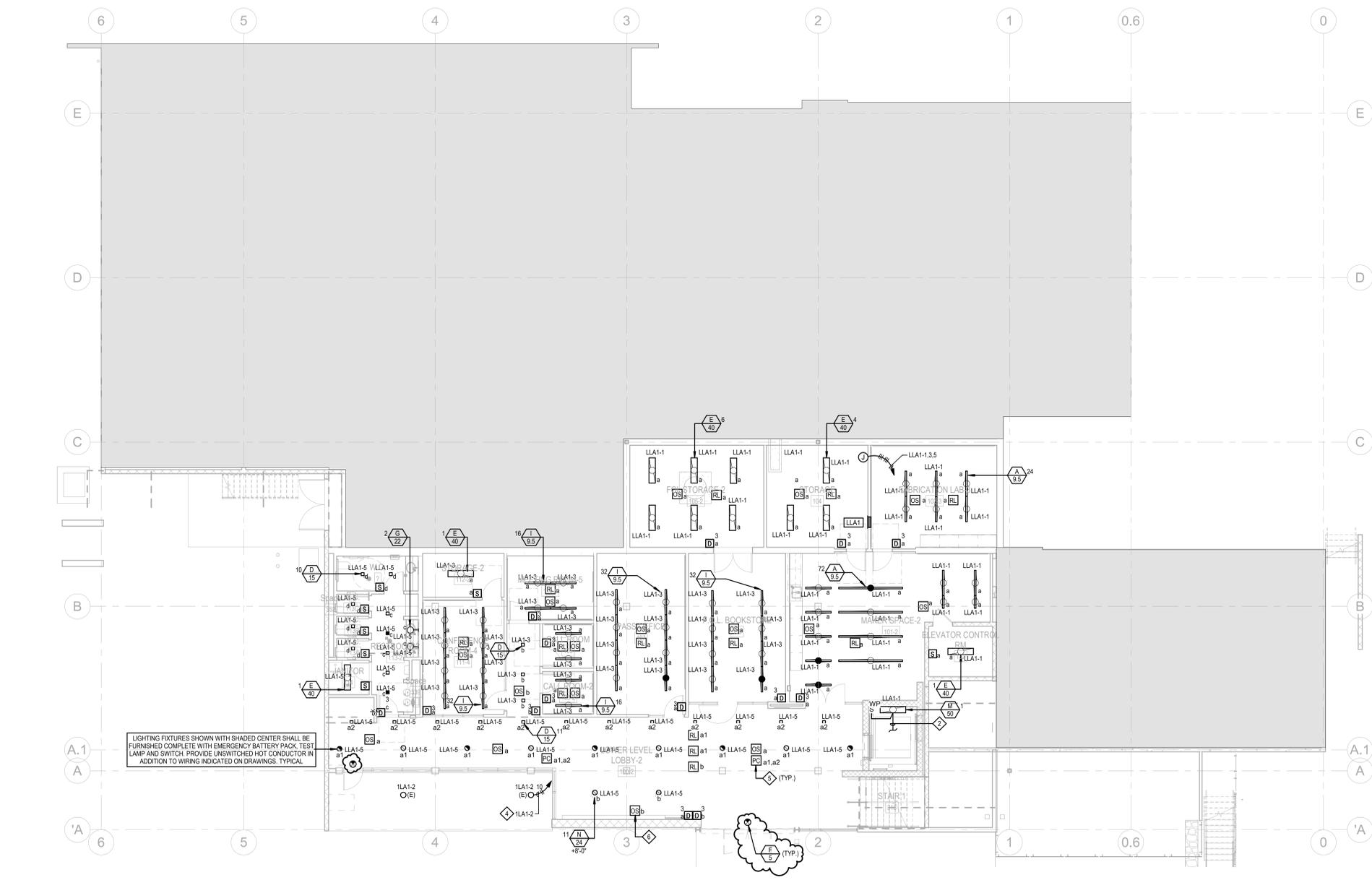
SHEET TITLE:

LOWER LEVEL
LIGHTING PLAN

SCALE: 1/8" = 1'-0"

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E202



LIGHTING FIXTURES SHOWN WITH SHADED CENTER SHALL BE FURNISHED COMPLETE WITH EMERGENCY BATTERY PACK, TEST LAMP AND SWITCH. PROVIDE UNSWITCHED HOT CONDUCTOR IN ADDITION TO WIRING INDICATED ON DRAWINGS. TYPICAL.

CIRCUITING NOTE:
CIRCUITS SHOWN ON HOMERUNS SHALL BE EXTENDED TO LIGHT FIXTURES WHERE CIRCUITS ARE IDENTIFIED. PROVIDE SWITCHING AS SHOWN ON THE DRAWINGS. ALL CONDUCTORS SHALL BE ROUTED IN CONDUIT. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONDUIT, BOXES, CONDUCTORS, SUPPORTS, ETC. REQUIRED FOR A COMPLETE INSTALLATION. REFER TO THE SPECIFICATIONS FOR MINIMUM CONDUIT AND CONDUCTOR REQUIREMENTS.

1 LOWER LEVEL LIGHTING PLAN
1/8" = 1'-0"



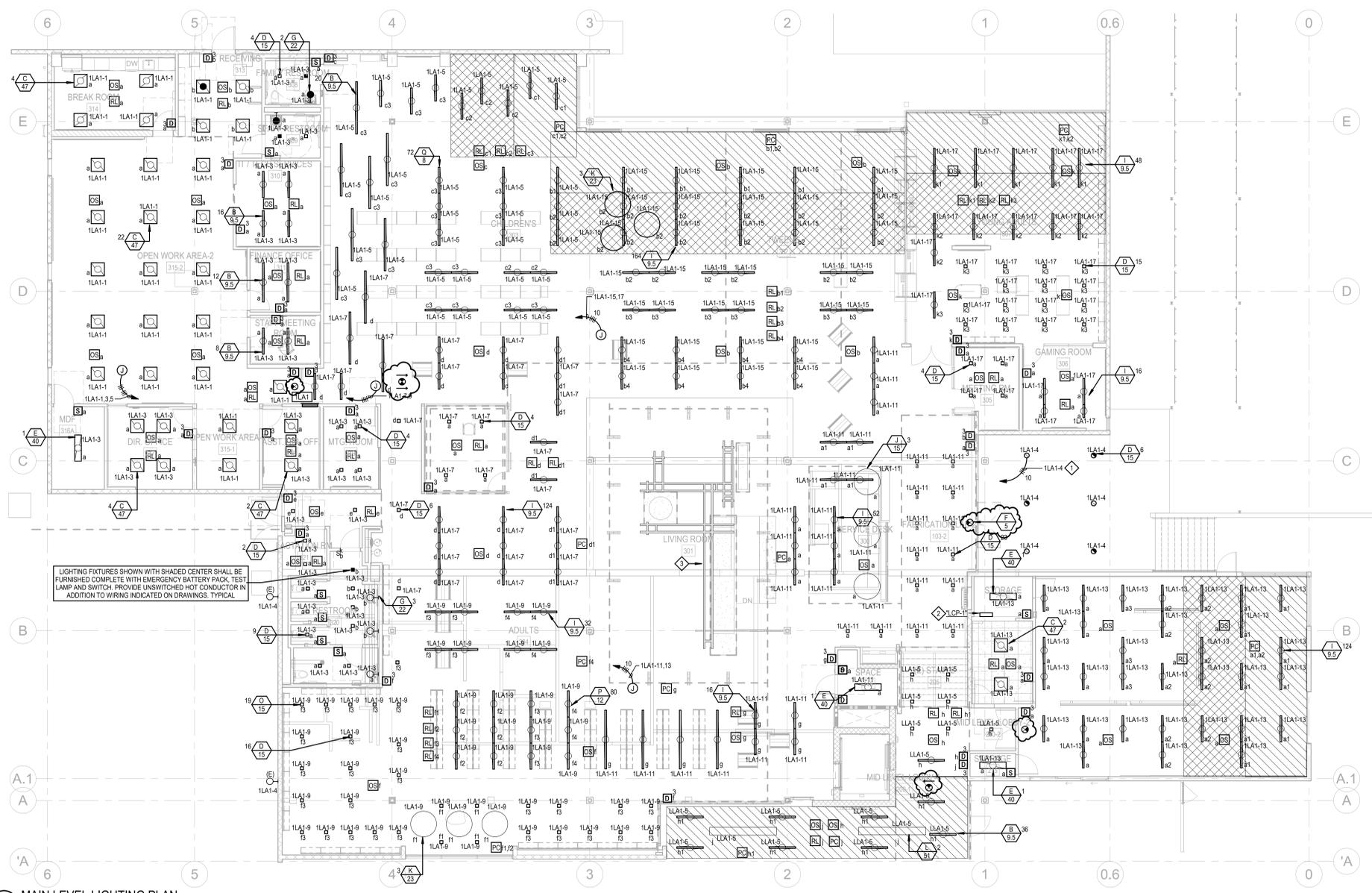
10/16/2025 3:47:26 PM

SHEET NOTES

- 1 ROUTE HOMERUN VIA "LCP-1" FOR CIRCUIT CONTROL.
- 2 REFER TO SHEET E403 FOR LIGHTING CONTROL PANEL MANUFACTURE AND MODEL NUMBER.
- 3 PROVIDE A MINIMUM OF (50) TYPE "E" FIXTURES.



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1 MAIN LEVEL LIGHTING PLAN
1/8" = 1'-0"

BUILDING PERMIT SUBMITTAL



STAMP

NO.	DATE	REVISIONS
03/07/2025		BACKCHECK #1 MEP BLDG PERMIT SUBMITTAL
Date 3		BACKCHECK#2 MEP BLD PERMIT SUBMITTAL
9/18/25		Revision 7
10/29/25		ADDENDUM 06

PROJECT TITLE:

ALTADENA MAIN LIBRARY
600 E MARIPOSA STREET
ALTADENA, CA 91001

PROJECT NO. 2111010
DATE: 06-24-2024
SHEET TITLE:

MAIN LEVEL LIGHTING PLAN

SCALE: 1/8" = 1'-0"



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PROJECT MANUAL

Altadena Main Library Specification Sections listed below have been modified as indicated by tracked changes, added or removed from the Project Manual. New content is shown tracked (text color changed and underlined); removed content is shown tracked (text color change and strike-through). Where revision content replaces prior specification, prior direction is removed for clarity.

Section 00 01 10 Table of Contents

Revised and updated Table of Contents

Section 01 21 00 – Allowances

Added Section 01 21 00 – Allowances.

Section 01 23 00 - Alternates

Added Drawing Sheet References.

Section 01 26 00 – Contract Modification Procedures

Added Change Order Proposal Form.

Section 01 31 00 – Project Management and Coordination

Removed Reference to Section 01 11 50 - Electronic Drawings.

Section 01 33 00 – Submittal Procedures

Revised and **added** Submittal Review duration content.

Section 01 35 35 – Construction Indoor Air Quality

Revised construction photography requirement.

Section 01 50 00 – Temporary Facilities and Controls

Revised construction site security fencing.

Section 01 91 13 – General Commissioning Requirements

Replaced Section 01 23 00 in entirety.

Section 03 11 00 – Concrete Forming

Removed reference to façade maintenance/ fall protection section (not in scope).

Section 03 30 00 – Cast-in-Place Concrete

Revised concrete finish description, adding Architectural Concrete reference.

Section 04 01 20 – Masonry Restoration and Cleaning

Revised Required Area of Masonry Restoration Work.

Section 04 22 00 – Concrete Unit Masonry

Revised Mock-up requirements, CMU Types and mortar joint tooling requirements.

Added Block and Mortar Water Repellent Admixture & Grout color pigment.

Section 05 51 00 – Architectural Metal Stairs

Revised System description, removing reference to glazed guards, stainless steel cladding.

Section 05 52 00 – Metal Guards and Railings

Revised Metal Mesh Basis of Design.

Section 06 10 00 – Rough Carpentry

Added Roof and Parapet sheathing.

Section 06 16 00 – Sheathing

Removed Section in entirety.

Section 06 20 00 – Finish Carpentry

Removed interior finish carpentry, standing & running trim, as indicated.

Section 06 40 00 – Architectural Woodwork

Added Samples, Hardwood veneer & lumber, Shop finishing, and pegboard.

Removed paneling and bench.

Section 06 83 16 – Resin Composite Panel

Added New Section 06 83 16 Resin Composite Panel.

Section 07 01 50.19 – Preparation for Reroofing

Revised content throughout, as indicated.

Section 07 81 00 – Applied Fireproofing

Removed Section 07 81 00 in its entirety.

Section 07 81 22 – Thin Film Fireproofing

Removed Section 07 81 22 in its entirety.

Section 08 14 00 – Wood Doors

Revised Wood WD1 veneer and transparent finish requirements.

Removed Rail and Stile Doors and Frames.

Section 08 32 13 – Glazed Sliding Stacking Doors (Metal)

Revised Basis of Design product and finish requirements.

Section 08 34 00 – Special Function Doors

Removed Section 08 34 00 in its entirety.

Section 08 63 00 – Metal Framed Skylights

Added Basis of Design Wasco Velux Commercial half-round barrel vault double dome skylight.

Revised Articles 2.1 and 2.4 as indicated.

Section 08 81 00 – Glass and Glazing

Added Drawing Sheet references.

Deleted design criteria and unreferenced products as indicated.

Revised Glazing Schedule.

Section 09 01 21 – Repair and Restoration of Plaster

Added New Section 09 01 20.

Section 09 22 00 – Acoustical Plaster

Removed Section 09 22 00 in its entirety.

Section 09 30 00 – Tiling

Revised Basis of Design Products.

Section 09 51 00 – Acoustical Ceilings

Revised Code reference and performance requirements.

Section 09 54 00 – Acoustical Drywall Ceiling

Added New Section 09 54 00 – Acoustical Drywall Ceilings

Section 09 54 34 – Wood Alternative Ceiling

Revised Part B for Basis of Design components and system consistency.

Section 09 66 23 – Resinous Matrix Terrazzo Flooring

Added New Section 09 66 23, with requirements for precast terrazzo stair treads.

Section 09 83 13 – Acoustical Wall Treatment

Revised AP1 Basis of Design product description, and

Added High-Impact Tackable Wall Panel description.

Section 09 91 23 – Interior Painting

Revised Paint Schedule.

Section 10 11 00 – Marker Boards

Revised Basis of Design product.

Section 10 26 00 – Wall and Corner Guards

Revised Corner guard installation from flush-mount to surface-mounted.

Section 10 28 13 – Toilet Accessories

Revised Accessory Schedule.

Section 12 52 19 – Custom Upholstered Seating

Revised design requirements and **deleted** fabrics.

Section 26 04 25 – Distribution Switchboards

Added New Section 26 04 25– Distribution Switchboards.

Section 27 41 16 – AV Systems

Added New Section 27 41 16 – AV Systems.

DIVISION	01	GENERAL REQUIREMENTS
Section	01 11 00	Summary of Work
Section	01 14 00	Work Restrictions
Section	01 21 00	Allowances
Section	01 23 00	Alternates
Section	01 25 00	Substitution Procedures
Section	01 25 00.1	Substitution Request Form
Section	01 26 00	Contract Modification Procedures
Section	01 29 00	Payment Procedures
Section	01 31 00	Project Management and Coordination
Section	01 31 00.1	Request for Information (RFI) Form
Section	01 32 00	Construction Progress Documentation
Section	01 33 00	Submittal Procedures
Section	01 35 35	Construction Indoor Air Quality
Section	01 35 73	Delegated Design Procedures
Section	01 40 00	Quality Requirements
Section	01 42 00	References
Section	01 43 39	Mockups
Section	01 50 00	Temporary Facilities and Controls
Section	01 56 39	Temporary Tree and Plant Protection
Section	01 60 00	Product Requirements
Section	01 71 23	Field Engineering
Section	01 73 00	Execution
Section	01 73 29	Cutting and Patching
Section	01 74 19	Construction Waste Management and Disposal
Section	01 77 00	Closeout Procedures
Section	01 78 23	Operation and Maintenance Data
Section	01 78 39	Project Record Documents
Section	01 79 00	Demonstration and Training
Section	01 81 13.71	Sustainable Design Requirements - CALGreen Non-Residential Mandatory
Section	01 91 13	General Commissioning Requirements
DIVISION	02	EXISTING CONDITIONS
Section	02 41 16	Demolition
DIVISION	03	CONCRETE
Section	03 11 00	Concrete Forming
Section	03 20 00	Concrete Reinforcement
Section	03 30 00	Cast-In-Place Concrete
Section	03 31 13	Sealed Concrete
Section	03 35 20	Special Finishing
Section	03 35 46	Vapor Emission Control
Section	03 37 13	Shotcrete
Section	03 48 19	Precast Concrete Stair Treads
DIVISION	04	MASONRY
Section	04 01 20	Masonry Restoration and Cleaning
Section	04 22 00	Concrete Unit Masonry

DIVISION 05 METALS

Section	05 12 00	Structural Steel
Section	05 30 00	Metal Decking
Section	05 40 00	Cold Formed Metal Framing
Section	05 50 00	Metal Fabrications
Section	05 51 00	Architectural Metal Stairs
Section	05 52 00	Metal Guards and Railings

DIVISION 06 WOOD, PLASTICS, AND COMPOSITES

Section	06 10 00	Rough Carpentry
Section	06 16 00	Sheathing
Section	06 16 43	Gypsum and Cementitious Sheathing
Section	06 20 00	Finish Carpentry
Section	06 40 00	Architectural Woodwork
Section	06 83 16	Resin Composite Paneling

DIVISION 07 THERMAL AND MOISTURE PROTECTION

Section	07 01 50.19	Preparation for Reroofing
Section	07 11 15	Bituminous Dampproofing
Section	07 13 26	Adhesive Sheet Waterproofing
Section	07 19 00	Water Repellents
Section	07 21 00	Thermal Insulation
Section	07 24 23	Exterior Plaster Repair
Section	07 25 13	Weather Resistive Air Barrier Assembly
Section	07 26 00	Vapor Control
Section	07 54 19	Polyvinyl Chloride (PVC) Roofing
Section	07 62 00	Flashing and Sheet Metal Work
Section	07 81 00	Applied Fireproofing
Section	07 81 22	Thin-Film Intumescent Fireproofing
Section	07 84 00	Firestopping
Section	07 92 00	Joint Sealants

DIVISION 08 OPENINGS

Section	08 11 00	Metal Doors and Frames
Section	08 14 00	Wood Doors
Section	08 31 00	Access Doors
Section	08 32 13	Glazed Sliding Stacking Doors (Metal)
Section	08 34 00	Special Function Doors
Section	08 41 00	Aluminum Entrances and Storefront
Section	08 42 29	Automatic Sliding Entrances
Section	08 63 00	Metal Framed Skylights
Section	08 81 00	Glass and Glazing

DIVISION 09 FINISHES

Section	09 01 21	Repair and Restoration of Plaster
Section	09 05 00	Moisture Control System
Section	09 21 00	Gypsum Board
Section	09 21 16	Shaft Wall Assemblies
Section	09 22 00	Acoustical Plaster

Section	09 22 16	Nonstructural Metal Framing
Section	09 24 00	Portland Cement Plaster
Section	09 30 00	Tiling
Section	09 51 00	Acoustical Ceilings
Section	09 54 00	Acoustical Drywall Ceilings
Section	09 54 34	Wood Alternative Ceiling
Section	09 65 00	Resilient Flooring
Section	09 66 23	Resinous Matrix Terrazzo Flooring
Section	09 68 13	Modular Carpeting
Section	09 81 00	Acoustic Insulation
Section	09 83 13	Acoustical Wall Treatment
Section	09 91 13	Exterior Painting
Section	09 91 23	Interior Painting
Section	09 96 00	High-Performance Coatings

DIVISION 10 SPECIALTIES

Section	10 11 00	Markerboards
Section	10 14 00	Interior Signage
Section	10 14 19	Dimensional Letter Signage
Section	10 23 10	Glazed Interior Wall Systems
Section	10 26 00	Wall and Corner Guards
Section	10 28 13	Toilet Accessories
Section	10 41 16	Emergency Key Cabinets
Section	10 44 00	Fire Extinguishers and Cabinets

DIVISION 11 EQUIPMENT

Section	11 31 00	Residential Appliances
Section	11 51 00	Library Equipment
Section	11 52 13	Projection Screens

DIVISION 12 FURNISHINGS

Section	12 24 13	Rolled Cloth Window Shades
Section	12 48 16	Entrance Floor Grilles
Section	12 52 19	Custom Upholstered Seating
Section	12 93 00	Site Furnishings

DIVISION 14 CONVEYING EQUIPMENT

Section	14 21 00	Gearless Traction Elevator
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DIVISION 21 FIRE SUPPRESSION

Section	21 13 13	Wet-Pipe Sprinkler Systems
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DIVISION 22 PLUMBING

Section	22 05 00	Common Work Results for Plumbing
Section	22 05 23	General-Duty Valves for Plumbing Piping
Section	22 05 29	Hangers and Supports for Plumbing Piping and Equipment

Section	22 05 48	Vibration and Seismic Controls for Plumbing Piping and Equipment
Section	22 05 53	Identification for Plumbing Piping and Equipment
Section	22 07 00	Plumbing Insulation
Section	22 11 16	Domestic Water Piping
Section	22 11 19	Domestic Water Piping Specialties
Section	22 11 23	Facility Natural-Gas Piping
Section	22 13 16	Sanitary Waste and Vent Piping
Section	22 13 19	Sanitary Waste Piping Specialties
Section	22 33 00	Electric, Domestic-Water Heaters
Section	22 34 00	Fuel-Fired Water Heaters
Section	22 40 00	Plumbing Insulation
Section	22 47 00	Drinking Fountains and Water Coolers

DIVISION 23 HEATING VENTILATING AND AIR CONDITIONING

Section	23 05 00	Common Work Results for HVAC
Section	23 05 13	Common Motor Requirements for HVAC Equipment
Section	23 05 29	Hangers and Supports for HVAC Piping and Equipment
Section	23 05 48	Vibration and Seismic Controls for HVAC
Section	23 05 53	Identification for HVAC Piping and Equipment
Section	23 05 93	Testing, Adjusting, and Balancing for HVAC
Section	23 07 00	HVAC Insulation
Section	23 23 00	Refrigerant Piping
Section	23 31 13	Metal Ducts
Section	23 33 00	Air Duct Accessories
Section	23 34 23	HVAC Power Ventilators
Section	23 37 13	Diffusers, Registers, and Grilles
Section	23 41 00	Particulate Air Filtration
Section	23 81 27	Variable Flow Split-System Heat Pump, Branch Controller and Fan Coil Units

DIVISION 26 ELECTRICAL

Section	26 01 00	Basic Electrical Requirements
Section	26 04 25	Distribution Switchboards
Section	26 05 00	Common Work Results for Electrical
Section	26 05 19	Low-Voltage Electrical Power Conductors and Cables
Section	26 05 26	Grounding and Bonding for Electrical Systems
Section	26 05 29	Hangers and Supports for Electrical Systems
Section	26 05 33	Raceway and Boxes for Electrical Systems
Section	26 05 48	Vibration and Seismic Controls for Electrical Systems
Section	26 05 53	Identification for Electrical Systems
Section	26 05 72	Acceptance Testing
Section	26 27 26	Wiring Devices
Section	26 51 19	LED Interior Lighting
Section	26 56 19	LED Exterior Lighting

DIVISION 27 COMMUNICATIONS

Section	27 00 00	General Communications Requirements
Section	27 05 26	Grounding and Bonding for Communications Systems
Section	27 05 28	Pathways for Communications Systems
Section	27 08 00	Commissioning of Communications Systems

2023005	ALTADENA MAIN LIBRARY	08.15.2025
	ALTADENA LIBRARY DISTRICT	10.28.2025

Section	27 11 00	Communications Equipment Room Fittings
Section	27 13 00	Communications Backbone Cabling
Section	27 15 00	Communications Horizontal Cabling
Section	27 41 16	AV Systems
Section	27 51 26	Assistive Listening Systems
DIVISION 28	ELECTRONIC SAFETY AND SECURITY	
Section	28 16 00	Intrusion Alarm System
Section	28 31 11	Digital, Addressable Fire-Alarm System
DIVISION 31	EARTHWORK	
Section	31 10 00	Site Clearing
Section	31 22 00	Grading
Section	31 23 13	Excavation Fill
Section	31 23 16	Excavation and Fill for Paving
Section	31 23 23	Excavation and Fill for Utilities
Section	31 23 26	Base Course
DIVISION 32	EXTERIOR IMPROVEMENTS	
Section	32 12 16	Asphalt Paving
Section	32 12 36	Seal Bituminous Surfacing
Section	32 13 13	Site Concrete Work
Section	32 14 13	Precast Concrete Unit Paving
Section	32 84 00	Planting Irrigation
Section	32 90 00	Planting
DIVISION 33	UTILITIES	
Section	33 11 00	Site Water Distribution Utilities
Section	33 40 00	Storm Drainage Utilities

END TABLE OF CONTENTS

SECTION 01 21 00 - ALLOWANCES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements governing allowances.
- B. Types of allowances include the following:
 - 1. Contingency allowances.

1.2 DEFINITIONS

- A. Allowance: A quantity of work or dollar amount included in the Contract, established in lieu of additional requirements, used to defer selection of actual materials and equipment to a later date when direction will be provided to Contractor. If necessary, additional requirements will be issued by Change Order.

1.3 SELECTION AND PURCHASE

- A. At the earliest practical date after award of the Contract, advise Architect of the date when final selection, or purchase and delivery, of each product or system described by an allowance must be completed by the Owner to avoid delaying the Work.
- B. At Architect's request, obtain proposals for each allowance for use in making final selections. Include recommendations that are relevant to performing the Work.
- C. Purchase products and systems selected by Architect from the designated supplier.

1.4 ACTION SUBMITTALS

- A. Change Order Proposal: For purchase of products or systems included in the allowances as specified in Section 01 26 00 "Contract Modification Procedures."

1.5 INFORMATIONAL SUBMITTALS

- A. Submit invoices or delivery slips to show actual quantities of materials delivered to the site for use in fulfillment of each allowance.
- B. Submit time sheets and other documentation to show labor time and cost for installation of allowance items that include installation as part of the allowance.
- C. Coordinate and process submittals for allowance items in same manner as for other portions of the Work.

1.6 CONTINGENCY ALLOWANCES

- A. Use the contingency allowance only as directed by Architect for Owner's purposes and only by Change Orders that indicate amounts to be charged to the allowance.
- B. Contractor's overhead, profit, and related costs for products and equipment ordered by Owner under the contingency allowance are included in the allowance and are not part of the Contract Sum. These costs include delivery, installation, taxes, insurance, equipment rental, and similar costs.
- C. Change Orders authorizing use of funds from the contingency allowance will include Contractor's related costs and reasonable overhead and profit.
- D. At Project closeout, credit unused amounts remaining in the contingency allowance to Owner by Change Order.

1.7 TESTING AND INSPECTING ALLOWANCES

- A. Testing and inspecting allowances include the cost of engaging testing agencies, actual tests and inspections, and reporting results.
- B. The allowance does not include incidental labor required to assist the testing agency or costs for retesting if previous tests and inspections result in failure. The cost for incidental labor to assist the testing agency shall be included in the Contract Sum.
- C. Costs of testing and inspection services not specifically required by the Contract Documents are Contractor responsibilities and are not included in the allowance.
- D. At Project closeout, credit unused amounts remaining in the testing and inspecting allowance to Owner by Change Order.

1.8 ADJUSTMENT OF ALLOWANCES

- A. Allowance Adjustment: To adjust allowance amounts, prepare a Change Order proposal based on the difference between purchase amount and the allowance, multiplied by final measurement of work-in-place where applicable. If applicable, include reasonable allowances for cutting losses, tolerances, mixing wastes, normal product imperfections, required maintenance materials, and similar margins.
 - 1. Include installation costs in purchase amount only where indicated as part of the allowance.
 - 2. If requested, prepare explanation and documentation to substantiate distribution of overhead costs and other markups.
 - 3. Submit substantiation of a change in scope of Work, if any, claimed in Change Orders related to unit-cost allowances.
 - 4. Owner reserves the right to establish the quantity of work-in-place by independent quantity survey, measure, or count.
- B. Submit claims for increased costs due to a change in the scope or nature of the allowance described in the Contract Documents, whether for the purchase order amount or Contractor's handling, labor, installation, overhead, and profit.
 - 1. Do not include Contractor's or subcontractor's indirect expense in the Change Order cost amount unless it is clearly shown that the nature or extent of Work has changed from what could have been foreseen from information in the Contract Documents.
 - 2. No change to Contractor's indirect expense is permitted for selection of higher- or

lower-priced materials or systems of the same scope and nature as originally indicated.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

3.1 SCHEDULE OF ALLOWANCES

A. Contingency Allowances:

1. Allowance No. 1: Include the sum of \$475,000. Contingency Allowance to be used for the following, as needed:
 - a. Masonry restoration and cleaning.
 - b. Exterior plaster repair.
 - c. Moisture control at concrete slab.
 - d. Plywood sheathing replacement.
 - e. Chase replacement.
 - f. Existing wet insulation removal and replacement with new insulation, R-Value as indicated or as required for assembly.
 - g. Existing deteriorated metal roof deck removal and replacement with new metal roof deck as indicated in Structural Drawings or directed by EOR.
 - h. Existing deteriorated wood nailers and curbs removal and replacement with new wood nailers and curbs.
 - i. Existing deteriorated parapet wall sheathing removal and replacement with new sheathing.
 - j. Unforeseen work not indicated above, at the Owner's discretion.

END OF SECTION 01 21 00

SECTION 01 23 00 – ALTERNATES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes administrative and procedural requirements for Alternates.
- B. Related Sections: Sections referenced in Schedule of Alternates contain requirements necessary to achieve the Work described under each Alternate.
- C. Alternate: An amount proposed by Proposer and stated in required Proposal submittals, to be added to or deducted from the stipulated sum for the Work amount when the Owner elects to implement the Scope of Work represented by the corresponding alternate as defined by the Contract Documents and including miscellaneous devices, appurtenances and accessories necessary and required for a complete installation regardless of whether specifically mentioned as part of the alternate.
 - 1. Alternate Amounts: Valid for 90 days from the submittal due date, and the Owner shall have the right to modify the Contract in accordance with the requirements for each and any Alternate at the amount quoted during that period.
 - 2. No adjustment to Contract Time will be made on the basis of acceptance or rejection of any Alternate(s).
- D. Submittals: Notification of status of Alternates, accepted, rejected and deferred for later consideration; include description of accepted alternates effect on related and adjacent Work, and negotiated modifications to Alternates.
- E. Sequencing and Scheduling: Modify and adjust adjacent work as required to ensure that work effected by each accepted Alternate is complete and fully integrated into the project.

PART 2 - PRODUCTS - Not Used

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

- A. Provide the work of each Alternate as identified herein and as required by the Contract documents. There shall be no change in the Contract Time nor required completion date for incorporation of any Alternate. Adjustments shall be limited to the sum indicated.
 - 1. Alternate 1, AD1: Provide all new work for Mariposa North Patio and Sliding Doors. [See Sheet A201.](#)
 - 2. Alternate 2, AD2: -Provide all new work for Meeting Room Addition. See Sheets [A201, and A221.](#)
 - 3. [Alternate 3, AD3: Provide Children's Area Ceiling. See Sheet A221.](#)
 - 3.4. [Alternate 4, AD4: Alternate design for North Amphitheater. See Sheet L101.](#)

END OF SECTION

2023005	ALTADENA MAIN LIBRARY ALTADENA LIBRARY DISTRICT	08.15.2025 10.28.2025
	BID SET – ADDENDUM 06	

SECTION 01 26 00 - CONTRACT MODIFICATION PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for handling and processing Contract modifications.
- B. Related Requirements:
 - 1. Section 01 25 00 Substitution Procedures for administrative procedures for handling requests for substitutions made after the Contract award.

1.2 DEFINITIONS

- A. Changes in the Work: After the execution of the Contract, and without invalidating the Contract by the following methods Change Order, Construction Change Directive, or Supplemental Instruction, subject to the limitations established in the Contract and in this section.
- B. Reason Codes: All change documents prepared by the Architect will be issued ~~to~~ with a defined reason code identifying the ~~y~~ reason for the change to the documents.
 - 1. Reason Codes:
 - a. Scope Revision.
 - b. Unforeseeable Condition.
 - c. Fast-Track Driven.
 - d. Jurisdictional Agency.
 - e. Builder (GC, CM, DB).
 - f. Design Errors.
 - g. Design Omissions.

1.3 ARCHITECT INITIATED CONTRACT MODIFICATIONS

- A. Supplemental Instructions (SI): Architect will issue Supplemental Instructions (SI) authorizing minor changes in the Work, not involving adjustment to the Contract Sum or the Contract Time.
 - 1. Proceeding with the SI confirms agreement with the Architect's determination that the proposed changes do not involve adjustment to the Contract Sum or the Contract Time.
 - 2. If the Contractor believes the information provided in the SI involves an adjustment to the Contract Sum or the Contract Time, notify the Architect within three days of receipt and proceed with submitting a Change Order Proposal.
- B. Proposal Request (PR): 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. Proposal Requests issued by Architect are not instructions either to stop work in progress or to execute the proposed change.

1.4 CONTRACTOR INITIATED CONTRACT MODIFICATIONS

- A. Change Order Proposal (COP): Submit a Change Order Proposal to the Architect for the following conditions:
 - 1. Contractor Initiated Proposals.
 - 2. Proposal Request Response.
 - 3. Administrative Change Orders.

- B. Change Order Proposal Forms: Use form attached to this Section.
 - 1. Change Order Proposals not including this form will be returned not reviewed.
 - 2. Summary Form: Summary Form shall include total cost of change order proposal.
 - a. Contractor Contingencies: Identify where costs allocated to Contractor and indicate reserved contingency after Change Order Proposal.
 - b. Owner Contingencies: Identify where costs allocated to Owner Contingency and indicate reserved contingency after Change Order Proposal.
 - c. Value-Added /Non-Value-Added Costs Breakdown:
 - 1) COP Summary: List Value-Added Costs and Non-Value-Added Costs.
 - 2) Value-Added Costs: Costs that would have incurred should the work have been included in the original contract documents.
 - 3) Non-Value-Added Costs: Costs that are included in the Change Order proposal for doing or bidding the work at the time the change is identified.
 - 4) Example: The omission of a door and frame.
 - a) Value Added Costs: The cost to provide the door if it was in the original contract. Including the cost of the door, frame and hardware, wiring of the door hardware, and labor to install.
 - b) Non-Value-Added Costs: Demolition work associated with providing the door and frame, reframing the wall to install the door and frame, additional shipping costs if discovered after door shipment, mark-up associated with Change Proposal if not Cost+ Contract.

- 3. Submit original Subcontractor Back-Up Information:
 - a. Material take-offs on contract drawings and/or Proposal Request documents:
 - 1) Itemized analysis of quantity of material additions.
 - 2) Itemized analysis of quantity of material reductions.
 - b. Material quotes and invoices:
 - 1) Itemized analysis of material costs.
 - 2) Itemized analysis of material credits.
 - c. Equipment quotes and invoices:
 - 1) Itemized analysis of analysis of Equipment costs.
 - 2) Itemized analysis of analysis of Equipment credits.
 - d. Labor Costs:
 - 1) Itemized analysis of analysis of Labor costs.
 - 2) Itemized analysis of analysis of Labor credits.
 - a) Additional charges for Supervision will not be allowed unless Construction Schedule is modified, or overtime is required as part of Change Order Proposal.

- e. Indicate applicable taxes, delivery charges, and amounts of trade discounts.
- 4. Updated Construction Schedule: Indicate the effect of the change, including, but not limited to:
 - a. Changes in activity duration.
 - b. Changes to start and finish times, and activity relationships.
 - c. Provide an analysis of using available float versus an extension of Contract Time.
- 5. Incomplete Change Order Proposals will be returned without review for revision to conform to the requirements.
 - a. Failure to conform to the requirements creating a delay in review shall not be the basis for additional Contract Sum or additional Contract Time.
- C. Contractor Initiated Proposals:
 - 1. RFI Response: After notification to the Architect, submit a Change Order Proposal within fifteen days.
 - 2. Supplemental Instructions: After notification to the Architect, submit a Change Order Proposal within fifteen days.
 - 3. Latent or Changed Conditions: Notify the Architect immediately when conditions are found, submit a Change Order Proposal within fifteen days.
 - a. In addition to requirements stipulated in the Change Order Proposal Form provide the following:
 - 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.
 - 2) If the proposed change requires substitution of one product or system for product or system specified comply with requirements in Section 01 25 00 "Substitution Procedures."
 - 4. Delay Claims: Notify the Owner and Architect immediately when conditions are found, but no later than within ten days of delay event.
 - a. In addition to requirements stipulated in Change Order Proposal Form, provide the following:
 - 1) Include documentation of delay origin and impact on the critical path.
 - b. Delay Claims based on the requirements to furnish drawings, specifications, or instructions, or to return submittals will be rejected when the Architect is in compliance with the procedures specified in Section 01 33 00 "Submittal Procedures."
- D. Proposal Request Response: Submit a Change Order Proposal within fifteen days.
- E. Administrative Change Orders:
 - 1. Allowance Adjustment: Prior to substantial completion issue an administrative change order to refund allowance reserves.
 - a. Itemize each allowance reserve refunded.
 - b. Included Itemized list of Proposal Requests that charged against the allowance and amount charged by each.

1.5 CHANGE ORDER PROCEDURES

- A. On Owner's approval of a Change Order Proposal, issue a Change Order for Owner's and Architect's signatures and proceed promptly with the work.
- B. On Owner's approval of a Change Order Proposal, the Architect will issue a Change Order for Owner's and Contractor's signatures and proceed promptly with the work.
 - 1. All change orders that materially affect the work, shall require AHJ approval. Architect will submit Change Order to AHJ for approval prior to Owner approval.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)~~3.1 ATTACHMENTS~~

- ~~A. 01 26 00.1 Change Order Proposal (COP) Summary Forms~~
- ~~B. 01 26 00.2 Supplemental Instructions~~
- ~~C. 01 26 00.3 Proposal Request Template~~
- ~~D. 01 26 00.4 Construction Change Directive~~

END OF SECTION

SECTION 01 31 00 - PROJECT MANAGEMENT AND COORDINATION

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative provisions for coordinating construction operations on Project, including, but not limited to, the following:
 - 1. General coordination procedures.
 - 2. Coordination drawings.
 - 3. RFIs.
 - 4. Project meetings.
- B. Related Requirements:
 - 1. Section 01 32 00 Construction Progress Documentation for preparing and submitting Contractor's construction schedule.
 - 2. Section 0 73 00 Execution for procedures for coordinating general installation and field engineering services, including establishment of benchmarks and control points.
 - 3. Section 01 77 00 Closeout Procedures for coordinating closeout of the Contract.

1.2 DEFINITIONS

- A. BIM: Building Information Modeling.
- B. RFI: Request for Information. Request from Owner, Architect, or Contractor seeking information required by or clarifications of the Contract Documents.
 - 1. A document submitted by the Contractor seeking interpretation or clarification of the Contract Documents.
 - 2. A properly prepared request for information or interpretation shall include a detailed written statement that indicates the specific Drawing(s) or Specification(s) in need of clarification and the nature of the clarification requested.
 - a. Drawings shall be identified by Drawing number, Drawing Sheet and location.
 - b. Specifications shall be identified by Section number, page and paragraph.
 - c. Requests for information: Request made by Contractor concerning information not indicated on Drawings nor contained in Project Manual that is required to properly perform the work.
 - d. Requests for Interpretation: Request made by Contractor in accordance with the Contract for construction.
- C. Improper RFIs:
 - 1. RFIs that are not properly prepared.
 - 2. Improper RFI's will be rejected by the Architect. The Contractor will be notified by the Architect upon rejection of improper RFIs.
- D. Frivolous RFIs:
 - 1. RFIs which request information that is clearly shown on the Contract Documents as determined by Architect.
 - a. Contractor is responsible to review all coordination questions and relay information within the documents to subcontractors, vendors, and/or suppliers.

2. The Contractor may be assessed \$100.00 for each frivolous RFI during Project Closeout.
- E. Neither improper nor frivolous RFIs will be allowed as basis for Change Orders claiming additional costs and/or time extensions. Superintendent: Represents the Contractor with any the necessary assistants who are in attendance at the Project site during the performance of the work.

1.3 INFORMATIONAL SUBMITTALS

- A. Subcontract List: Prepare a written summary identifying individuals or firms proposed for each portion of the Work, including those who are to furnish products or equipment fabricated to a special design. Include the following information in tabular form:
 1. Name, address, telephone number, and email address of entity performing subcontract or supplying products.
 2. Number and title of related Specification Section(s) covered by subcontract.
 3. Drawing number and detail references, as appropriate, covered by subcontract.
- B. Key Personnel Names: Within 15 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, cellular telephone numbers, and e-mail addresses. Provide names, addresses, and telephone numbers of individuals assigned as alternates in the absence of individuals assigned to Project.
 1. Objection to the Superintendent: Within 14 days of receipt of the information, the Owner, through the Architect will notify the Contractor, stating the reasonable objection to the proposed superintendent or if the Owner requires additional time for review.
 2. Do not employ any individual to whom the Owner or Architect has made reasonable and timely objection.
 3. Do not change the superintendent without the Owner's consent.

1.4 GENERAL 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.
 4. Where availability of space is limited, coordinate installation of different components to ensure maximum performance and accessibility of required maintenance, service, and repair of all components, including mechanical and electrical.
- B. Concealed or Unknown Conditions: If conditions are encountered which are subsurface or otherwise concealed or unknown physical conditions of an unusual nature are found to exist proceed as follows:

1. Promptly provide notice to the Owner and the Architect before conditions are disturbed and in no event later than fourteen days after first observance of the conditions.
 2. The Owner and the Architect will review the conditions:
 - a. If the Owner and the Architect determines cause for an increase or decrease in the Contract Sum or Contract Time, submit a Change Order Proposal as specified in Section 01 26 00 "Contract Modification Procedures."
 - b. If the Owner and the Architect determines that the condition does not change the Contract Sum or Contract Time, the Architect will promptly notify the Owner and Contractor, stating the reasons.
 3. If the Contractor disputes the Owner and the Architect's determination, submit a Change Order Proposal as specified in Section 01 26 00 "Contract Modification Procedures."
- C. Priority of Construction Space:
1. Coordinate installation of different components to ensure performance and accessibility for required maintenance, service, and repair of components, including mechanical and electrical.
 2. Following is the Order of Priority of Construction Space:
 - a. First: Ductwork.
 - b. Second: Fire protection piping.
 - c. Third: Other piping.
 - d. Fourth: Conduit.
- D. 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.
- E. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities and scheduled activities of other contractors 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. Project closeout activities.
 8. Startup and adjustment of systems.
- F. 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.

1.5 COORDINATION DRAWINGS

- A. Coordination Drawings, General: Prepare coordination drawings according to requirements in individual Sections, and additionally where installation is not completely indicated 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.
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 or reproductions of the Contract Documents which in their original, copied, or electronic file form are the Architect's instrument of service and are protected under copyright laws. 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 coordination drawings 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 Drawings. Specifically note dimensions that appear to be in conflict with submitted equipment and minimum clearance requirements. Provide alternative sketches to Architect indicating proposed resolution of such conflicts. Minor dimension changes and difficult installations will not be considered changes to the Contract.
- B. Trade Coordination:
1. Drawings contain diagrammatic layouts and indicate general arrangement of systems, piping conduit, etc.
 2. Prior to installation of material and equipment, review and coordinate Work with Architectural and Structural Contract Documents for exact space conditions; where not readily discernable, request information from Architect before proceeding.
 3. Check Contract Documents of other trades to verify extent of material and equipment to be installed in spaces available and consider layout alternatives so that all requirements can be accommodated.
 4. Maintain maximum headroom at locations without finished ceilings.
 5. Maintain finished ceiling heights as indicated.
 6. Coordinate installations with other trades to prevent conflict with Work of other trades and cooperate in making reasonable modifications in layout as needed.
- C. Coordination Drawing Organization: Organize coordination drawings as follows:
1. Floor Plans and Reflected Ceiling Plans: Show architectural and structural elements, and mechanical, plumbing, fire-protection, fire-alarm, and electrical Work. Show locations of visible ceiling-mounted devices relative to acoustical ceiling grid. Supplement plan drawings with section drawings where required to adequately represent the Work.
 2. Plenum Space: Indicate subframing for support of ceiling and wall systems, mechanical and electrical equipment, and related Work. Locate components within

2023005

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08.15.2025

10.28.2025BID SET – ADDENDUM 06

- plenums to accommodate layout of light fixtures and other components indicated on Drawings. Indicate areas of conflict between light fixtures and other components.
3. Mechanical Rooms: Provide coordination drawings for mechanical rooms, showing plans and elevations of mechanical, plumbing, fire-protection, fire-alarm, and electrical equipment.
 4. Structural Penetrations: Indicate penetrations and openings required for other disciplines.
 5. Slab Edge and Embedded Items: Indicate slab edge locations and sizes and locations of embedded items for metal fabrications, sleeves, anchor bolts, bearing plates, angles, door floor closers, slab depressions for floor finishes, curbs and housekeeping pads, and similar items.
 6. Mechanical and Plumbing Work: Show the following:
 - a. Sizes and bottom elevations of ductwork, piping, and conduit runs, including insulation, bracing, flanges, and support systems.
 - b. Dimensions of major components, such as dampers, valves, diffusers, access doors, cleanouts and electrical distribution equipment.
 - c. Fire-rated enclosures around ductwork.
 7. Electrical Work: Show the following:
 - a. Runs of vertical and horizontal conduit **1-1/4 inches (32 mm)** in diameter and larger.
 - b. Runs of vertical and horizontal conduit less than **1-1/4 inches (32 mm)** in diameter when in groups of 10 or more conduits.
 - c. Light fixture, exit light, emergency battery pack, smoke detector, and other fire-alarm locations.
 - d. Panel board, switchboard, switchgear, transformer, busway, generator, and motor-control center locations.
 - e. Location of pull boxes and junction boxes, dimensioned from column center lines.
 8. Fire-Protection System: Show the following:
 - a. Locations of standpipes, mains piping, branch lines, pipe drops, and sprinkler heads.
 9. Minimum Head Clearance: Provide the bottom elevations of the lowest piping, ductwork, or electrical conduits to confirm clearance.
 10. Review: Architect will review coordination drawings to confirm that, in general, the Work is being coordinated, but not for the details of the coordination, which are Contractor's responsibility. If Architect determines that coordination drawings are not being prepared in sufficient scope or detail, or are otherwise deficient, Architect will so inform Contractor, who shall make suitable modifications and resubmit.
 11. Coordination Drawing Submittal: Submit coordination drawings electronically according to requirements in Section 01 33 00 "Submittal Procedures."
- D. Coordination Digital Data Files: Prepare coordination digital data files according to the following requirements:
1. File Preparation Format: Same digital data software program, version, and operating system as original Drawings.
 2. File Submittal Format: Submit or post coordination drawing files using 3D Portable Data File (PDF) format.
 3. Architect will furnish Contractor one set of digital data files of Drawings for use in preparing coordination digital files ~~as specified in related Section 01-11-50 Electronic Drawings.~~

2023005

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ALTADENA LIBRARY DISTRICT08.15.2025
10.28.2025BID SET – ADDENDUM 06

- a. Architect makes no representations as to the accuracy or completeness of digital data files as the related to Drawings.
- b. Digital Data Software Program: Drawings are available in AutoCAD format.
- c. Contractor shall execute a data licensing agreement in the form of Agreement included in this Project Manual or an Agreement form acceptable to Owner and Architect.

1.6 ADMINISTRATIVE AND SUPERVISORY PERSONNEL

- A. General: In addition to Project Superintendent, provide other administrative and supervisory personnel as required for proper performance of the Work.
 1. Include special personnel required for coordination of operations with other contractors.
- B. Key Personnel Names: Within 15 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 names, addresses, and telephone numbers of individuals assigned as standbys in the absence of individuals assigned to the 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.

1.7 REQUEST FOR INFORMATION (RFI)

- A. Prior to submitting each RFI, first carefully study and compare the Contract Documents, field conditions, other Owner provided information, Contractor prepared Coordination Drawings, and prior Project correspondence and documentation to determine that the information to be requested is not reasonably obtainable from such sources.
- B. Immediately on discovery of the need for additional information, clarification, or interpretation of the Contract Documents, prepare and submit an RFI.
- C. Email each RFI as a PDF electronic file to the Architect and copy the Owner..
- D. Submit each RFI sufficiently in advance of the date by which such information is required to maintain the latest construction schedule.
 1. Clearly identify the required response time and if the item is critical and requires an expedited review.
 2. RFI Item Number: Each RFI should be provided a unique sequential number in three-digit format; such as -001, -002, etc.; this number stays constant on each revision.
 3. RFI Revision Number: Each RFI revision should be given a unique sequential number in two-digit format; such as -00, 01, -02, etc.; with -00 as the original RFI.
- E. RFI Content: Include a detailed, legible description of item needing information or interpretation and the following:
 1. Project name.
 2. Owner name.
 3. Owner's Project number.
 4. Name of Architect.
 5. Date.
 6. Name of Contractor.
 7. RFI number, numbered sequentially.

2023005

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ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

8. RFI subject.
 9. Referenced specification section number(s) and title and related paragraphs, as appropriate.
 10. Referenced drawing number(s) and detail(s) references, as appropriate.
 11. Field dimensions and conditions, as appropriate.
 12. Primary Discipline of RFI, based on the following:
 - a. Architectural.
 - b. Structural.
 - c. Mechanical.
 - d. Electrical.
 - e. Plumbing.
 - f. Fire Protection.
 - g. Lighting.
 - h. AV/Telecom.
 - i. Civil.
 - j. Landscape.
 - k. Other.
 13. Indicate if an expedited review is requested.
 14. Contractor's suggested resolution.
 - a. If Contractor's suggested resolution impacts the Contract Time or the Contract Sum, Contractor shall state impact in the RFI.
 15. Contractor's signature.
 16. 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.
- F. RFI Forms: Utilize the form bound in Project Manual or software-generated form with substantially the same content as indicated above, acceptable to Architect, submitted by electronic mail (e-mail).
1. Identify each page with the RFI number and sequential page number.
 2. Provide attachments for software-generated forms in Adobe Acrobat PDF format.
- G. Contractor shall endeavor to keep the number of RFIs to a minimum.
- H. RFIs shall be originated by the Contractor.
1. RFIs from subcontractors or material suppliers shall be submitted through, reviewed by and signed by the Contractor prior to submittal to the Architect and Construction Manager.
 2. RFIs from subcontractors or material suppliers sent directly to the Construction Manager of Architect, or to the Architects consultants, shall not be accepted and will be returned unanswered.
- I. Contractor shall carefully study the Contract Documents to assure that the requested information is not available therein.
1. RFI's that request information available in the Contract Documents will be deemed either 'improper' or 'frivolous' as noted above.

- J. In instances of RFIs issued requesting a 'coordination issue' clarification, Contractor shall include a proposed solution, using drawings or sketches drawn to scale, or photographs annotated to illustrate proposed intent.
1. RFI's that request information available in the Contract Documents will be deemed either 'improper' or 'frivolous' as noted above.
- K. Architect's Action: Architect will review each RFI, determine action required, and respond. Allow five 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.
1. Architect will endeavor to return expedited review requests.
 2. The following Contractor-generated 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.
 3. Architect's action may include a request for additional information, in which case Architect's time for response will date from time of receipt by Architect of additional information.
 4. Frivolous RFIs: The Contractor may be invoiced by the Owner for any costs incurred for professional services, which shall be deducted from the next progress payment, for each RFI requesting an interpretation or decision of a matter where the information sought is equally available to the party making such request, or as otherwise defined in this section as frivolous.
 - 1) Architect will not be responsible for entering information in the Contractor's construction administration system.
- L. RFI Log: Prepare, maintain, and submit a tabular log of RFIs organized by the RFI number. Submit log weekly. Include items from "RFI Content" paragraph above.
- M. 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 seven days if Contractor disagrees with response.

1.8 DIGITAL PROJECT MANAGEMENT PROCEDURES

- A. Use of Architect's Digital Data Files: Digital data files of Architect's BIM model will be provided by Architect to the Owner for Contractor's use during construction.
1. Upon Contractor's execution of Digital Data Transfer agreement acceptable to the Architect and Owner, Owner will furnish Contractor one (1) set of Digital Data of Drawings for use in preparing coordination Digital Data files.
 - a. Subcontractors and other parties granted access by Contractor to Architect's digital data files shall execute a data licensing agreement in the form of Agreement acceptable to Owner and Architect.
 2. Digital Data may be used by Contractor to incorporate additional Digital Data without modifying data received while preparing Coordination Drawings and Shop Drawings.
 3. Digital Data may be used and modified by the Contractor as required to fulfill obligations for delivery of the Project Record Drawings.

4. Architect makes no representations as to the accuracy or completeness of Digital Data files as they relate to Contract Drawings, as such, only the Architect's stamped Construction Documents shall be utilized and relied upon for construction purposes.
- B. PDF Document Preparation: Where PDFs are required to be submitted to Architect, prepare as follows:
1. Assemble complete submittal package into a single, indexed file, incorporating submittal requirements of a single Specification Section and transmittal form with links enabling navigation to each item.
 2. Name file with Submittal number or other unique identifier, including revision identifier.
 3. Certifications: Where digitally submitted certificates and certifications are required, provide a digital signature with digital certificate where indicated.
- C. Web-Based Project Management Software Package: Provide, administer, and use web-based Project management software package for purposes of hosting and managing Project communication and documentation until Final Completion.
1. Web-based Project management software includes, at a minimum, the following features:
 - a. Compilation of Project data, including Contractor, subcontractors, Architect, Architect's consultants, Owner, and other entities involved in Project. Include names of individuals and contact information.
 - b. Access control for each entity for each workflow process, to determine entity's digital rights to create, modify, view, and print documents.
 - c. Document workflow planning, allowing customization of workflow between project entities.
 - d. Creation, logging, tracking, and notification for Project communications required in other Specification Sections, including, but not limited to, RFIs, submittals, Minor Changes in the Work, Construction Change Directives, and Change Orders.
 - e. Track status of each Project communication in real time, and log time and date when responses are provided.
 - f. Procedures for handling PDFs or similar file formats, allowing markups by each entity. Provide security features to lock markups against changes once submitted.
 - g. Processing and tracking of payment applications.
 - h. Processing and tracking of contract modifications.
 - i. Creating and distributing meeting minutes.
 - j. Document management for Drawings, Specifications, and coordination drawings, including revision control.
 - k. Management of construction progress photographs.
 - l. Mobile device compatibility, including smartphones and tablets.
 2. Provide up to seven Project management software user licenses for use of Owner, Architect, and Architect's consultants. Provide eight hours of software training for web-based Project software users.
 3. At completion of Project, provide digital archive in format that is readable by common desktop software applications in format acceptable to Architect and Owner. Provide data in locked format to prevent further changes.

1.9 ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS (ASI)

- A. An ASI is a written supplemental instruction issued and signed by the Architect for minor changes to the Work, without change in Contract Sum or Contract Time.

2023005

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ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025

BID SET – ADDENDUM 06

- B. Architect Authority:
1. The Architect has the authority to order minor changes in the Work not involving any adjustment to the Contract Sum, an extension of the Contract Time or a change which is inconsistent with the intent of the Contract Documents.
 2. The Contractor shall carry out such written orders promptly.

1.10 PROJECT MEETINGS

- A. General: Schedule and conduct meetings and conferences at Project site unless otherwise indicated.
1. Attendees: Inform participants and others involved, and individuals whose presence is required, of date and time of each meeting. Notify Owner and Architect of scheduled meeting dates and times a minimum of seven days prior to meeting.
 2. Agenda: Prepare the meeting agenda. Distribute the agenda to invited attendees.
 3. Minutes: Entity responsible for conducting meeting will record significant discussions and agreements achieved. Distribute the meeting minutes to everyone concerned, including Owner and Architect, within three days of the meeting.
- B. Preconstruction Conference: Conduct a preconstruction conference at the project site or a location and time convenient to the Owner and Architect, before starting construction, but no later than 15 days after execution of the Agreement.
1. Attendees: Authorized representatives of Owner Architect, and their consultants; Contractor and its superintendent; major subcontractors; suppliers; and other concerned parties shall attend the conference. Participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.
 2. Agenda: Discuss items of significance that could affect progress, including the following:
 - a. Tentative construction schedule.
 - b. Phasing.
 - c. Critical work sequencing and long lead items.
 - d. Designation of key personnel and their duties.
 - e. Lines of communications.
 - f. Use of web-based Project software.
 - g. Procedures for processing field decisions and Change Orders.
 - h. Procedures for RFIs.
 - i. Procedures for testing and inspecting.
 - j. Procedures for processing Applications for Payment.
 - k. Distribution of the Contract Documents.
 - l. Submittal procedures.
 - m. Preparation of Record Documents.
 - n. Use of the premises and existing building.
 - o. Work restrictions.
 - p. Working hours.
 - q. Owner's occupancy requirements.
 - r. Responsibility for temporary facilities and controls.
 - s. Procedures for moisture and mold control.
 - t. Procedures for disruptions and shutdowns.
 - u. Construction waste management and recycling.
 - v. Parking availability.
 - w. Office, work, and storage areas.
 - x. Equipment deliveries and priorities.
 - y. First aid.
 - z. Security.

- aa. Progress cleaning.
 - 3. Minutes: Entity responsible for conducting meeting will record and distribute meeting minutes.
- C. Preinstallation Conferences: Conduct a preinstallation conference at Project site before each construction activity when required by other Sections and when required for coordination with other construction.
- 1. Scheduling: Schedule preinstallation conferences on same day as progress meetings attended by Architect.
 - 2. Attendees: Installer 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 Architect of scheduled meeting dates.
 - 3. Agenda: Review progress of other construction activities and preparations for the particular activity under consideration, including requirements for the following:
 - a. Contract Documents.
 - b. Options.
 - c. Related RFIs.
 - d. Related Change Orders.
 - e. Purchases.
 - f. Deliveries.
 - g. Submittals.
 - h. Sustainable design requirements.
 - i. Review of mockups.
 - j. Possible conflicts.
 - k. Compatibility requirements.
 - l. Time schedules.
 - m. Weather limitations.
 - n. Manufacturer's written instructions.
 - o. Warranty requirements.
 - p. Compatibility of materials.
 - q. Acceptability of substrates.
 - r. Temporary facilities and controls.
 - s. Space and access limitations.
 - t. Regulations of authorities having jurisdiction.
 - u. Testing and inspecting requirements.
 - v. Installation procedures.
 - w. Coordination with other work.
 - x. Required performance results.
 - y. Protection of adjacent work.
 - z. Protection of construction and personnel.
 - 4. Record significant conference discussions, agreements, and disagreements, including required corrective measures and actions.
 - 5. Reporting: Distribute minutes of the meeting to each party present and to other parties requiring information.
 - 6. Do not proceed with installation if the conference cannot be successfully concluded. Initiate whatever actions are necessary to resolve impediments to performance of the Work and reconvene the conference at earliest feasible date.
- D. Project Closeout Conference: Conduct a project closeout conference, at a time convenient to Owner and Architect, but no later than 90 days prior to the scheduled date of Substantial Completion.

2023005

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08.15.2025

10.28.2025BID SET – ADDENDUM 06

1. Conduct the conference to review requirements and responsibilities related to Project closeout.
 2. Attendees: Authorized representatives of Owner, Owner's Commissioning Authority, Architect, and their consultants; Contractor and its superintendent; major subcontractors; suppliers; and other concerned parties shall attend the meeting. Participants at the meeting shall be familiar with Project and authorized to conclude matters relating to the Work.
 3. Agenda: Discuss items of significance that could affect or delay Project closeout, including the following:
 - a. Preparation of Record Documents.
 - b. Procedures required prior to inspection for Substantial Completion and for final inspection for acceptance.
 - c. Procedures for completing and archiving web-based Project software site data files.
 - d. Submittal of written warranties.
 - e. Requirements for preparing operations and maintenance data.
 - f. Requirements for delivery of material samples, attic stock, and spare parts.
 - g. Requirements for demonstration and training.
 - h. Preparation of Contractor's punch list.
 - i. Procedures for processing Applications for Payment at Substantial Completion and for final payment.
 - j. Submittal procedures.
 - k. Coordination of separate contracts.
 - l. Owner's partial occupancy requirements.
 - m. Installation of Owner's furniture, fixtures, and equipment.
 - n. Responsibility for removing temporary facilities and controls.
 4. Minutes: Entity conducting meeting will record and distribute meeting minutes.
- E. Progress Meetings: Conduct progress meetings at regular intervals.
1. Coordinate dates of meetings with preparation of payment requests.
 2. Attendees: In addition to representatives of Owner, Owner's Commissioning Authority and Architect, each contractor, 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. Participants at the meeting shall be familiar with Project and authorized to conclude matters relating to the Work.
 3. Agenda: Review and correct or approve minutes of previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to status of Project:
 - a. 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.
 - 1) Review schedule for next period.
 - b. Review present and future needs of each entity present, including the following:
 - 1) Interface requirements.
 - 2) Sequence of operations.
 - 3) Resolution of BIM component conflicts.

- 4) Status of submittals.
 - 5) Deliveries.
 - 6) Off-site fabrication.
 - 7) Access.
 - 8) Site use.
 - 9) Temporary facilities and controls.
 - 10) Progress cleaning.
 - 11) Quality and work standards.
 - 12) Status of correction of deficient items.
 - 13) Field observations.
 - 14) Status of RFIs.
 - 15) Status of Proposal Requests.
 - 16) Pending changes.
 - 17) Status of Change Orders.
 - 18) Pending claims and disputes.
 - 19) Documentation of information for payment requests.
4. Minutes: Entity responsible for conducting the meeting will record and distribute the meeting minutes to each party present and to parties requiring information.
- a. Schedule Updating: Revise Contractor's construction schedule after each progress meeting, where revisions to the schedule have been made or recognized. Issue revised schedule concurrently with the report of each meeting.

1.11 ARCHITECT'S ADMINISTRATION OF THE CONTRACT

- A. The Architect will provide administration of the Contract as the Owner's representative during construction until the date that the Architect certifies the Final Certificate for Payment.
- B. The Architect will visit the site at intervals appropriate to the stage of construction, or as otherwise agreed with the Owner, to become generally familiar with the progress and quality of the portion of the Work completed.
 1. To determine in general if the Work observed is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the Contract Documents.
 2. The Architect will not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the Work.
 3. The Architect will not have control over, charge of, or responsibility for the construction means, methods, techniques, sequences, or procedures, or for the safety precautions and programs in connection with the Work.
 4. The Architect will not be responsible for the Contractor's failure to perform the Work in accordance with the requirements of the Contract Documents
- C. Communications: Include the Architect in communications that relate to or affect the Architect's services or professional responsibilities.
 1. Communications by and with the Architect's consultants are through the Architect.
 2. Communications by and with Subcontractors and suppliers are through the Contractor.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 ATTACHMENTS

A. Request for Information (RFI) Form

END OF SECTION

SECTION 01 33 00 - SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes:
 - 1. Submittal schedule requirements.
 - 2. Administrative and procedural requirements for submittals.

1.2 WORK NOT INCLUDED

- A. Submittals which are not required will not be reviewed by the Architect.
- B. The Contractor may require subcontractors to provide drawings, setting diagrams or similar information as part of the coordination of the Work. The Architect will not review this data.
- C. Material Safety and Data Sheets (MSDS) – Limitation of Review: Certain Submittals required provision of these documents by the Contractor. These documents contain information necessary for operation of the facility. The Architect's review of these submittals is limited to noting inclusion of the document for the Owner's use. No further review or comment on MSDS documents by Architect shall be performed or inferred.

1.3 DEFINITIONS

- A. Action Submittals: Written and graphic information and physical samples that require Architect's responsive action. Action submittals are those submittals indicated in individual Specification Sections as "action submittals."
- B. Informational Submittals: Written and graphic information and physical samples that do not require Architect's responsive action. Submittals may be rejected for not complying with requirements. Informational submittals are those submittals indicated in individual Specification Sections as "informational submittals."
- C. Product Data: Illustrations, standard schedules, performance charts, instructions, brochures, diagrams, and other information furnished by the Contractor to illustrate materials or equipment for some portion of the Work.
- D. Samples: Physical examples that illustrate materials or workmanship, and establish standards by which the Work will be judged.
- E. Shop Drawings: Drawings, diagrams, schedules, and other data specially prepared for the Work by the Contractor or a Subcontractor, Sub-subcontractor, manufacturer, supplier, or distributor to illustrate some portion of the Work.

1.4 GENERAL REQUIREMENTS

- A. Shop Drawings, Product Data, Samples, and similar submittals are not Contract Documents. Their purpose is to demonstrate how the Contractor proposes to conform to the

information given and the design concept expressed in the Contract Documents for those portions of the Work for which the Contract Documents require submittals.

- B. Refer to Section 01 31 00 "Project Management and Coordination" for the use of Architect's Digital Data Files in the preparation of Shop drawings.
- C. Concurrent Submittals: Provide submittals for each specification section concurrently for delivery to Architect unless otherwise specified. Failure to concurrently submit may result in Architect returning submittals without review.
 - 1. Where calculations are required to be submitted, submit concurrently with the initial submittal.
- D. Accompany submittals with a completed Submittal Identification Sheet attached to this Section.
 - 1. Submittal Identification Sheet will be the cover sheet for each submittal.
 - 2. Submittals not including Submittal Identification Sheet will be returned as "Not Reviewed."
 - 3. If a Contractor proposes to use their own Transmittal Form in lieu of the Submittal Identification Sheet, the proposed Form must be reviewed by, and determined to be acceptable to, the Architect prior to submitting the first Submittal, and not include less than the information contained within the left side of the Submittal Identification Sheet.
- E. Submittals Provided for scope of Work not under Architect's Contract and Delegated Design: The project may require Architects review of submittals for Work prepared under the responsible charge of Design Professionals that are not under the Architect's contract.
 - 1. Provide submittals for work signed and stamped by such design professionals, licensed in the project's jurisdiction, for the Architect's review.
 - 2. Where calculations are required to be submitted, submit concurrently with the initial submittal. Submittals without the required calculations, will be returned without Architect's action.
 - 3. Architect's action will be limited to review for compliance with design concept and contract documents.

1.5 SUBMITTAL SCHEDULE

- A. General Requirements:
 - 1. The Architect may withhold action on submittals until the complete Initial Submittal List and Overall Submittal Schedule have been submitted and reviewed.
 - 2. Review of submittals without submission and approval of Initial Submittal List and Overall Submittal Schedule does not relieve Contractor of responsibility to provide Initial Submittal List and Overall Submittal Schedule for approval.
 - 3. Failure to submit either Initial Submittal List or Overall Submittal Schedule relieves Architect of constraints on review periods.
 - 4. Failure to submit an Initial Submittal List, the Overall Submittal Schedule, or to provide submittals in accordance with the Overall Submittal Schedule, will not entitle the Contractor to any increase in Contract Sum or extension of Contract Time.
 - 5. Architect may withhold review of Pay Applications until the complete Initial Submittal List and Overall Submittal Schedule have been submitted and approved.
 - 6. Architect may return submittals as unreviewed if received in advance of the dates indicated in the submittal schedule or those submittals which are not listed in the submittal schedule.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025

BID SET – ADDENDUM 06

- B. Initial Submittal List: Submit to Architect at earliest possible date, but no later than 15 days after Award of Contract, a list of submittals.
1. Format: Arrange the following information in a tabular format:
 - a. Specification Section number and title.
 - b. Identification of critical submittals requiring an expedited review process by the Architect.
 2. Architect's Action: Note any submittals required to be submitted concurrently for coordination during review.
 3. Owner's Action: Note any submittals required to be reviewed by Owner or Owner's Consultants.
- C. Overall Submittal Schedule: Submit to Architect concurrently with the Initial Submittal List, an overall submittal schedule, arranged in chronological order by dates required by the construction schedule.
1. Include time required for review, ordering, manufacturing, fabrication, and delivery when establishing dates.
 2. Include additional time required for making corrections or revisions to submittals noted by Architect and additional time for handling and reviewing submittals required by those corrections.
 3. Coordinate submittal schedule with list of subcontracts, the schedule of values, and Contractor's construction schedule.
 4. List those submittals required to maintain orderly progress of the Work and those required early due to long lead time for manufacture or fabrication.
 - a. Clearly identify those critical submittals that will require an expedited review process by the Architect.
 - b. Architect's Action: Approval of the list and timing of critical submittals in relationship to the overall submittal workflow and schedule.
 5. Align the submittal sequence to the anticipated sequence of construction.
 6. Format: Arrange the following information in a tabular format:
 - a. Scheduled date for first submittal.
 - b. Specification Section number and title.
 - c. Submittal Category: Action; informational.
 - d. Name of subcontractor.
 - e. Description of the Work covered.
 - f. Scheduled date for Architect's final release or review.
 - g. Scheduled dates for purchasing.
 - h. Scheduled date of fabrication.
 - i. Scheduled dates for installation.
 - j. Activity or event number.
- D. Three-Month Look Ahead Submittal Schedule: Submit as an informational submittal, in conjunction with each Pay Application, a detailed submittal schedule covering the next three-month time period, to reflect changes in status and timing for submittals.
1. Pay Applications will not be reviewed without concurrent submission of three-Month Look Ahead submittal schedule.
 2. Successive three-month look ahead submittal schedules are a revision of the original submittal.
 3. Format: Same as Overall Submittal Schedule.
 4. Clearly identify those critical submittals that will require an expedited review process by the Architect.

1.6 SUBMITTAL PROCEDURES

- A. Provide submittals required by individual Specification Sections as follows:
1. Submittals: Email as PDF electronic files to the Owner and Architect.
 - a. Include project name and Submittal Identification Number in subject line of email.
 - b. Large File Transfer: For files too large for email, transmit using secure file transfer service site and submit transmittal via email to Architect as indicated above, indicating submittal has been uploaded to transfer service site.
 - c. Submittals received by Architect after 1:00 p.m. will be considered as received the following business day.
 2. Certificates and Certifications Submittals:
 - a. Provide a digital signature with digital certificate on electronically submitted certificates and certifications where indicated.
- B. Submittals: Identify and incorporate information in each electronic submittal file. Submittals which fail to conform to the file naming convention will be returned as "Not Reviewed."
1. Index or bookmark submittal for each unique submittal type.
 2. Name submittal files per the following protocol: ProjectIdentifierSpecificationSection-SubmittalItem-SubmittalRevision_SubmittalType-Optional Description.
 - a. Project Identifier: ABA Project number 2111010.
 - b. Separator: Provide underscore immediately after Project Identifier.
 - c. Specification Section Number: Only section numbers listed in the Project Manual are acceptable.
 - d. Submittal Item Number: Each item indicated in specification section as a submittal should be provided a unique sequential number in three-digit format, preceded by a dash, such as -001, -002, etc.; this number stays constant on a resubmittal.
 - e. Submittal Revision Number: Each submittal should be given a unique sequential revision number in two-character format, preceded by a dash, such as -R1, -R2, etc., which modifies the original number of -00.
 - f. Separator: Provide underscore immediately after Submittal Revision Number.
 - g. Submittal Type: Two-character submittal type identifier per schedule below:
 - 1) PD: Product Data
 - 2) SD: Shop Drawing
 - 3) DD: Delegated Design
 - 4) LD: Sustainable Design Submittal or LEED Submittal
 - 5) MW: Manufacturer's Warranty
 - 6) ER: Evaluation Reports
 - 7) PT: Product Lab Test Reports/Data
 - 8) FR: Field Test Report
 - 9) MS: Material Sample
 - 10) PC: Product Certification
 - 11) CC: Contractor Certification/Qualification
 - 12) IC: Installer Certification
 - 13) IN: Installation Certification
 - 14) QD: Qualification Data
 - 15) MI: Manufacturer's Installation Instructions
 - 16) OM: Operations and Maintenance Data/Manuals
 - 17) RD: Record Documents

- h. Optional Description: Up to 25-character optional description of the submittal, separated from the Submittal Type by a dash.
 - 1) Example: -Structural Steel Seq A.
- 3. Submittals that fail to conform to the file naming convention will be returned as "Not Reviewed."
- 4. Example of File Naming Protocol for submittals from Section 05 54 00:
 - a. Action Submittals:
 - 1) Product Data: "Project Identifier"_05 54 00-001-00_PD-CFMF.
 - 2) Shop Drawings: "Project Identifier"_05 54 00-003_SD-CFMF.
 - 3) Delegated-Design Submittal: "Project Identifier"_05 54 00-004-00_DD-CFMF-CFMF Delegated Design.
 - b. Informational Submittals:
 - 1) Welding Certificates: "Project Identifier"_05 54 00-005_IC-CFMF Welding Cert.
 - 2) Qualification Data: "Project Identifier"_05 54 00-006-R2_QD-CFMF Qual Data.
 - 3) Product Test Reports: "Project Identifier"_05 54 00-007-00_PT-CFMF Test Reports.
- C. Options: Identify options requiring selection by Architect.
- D. Deviations and Additional Information: On attached separate sheet, prepared on Contractor's letterhead, record relevant information, requests for data, revisions other than those requested by Architect on previous submittals, and deviations from requirements in Contract Documents, including minor variations and limitations. Include same identification information as related submittal.
 - 1. Deviations: Encircle or otherwise specifically identify deviations from Contract Documents on submittals.
- E. 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 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 transmittal of submittals for related parts of the Work specified in different Sections, so processing will not be delayed because of need to review submittals concurrently for coordination.
 - a. Architect will return a submittal as "Not Reviewed" on a submittal requiring coordination with other submittals until related submittals are received.
- F. Processing Time: Allow sufficient time for Architect's review of submittals as determined by Architect. After review and approval of submittal schedule, allow time for submittal review, including time for resubmittals, as follows. Time for review commences on Architect's receipt of submittal. Submittals received by Architect after 1:00 p.m. will be considered as received the following working day. 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.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

1. Initial Review: Allow 15 days for initial review of each submittal ~~except for critical submittals identified and agreed to by the Architect on the approved Submittal Schedule.~~ 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 15 days for review of each resubmittal, or as indicated by Architect on approved Submittal Schedule.
4. Sequential Review: Where sequential review of submittals by Architect's consultants, Owner, or other parties is indicated, allow 21 days for initial review of each submittal by Architect and one additional party and seven additional days for each additional party review required.
5. Concurrent Consultant Review: Where the Contract Documents indicate that submittals may be transmitted simultaneously to Architect and to Architect's consultants, allow 15 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.

a-6. Submittal review durations may exceed these minimum durations in the event that submittals are incomplete or otherwise deficient.

- G. 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 "No Exceptions Taken" or "Make Corrections Noted" and initialed by Architect.
- H. 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.
- I. Use for Construction: Retain complete copies of submittals on Project site. Use only final action submittals that are marked with approval notation from Architect's action stamp.

1.7 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 product specifications, including performance characteristics written to match specified terminology for ease of comparison.
 - b. Manufacturer's Instructions: Prepare written or published information that documents manufacturer's recommendations, guidelines, and procedures for installing or operating a product or equipment. Include name of product and name, address, and telephone number of manufacturer. Include the following, as applicable:
 - 1) Preparation of substrates.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025

BID SET – ADDENDUM 06

- 2) Required substrate tolerances.
 - 3) Sequence of installation or erection.
 - 4) Required installation tolerances.
 - 5) Required adjustments.
 - 6) Recommendations for cleaning and protection.
- c. Standard color charts.
 - d. Manufacturer's catalog cuts.
 - e. Wiring diagrams showing factory-installed wiring and controls.
 - f. Printed performance curves.
 - g. Operational range diagrams.
 - h. Mill reports.
 - i. Standard product operation and maintenance manuals.
 - j. Statement of compliance with specified referenced standards.
 - k. Testing by recognized testing agency.
 - l. Application of testing agency labels and seals.
 - m. Notation of coordination requirements.
 - n. Availability and delivery time information.
 - o. Clearances required to other construction, if not indicated on accompanying Shop Drawings.
 - p. Additional information as required by Specifications.
4. Submit Product Data before or concurrent with Samples.
 5. Submit Product Data as a PDF electronic file.
 6. Safety Data Sheets (SDS) and Material Safety Data Sheets (MSDS): Submit information directly to Owner; do not submit to Architect.
 - a. Architect will not review submittals containing SDS or MSDS sheets, unless otherwise required.
- B. Shop Drawings: Prepare Project-specific information, drawn accurately to scale.
1. Preparation: Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:
 - a. Dimensions.
 - b. Identification of products.
 - 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.
 - h. Additional information as required by Specifications.
 2. Do not include the phrase "by others," except when relating to materials, products or equipment not included in the Work of the Contract.
 3. Sheet Size: Except for templates, patterns, and similar full-size Drawings, submit Shop Drawings on sheet layouts of at least 8-1/2 by 11 inches (215 by 280 mm), but no larger than 30 by 42 inches (750 by 1067 mm).
 4. Submit Shop Drawings in the following format: PDF electronic file.
 5. Paper Submittals: Prepare submittals in paper form only when directed by Architect and prepare as required per "Submittal packaging" article.
 - a. For 8-1/2 by 11-inch (215.9 by 279.4 mm) shop drawings in excess of 20 pages, submit two (2) full size hard copies, in addition to the electronic PDF file. Architect will return only the annotated electronic PDF file.

- b. For 11 by 17-inch (279.4 by 431.8 mm) shop drawings in excess of 20 pages submit two (2) full size hard copies, in addition to the electronic PDF file. Architect will return only the annotated electronic PDF file.
 - c. For shop drawings larger than 11 by 17-inch (279.4 by 431.8 mm) format, submit two (2) full size hard copies, in addition to the electronic PDF file. Architect will return only the annotated electronic PDF file.
 - 6. Submittals will be clear and legible. The Architect reserves the right to reject in full any submittal due to illegibility, as determined solely by the Architect, without any impact to the allowed review time. Dimensions and text will be a minimum of 10-point font or 0.389 inches (9.88 mm) in height. Drawings not conforming to this requirement will be rejected without review.
- C. Coordination Drawings: Refer to Division 01 Section "Project Management and Coordination" for requirements for coordination drawings.
- D. Samples: Submit Samples for review of type, 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. Indicate name of firm or entity that prepared each submittal on label or title block.
 - b. Project name and submittal number.
 - c. Generic description of Sample.
 - d. Product name and name of manufacturer.
 - e. Sample source.
 - f. Number and title of applicable Specification Section.
 - g. Specification paragraph number and generic name of each item.
 - 3. Provide corresponding electronic submittal including "Submittal Identification Sheet," digital image file of the Sample concurrent with submission of physical sample.
 - a. Received date by Architect will correspond with receipt of physical submittal.
 - 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 two full set(s) 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

2023005

ALTADENA MAIN LIBRARY
 ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

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 sets of Samples. Architect will retain one Sample set; the remainder will be returned. The Contractor is required to retain one returned Sample set as a project control Sample.
 - 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 sets of paired units that show approximate limits of variations.
- 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. Certificates:
 1. Certificates and Certifications Submittals: Submit a statement that includes signature of entity responsible for preparing certification. Certificates and certifications will 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 AWS B2.1/B2.1M on AWS forms. Include names of firms and personnel certified.
- G. Test and Research Reports: Schedule tests and reports in accordance with Division 01 Section "Quality Requirements" and as follows:
 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 substrate preparation and primers required.
 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. Manufacturer's Field Reports: Prepare written information documenting factory-authorized service representative's tests and inspections. Include the following, as applicable:
 - a. Name, address, and telephone number of factory-authorized service representative making report.
 - b. Statement on condition of substrates and their acceptability for installation of product.
 - c. Statement that products at Project site comply with requirements.
 - d. Summary of installation procedures being followed, whether they comply with requirements and, if not, what corrective action was taken.
 - e. Results of operational and other tests and a statement of whether observed performance complies with requirements.
 - f. Statement whether conditions, products, and installation will affect warranty.
 - g. Other required items indicated in individual Specification Sections.
 7. Research/Evaluation 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.

1.8 CONTRACTOR'S REVIEW

- A. Action Submittals and Informational Submittals: Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Architect.
 1. Do not perform a portion of the Work for which the Contract Documents require submittals and review until the respective submittal has been approved by the Architect.
 2. Contractor to verify, prior to submission:
 - a. Field Measurements.
 - b. Field Construction Criteria.
 - c. Catalog Numbers and Similar Data.
 - d. Quantities.
 - e. Coordination with other requirements.
 3. Contractor's responsibility regarding errors and omissions in submittals is not relieved by Architect's review of submittals.

4. Contractor's responsibility regarding deviations in submittals from requirements of Contract Documents is not relieved by Architect's review of submittals, unless Architect gives written acceptance of specific deviations as approved by Owner.
 5. When work is directly related and involves more than one trade, coordinate submittal with other trades and submit under one cover.
 6. After a submittal has been submitted for review, no changes may be made to that Submittal other than changes resulting from review notes made by the Architect unless such changes are clearly identified and circled before being resubmitted. Any failure to comply with this requirement will nullify and invalidate the Architect's review.
- B. Approval Stamp: Stamp each Submittal Identification Form with Contractor's stamp certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.

1.9 ARCHITECT'S ACTION

- A. The Architect will review or take other appropriate action upon the Contractor's submittals, but only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents.
1. Review of submittals is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, which remain the responsibility of the Contractor.
- B. Action Submittals: Architect will review each submittal, make marks to indicate corrections or modifications required, and return it. Architect will indicate on "Submittal Identification Sheet" for each submittal to indicate action taken, as follows:
1. "Reviewed":
 - a. No further review of submittal is required.
 2. "Furnish as Corrected":
 - a. If Contractor complies with noted corrections, fabrication may proceed and resubmission is not required, unless otherwise noted.
 - b. If for any reason the Contractor cannot comply with the noted corrections, fabrication shall not proceed and Contractor shall resubmit, following procedures outlined hereinbefore.
 3. "Revise and Resubmit":
 - a. Contractor shall revise and resubmit for review. Fabrication shall not proceed.
 4. "Rejected":
 - a. Submittal is not in compliance with the Contract Documents and is not acceptable. Provide new submittal.
- C. Informational Submittals: Architect will review each submittal and will not return it or will return it if it does not comply with requirements. Architect will forward each submittal to appropriate party.
- D. Partial submittals prepared for a portion of the Work will be reviewed when use of partial submittals has received prior approval from Architect.
- E. Incomplete submittals are unacceptable, will be considered nonresponsive, and will be returned for resubmittal without review.

- F. Architect will return without review submittals received from sources other than Contractor.
- G. Submittals not required by the Contract Documents will be returned by Architect with the "Not Required for Review" action taken.
- H. Submittals Provided for scope of Work not under Architect's Contract or Delegated Design: Architect will review each submittal, make marks to indicate compliance with Design Concept and Contract Documents only, and return it. Architect will indicate on Submittal Identification Sheet for each submittal to indicate action taken, as follows:
 - 1. "Submittal is in Compliance with Design Concept and Contract Documents."
 - 2. "Submittal is NOT in Compliance with Design Concept and Contract Documents."

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

END OF SECTION

SECTION 01 35 35 – CONSTRUCTION INDOOR AIR QUALITY

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section describes construction Indoor Air Quality (IAQ) goals and includes administrative and procedural requirements for the development and execution of a construction air quality management plan to maintain the highest indoor air quality during the Work and following completion of it.

1.2 PERFORMANCE REQUIREMENTS

- A. The Contractor shall apply their greatest skill and attention to anticipate and prevent conditions that could compromise indoor air quality during and following construction due to construction means, methods, process, sequence and materials. Particular attention shall be given to the following.
1. Eliminating the use of materials containing Volatile Organic Compounds (VOC), formaldehyde and certain chemical compounds for which limitations are specified in an attachment to Section 01 60 00 and select construction materials and processes that will eliminate potential IAQ pollutants and contaminants from the Work.
 2. Protect the ventilation system components during construction and clean contaminated components after construction is complete.
- B. Contractor's IAQ Management Plan shall conform to recommendations of SMACNA Guidelines for Occupied Buildings under Construction, Chapter 3 Control Measures for the following.
1. HVAC protection.
 2. Source control.
 3. Pathway interruption.
 4. Housekeeping.
 5. Scheduling.

1.3 SUBMITTALS

- A. IAQ Management Plan for the construction and pre-occupancy phases of the project.
- B. Construction Photographs: Digital, color images, 640 by 480 pixels ~~on CD-ROM~~ documenting construction IAQ management measures implemented during the Work such as duct protection measures and measures to protect on-site stored or installed absorptive materials from moisture. Provide annotation for images including date, time and subject.
- C. Product Data: Filtration media used during construction and installed immediately prior to occupancy with MERV values highlighted.

1.4 QUALITY ASSURANCE

- A. Indoor Air Quality Management Plan: For the construction and pre-occupancy phases of the Project provide the following as a minimum.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

1. Construction Period: Meet or exceed the minimum requirements of the Sheet Metal and Air Conditioning National Contractors Association (SMACNA) IAQ Guidelines for Occupied Buildings under Construction.
 2. Protect stored and installed absorptive materials from exposure to moisture and where practical provide conditioning period in controlled environment to reduce moisture content of materials where protection failed or was otherwise ineffective.
 3. Conduct a minimum two-week building flush-out following Substantial Completion of the Work and prior to Final Acceptance.
 4. HVAC Protection: Shut down the return side of the HVAC system whenever possible during heavy construction. If the system must remain operational during construction include the following strategies that apply:
 - a. Fit the return side of the HVAC system with temporary filters.
 - b. Isolate the return side of the HVAC system from the surrounding environment as much as possible (e.g., place all tiles for the ceiling plenum, repair all ducts and air handler leaks).
 - c. Damper off the return system in the heaviest work areas and seal the return system openings with plastic.
 - d. Upgrade the filter efficiency where major loading is expected to affect operating HVAC system.
 - e. Clean permanent return air ductwork per National Air Duct Cleaning Association standards upon completion of all construction and finish installation work.
 - f. Install new clean media just prior to substantial completion and occupancy that has a Minimum Efficiency Reporting Value (MERV) of 13 as determined by ASHRAE 52.2-1999.
 5. Source Control: Provide non-toxic formulations of materials and products and comply with chemical compound limitations throughout the work including but not limited to adhesives, coatings, substrate products, sealants, and cleaning products.
 6. Pathway Interruption: Prevent contamination of clean spaces. Include the following strategies that apply:
 7. Use 100 percent outside air ventilation (when outside temperatures are between 55 degrees F and 85 degrees F and humidity is between 30 and 60 percent) with air exhausted directly to the outside during installation of finishes and other VOC emitting materials.
 8. Erect some type of barrier between work areas or between the inside and outside of the building to prevent unwanted airflow from dirty to clean areas.
 9. Housekeeping: Reduce construction contamination in the building prior to occupancy through HVAC and regular space cleaning activities.
 - a. Store building materials in a weather tight, clean area prior to unpacking for installation.
 - b. Check for possible damage to building materials from high humidity.
 - c. Clean all coils, air filters, and fans before testing and balancing procedures are performed.
 10. Agenda items for discussion and monitoring of IAQ procedures and maintenance at Periodic Progress Meetings.
 - a. Schedule coordination for flush out field quality control for IAQ testing/monitoring.
- B. Scheduling: Specify construction sequencing to reduce absorption of VOC's by materials that act as sinks or contaminant sources. Complete application of wet and odor-emitting materials such as paints, sealants, and coatings before installing sink materials such as ceiling tiles, carpets, insulation, gypsum products, and fabric-covered furnishings are installed.

1. Protect stored on-site or installed absorptive materials from exposure to moisture through precipitation, plumbing leaks, or condensation from the HVAC system to prevent microbial contamination.
 2. Conduct a two-week building flush-out with new filtration media at 100% outside air after construction ends and prior to occupancy. Filtration media shall have a Minimum Efficiency Reporting Value (MERV) of 13 as determined by ASHRAE 52.2-1999. Replace filtration media used during flush-out prior to occupancy.
- C. Draft IAQ Management Plan Review Meeting: Once the Owner and Architect have reviewed the Draft IAQ Management Plan and prior to construction at the site, schedule and conduct a meeting to review the Draft IAQ Management Plan and discuss procedures, schedules and specific requirements for IAQ during the construction and pre-construction phases of the building. Discuss coordination and interface between the Contractor and other construction activities. Identify and resolve problems with compliance to the requirements. Record minutes of the meeting, identify all conclusions reached and matters requiring further resolution.
1. Attendees: The Contractor and related Contractor personnel associated with the work of this Section, including personnel to be in charge of the IAQ management program, Architect, Owner and such additional personnel as the Architect or Owner deem appropriate.
- D. Final IAQ Management Plan: Make any revisions to the Draft IAQ Management Plan agreed upon during the meeting identified in item (C) above and incorporate resolutions agreed to be made subsequent to the meeting. Submit the revised plan to the Owner and Architect for approval within 10 calendar days of the meeting.

PART 2 - PRODUCTS - NOT USED

PART 3 - EXECUTION

3.1 APPLICATION

- A. Manager: The Contractor shall designate an on-site party (or parties) responsible for instructing workers and overseeing and the IAQ Management Plan for the Project.
- B. Progress Meetings: Construction related IAQ procedures shall be included in the pre-construction and construction progress meeting agendas.
- C. Distribution: The Contractor shall distribute copies of the IAQ Management Plan to the Job Site Foreman, each Subcontractor, the Owner, and the Architect.
- D. Instruction: The Contractor shall provide on-site instruction of the IAQ procedures and ensure that all participants in the construction process understand the importance of the goals of the IAQ Management Plan.

END OF SECTION

SECTION 01 50 00 - TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes requirements for temporary utilities, support facilities, and security and protection facilities.

1.2 USE CHARGES

- A. General: Installation, removal, and use charges for temporary facilities to be included in the Contract Sum unless otherwise indicated. Allow other entities engaged in the Project to use temporary services and facilities without cost, including, but not limited to, Owner's construction forces, Architect, occupants of Project, testing agencies, and authorities having jurisdiction.
- B. Arrangements for Site Utility Usage:
 - 1. Water and Sewer Service from Existing System: Water from Owner's existing water system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations.
 - 2. Electric Power Service from Existing System: Electric power from Owner's existing ~~water~~ system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations.

1.3 INFORMATIONAL SUBMITTALS

- A. Site Utilization Plan: Show temporary facilities, temporary utility lines and connections, staging areas, construction site entrances, vehicle circulation, and parking areas for construction personnel.
- B. Implementation and Termination Schedule: Within ~~{15} <Insert number>~~ days of date established for commencement of the Work, submit schedule indicating implementation and termination dates of each temporary utility.
- C. Project Identification and Temporary Signs: Show fabrication and installation details, including plans, elevations, details, layouts, typestyles, graphic elements, and message content.
- D. Site Safety Plan: Show detailed site safety requirements, in compliance with OSHA, AHJ, and Owner requirements, including, but not limited to, the following:
 - 1. Safety goals statement.
 - 2. Construction site rules and regulations.
 - 3. List of responsible personnel.
 - 4. Operating procedures and safety precautions.
 - 5. Extreme weather conditions.
 - 6. Emergency contact information.
 - 7. Reporting instructions and procedures.
 - 8. Personal Protective Equipment (PPE) requirements for staff and visitors on site.

2023005	ALTADENA MAIN LIBRARY ALTADENA LIBRARY DISTRICT	08.15.2025 <u>10.28.2025</u>
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- E. Fire-Safety Program: Show compliance with requirements of NFPA 241 and authorities having jurisdiction. Indicate Contractor personnel responsible for management of fire-prevention program.
- F. Moisture- and Mold-Protection Plan: Describe procedures and controls for protecting materials and construction from water absorption and damage and mold.
 - 1. Describe delivery, handling, storage, installation, and protection provisions for materials subject to water absorption or water damage.
 - 2. Indicate procedures for discarding water-damaged materials, protocols for mitigating water intrusion into completed Work, and requirements for replacing water-damaged Work.
 - 3. Indicate sequencing of work that requires water, such as sprayed fire-resistive materials, plastering, and terrazzo grinding, and describe plans for dealing with water from these operations. Show procedures for verifying that wet construction has dried sufficiently to permit installation of finish materials.
 - 4. Indicate methods to be used to avoid trapping water in finished work.
 - 5. Document visible signs of mold that may appear during construction.
 - 6. Basement: Monitor below grade spaces and crawlspaces for humidity
- G. Dust- and HVAC-Control Plan: Submit coordination drawing and narrative that indicates the dust- and HVAC-control measures proposed for use, proposed locations, and proposed time frame for their operation. Include the following:
 - 1. Locations of dust-control partitions at each phase of work.
 - 2. HVAC system isolation schematic drawing.
 - 3. Location of proposed air-filtration system discharge.
 - 4. Waste-handling procedures.
 - 5. Other dust-control measures.
- H. Noise and Vibration Control Plan: Identify construction activities that may impact the occupancy and use of existing spaces within the building or adjacent existing buildings, whether occupied by others, or occupied by the Owner. Include the following:
 - 1. Methods used to meet the goals and requirements of the Owner.
 - 2. Concrete cutting method(s) to be used.
 - 3. Location of construction devices on the site.
 - 4. Show compliance with the use and maintenance of quieted construction devices for the duration of the Project.
- I. Protection of Air Resources Plan: Not less than 10 days before the Pre-construction meeting, prepare and submit a plan that identifies controls to limit disturbance on site and site dust limitation.
 - 1. Make record within each daily report of non-road, on-road diesel equipment and diesel generators present on site; and for first occurrence of diesel equipment's appearance, provide record that compliance documents have been reviewed and certified by Contractor.

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 NFPA 70.
- B. Tests and Inspections: Arrange for authorities having jurisdiction to test and inspect each temporary utility before use. Obtain required certifications and permits.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

1.5 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.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Pavement: Comply with ~~{Section 32 12 16 "Asphalt Paving."}~~ ~~{Section 32 13 13 "Concrete Paving."}~~ {Division 32 pavement Sections.}
- B. Fence Materials: Materials at Contractor's option to prevent unauthorized access to site, but not less than one of the following:
- B-1. Chain-Link Fencing: Minimum ~~2-inch (50-mm)~~, ~~0.148-inch- (3.8-mm-)~~ thick, galvanized-steel, chain-link fabric fencing; minimum ~~6 feet (1.8 m)~~ high with galvanized-steel pipe posts; minimum ~~2-3/8-inch- (60-mm-)~~ OD line posts and ~~2-7/8-inch- (73-mm-)~~ OD corner and pull posts, with ~~1-5/8-inch- (42-mm-)~~ OD top rails.
- C-2. Portable Chain-Link Fencing: Minimum ~~2-inch (50-mm)~~, ~~0.148-inch- (3.8-mm-)~~ thick, galvanized-steel, chain-link fabric fencing; minimum ~~6 feet (1.8 m)~~ high with galvanized-steel pipe posts; minimum ~~2-3/8-inch- (60-mm-)~~ OD line posts and ~~2-7/8-inch- (73-mm-)~~ OD corner and pull posts, with ~~1-5/8-inch- (42-mm-)~~ OD top and bottom rails. Provide concrete or galvanized-steel bases for supporting posts.
- D-3. Wood Enclosure Fence: Plywood, ~~{6 feet (1.8 m)}~~ ~~{8 feet (2.4 m)}~~ high, framed with four ~~2-by-4-inch (50-by-100-mm)~~ rails, with preservative-treated wood posts spaced not more than ~~8 feet (2.4 m)~~ apart.
- E-C. Lumber and Plywood: Comply with requirements in Section ~~{06 10 00 Rough Carpentry}~~ ~~{061053 Miscellaneous Rough Carpentry}~~.
- F-D. Gypsum Board: Minimum ~~1/2 inch (12.7 mm)~~ thick by ~~48 inches (1219 mm)~~ wide by maximum available lengths; regular-type panels with tapered edges. Comply with ASTM C 36/C 36M.
- G-E. Polyethylene Sheet: Reinforced, fire-resistive sheet, ~~10-mil (0.25-mm)~~ minimum thickness, with flame-spread rating of 15 or less in accordance with ASTM E84 and passing NFPA 701 Test Method 2.
- H-F. Dust-Control Adhesive-Surface Walk-Off Mats: Provide mats, minimum ~~36 by 60 inches (914 by 1524 mm)~~.
- I-G. Insulation: Unfaced mineral-fiber blanket, manufactured from rock wool; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively.

2.2 TEMPORARY FACILITIES

- A. Field Offices:
1. Prefabricated or mobile units with serviceable finishes, temperature controls, and foundations adequate for normal loading.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

- B. Common-Use Field Office: Of sufficient size to accommodate needs of Owner, Architect, and 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. Conference room of sufficient size to accommodate meetings of 10 individuals. Provide electrical power service and 120-V ac duplex receptacles, with no fewer than one receptacle on each wall. Furnish room with conference table, chairs, and 4-foot- (1.2-m-) square tack and marker boards.
 - 2. Lighting fixtures capable of maintaining average illumination of 20 fc (215 lx) at desk height.
- C. Storage and Fabrication Sheds: Provide sheds sized, furnished, and equipped to accommodate materials and equipment for construction operations.
 - 1. Store combustible materials apart from building.

2.3 EQUIPMENT

- A. Personal Protective Equipment (PPE): Provide standard PPE for visitors on site, including hard hats, protective eyewear, high visibility vests, and gloves.
- B. Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.
- C. Air-Filtration Units: Primary and secondary HEPA-filter-equipped portable units with four-stage filtration. Provide single switch for emergency shutoff. Configure to run continuously.

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.
 - 1. Salvage materials and equipment involved in performance of, but not actually incorporated into, the Work. See other Sections for disposition of salvaged materials that are designated as Owner's property.

3.2 INSTALLATION, GENERAL

- A. Locate facilities 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.
 - 1. Locate facilities to limit site disturbance as specified in Section 01 11 00 "Summary."
- 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 UTILITY INSTALLATION

- 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 as directed by authorities having jurisdiction.
- C. Water Service:
 1. Install water service and distribution piping in sizes and pressures adequate for construction.
 2. Connect to Owner's existing water service facilities. 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. Sanitary Facilities: Provide temporary toilets, wash facilities, safety shower and eyewash facilities, and drinking water for use of construction personnel. Comply with requirements of authorities having jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities.
 1. Use of Permanent Toilets: Use of Owner's existing or new toilet facilities will be permitted, as long as facilities are cleaned and maintained in a condition acceptable to Owner. At Substantial Completion, restore these facilities to condition existing before initial use.
- E. Electric Power Service:
 1. Connect to Owner's existing electric power service. Maintain equipment in a condition acceptable to Owner.
- F. 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.
- G. Telephone Service: Provide temporary telephone service in common-use facilities for use by construction personnel. Install Wi-Fi cell phone access equipment and one land-based telephone line(s) for each field office.
 1. At each telephone, post a list of important telephone numbers.
 - 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. Construction Manager's home office.
 - g. Engineers' offices.
 - h. Owner's office.
 - i. Principal subcontractors' field and home offices.
- H. Electronic Communication Service: Provide secure Wi-Fi wireless connection to internet with provisions for access by Architect and Owner.
- I. Project Computer: Provide a computer in the primary field office adequate for use by Architect and Owner to access Project electronic documents and maintain electronic communications.

3.4 SUPPORT FACILITIES INSTALLATION

A. Comply with the following:

1. Provide construction for temporary field offices, shops, and sheds located within construction area or within 30 feet (9 m) of building lines that is noncombustible in accordance with ASTM E136. Comply with NFPA 241.
2. Utilize designated area within existing building for temporary field offices.
3. 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. Temporary Use of Planned Permanent Roads and Paved Areas: Locate temporary roads and paved areas in same location as permanent roads and paved areas. Construct and maintain temporary roads and paved areas adequate for construction operations. Extend temporary roads and paved areas, within construction limits indicated, as necessary for construction operations.

1. Coordinate elevations of temporary roads and paved areas with permanent roads and paved areas.
2. Prepare subgrade and install subbase and base for temporary roads and paved areas in accordance with Section 31 23 16 "Earth Moving."
3. Recondition base after temporary use, including removing contaminated material, regrading, proofrolling, compacting, and testing.
4. Delay installation of final course of permanent hot-mix asphalt pavement until immediately before Substantial Completion. Repair hot-mix asphalt base-course pavement before installation of final course in accordance with Section 32 12 16 "Asphalt Paving."

C. 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.

D. Parking: Provide temporary parking areas for construction personnel.

E. Protection of Air Resources: Comply with requirements of authorities having jurisdiction.

1. Prevent creation of dust, air pollution, and odors.
2. Sequence construction to avoid disturbance to site to the greatest extent possible.
3. Store volatile liquids, including fuels and solvents, in closed containers.
4. Properly maintain equipment to reduce gaseous pollutant emissions.

F. Dewatering Facilities and Drains: 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.
2. Remove snow and ice as required to minimize accumulations.

G. Project Signs: Provide Project signs as indicated. Unauthorized signs are not permitted.

1. Identification Signs: Provide Project identification signs as indicated on Drawings.
2. 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.
3. Maintain and touch up signs, so they are legible at all times.

- H. Waste Disposal Facilities:
 - 1. Comply with requirements specified in Section 01 74 19 "Construction Waste Management and Disposal."
- I. 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.
- J. Temporary Stairs: Until permanent stairs are available, provide temporary stairs where ladders are not adequate.
- K. Existing Stair Usage: Use of Owner's existing stairs will be permitted, provided stairs are cleaned and maintained in a condition acceptable to Owner. At Substantial Completion, restore stairs to condition existing before initial use.
 - 1. Provide protective coverings, barriers, devices, signs, or other procedures to protect stairs and to maintain means of egress. If stairs become damaged, restore damaged areas, so no evidence remains of correction work.
- L. Temporary Use of Permanent Stairs: Use of new stairs for construction traffic will be permitted, provided stairs are protected and finishes restored to new condition at time of Substantial Completion.
- M. Existing Structures: 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.

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 Section 01 10 00 "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 of 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. Noise Control: Perform construction operations to minimize noise. Perform noise-producing work in less sensitive hours of the day or week as directed by Owner.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

- 1) More than 12 minutes in any hour: 70 dB.
 - 2) More than 3 minutes in any hour: 80 dB.
- E. 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.
- F. Tree and Plant Protection:
1. Comply with requirements specified in Section 01 56 39 "Temporary Tree and Plant Protection."
 2. 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.
- G. 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 materials approved by authorities having jurisdiction.
- H. Site Enclosure Fence: Before construction operations begin, furnish and install site enclosure fence in a manner that will prevent people from easily entering site except by entrance gates.
1. Extent of Fence: As required to enclose entire Project site or portion determined sufficient to accommodate construction operations.
 2. Maintain security by limiting number of keys and restricting distribution to authorized personnel.
- I. Security Enclosure and Lockup: Install temporary enclosure around partially completed areas of construction. Provide lockable entrances to prevent unauthorized entrance, vandalism, theft, and similar violations of security. Lock entrances at end of each workday.
- J. Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.
- K. Temporary Egress: Provide temporary egress from existing occupied facilities as indicated and as required by authorities having jurisdiction. Provide signage directing occupants to temporary egress.
- L. Covered Walkway: Erect structurally adequate, protective, covered walkway for passage of individuals through or adjacent to Project site, including public sidewalks and streets. Coordinate with entrance gates, other facilities, and obstructions. Comply with regulations of authorities having jurisdiction and requirements indicated on Drawings.
1. Provide wood-plank overhead decking, protective plywood enclosure walls, handrails, barricades, warning signs, exit signs, lights, safe and well-drained walkways, and similar provisions for protection and safe passage.
 2. Paint and maintain appearance of walkway for duration of the Work in a manner approved by Owner and Architect.
- M. 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.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

[10.28.2025](#)BID SET – [ADDENDUM 06](#)

1. Where heating or cooling is needed and permanent enclosure is incomplete, insulate temporary enclosures.
- N. 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 in accordance with 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.
 4. Provide temporary standpipes and hoses for fire protection. Hang hoses with a warning sign, stating that hoses are for fire-protection purposes only and are not to be removed. Match hose size with outlet size and equip with suitable nozzles.

3.6 MOISTURE AND MOLD CONTROL

- A. Moisture and Mold Protection: Protect stored materials and installed Work in accordance with Moisture and Mold Protection Plan.
- B. Exposed Construction Period: 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 Period: 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 and replace stored or installed material that begins to grow mold.
 7. Perform work in a sequence that allows wet materials adequate time to dry before enclosing the material in gypsum board or other interior finishes.
- D. Controlled Construction Period: 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.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025

- a. Remove and replace materials that cannot be completely restored to their manufactured moisture level within [48] <Insert time period> hours.

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.
 2. Operate Project-Identification signage lighting from dusk until 12:00 midnight.
- 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. At Substantial Completion, repair, renovate, and clean permanent facilities used during construction period. Comply with final cleaning requirements specified in Section 01 77 00 "Closeout Procedures."

END OF SECTION

SECTION 01 91 13 - GENERAL COMMISSIONING REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED REQUIREMENTS

- 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 general requirements that apply to implementation of commissioning without regard to specific systems, assemblies or components.

1.3 DEFINITIONS

- A. Commissioning (Cx): The process of ensuring that systems are designed, installed, functionally tested, and performing in conformity with Owner's Project Requirements (OPR), the design intent (Basis of Design (BoD)), and that the building operator has received complete equipment and systems documentation and training.
- B. BoD: Basis of Design, a document that records concepts, calculations, decisions and product selections used to meet the OPR and to satisfy applicable regulatory requirements, standards and guidelines. The document includes both narrative descriptions and lists of individual items that support the design process.
- C. CxA: Commissioning Authority.
- D. OPR: Owner's Project Requirements, a document that details the Project's functional requirements and expectations for operation and usage. These include Project goals, measurable performance criteria, cost considerations, benchmarks, success criteria, and supporting information.
- E. Systems, Subsystems, Equipment and Components: Terms used, separately or together, to reference "as-built" systems, subsystems, equipment and components.
- F. Commissioning Plan: A detailed plan of the organization, schedule, allocation of resources, procedures, and documentation requirements of the commissioning process.

1.4 COMMISSIONING TEAM

- A. Members Appointed by Contractor(s): Individuals, each having the authority to act on behalf of the entity he or she represents, designated to implement the commissioning process through coordinated action. The commissioning team shall include but not be limited to representatives of the Contractor, including Project superintendent, subcontractors, installers, suppliers, and specialists deemed appropriate by the CxA.
- B. Members Appointed by Owner:

2023005	ALTADENA MAIN LIBRARY ALTADENA LIBRARY DISTRICT	08.15.2025 10.28.2025
BID SET – ADDENDUM 06		

1. CxA: the person, company, or entity designated to plan, schedule, and coordinate the Commissioning Team to implement the commissioning process. Owner will engage the CxA under separate contract.
2. Facility users, operations and maintenance personnel's representatives.
3. Design Professionals, including Architect and Engineers.

1.5 OWNER'S RESPONSIBILITIES

- A. Provide the OPR documentation to the CxA and Contractor for information and usage.
- B. Assign operation and maintenance personnel and schedule them to participate in commissioning team activities.
- C. Provide Architect-prepared, Owner-approved Basis of Design documentation to the CxA and Contractor for use in developing the commissioning plan, systems manual, and operation and maintenance training plan.

1.6 CONTRACTOR'S RESPONSIBILITIES

- A. Contractor shall assign representatives with expertise and authority to act on its behalf and shall schedule them to participate in and perform commissioning process activities including, but not limited to, the following:
 1. Evaluate performance deficiencies identified in test reports and, in collaboration with entity responsible for system and equipment installation, recommend corrective action.
 2. Cooperate with the CxA for resolution of issues recorded in the Issues Log.
 3. Attend commissioning team meetings held on a variable basis.
 4. Integrate and coordinate commissioning process activities with construction schedule.
 5. Review and accept construction checklists provided by the CxA.
 6. Complete electronic construction checklists as Work is completed and provide to the Commissioning Authority on a weekly basis.
 7. Review and accept commissioning process test procedures provided by the Commissioning Authority.
 8. Complete commissioning process test procedures.

1.7 CxA's RESPONSIBILITIES

- A. Organize and lead the Commissioning Team
- B. Provide commissioning plan.
- C. Convene commissioning team meetings.
- D. Provide Project-specific construction checklists and commissioning process test procedures.
- E. Verify the execution of commissioning process activities using random sampling. The sampling rate may vary from 1 to 100 percent. Verification will include, but is not limited to, equipment submittals, construction checklists, training, operating and maintenance data, tests, and text reports to verify compliance with the OPR. When a random sample does not meet the requirement, the CxA will report the failure in the Issues Log.
- F. Prepare and maintain the Issues Log.

- G. Prepare and maintain completed construction checklist log.
- H. Witness systems, assemblies, equipment, and component start-up.
- I. Compile test data, inspection reports, and certificates; include them in the systems manual and commissioning process report.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 01 91 13

SECTION 03 11 00 – CONCRETE FORMING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes requirements for formwork for cast-in-place concrete.
1. Comply with requirements and criteria in the General Notes on S-Series structural drawing sheets.
- B. Products Installed but not furnished under this Section: Built-in sleeves, thimbles, dovetail slots, reglets, and anchors, wood blocking, inserts, and bolts for connection of other materials.
- C. Related Sections:
1. Section 03 20 00 Concrete Reinforcement.
 2. Section 03 30 00 Cast-In-Place Concrete.
 3. Section 07 13 00 Waterproofing at Pits and Sumps.
 4. Section 07 26 00 Vapor Control.
 5. Section 31 22 00 Grading.
- D. Definitions: Comply with ACI 116R Cement and Concrete Terminology unless otherwise required.
1. As-cast Concrete Surfaces Exposed to View: May be referred to as Smooth Form Finish and indicated on A--drawings. Characterization shall be for convenience only and shall not be interpreted as restricting the appearance, quality and character of the work required to texture alone. Unless otherwise required for as-cast appearance shall be dependent on processing of surfaces by neither additive nor subtractive means following removal of formwork.

1.2 ADMINISTRATIVE REQUIREMENTS

- A. Coordinate formwork with requirements for components to be embedded in concrete including but not limited to conduit, mechanical, and plumbing penetrations, reinforcing and the following work:
1. Division 05: Metal fabrications, stair, elevator and guardrail attachments.
 2. ~~Division 11: Façade maintenance and fall protection equipment.~~

1.3 SUBMITTALS

- A. Product Data: Include specifications and installation instructions for proprietary materials and items as required, including form coatings, manufactured form systems, ties, moisture barriers and accessories.
1. Formwork Facing Materials: Data on form facing materials proposed for smooth-form finish. Indicate the number of reuses proposed for facing materials, criteria for evaluating whether facings are suitable for reuse and remedial measure to maintain prospective service life.
- B. Shop Drawings: Indicate pertinent dimensions, materials, and arrangement of joints, ties and accessories for formwork and shores and reshores. Architect's review is for general

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

architectural applications and features only. Structural capacity to resist imposed loads is the responsibility of the Contractor.

1. Calculations and Drawings: Stamped by Registered Structural Engineer in the State where Project is located for conditions required by OSHA or constituting life-safety performance.
 2. On-Grade Concrete Slab: Details of supports for reinforcing and stabilizing form-work features without puncturing vapor barrier.
 3. As-Cast Concrete Surfaces Exposed to View in the Completed Work: Show the general construction of forms, formed joints, reveals, form tie locations, and pattern of form placement, and other items that affect the exposed concrete visually. Revise as necessary to represent formwork used in accepted mock-up and to accommodate proposed frequency of reutilization.
 4. Formwork Facing Materials: Data on form facing materials proposed for as-cast finish. Indicate the number of reuses proposed for facing materials, criteria for evaluating whether facings are suitable for reuse and remedial measure to maintain prospective service life.
 5. Components to be Embedded in Concrete Work: Provide comprehensive coordination drawing for location and installation of all items of the work in coordination with steel fabrications.
 6. Indicate accommodation of characteristics of Project-specific mix design as necessary.
- C. Reshoring and Backshoring Plans: When reshoring or backshoring are required or permitted, submit procedures and plans of operations, before use, sealed by a professional Engineer licensed in the state where Work will be performed.
- D. Samples: When directed submit samples of formwork materials.
- E. Quality Assurance:
1. Slab Survey Information: Reference 03 30 00 for survey and reporting requirements.
- F. Mock-Up for Formed Concrete: Provide formwork as necessary for work of Section 03 30 00 and to demonstrate forming techniques proposed for use in the final work. Demonstrate schedule, sequence and method for form removal. Demonstrate procedure for reuse of formwork.
1. Coordinate with Section 03 30 00 for mix design requirements.
 2. Demonstrate placement of form ties and related accessories; verify compliance with pattern and appearance requirements for the Work.

1.4 QUALITY ASSURANCE

- A. Design, construct, erect, maintain and remove forms, shores and related structures for cast-in-place concrete work in compliance with requirements and tolerances in the American Concrete Institute Standard ACI 347, "Recommended Practice for Concrete Formwork." Formwork shall produce as-cast surfaces complying with Tolerance requirements of Section 03 30 00.
- B. Forms and Shoring: Designed by the Contractor's Professional Engineer.

PART 2 - PRODUCTS

2.1 SYSTEM DESCRIPTION

- A. Design Requirements: Formwork, shoring and bracing shall provide completed concrete surfaces conforming to sizes, shapes, lines, grades and dimensions indicated, with openings, offsets, keyways, recesses, anchorages, inserts and other features as required. Formwork shall be removable without damage to concrete and adjacent surfaces.
 - 1. Form, shoring and reshoring design shall be the sole responsibility of the Contractor and comply with ACI 301 and 318.
 - 2. Forms shall impart a uniform surface to the concrete that is free of mottling and color variation due to absorption of moisture, chemical reactions or other cause.
 - 3. Provide broad-footed pedestals or other accessory components to support chairs, form-boards and all similar components without puncturing vapor barrier at grade-supported concrete flatwork.

- B. Performance Requirements: The Contractor shall determine construction loads and all other loads including safety factors that must be supported by formwork, shoring, re-shoring and related temporary supports throughout the course of the Work.
 - 1. Contractor shall ensure formwork, shoring and all related support work comply with regulatory requirements including but not limited to safety regulations and the following.
 - a. ASCE 37, Design Loads on Structures during Construction.
 - 2. Concrete Forms: Deigned for specific characteristics of Project mix design including required admixtures, placement method, method of cure and finishing techniques.
 - 3. Concrete Forms: Deigned for Full Liquid Head loading, and as necessary to accommodate extended cure time of 56 days and other special conditions resulting from the use of high fly-ash content in the mix design.
 - 4. Board Formed Concrete: Exercise a high level of craftwork and skill in the design and construction of forms to produce controlled appearance required.

2.2 MATERIALS

- A. Form Sheathing and Liners: Plywood, metal, metal-framed plywood faced and other acceptable panel-type materials, minimize number of joints and conform to join patterns where indicated. Contractor is encouraged to reduce materials consumption for the Work by utilizing form sheathing that may be reused. Consideration shall also be given to form liners where they will enable reuse of sheathing.
 - 1. Concrete Forming Panels: Comply with U.S. Product Standard PS-1 "B-B (Concrete Form) Plywood", Class I, Exterior Grade or better, mill-oiled and edge-sealed, with each piece bearing legible inspection trademark.
 - 2. Chamfer Strips: Prefabricated rigid wood or PVC chamfer strips to produce 0.75-inch radius unless otherwise indicated.
 - 3. Lumber: Dressed on two edges and one side.

- B. Form Ties: Prefabricated, adjustable length, removable or snap-off metal ties; minimum 1-inch concrete coverage over embedded remnants and maximum 1 inch diameter holes from removed ties.
 - 1. Site fabricated and wire ties are not acceptable.
 - 2. Provide pre-cast concrete plugs coordinate with form-ties to fill holes following removal.

- C. Form Release Coating: Provide water-based, VOC content 100 grams per liter or less, commercial formulation form-coating compounds compatible with forming materials and

2023005	ALTADENA MAIN LIBRARY ALTADENA LIBRARY DISTRICT	08.15.2025 <u>10.28.2025</u>
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subsequent coatings, adhesives and treatments that will not bond with, stain nor adversely affect concrete surfaces.

1. Atlas BioGuard (www.atlasform.com)
 2. BioRelease EF (www.daytonsuperior.com)
 3. Star Seal ER Bio_Release (www.vexcon.com)
 4. SEI Form Release _ GCC_100 FRW _ Water Based (www.seichemical.com)
- D. Sub-grade Pipe Penetration Flange: Cast iron providing mechanical joining of interior components and flexible exterior joint extending beyond the wall line minimum one length of ductile iron pipe. Size sleeve to accommodate pipe or other penetration with allowance for water-stopping filler.
- E. Waterstops: Chemically modified hydrophilic rubber with integral stainless steel reinforcing mesh. Waterstop shall exhibit controlled expansion when exposed to water. Nominal 0.75 inch by 0.5-inch strips; MC-2010M by Adeka Ultra Seal (800) 999-3959, www.adeka.com.
1. Provide accessory components to seal waterstop joints, and for cleaning and priming of substrate and to bond seal to concrete approved by waterstop manufacturer.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Protection: Support imposed loads until concrete has cured adequately to support them. Provide crush plates and other protection to prevent damage to concrete surfaces during stripping.
- B. Prevent movement and deformation of formwork and liners during concrete placement; shore, brace, block and support as necessary.
1. Below Grade Penetrations: Give particular attention to the stability of components and ensure they are tightly bonded in the completed concrete work such that they will not move or be subject to displacement nor otherwise compromise sub-grade waterproofing work of Section 07 13 26.
 2. Provide specified flange for sub-grade pipe penetrations. Apply waterstop to seal bond surface of sleeve to concrete. Coordinate location and sizing of sleeve with mechanical, plumbing and electrical to be routed through the sleeve. Provide water-tight filling of annular gap as required for work of Section 07 13 26.
- C. Prevent leakage of cement paste at joints, openings and penetrations in formwork.
1. Metal Decks with Concrete Topping: Seal edges and penetrations of decking to receive concrete and prevent seepage of cement paste.
- D. Temporary Openings: At inconspicuous locations for cleanout and inspection of forms and placing of concrete.
- E. Form all concrete surfaces. Do not use earth forms without prior written approval. Clean formwork and surfaces to receive concrete immediately prior to placement of concrete, remove debris and contaminants which might impair quality of completed work.
1. Formed Concrete Exposed to View: Provide Contractor's best craft, care and attention to achieve a controlled appearance of concrete work with the desired texture, features and characteristics. Unless otherwise acceptable, design formwork for pours to stop at floor lines (nominally 14 feet and 24 feet AFF).

- F. Chamfer exposed corners and edges as indicated, using wood, metal, PVC or rubber chamfer strips fabricated to produce uniform smooth lines and tight edge joints. Kerf inserts for forming keyways, reglets, and recesses.
- G. Construct formwork so concrete surfaces conform to the tolerance limits of ACI 117. As-cast Work Exposed to View: Set the facing materials in an orderly manner arranged per approved submittals, matching the Reference Control Sample and approved mock-up.
- H. Waterproofing and Vapor Barrier: Coordinate formwork with Section 07 13 26 and Section 07 26 00 requirements. Vapor barrier at concrete flatwork shall be neither punctured nor damaged for any reason. Damage to vapor barrier will be grounds for rejection of the work and removal of work in-place as necessary for Contractor to replace damaged vapor barrier (repair of barrier will not be acceptable) without modification to Contract Sum nor Time. Necessary penetrations through waterproofing shall be sealed per Section 07 13 26 requirements.
 - 1. Should water accumulate on or above vapor barrier prior to placement of concrete the water shall be removed by pumping or other acceptable means. Neither puncture vapor barrier nor damage waterproofing to encourage drainage or run-off of water.
- I. Re-Used Forms and Liners: Re-use limited to materials intended for multiple use. Prepare as specified for new, single-use forms, remove concrete and coating residues and restore as necessary to provide acceptable surface condition; damaged and deteriorated forms shall not be used.
- J. Form Coatings: Apply to contact surfaces, comply with manufacturer's recommendations, prevent accumulation of coatings in formwork, and do not coat bond surfaces of existing concrete and embedded items.
 - 1. Coat forms and liners as necessary to prevent staining of concrete work.

3.2 JOINTS

- A. Construction Joints: Horizontal and vertical, locate as indicated, and as specified in ACI 301, Section 2.2.2.5. Impair neither the strength nor appearance of the Work, place perpendicular to main reinforcement and with keyways 1.5 inches deep minimum, keyed bulkheads may be used.
- B. Formwork Joints: Tight and regular, use minimum number of joints necessary for Work indicated.
 - 1. Form Ties: Provide as indicated in concrete work exposed to view in the interior of the building, exterior foundation walls, planter walls and seating walls. Where not indicated in Drawings, provide uniform, even spacing at cast-in-place concrete exposed to view.
- C. Waterstops: Provide as a continuous seal at subgrade construction joints such as footing wall intersection, on-grade slab and wall, where new subgrade concrete work abuts existing concrete structure and at similar locations where subterranean water could enter the building due to joints in concrete work.

3.3 INSTALLATION OF EMBEDDED ITEMS

- A. Embedded Items and Built-ins: Position in forms as necessary to accommodate Work of other trades, ensure correct placement, size and location for openings, recesses, anchors,

and items built into forms. Use setting diagrams, templates and directions provided by suppliers of items anchored to and cast into cast-in-place concrete.

- B. Edge Forms and Screed Strips for Slabs: Set to obtain required elevations and contours in finished surface, support screed strips with strike-off templates or accepted compacting type screeds.
 - 1. Coordinate Metal Deck and Topping Slab edge with stair structure and slab edges exposed to view in completed structure.
 - 2. Exposed Slab Edge at Atrium: As indicated in Drawings and to comply with Section 05 12 00 requirements for exposed structural steel components.

3.4 SHORES AND SUPPORTS

- A. Arrange shores as indicated on S-Series drawings and as otherwise required for the Work.
- B. Shore construction to ensure distribution of loads throughout structure. Do not impose loading conditions for which the structure was not designed nor has not achieved sufficient strength to carry.
- C. Remove shores and supports in a planned sequence, do not damage partially cured concrete. Prevent deflection and excessive loading of concrete.

3.5 REMOVAL OF FORMS

- A. Formwork not supporting weight of concrete, may be removed after cumulatively curing at not less than 50 degrees F (10 degrees C) for 24 hours after placing concrete, provided concrete is sufficiently hard to not be damaged by stripping, and provided curing and protection operations are maintained.
- B. Tolerances: Comply with ACI 117, except when specifically stated otherwise tolerances shall be total amount allowed; for example, a tolerance of 0.75 inch shall be interpreted to mean plus 0.375 and minus 0.375 inch for a total of 0.75 inch.
 - 1. Work the Architect determines has dimensional variations that adversely affect appearance and suitability for the purpose intended shall be replaced regardless of compliance with tolerance of ACI 117.
 - 2. To be acceptable Work must comply with tolerances when fully cured and temporary supports have been removed.

END OF SECTION

SECTION 03 30 00 – CAST IN PLACE CONCRETE

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes requirements for cast-in-place concrete as indicated and specified herein.
 - 1. Comply with requirements of the General Structural Notes on S-Series drawings; completed structures shall support loads and resist forces per criteria therein.
- B. Definitions: Comply with ACI 116R Cement and Concrete Terminology unless otherwise required.

1.2 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Conference: Convene sufficiently in advance of the start of concrete work to allow for adjustments to work plan, means and methods as necessary to comply with Contract requirements. Review concrete design mixes, submittals, work schedule and sequence, inspection and testing protocols, curing requirements, finish appearance and coordination of penetrations to accommodate building services and other construction.
 - 1. Compliance with tolerance requirements for FL and FF measurements.
 - 2. Coordination with Section 03 35 20 for work of this Section to receive special concrete finish.
 - 3. In addition to lower tier contractors, the ready-mix producer and all other affected parties shall attend.
- B. Coordinate Schedule and sequence for work of this Section with finish flooring in Sections 09 30 00, 09 65 00, 09 67 00 and 09 68 13 to permit a minimum of 90 days cure while protected from precipitation and other sources of moisture (including moisture generating construction operations) prior to earliest date for beginning of finish floor application.
 - 1. Coordination of measures to prevent excess moisture and alkalinity in concrete slabs for grade supported and composite construction. Perform work in accordance with Contractor's approved vapor emission control plan.
- C. Wash-Down of Concrete Supply Trucks and Related Equipment: Not permitted on Site except where Contractor demonstrates acceptable means for collection and containment of effluent for return to ready-mix plant by supply vehicle.

1.3 SUBMITTALS

- A. Product Data: Required for each material and product to be incorporated into the Work.
 - 1. Building Product Disclosure and Optimization – Environmental Product Declarations (EPD's): Provide Manufacturers Life Cycle Analysis conforming to ISO 14044, Product-specific Type III EPD.
 - 2. Building Product Disclosure and Optimization – Sourcing of Raw Materials, Recycled Content: Certification from manufacturer stating the percentage by weight of post-consumer and pre-consumer (post-industrial) recycled content.
- B. Samples: Submit samples of materials as specified and as otherwise requested by Architect, including names, sources and descriptions.

2023005	ALTADENA MAIN LIBRARY ALTADENA LIBRARY DISTRICT	08.15.2025 <u>10.28.2025</u>
	BID SET – <u>ADDENDUM 06</u>	

- C. Laboratory Test Reports: Required for concrete materials and mix design.
- D. Material Certificates: Signed by manufacturer and Contractor; Submit in lieu of laboratory test reports as acceptable to Architect, demonstrate compliance with requirements.
 - 1. Certification of admixtures compatibility by Contractor's approved technician.
- E. Mix Design: Written proposal for each concrete mix and strength required submit 15 days prior to start of Work. The mix design shall list the following:
 - 1. All materials and admixtures and their proportions.
 - 2. Water-cement ratio, slump, and aggregate grading.
 - 3. Evidence that mix design meets the strength requirements: Compression test data (field experience method) or results of testing (trial batch method) used to establish mix proportions.
 - 4. Indicate materials sources for principal constituents.
 - 5. Whether the mix is appropriate for pumping.
 - 6. Evidence of ability of mix to meet requirements for limited shrinkage.
 - 7. Evidence that mix design meets or exceeds the Global Warming Potential minimums listed in Section 2.4.
- F. Submit schedule of concrete placement operations before commencing Work, show on one or more plans or elevations, locations of construction, contraction and expansion joints.
 - 1. Contractor's Moisture Emission Control Plan: Provide as required for Project Coordination.

1.4 QUALITY ASSURANCE

- A. Comply with the following except where otherwise indicated and where more stringent requirements obtain.
 - 1. ACI 301 Specifications for Structural Concrete for Buildings.
 - 2. ACI 303 Guide to Cast-In-Place Architectural Concrete.
 - 3. ACI 304 Recommended Practice for Measuring, Mixing, Transporting and Placing Concrete.
 - 4. ACI 305 Hot Weather Concreting.
 - 5. ACI 306 Cold Weather Concreting.
 - 6. ACI 309 Recommended Practice for Consolidation of Concrete.
 - 7. ACI 318 Building Code requirements for Reinforced Concrete.
 - 8. California Building Code (CBC), 2022.
- B. Provide an admixture technician for the Work having ACI Level 2 Concrete Technician or other acceptable professional certificate and expert knowledge of the specific products and materials in the mix design including but not limited to admixtures. The technician shall approve each mix design proposed for the Work, assist in proportioning concrete materials for optimal results, and advise on proper admixture use, potential undesirable and uncontrolled effects and propose mix adjustment to meet Project conditions.

1.5 PROJECT CONDITIONS

- A. Environmental Requirements: Do not place concrete when weather conditions may reduce performance characteristics, and prevent proper finishing, and curing.
- B. Coordinate Schedule and sequence for work of this Section with finish flooring in Sections 09 30 13, 09 65 00, 09 67 00 and 09 68 13 to permit a minimum of 90 days cure while protected

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

from rain fall and other sources of excess moisture (including moisture generating construction operations) prior to earliest date for beginning of finish floor application.

1. Coordination of measures to prevent excess moisture and alkalinity in concrete slabs, both elevated and non-elevated.

PART 2 - PRODUCTS

2.1 CONCRETE

- A. Portland Cement: ASTM C 150, Type II. Use one brand of cement throughout project, unless otherwise acceptable to Architect.
- B. Normal Weight Aggregates: From a single source, comply with ASTM C 33, and as herein specified. Do not use aggregates containing deleterious nor alkali reactive substances.
- C. Light Weight Aggregates shall conform to C330.
- D. Water: Plant-batched concrete shall include a minimum of 6 percent recovered wash-down water measured by volume of total mix. Recovered wash-down water shall be treated by settling, filtration and other acceptable means to remove deleterious materials prior to incorporation into mix.

2.2 ADMIXTURES

- A. Subject to compliance with specified requirements, provide one of the listed products for each admixture used; substitution proposals shall comply with requirements of Section 01 33 00.
- B. Calcium chloride and admixtures containing more than 0.1 percent calcium chloride ions shall not be used.
- C. Coordinate admixtures to ensure compatibility. Prevent unpredictable and noncontrolled side effects and reactions between mix components and provide certification of compatibility signed by Contractor's admixture technician.
- D. Air-Entraining: ASTM C 260.
 1. Darex AEA; GCP Applied Technologies.
 2. MB AE-90; Master Builders.
- E. Water Reducer: ASTM C 494, Type A.
 1. Darex WRDA-79; GCP Applied Technologies.
 2. Pozzolith; Master Builders.
- F. High Range Water Reducer: ASTM C 494 Type F or G, add at batch plant. Reduce water content 30 to 40 percent, extend plasticity up to 2.5 hours, increase concrete strength at all ages, and maintain, at varying temperature, setting characteristics similar to concrete without admixture.
 1. Rheobuild 1000; Master Builders.
- G. Water-Reducing, Non-Chloride Accelerator Admixture: ASTM C 494, Type E.
 1. Darex WRDA Type III; GCP Applied Technologies.
 2. Pozzutec 20; Master Builders.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

- H. Water-Reducing, Retarding Admixture: ASTM C 494, Type D.
 - 1. Daratard; GCP Applied Technologies.
 - 2. Pozzoloth 300-R; Master Builders.
- I. Fly Ash: ASTM C 618 (including Table 2A) Type F or Type C, subject to approval of mix design data.
- J. Ground Blast Furnace Slag: ASTM C 989.

2.3 ACCESSORIES

- A. Non-Shrink Base Plate Grout: Premixed compound using natural non-metallic aggregate and conforming to Corps of Engineers' CRD-C621-81.
 - 1. Compressive Strength: 2,400 psi in 48 hours and 5,000 psi minimum in 28 days.
 - 2. Five-Star Grout by US Grout Corporation; Masterflow 880 grout by MasterBuilders; or approved.
- B. High Strength Non-shrink Grout: Masterflow 928 grout by Master Builders; Sika Grout 212 by Sika Corporation or approved.
 - 1. Fluid Grout: CRD-C611-81, flow of 22 to 30 seconds, one hour after batching, at 40 to 100 degrees F.
 - 2. Strength: 2,500 psi at 24 hours, 4,500 psi at three days, and 7,000 psi at 28 days.
- C. Absorptive Cover: Burlap cloth, 9 ounce per sq.yd. complying with AASHTO M 182, Class 2.
- D. Moisture-Retaining Cover: Complying with ASTM C 171. Waterproof paper, or polyethylene film.
- E. Evaporation Reducer: BASF Confilm, L&M E-CON or approved.
- F. Epoxy Adhesive: ASTM C 881 Type, Grade and Class as required. Two component, moisture insensitive, shear bond to concrete of 1400 psi.
 - 1. Subject to conformity to conditions of application and manufacturer's recommended uses the following may be acceptable: Sonnoborne, EpoGel; Master Builders, Brutem MP or Ceilcote 648 CP Plus; Sika, Sikadur 32 Hi-Mod.
- G. Patching Mortars:
 - 1. Vertical and non-traffic surfaces: Two-part latex cement and bonding agent suitable for interior and exterior repairs, and feather edge application to 0.0625-inch thickness; Set Latex Cement, Master Builders, or approved. Conventional portland cement mortar and latex additive or bonding agent are not acceptable.
 - 2. Horizontal Trafficked Surfaces: One part (dilute with water) self-leveling, polymer modified industrial topping traffic surface. Repair damaged and rough floors not complying with required tolerances. ChemRex MBT Topping 112.
- H. Densifier and Hardener: Comply with Section 03 35 200 and requirements for sealed concrete.

2.4 MIXES

- A. Select mix designs based upon the minimum required strengths provided in the General Structural Notes and mixes that demonstrate a reduction in Global Warming Potential (GWP) for the region in units of kgCO₂e from manufacturer's baseline mixes.
- B. Source mixes within 10 miles of the project site.
- C. Mix Design: As specified in ACI 301 for each type of concrete required, use laboratory trial batch or field experience methods.
 - 1. Mix Design Proposal: Submit in advance of production to avoid delay in Work, do not begin concrete production prior to Architect's review.
- D. Standard Mix Characteristics: Comply with General Structural Notes.
 - 1. Flatwork to receive diamond polish finish shall use only one mix design; use of fly ash in this mix is not acceptable.
 - a. Aggregate: 0.375-inch minus.
- E. Admixtures: Comply with manufacturer's recommendations for use.
 - 1. Water Reducer: All concrete, except where high-range water reducer required, reduce water content by at least 12 percent.
 - 2. Air Entraining: Concrete exposed to weather, and freeze/thaw cycles; percentage required in ACI 301, measured per ASTM C 231 and C 138.
 - 3. Accelerator: Slabs placed in ambient temperatures below 50 degrees.
- F. Transit Mixed Concrete: Conform to ASTM C 94; when air temperature is between 85 and 90 deg F (30 and 32 deg C), reduce mixing and delivery time from 1.5 hours to 75 minutes; when air temperature is above 90 deg F (32 deg C), reduce mixing and delivery time to 60 minutes.
 - 1. Do not add water after leaving the concrete plant.
- G. Adjustment to Concrete Mixes: Mix design adjustments may be requested by Contractor when characteristics of materials, job conditions, weather, test results, or other circumstances warrant; Acceptable to Architect and at no change in Contract amount.
 - 1. Submit laboratory test data for revised mix design and strength results for approval before using in work.

2.5 SOURCE QUALITY CONTROL

- A. Concrete Testing Service: Engage a Special Inspection and testing laboratory acceptable to Architect to perform material evaluation tests and design concrete mixes as indicated on S0.01 and as otherwise required for the Work.
- B. Concrete supplier shall provide a knowledgeable, trained admixture technician and acceptable to the Architect to assist in proportioning concrete materials for optimal results and advise on proper admixture use and mix adjustment to meet Project conditions, at no change in contract amount.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Prior to placing concrete inspect placement of reinforcing, verify that formwork is ready to receive concrete, and that items to be cast-in and embedded are in place. Coordinate the Work of other trades to permit setting and installation of their Work.

3.2 INSTALLATION

- A. Placing Concrete: Convey and deposit to ensure a continuous flow at delivery without separation of materials, limit drops to 60 inches for unexposed work and 36 inches for exposed work. Maintain reinforcing in proper position during placing.
1. In Forms: Horizontal layers up to 24 inches deep, place each layer while preceding layer is still plastic, avoid cold joints between layers.
 2. Slabs: Place and consolidate in a continuous operation to limits of construction joints and to elevation indicated; Surfaces complying with flat and level tolerances requirements and as otherwise necessary for required specified.
 - a. Topping Slabs for Composite Deck: Comply with recommendations of deck manufacturer for preparation and placement.
- B. Consolidation: During placing by mechanical vibrating equipment, provide even dense surfaces, prevent honeycomb, rock pockets and voids.
1. Do not use vibrator to transport concrete inside forms. Place at regular intervals within machine's visible effective range.
 2. Rapidly penetrate placed layer and at least 6-inches into preceding layer. Do not insert vibrator into lower layers of concrete that have begun to set.
 3. For exposed concrete keep vibrator on the unexposed side of reinforcing steel, or 2.5 inches away from form surface.
- C. Contractor shall apply their best skill and attention to control materials and placement operations to ensure completed concrete slabs are acceptable for applied finish flooring and other finish treatments. Comply with ACI 302.1R recommendations for screeding, restraighening, and finishing operations for concrete surfaces and referenced Sections of ACI 301.
1. Flatwork: Provide evaporation retarder throughout grade supported concrete and concrete at composite metal deck in the manufacturer's recommended sequence and application procedure.
 2. Utilize placement method and equipment to ensure compliance with F_F and F_L requirements.
 3. In addition to other means and methods, the following procedures may be representative of effort necessary to produce concrete work complying with specified tolerances.
 - a. Following disappearance of bleed water, power float the surface across the width of the strip; following paste generating float passes re-straighten surface with 10-foot highway straight edge applied in two directions at 45-degree angle to strip.
 - b. Power Trowel surface with multiple passes and re-straighten by multiple passes with highway straightedge.
- D. Cold Weather Placing: Comply with ACI 306 and Section 5 of ACI 301. At ambient temperature below 40-degrees F (4-degrees C), uniformly heat water and aggregates before

2023005

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ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

mixing, provide a mixture temperature conforming to recommendations of ACI 306. Maintain protection for minimum times recommended in ACI 306.

1. Do not use frozen materials, nor material containing ice. Do not place concrete on frozen subgrade.
- E. Hot Weather Placing: Comply with ACI 305. Cool water and aggregates before mixing, maintain concrete temperature at time of placement below 90 degrees F (32 degrees C). Cool reinforcing with wet burlap, keep steel temperature at or below ambient air temperature until embedment in concrete.
1. Use specified water reducer to control concrete temperature rise during adverse placing conditions.
- F. Curing: Start initial curing as soon as free water has disappeared from concrete surface after placing and finishing. Begin final curing immediately following initial curing and before concrete has dried, and continue for seven days. Conform to ACI 308 and the following.
1. Moist Cure: Prevent drying of concrete, keep formwork and concrete continuously wet with water by flooding, fog spray or saturated absorptive cover.
 - a. Absorptive Cover: Place contiguously over concrete surfaces in widest widths practical, with edges lapped 4 inches.
 2. Moisture Retaining Cover: Place contiguously over concrete surfaces in widest widths practical, with edges lapped 4 inches and sealed with tape. Repair holes as they occur throughout curing period.
 3. Monitor the curing operations as required to ensure the concrete surfaces remain fully wetted and that cover materials are not displaced during the full curing period; at a minimum, the curing method shall be checked every 8 hours, including Saturdays, Sundays, and holidays
- G. Joints: Make panels and locate joints as indicated. See Section 07 92 00 for joint filler and sealant requirements. Abrasively treat bond surfaces at construction joints, base plates and similar. Clean and roughen the entire bond surface to a 0.25-inch amplitude, exposing coarse aggregate solidly embedded in mortar matrix. Roughen concrete surface while concrete is still green. Remove surface contaminants, laitance, loosened particles of aggregate and friable material.
1. Control Joints: Comply with ACI 301 5.3.5; saw-cut joints between finish and final set operations. Provide joint width of 0.0625 inch. Saw shall have mechanical means for limiting the depth of joint cuts. Properly maintain tools during cutting including changing of blades and anti-ravel skid-plate as required.
 2. Construction Joints: Comply with Section 03 11 00 requirements.
 3. Edges at Topping Slab Blockout: Where joint is exposed in completed work coordinate joint profile and appearance with requirements of Section 03 35 20.

3.3 FINISHING

- A. Formed Surfaces: As specified herein, and as defined in the referenced subsections of ACI 301 Chapter 5, apply at following locations.
1. Formed Finish: 5.3.3.3.a; surfaces concealed by other construction, unless otherwise indicated; 5.3.3.4.a; surfaces with directly applied waterproofing, finish coatings, and coverings.
 2. As-Cast, Smooth Form Finish: Work required to remain exposed to view with no additional processing or other applied finish.
 3. Finish Processing of As-Cast Work: Working from as-cast smooth-formed surface apply to select components exposed to view in the completed Work.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025
10.28.2025

BID SET – ADDENDUM 06

- a. Hand-stoned finish; corners consolidated and finished using a granite rubbing stone or other method per approved mock-up.
 4. Adjacent Unformed Surfaces: 5.3.3.5
 5. Cure: Moist cure.
- B. Cast-in-Place concrete designated Architectural Concrete, including but not limited to Sheet A293 cast-in-place bench: Class A Architectural Concrete per ACI 303.1 and ACI 117 for smooth wall finish with edge and corner detailing as indicated. Strip formwork at Engineer of Record's earliest allowed interval and provide hand-stoned finish within 24 hours of form removal at surfaces exposed to view in final work.
- C. Monolithic and Composite Slabs: As specified herein, and as defined in the referenced subsections of ACI 301 Chapter 5. In general, addition of water on site to ready mix concrete is not acceptable. It is understood that such adjustment to the mix may be desired by the Contractor, the Contractor shall keep accurate record of the specified batch, the quantity of water added and where the concrete was placed, failure to do so may result in rejection of the concrete. Where water is added the Contractor shall be responsible for elevated moisture levels and alkalinity, low strength development and any other defects.
1. Surfaces to receive bonded application of subsequent material including but not limited to paint, ceramic tile, and other finishes or coverings shall have a trowel finish per 5.3.4.2.c and coordinated with work of Division 9 Sections.
 - a. When recommended by the manufacture of subsequent applied material provide surface texture with recommended amplitude.
 2. Broom Finish: 5.3.4.2.d; provide at exterior traffic surfaces unless otherwise required, provide a 2-inch-wide smooth margin at all perimeter terminations. Coordinate final finish with Architect before application.
 3. Slip Resistance of Interior Traffic Surfaces: Compliance with minimum recommendations for specific service environment and flooring type when evaluated per HB 198/AS 4663-2013 test pendulum slip test method.
 4. Cure: Contractor option using either moist cure or absorptive cover methods. Provide specified evaporation retarder on all concrete slabs and composite metal deck slabs.
- D. Concrete to receive special finishing work of Section 03 35 20 shall be protected from stains due to construction processes, and markings of any kind. Prevent conditions and damage that could alter the appearance of the finished concrete and coordinate with special finishing requirements.

3.4 MISCELLANEOUS CONCRETE ITEMS

- A. Filling-In: Fill-in holes and openings left in concrete structures for passage of work by other trades, unless otherwise shown or directed, after work of other trades is in place. Mix, place and cure concrete as specified, to blend with in-place construction. Provide other miscellaneous concrete filling shown or required to complete work.
- B. Interior Curbs: Monolithic finish, strip forms while concrete is still green, and steel-trowel to a hard, dense finish, radius corners, intersections and terminations one inch.
- C. Equipment Bases and Foundations: Provide machine and equipment bases and foundations, as indicated. Set anchor bolts for machines and equipment to template at correct elevations, complying with certified diagrams or templates of manufacturer furnishing machines and equipment.
 1. Grout base plates and foundations as indicated, using non-shrink base plate grout.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025
10.28.2025

BID SET – ADDENDUM 06

2. Provide high strength non-shrink grout to anchor reinforcing steel, threaded rods, and similar embedded items.
- D. Steel Pan Stairs: Provide concrete fill for steel pan stair treads and landings and associated items. Cast-in safety inserts and accessories as shown on drawings. Screed, tamp, and finish concrete surfaces as scheduled.
- E. Cast-In-Place Stairs: Comply with CBC Section 1009, ANSI 1264.1 and barrier free access requirements of ANSI A117.1
 1. Dimensional Uniformity of Stairs: CBC Section 1009.7.
 2. Ramps: Comply with CBC Section 1010, ANSI 1264.1, and applicable requirements of stair assemblies for uniformity in the Work.
- F. Wash-Down of Concrete Supply Trucks and Related Equipment: Not permitted on Site except where Contractor demonstrates acceptable means for collection and containment of effluent for return to redi-mix plant by supply vehicle.

3.5 TOLERANCES

- A. Compliance With Tolerances: Determined once concrete has fully cured, but not sooner than 28 days after placement. Concrete that does not conform to tolerances will be determined to be non-compliant. The Contractor shall correct concrete work to eliminate defects and variations exceeding specified tolerances.
 1. General Tolerances: ACI 117 Section 4 except as otherwise required.
 2. Conduct survey of supporting formwork and steel prior to concrete placement. Survey points shall be taken at columns and mid-points of bays between columns. Re-survey at same locations once concrete is placed and hardened. If formwork and/or shoring utilized, conduct surveys prior to removal of formwork/shoring and within 1-day of removal.
 3. Report all survey results within two (2) days of survey to design team.
- B. On-Grade and Composite Slabs: Levelness requirements do not apply where sloped surface is required. Correct surfaces that do not conform to tolerance limitations by grinding high points and filling low points with approved leveling compound, except as otherwise required for work of Section 03 35 00.
 1. Flatness and Level: ACI 117; Flat per Section 4.5.6 and ASTM E 1155.
 2. Flatness and Level: F_F 30 and F_L 20 with minimum values not less than F_F 15 and F_L 10; except flatwork to receive diamond polished finish shall have F_F 50 and F_L 30 with minimum values not less than F_F 25 and F_L 15; evaluated per ACI 117 and ASTM E 1155.
- C. Coordinate concrete work with requirements for applied finish flooring and other finish treatments. Contractor shall apply their best skill and attention to control materials and placement operations to ensure complete concrete slabs are acceptable for finish floor installation after testing per ASTM F 117 per Section 09 65 00 requirements.

3.6 CONCRETE SURFACE REPAIRS

- A. The Contractor is responsible for correction work which does not conform to the specified requirements, including strength, tolerances and finishes. Correct deficient concrete as directed by the Architect.

- B. Patching Defective Areas: Repair and patch defective areas with epoxy adhesive and patching mortar; cement mortar may be used only on uncured, green concrete and only when acceptable to Architect. Replace cured, and defective concrete that cannot be repaired to Architect's satisfaction.
 - 1. Exposed Surfaces: Blend patching mortar to match color and texture of adjacent cured concrete. Compact mortar in place and strike-off slightly higher than surrounding surface.
- C. Cut out honeycomb, rock pockets, voids over 1/2 inch in any dimension, and holes left by tie rods and bolts, down to solid concrete but, in no case to a depth of less than 1-inch.
 - 1. Cut edges perpendicular to concrete surface. Clean patch area, dampen with water, and apply epoxy adhesive. Place patching mortar as recommended by manufacturer of epoxy adhesive.
- D. Exposed Formed Surfaces: Repair defective concrete, replace concrete that cannot be repaired to satisfaction of Architect.
 - 1. Flush out form tie holes, fill with dry pack mortar, or precast cement cone plugs secured in place with epoxy adhesive.
- E. Concealed Formed Surfaces: Repair defects effecting concrete durability, replace concrete that cannot be repaired to satisfaction of Architect.
- F. Repair of Unformed Surfaces: Test slabs for flatness, levelness, and slope to drain.
 - 1. Repair surfaces containing defects effecting concrete performance including crazing, cracks wider than 0.01-inch cracks that penetrate to reinforcement, cracks that completely penetrate non-reinforced sections regardless of width, spalling, pop-outs, honeycomb, rock pockets and other objectionable conditions.
 - 2. Grind high areas after concrete has cured at least 14-days.
 - 3. Cut-out low areas and replace with fresh concrete during, or immediately after completion of surface finishing operations.
- G. Perform structural repairs with prior approval of Architect for method and procedure, using specified epoxy adhesive and mortar.
- H. Proprietary patching compounds and repair methods not specified above may be used, subject to acceptance of Architect.

3.7 FIELD QUALITY CONTROL

- A. The Owner will employ a testing laboratory to perform tests and to submit test reports.
- B. Sampling and testing for quality control during placement of concrete may include the following, as directed by Architect.
 - 1. Sampling Fresh Concrete: ASTM C 172, except modified for slump to comply with ASTM C 94.
 - 2. Slump: ASTM C 143; one test at point of discharge for each day's pour of each type of concrete; additional tests when concrete consistency seems to have changed.
 - 3. Air Content: ASTM C 173, volumetric method for lightweight or normal weight concrete; ASTM C 231 pressure method for normal weight concrete; one for each day's pour of each type of air- entrained concrete.
 - 4. Concrete Temperature: Test hourly when air temperature is 40-degrees F (4-degrees C) and below, and when 80-degrees F (27-degrees C) and above; and each time a set of compression test specimens made.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

5. Compression Test Specimen: ASTM C 31; one set of 3 standard cylinders for each compressive strength test, unless otherwise directed. Mold and store cylinders for laboratory cured test specimens except when field-cure test specimens are required.
 6. Compressive Strength Tests: ASTM C 39; one set for each 100-cubic yards or fraction thereof of each concrete class placed in any one day; or for each 5000-square foot of surface area placed; one specimen tested at 7-days, one specimen tested at 28-days, and one specimen retained in reserve for later testing if required.
 - a. When total quantity of a given class of concrete is less than 50-cubic yards, strength tests may be waived by Architect if, in his judgment, adequate evidence of satisfactory strength is provided.
 - b. When frequency of testing will provide less than 5 strength tests for a given class of concrete, conduct testing from at least 5 randomly selected batches or from each batch if fewer than 5 are used.
 - c. When strength of field-cured cylinders is less than 85-percent of companion laboratory-cured cylinders, evaluate current operations and provide corrective procedures for protecting and curing the in-place concrete.
 - d. Strength level of concrete will be considered satisfactory if averages of sets of three consecutive strength test results equal or exceed specified compressive strength, and no individual strength test result falls below specified compressive by more than 500 psi.
- C. Test results will be reported in writing to Architect and Contractor within 24-hours that tests are made. Reports of compressive strength tests shall contain the project identification name and number, date of concrete placement, name of concrete testing service, concrete type and class, location of concrete batch in structure, design compressive strength at 28-days, concrete mix proportions and materials; compressive breaking strength and type of break for both 7-day tests and 28-day tests.
- D. Nondestructive Testing: Impact hammer, sonoscope, or other nondestructive device may be permitted but shall not be used as the sole basis for acceptance or rejection.
- E. Additional Tests:
1. The testing service will make additional tests of in-place concrete when test results indicate specified concrete strengths and other characteristics have not been attained in the structure, as directed by Architect.
 2. Testing service may conduct tests to determine adequacy of concrete by cored cylinders complying with ASTM C 42, or by other methods as directed.
 3. Contractor shall pay for such tests conducted, and any other additional testing as may be required, when unacceptable concrete is verified.
 4. Where initial test for moisture or alkalinity indicate levels not acceptable for application of required finish floor, additional tests shall be made by the Owner's agent at the Contractor's expense, until results demonstrate acceptable levels have been achieved.
- F. Field Testing of Walking Surface: Evaluated per ANSI B101.1 and ANSI B101.3; Static and Dynamic Coefficient of Friction not less than 0.42 and 0.35 respectively and comply with referenced NFSI performance characteristics.
1. Testing Incidence: Not fewer than one test specimens for every 500 square feet and as otherwise necessary for a representative sampling per the test methodology
 2. Tribometer: Certified per ASTM F 2508

3.8 PROTECTION

- A. Protect concrete from premature drying, temperature extremes, and mechanical injury. Comply with Section 5.3.6.4 of ACI 301.

END OF SECTION

SECTION 04 01 20 - MASONRY RESTORATION AND CLEANING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes requirements for cleaning, repointing, and general masonry restoration work.
- B. Unit Prices:
 1. Cost for repointing of masonry (inclusive for block and cast stone) per square foot; including grinding out joints and pointing with new mortar as required for work of this Section.
 2. Cost for cleaning masonry (inclusive for block ~~and, cast stone~~) per square foot using gentlest means possible to achieve the intended result as required for work of this Section.
 3. Cost for replacing damaged CMU masonry per square foot; including removal of damaged block and replacement with original block salvaged from the building [not applicable to cast stone nor terra cotta] and pointing.

1.2 DEFINITIONS

- A. Water Spray Pressures: For use in describing Work of this Section; measured at the nozzle.
 1. Low Pressure: 50 psi maximum at 3 to 6 gallons per minute.
 2. Medium Pressure: 500 to 800 psi; 3 to 6 gallons per minute

1.3 SUBMITTALS

- A. Product Data: Required for each product proposed for use in Work, spray equipment, and proposed mortar mixes.
- B. Shop Drawings: Installation of reinforcing, pins, anchors, inserts, and related materials to stabilize and strengthen existing assemblies.
 1. Restoration Proposal: Materials, methods, equipment and protection for each phase of restoration process.
 2. Hidden Conditions Report: Detailed narrative and graphic description of nature and scope of concealed conditions discovered during the work.
- C. Samples: Demonstrate complete range of color, and texture to be expected in the final work, but not less than six units for each type.
 1. Block: .
 2. Mortar: Six inches by 0.5 inch in plastic channels.
 3. Anchors and Reinforcing: Each type required.
- D. Field Samples:
 1. Match of New and Salvaged Block to Clean Original.
 2. Mortar: Six inches by 0.5 inch in plastic channels.
 3. Masonry Cleaning: Demonstrate proposed cleaning method using processes and solution intended for the final work. Anticipate providing at least four samples of ten square feet. The first sample shall use plain water or very dilute cleaning solution.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

Successive samples will use incrementally stronger methods until the gentlest method capable of achieving the required result as judged by the Architect has been achieved. The methods used in the accepted sample will be those required for the final work.

- E. Certifications: Written and graphic evidence satisfactory to the Owner, substantiating Contractor's qualifications to perform the Work.

1.4 QUALITY ASSURANCE

- A. Qualifications: Contractor with five years successful experience in comparable masonry restoration projects.
1. Foreman: On site at all times Work is under way, skilled in masonry restoration techniques required for this Project, and have worked with this firm on five previous projects.
 2. Nozzle Operator for Abrasive Cleaning: SSPC C-7 Certified abrasive blast nozzle operator.
- B. Regulatory Requirements: Provide the following in compliance with requirements of agencies having jurisdiction:
1. Cleaning operations and disposal of cleaning solution and rinse water.
 2. Protection: Barriers, sidewalk bridging and other protection.
- C. Field Samples: 25 Square feet of each type; Locate in an unobtrusive area as directed. Additional sample panels will be required until results acceptable to the Owner are achieved using approved materials and methods at no change in Contract amount. Approved samples will be retained as job standards for determining acceptability of final Work.
1. Masonry Cleaning, Patching and Repairing: Demonstrate proposed materials and methods.
 2. Repointing: Raking out of joints and pointing for mortar, and sealant joints.

1.5 PROJECT CONDITIONS

- A. Environmental Requirements: Exterior masonry, ambient air temperature has been above 40 degrees F for four days and will remain so for not less than seven days following completion of work. Maintain conditions required as necessary due to prevailing weather without change in Contract amount.
- B. Existing Conditions: Owner assumes responsibility neither for apparent, and actual condition nor safety of masonry assemblies to be restored.
- C. Required Area of Masonry Restoration Work: As indicated in Drawings; where not shown, as identified on site in field review with Owner, Architect, General Contractor and Restoration Contractor. Work scope is administered under Section 01 21 00 – Allowances.
- ~~1. Assumed Quantity of Masonry to be Re-pointed: 5,380 square feet any combination of block and cast stone. The actual quantity of work required will be determined during the Work as necessary for the conditions encountered. Unit Price for Re-pointing will be used to determine the cost of the final quantity of work performed.~~
 - ~~2. Quantity of Masonry to be Cleaned: Entire area as described above. Cleaning shall include removal of roots, vine remnants and all other biological growth.~~
 - ~~3. Assume Quantity of Damaged Block to be Replaced: 100 square feet (limited to CMU masonry only). The actual quantity of work required will be determined during the Work as necessary for the conditions encountered. Unit Price for Block Replacement will be~~

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025
10.28.2025

BID SET – ADDENDUM 06

~~used to determine the cost of the final quantity of work performed—quantity may be adjusted upwards or down depending on actual quantity of work performed.~~

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Cleaning Products: Sure-Klean Restoration Products, ProSoCo, Inc., Kansas City, KS.
- B. Anchors: Subject to compliance with requirements, provide products of AA Wire Products Co., Dur-O-Wall, Inc., or Hohmann & Barnard, Inc.
- C. Flexible Concealed Flashing: Afco Products Inc. Sandell Manufacturing Co., Inc., or York Manufacturing, Inc.

2.2 MORTAR MATERIALS

- A. Portland Cement: ASTM C 150, Type I, complying with staining requirement of ASTM C 91, white and gray as required.
- B. Hydrated Lime: ASTM C 207, Type S.
- C. Aggregate for Mortar: ASTM C 144, grade as required to match appearance of clean existing mortar joints.
 - 1. Colored Mortar Aggregate: ASTM C 294, rounded sand required to match clean existing joints.
- D. Colored Mortar Pigment: Natural and synthetic iron oxides and chromium oxides, compounded for use in mortar mixes.
- E. Water: Clean, free of oils, acids, alkalis and organic matter.

2.3 CLEANING PRODUCTS

- A. Chemical Cleaning System: Combinations of the following as shown by approved field samples to be necessary for cleaning each masonry material and soiling condition encountered:
 - 1. 766 Masonry Prewash.
 - 2. Sure-Klean Restoration Cleaner.
 - 3. Sure-Klean Heavy Duty Restoration Cleaner.
 - 4. 509 Paint Stripper.
- B. Water: Clean, free of oils, acids, alkalis and organic matter.

2.4 EQUIPMENT

- A. Spray Equipment: Controlled application of chemical solutions and water at specified rates and pressures measured at nozzle.
- B. Brushes: Natural fiber bristle.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025

BID SET – ADDENDUM 06

- C. Grinders: Power operated hand saws and grinders will be permitted only on written approval of Owner's Representative based on submission by Contractor of an approved quality control program and demonstrated ability of operators to use tools without damage to masonry.
- D. Mechanical Mixers: Clean and in good operating condition.

2.5 MIXES

- A. Mortar: Measure cementitious and aggregate materials in a dry condition by known volume or equivalent weight. Mix materials in a clean mechanical mixer; once dry materials are thoroughly mixed, add water to produce damp, unworkable mix, maintain mortar in damp condition for one to two hours. Add water in small portions until workable consistency is obtained. Use mortar within 30 minutes of final mixing; do not retemper or use partially hardened material.
- B. Repointing Mix: ASTM C 270, one part Portland cement, one part lime, six parts aggregate.
- C. Mortar Color: Match clean existing mortar using colored aggregates and pigments as approved by Owner's Representative and as necessary to achieve required results, do not exceed pigment-to-cement ratio of 1-to-10, by weight.
- D. Chemical Cleaning: Most dilute solution necessary to achieve results obtain in approved field samples.

2.6 ACCESSORIES

- A. Dowels: A 316 stainless steel, 3/8-inch diameter, threaded rods.
- B. Masonry Anchors: Provide type suited to specific conditions encountered at each repair; including condition of supporting structure and structural requirements for repaired assembly.
 - 1. Bent-Wire Ties: Provide 1.5 inches embedment in masonry, and not less than 0.625-inch mortar cover on face joints. Wire diameter not more than half of joint thickness unless otherwise acceptable.
 - 2. Flexible Anchors: 2-piece anchors that permit differential movement between wall and structure, and resist tension and compression forces perpendicular to plane of wall.
 - a. Concrete Framework: 12 gage sheet metal dovetail and wire tie anchor extending to within 1 inch of masonry face.
 - b. Steel Framework: bent-wire tie welded to steel and triangular tie extending to within 1 inch of masonry face.
- C. Masonry Retrofit Anchors: Helical lateral anchor pins 8 mm diameter, Type 304 stainless steel. Lengths will vary.
 - 1. Dryfix Masonry Pins helical wall anchor as manufactured by Helifix, Weston, Ontario, Canada. Use dry without epoxy.
 - 2. Blok-Lok Helical Wall Ties, as manufactured by Blok-Lok Limited, Weston, Ontario, Canada

PART 3 - EXECUTION

3.1 PREPARATION

- A. Protection: Prevent damage and injury to soil, vegetation, building surfaces, and finishes, automobiles and pedestrians during cleaning operations. Provide liquid strippable masking agent, polyethylene film and other protection as necessary.
 - 1. Contain run-off from cleaning and dispose of in an approved manner, do not permit contact with soil.
- B. Remove plant growth and soil from masonry joints and surfaces, cut roots and allow vegetation to dry before removal. Kill plant roots with ammonium sulfamate or approved treatment.
- C. Examine terra cotta for cracks, spalls, and displacement. Using a plastic mallet, spot sound terra cotta at cracks and displaced units. Indicate hollow sounding units with nonpermanent chalk marking and review with Owner's Representative.

3.2 MASONRY CLEANING

- A. Comply with ASTM D 5703 and requirements of this Section. Proceed with cleaning in an orderly manner, produce uniform appearance throughout, including corners, moldings, and interstices without damaging masonry surfaces. Comply with written recommendations of manufacturer of cleaning products.
- B. Pre-wet masonry with low-pressure cold-water spray, apply prewash chemical cleaner by brush or roller use dwell time recommended by chemical cleaner manufacturer; rinse with medium-pressure cold water spray.
- C. Apply chemical cleaner to wet masonry with low-pressure spray equipment, deep nap roller, or soft natural fiber brush; allow dwell time recommended by chemical cleaner manufacturer. Rinse masonry with medium pressure cold water spray, leave no chemical residue. Repeat chemical cleaning procedure once where necessary to achieve required results.
- D. Contain cleaning solutions and rinse water, do not permit contamination of plantings, soils, and drainage systems.

3.3 REPOINTING

- A. Preparing Joints: Remove mortar from open, shelled, cracked and defective joints to sound, solid mortar; provide uniform depth of not-less-than 3/4 inch nor more than 1-1/2 inches. Use masonry blade narrower than joint. Do not chip arrises. Do not widen joint, nor cut into adjacent units.
 - 1. Work not meeting approved job standard samples will be rejected, remove and correct as directed by Owner's Representative at no change in Contract amount.
 - 2. Brush, vacuum or flush joints, remove dirt and debris, rinse joints and clean bond surfaces of masonry and existing mortar.
- B. Joint Pointing: Surfaces of joint shall be damp and free of standing water. Apply mortar in layers, compact each layer and allow to cure until thumbprint hard before placing next layer.
 - 1. Back-point uneven joints and joints more than 1 inch deep; apply mortar in 0.375-inch layers to uniform 0.5-inch depth.

2023005

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08.15.2025

10.28.2025BID SET – ADDENDUM 06

2. Point final 0.5 inch in three layers; each of the first two layers being approximately 0.1875 inch thick, and the final not less than 0.125 inch thick.
3. Tool joints to match original appearance of joints, do not featheredge joints.
4. Keep mortar damp (80 to 90 percent RH) for 72 hours by thoroughly soaking repointed joints at the beginning and end of each day until 72 hours are passed.

C. Sealant Joints: Refer to Section 07920 for requirements for resealing sealant joints.

3.4 MASONRY PATCHING

- A. Repair cracks and voids less than 4 inches in greatest dimension; cut back area to a minimum depth of 1 inch, undercut edges to create a dovetail key for patch, remove debris and dirt.
- B. Install patching dowels in epoxy, 2 inches into terra cotta body at opposing 45-degree angles, form a basket to hold mortar patch, space dowels 1 to 3 inches apart and 2 inches inside of edges. Provide a 0.5 to 1 inch of coverage between dowel end and face of masonry unit.
- C. Paint isolated chips and spalls less than 1 inch in largest dimension with two coats masonry paint, comply with paint manufacturers recommendations for surface preparation, priming and application of paint.

3.5 CLEANUP

- A. Remove excess mortar and foreign matter from masonry by using stiff natural fiber bristle brushes and low-pressure water spray. Remove mortar drops as they occur.

END OF SECTION

SECTION 04 22 00 – CONCRETE UNIT MASONRY

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes Work, materials and equipment necessary and required for a complete installation of concrete unit masonry of the types and configurations indicated. See Structural Notes on S-series drawing sheets for supplementary information; refer conflicts and ambiguities to Architect.

1.2 PROCEDURAL REQUIREMENTS

- A. Preinstallation Conference: Comply with Project Meeting requirements. Review methods and procedures related to installation of concrete unit masonry work of this Section and coordination with other components and assemblies of the building cladding,
1. Contractor's Project Schedule and work sequence, required tests and inspections.
 2. Coordination with work of Section 07 25 13, Section 07 92 00 and Section 08 44 00 for seals and transitions required to maintain integrity and performance of a continuous weather-resistive air barrier for the building enclosure complying with Performance Requirements.
 3. Coordination with Section 09 97 23 for application of high-performance urethane coating system on concrete masonry.

1.3 SUBMITTALS

- A. Product Data: Manufacturer's product data for each type of manufactured product used in Work of this Section.
- B. Shop Drawings: For fabrication, bending, and placement of concrete reinforcement. Comply with ACI 315 show bar schedules, stirrup spacing, diagrams of bent bars, arrangement and support of concrete reinforcement, and coordination with embedded and cast-in items.
1. Shop Drawings: Fabrication, and placement of reinforcement, comply with ACI 315; show bar schedules, details, spacing, lateral ties and assemblies as required.
 2. Quality Control Submittals: Test reports in form required by test method, submit on same day test is made. Certification of product compliance with requirements.
 - a. Testing Service: Certification of qualifications.
- C. Samples: Provide 4 inch by 4-inch sets of three block faces for initial selection from manufacturer's complete range of standard and Premium colors, provide at least four color designations; provide separate set of full size block for final selection from initial color selection samples.

1.4 QUALITY ASSURANCE

A. Unit Masonry Mock-Ups:

1. Sample Panel Mock-up: Build sample panels to verify selections made under Sample submittals and to demonstrate aesthetic effects. Comply with requirements in Section 014000 "Quality Requirements" for mockups.

2023005

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08.15.2025

10.28.2025BID SET – ADDENDUM 06

- a. Build sample panels for typical CMU Type 1 exterior wall approximately 48 inches 48 inches high] by full thickness.
- b. Build sample panel facing south.
- c. Where masonry is to match existing, build panels adjacent and parallel to existing surface.
- d. Clean one-half of exposed faces of panels with masonry cleaner indicated.
- e. Protect approved sample panels from the elements with weather-resistant membrane.
- f. Approval of sample panels is for color, texture, relationship of mortar and sealant colors to masonry unit colors; tooling of joints; aesthetic qualities of workmanship; and other material and construction qualities specifically approved by Architect in writing.
- g. Approval of sample panels does not constitute approval of deviations from the Contract Documents contained in sample panels unless Architect specifically approves such deviations in writing.
- ~~A. Build full height wall(s) and include masonry openings indicated. Provide bond, coursing and joint profiles as required for the Work.~~
- 4-h. Mock-up will be reviewed for strict compliance with specified tolerances and aesthetic appearance of masonry work. Work product represented in the approved mock-up shall be consistently reproduced in masonry work of this Section; work not conforming to control standard of the approved mock-up may be rejected.

1.5 PROJECT CONDITIONS

- A. Ambient air temperature above 40 degrees F during work, and for twenty-four hours prior to, and following stopping work.
 - 1. Protect Work from damage due to exposure to extreme weather. Provide weather-resisting, and insulating enclosure, temporary heat and cooling as necessary. Replace Work damaged by extreme weather conditions.

PART 2 - PRODUCTS

2.1 SYSTEM DESCRIPTION

- A. Concrete unit masonry assemblies required as work of this Section are a component of the continuous weather-resistive air barrier required for compliance with California Title 24 Building Energy Efficiency Standards. Both the unit masonry assemblies and seals between unit masonry and other construction at openings, penetrations and transitions between different assemblies, including but not necessarily limited to weather-resistive air barrier assembly and aluminum fenestration assemblies, are required work of this Section and shall have an air leakage rate not exceeding 0.40 cfm per square foot nor otherwise contribute to a whole building air leakage rate in excess of 0.40 cfm per square foot as demonstrated by field testing of the installed work.
- B. Performance Requirements: Materials and construction conforming with ACI 530.1 Specifications for Masonry Structures.
 - 1. See Structural Notes on S-Series drawing sheets for additional requirements; refer conflicts and ambiguities to Architect.
 - 2. Limit linear shrinkage to not more than 0.065 percent.

2023005

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08.15.2025
10.28.2025

BID SET – ADDENDUM 06

2.2 MATERIALS

- A. Concrete Masonry Units: From a single source, sizes, configurations and dimensions indicated. Provide shapes for lintels, corners and special molded shapes as required. Exposed surfaces finished, without cores, provide end and corner units finished to match faces where surface is exposed to view at jambs of opening, wall ends and soffit of lintels.
1. Hollow Concrete Block: ASTM C 90, medium weight smooth face finish, with ~~no~~ water-repellant admixture. Provide units size, configuration and coursing as required.
 - a. CMU-1: Approved ~~dark grey~~ color to match the Project Control Sample; subject to required appearance match as demonstrated in approved samples the basis of design is ORCO Burnished CMU.
 - 1) Color: CA Gold.-
 - 2) Size: 12 x 4 x 16 inches, nominal.
 - b. CMU-2: Approved color to match the Project Control Sample; subject to required appearance match as demonstrated in approved samples the basis of design is ORCO CMU.
 - 1) Size: 12 x 8 x 16 (12 x 8 x 8) inches, nominal.
 - 2) Color: Standard Gray.;
 - c. CMU-3: As required for CMU-1 for sizes required.
 - 1) Size: 16 x 4 x 16 inches, nominal.
 - d. CMU-4: As required for CMU-1 for sizes required.
 - 1) Size: 8 x 4 x 16 inches, nominal.
- C. Integral Water Repellent: Provide units made with integral water repellent for exposed units and where indicated.
1. Integral Water Repellent: Liquid polymeric, integral water-repellent admixture that does not reduce flexural bond strength. Units made with integral water repellent, when tested in accordance with ASTM E514/E514M as a wall assembly made with mortar containing integral water-repellent manufacturer's mortar additive, with test period extended to 24 hours, will show no visible water or leaks on the back of test specimen.
 - a. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1) ACM Chemistries.
 - 2) Euclid Chemical Company (The); an RPM company.
 - 3) GCP Applied Technologies Inc.
 - 4) Master Builders Solutions.
 - 5) Moxie International.
- B. Mortar: ASTM C 150, Type I, or Type II Portland Cement natural color and white cement as necessary to produce color required. Provide pre-blended cement-lime mortar with ~~no~~ integral water-repellent admixture.
1. Hydrated Lime: ASTM C 207, Type S.
 2. Mortar Aggregate: ASTM C 144, 100 percent passing the No. 16 sieve for joints less than 0.25 inch.
 3. Color: ASTM C 979, Established by approved samples demonstrating acceptable match to concrete masonry units in the colors and finishes required.

- C. Grout: ASTM C 476, Prepackaged, fine or coarse as suitable for placement method required. Provide high-range water reducing admixture or other approved means of limiting water content in mixed grout without compromising placement characteristics.

1. Grout Aggregate: ASTM C 404.

- D. Reinforcing: Comply with requirements of Section 03 20 00 and the General Structural Notes.

2.2 MORTAR AND GROUT MIXES

- A. Combine and thoroughly mix cementitious, water and aggregates in a mechanical batch mixer, in compliance with referenced ASTM standards for mixing time and water content. When the use of admixtures and is approved, comply with manufacturer's recommendations for use.

1. Masonry Cement: ASTM C 91
2. Water: Clean and potable.

- B. Cement-Lime Mortar: ASTM C 270, and as specified.

1. Type S Mortar: one part cement, one half part lime, four parts sand; 28-day compressive strength of 1800 psi.

- ~~C.D.~~ Grout for Unit Masonry: ASTM C 476, and of consistency at time of placement that will completely fill all spaces to receive grout.

1. Grout Consistency: Fine in spaces less than 2 inches in horizontal direction, coarse in spaces 2 inches or more in least horizontal dimension, unless otherwise indicated.

- ~~E. Mortar Pigments: Natural and synthetic iron oxides and chromium oxides, compounded for use in mortar mixes and complying with ASTM C979/C979M. Use only pigments with a record of satisfactory performance in masonry mortar.~~

- ~~1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:~~
- ~~a. Davis Colors.~~
~~b. Euclid Chemical Company (The); an RPM company.~~
~~c. Lanxess Corporation. d. Solomon Colors, Inc.~~

- ~~F. Water-Repellent Admixture: Liquid water-repellent mortar admixture intended for use with CMUs containing integral water repellent from same manufacturer.~~

- ~~1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:~~
- ~~a. ACM Chemistries.~~
~~b. Euclid Chemical Company (The); an RPM company.~~
~~c. GCP Applied Technologies Inc. d. Master Builders Solutions.~~

- D. Accessories:

1. Wall Cavity Guard, Vents and Weeps: Nonwoven, mesh inserts of recycled polyester fiber, provide two layers staggered in height, 10 and 6 inches tall in thickness recommended by manufacturer for cavity indicated. Provide Vent and Weep inserts

- 1. Brace walls against wind and earthquake loads until the wall has been grouted and integrated into the building structure.
- B. Reinforcement: Clean of loose rust, mill scale, earth, ice, and materials which will reduce bond to mortar or grout; without kinks, bends, and reduced cross-section not shown on drawings.
 - 1. Provide minimum clearance for reinforcing of 0.25 inch from the masonry. Provide minimum 1 inch of grout cover on horizontal reinforcing. Secure reinforcing prior to grouting at intervals not exceeding 200 bar diameters.
- C. Place reinforcement at spacing and locations indicated and prevent displacement. Except as otherwise indicated, provide a clear distance between bars of one inch, or one bar diameter, whichever is greater.
 - 1. Columns, Piers and Pilasters: 1.5 inches, or 1.5 times bar diameters, whichever is greater. Provide lateral ties as indicated.
 - 2. Reinforcing Bars: Straight except for bends around corners and where bends or hooks are indicated.
 - 3. Complete installation of all reinforcing prior to grouting masonry cells.
- D. Splices: Lapped, and wire tied; at locations indicated unless otherwise acceptable to the Architect.
 - 1. Minimum Lap: 18 inches, and as required by Structural plans.
- E. Weld splices where indicated. Comply with the requirements of AWS D1.4 for welding materials and procedures.
- F. Metal Ties: Mortar cover of 0.6250-inch exterior wall face; 0.5 inch elsewhere.
- G. Preparation of Grout Spaces: Cleanout holes shall be provided through face of unit masonry for all cells at the bottom of each pour. Inspect and clean, remove dirt, mortar droppings, loose masonry and other foreign materials from grout spaces, and close cleanout holes with matching masonry units; brace closures to resist grout pressures.
 - 1. Provide continuous unobstructed cell area not less than 2 inches by 3 inches.
 - 2. Close cleanout holes so the surface is similar to the rest of the wall, face shell plugs shall cure at least 48 hours before grouting. Brace covers on the clean out holes as required to resist the pressure from the grout.
- H. Cells of Reinforced Masonry Units: Grouted solid and vibrated in place; stop grout 1 inch below the top of a course to form a key off-set from masonry coursing. Prevent segregation of grout mix during transport and placement. Minimize grout splatter and ensure reinforcing and masonry unit surfaces are fully encased with each grout lift.
 - 1. Grout beams in one continuous operation.
 - 2. Low Lift Grouting: Lifts of 2 feet or less.
 - 3. High Lift Grouting: Minimum dimensions of the grout space shall be 3 inches. Place grout in maximum 4-foot lifts, and then wait approximately 30 minutes between lifts. The full height of each pour shall be poured in 1 day. Maximum height of a pour is 12 feet.

3.3 ERECTION

- A. Lay masonry in pattern indicated, provide uniform coursing, bonding, color and texture. Match new Work to existing adjacent work, and Work in-place unless otherwise indicated.

2023005

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08.15.2025
10.28.2025

BID SET – ADDENDUM 06

1. Bond Pattern: ~~Bond as shown in Drawings, Stack and Running bond, unless otherwise indicated, center vertical joints above units in course below.~~
 2. Adjusting Set Units: Do not strike nor force; remove unit, clean off mortar and reset in fresh mortar.
 3. Mix mortar in proportion necessary to comply with Project performance requirements and referenced standards; incorporate water repellent admixture in exterior assemblies unless otherwise approved.
 4. ~~Provide Machine Ground finish surface on all exterior surfaces exposed to view and as required for interior surfaces exposed to view in select locations.~~
- B. Maintain 0.375-inch joint width unless otherwise indicated, except for minor variations required to maintain bond alignment.
1. Concealed Joints: Tool flush, unless otherwise indicated.
 2. Exposed Joints:
 - a. ~~CMU Type 1, Type 3 and Type 4: Provide struck horizontal and flush vertical joint.~~
 - 2-b. ~~CMU Type 2:~~ Rodded, unless otherwise indicated.
- C. Provide control joints to comply with NCMA recommendations and where shown on approved shop drawings. Interrupt reinforcement at movement joints unless otherwise indicated.
1. Movement Joints: Provide elastomeric sealant complying with Section 07920 requirements. Sealant color and tooling of joint shall provide close visual match to mortar joints.
- D. Lay masonry units with full mortar coverage on horizontal and vertical bedding planes, do not slush head joints. Bed CMU webs in mortar at piers, columns, pilasters, and cells adjacent to cavities to be grouted. Provide full mortar bed including area under cells at starting course of footings where cells will not be grouted. Provide mortar types specified and where indicated.
1. Type S Mortar: Structural masonry.
- E. Build-in items to be installed as work of this Section, fit solidly with masonry.
1. For items embedded in core, place layer of metal lath in the joint below and rod grout into core. Grout core for three courses under bearing plates, lintels, and similar items, unless otherwise indicated.
 2. Provide EPS board insulation around perimeter of exterior frames.
 3. Provide recess for flexible sealant around perimeter of exterior frames and openings as indicated.
 4. Voids At Built-in Items: Grouted solid unless otherwise indicated.
- F. Provide concealed flashing in masonry work at shelf angles, lintels, ledges and obstructions to the downward flow of water in the wall to divert water to the exterior. Install as indicated and as specified in Section 07 60 00, on smooth, even surfaces, sloped where required.
1. Penetrations and Joints: Sealed, overlap end joints 1.5 inches, interlock sheet metal flashings.
 2. Extend flashings through exterior face of masonry and turn down to form drip, unless otherwise indicated.
 3. Extend flashing the full length of lintels and shelf angles and minimum of 4 inches into masonry at each end; ends that are not interlocked shall be turned up 2 inches to form a pan.
 4. Through-wall Flashing: From exterior face to within 0.5 inch of the interior face of masonry in exposed work; from exterior to interior and turn up 2 inches at interior surface in concealed work. Turn flashing up 4 inches in cavity.

- G. Provide vertical and horizontal joints where shown. Interrupt reinforcement at movement joints unless otherwise indicated.
 - 1. Build-in non-metallic joint fillers at locations indicated to accommodate forces, and movement anticipated and shown. Provide beneath shelf angles supporting masonry.
 - 2. Expansion Joints: Install as indicated and as recommended by manufacturer. Overlap ends of units 4 inches in direction of water flow; seal ends below grade, and junctures with horizontal units.
- H. Do not apply uniform loads for twelve hours nor concentrated loads for three days after building walls and columns.
- I. Clean exposed surfaces of set masonry, remove mortar spills and loose units, prior to laying fresh masonry wet units lightly as necessary. After Work is thoroughly set and cured. Comply with masonry manufacturer's directions and applicable NCMA "Tek" bulletins.
 - 1. Remove mortar particles by hand using non-metallic tools.
 - 2. Chemical Cleaning: Provide for removal of efflorescence and other stains in accordance with approved samples. Comply with manufacturer's recommendations for cleaning. Use most dilute solution possible to obtain required results. Protect adjacent surfaces from damage, cover with strippable liquid masking agent, or other approved protection.

3.4 CONSTRUCTION TOLERANCES

- A. Variation from Plumb: Do not exceed the following limits.
 - 1. Vertical surfaces and arrises 0.25 inch in 10 feet, 0.375 inch in single story up to 20 feet, and 0.5 inch in 40 feet or more.
 - 2. External corners, expansion joints, control joints and conspicuous lines, 0.25 inch in 20 feet and 0.5 inch in 40 feet or more.
 - 3. Vertical alignment of head joints plus or minus 0.25 inch in 10 feet, 0.5 inch maximum.
- B. Variation from Level: Do not exceed the following limits.
 - 1. Bed joints, lintels, sills, parapets, and conspicuous lines: 0.25 inch in any bay or 20 feet maximum, 0.5 inch in 40 feet or more.
 - 2. Top of bearing walls: 0.125 inch between adjacent floor elements in 10 feet or 0.0625 inch within width of a single unit.
- C. Variation of Linear Building Line: For position shown in plan and related portion of columns, walls, and partitions, do not exceed 0.5 inch in 20 feet and any bay, 0.75 inch in 40 feet or more.
- D. Variation in Cross-Sectional Dimensions: For columns and thickness of walls, from dimensions shown, do not exceed minus 0.25 inch nor plus 0.5 inch.
- E. Variation in Mortar Joint Thickness: plus or minus 0.125 inch from dimension indicated; maximum bed joint thickness limited to 0.5 inch.

3.5 FIELD QUALITY CONTROL

- A. Unit Test: Each type, grade and class of masonry unit used in Work of this Section by the following methods.
 - 1. Concrete Masonry Units: ASTM C 140.

2023005

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ALTADENA LIBRARY DISTRICT

08.15.2025
10.28.2025

BID SET – ADDENDUM 06

- B. Prism Test: ASTM E 447, Method B for each type of wall construction indicated. Prepare prisms as specified for preconstruction testing.
 - 1. Sample Incidence: Two prisms for each 5000 sq. ft. of wall area installed.
- C. Flexural Bond Strength Tests: ASTM E 518; place prism with tooled joints facing down.
- D. Test each type of mortar used in accordance with ASTM C 780.
 - 1. Sample Incidence: As required to evaluate mortar from each increment of masonry units from which tests samples are taken.
- E. Tests Results: Indicate compliance with requirements for Work to be accepted, and there shall be no other indication of noncompliance.

3.6 PROTECTION

- A. Protection: During precipitation, and at end of each day's work, cover top of walls, openings, penetrations, and cavity with waterproof sheeting 24 inches down each side, secured in place.
- B. Prevent grout, mortar and dirt from soiling masonry surfaces, cover masonry and adjacent ground surface as necessary; remove grout and mortar spills when they occur, do not permit to set.
- C. Provide final protection and maintain conditions in a manner acceptable to Installer and Architect, maintain Work free of damage and deterioration until substantial completion.

END OF SECTION

SECTION 05 51 00 – ARCHITECTURAL METAL STAIRS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes requirements for Architectural Metal Stairs at Lower and Main Levels, as indicated on A001 and elsewhere on the drawings.
- B. Related Sections:
1. Section 05 52 00 Metal Guards and Railings.
 2. Section 05 52 13 Glazed Guards.
 3. Section 05 50 00 Metal Fabrications.
 4. Section 09 66 [23 Resinous Terrazzo Flooring](#).
 5. Section 21 13 [13 Wet Pipe](#) Sprinkler Systems.

1.2 ADMINISTRATIVE REQUIREMENTS

- A. Provide for advance coordination for work of this Section with building structure for required connection and support and work of related Section as necessary to ensure compliance with System Description requirements. Prevent the need for subsequent modifications to completed work of this Section and work of the Related Sections.
1. Provide coordination of steel fabrication work of this Section with guardrail assemblies of Section 05 52 00, finish stainless steel cladding assemblies of Section 05 50 00 and precast terrazzo treads and landing platforms of Section 09 66 [23](#).

1.3 SUBMITTALS

- A. Product Data: Provide the following; when requested provide additional data for materials and manufactured products proposed for use in the Work;
- B. Shop Drawings: Plans, elevations, structural calculations, field measurements, and details of sections, anchorages and accessories for stairs. Indicate coordination provisions for subsequent attachment of guardrail assembly, terrazzo fabrications and stainless-steel cladding. Include structural calculations and stamp of registered Engineer for Contractor designed Work.
1. Indicate dimensional tolerances for coordination with work of Related Sections and verify completed assembly compliance with dimensions and tolerances required for the Work.
 2. Indicate erection aids, locations, method of attachment and subsequent removal following erection.
 3. Coordination with components embedded in cast-in-place concrete and connections at building structure.
 4. Coordination with sprinkler piping location, support from stair structure and routing.
- C. Erection Plan: Indicate Contractor's sequence, means and methods including but not limited to temporary support and bracing, erection aids - type and locations proposed. The Plan is required only to demonstrate compliance with requirements to plan the work and compliance with requirements for installed stair assembly.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

[10.28.2025](#)BID SET – [ADDENDUM 06](#)

- D. Certificates: Welding operator qualification.

1.4 QUALITY ASSURANCE

- A. Welding Processes and Operator Qualifications: AWS D1.1, D1.2, and D1.3, AWS Code for manual shielded metal-arc welding, and remedial work. Certify welding operators have passed AWS qualification tests.
- B. Fabricator: Participant in the AISC Certification program and is designated an AISC Certified Plant, Category STD; alternative means of demonstrating qualifications for control of appearance in the work including but not limited to work samples may be acceptable as required for Substitutions.
- C. Coating Applicator: Staff of craft-workers who are SSPC Interim Status Certification as a Coating Application Specialist or AISC Certification for shop application of Complex Protective Coating Systems. or other acceptable SSPC certification demonstrating the necessary skill and experience who will be assigned to work of this Project as a supervisor or applicator of the coating systems required.

1.5 SYSTEM DESCRIPTION

- A. Design Requirements: Comply with NAAMM Metal Stair Manual for Architectural Class assembly in configuration required for connection and support from primary building structure and to comply with requirements of Related Sections for ~~glazed guards,~~ precast terrazzo and concrete treads ~~and architectural cladding.~~
 - 1. Stair Treads, and Landing Platforms: Completed assembly shall provide for support and connection of precast terrazzo treads, glazed guards and architectural metal cladding work as required for work of these Related Sections.
 - a. Terrazzo and Concrete Treads: Coordinate with Section 09 66 23 for precast terrazzo stair treads and Section 03 48 19 for precast concrete treads and ensure required connection and support of treads.
 - ~~2. Glazed Guards and Handrails: Coordinate with Section 05 52 00 and ensure stair structure provides necessary attachment and support of loads imposed by guard assembly per System Description requirements of that Section.~~
 - ~~3.2.~~ Coordinate stair structure fabrications and final assembly to comply with S0.01 and S0.02 and as otherwise required for the Work.
 - ~~4.3.~~ Dimensional Uniformity: Comply with CBC Title 24, Part 2 Volume 1 Section 1009 and 1011 for stairways and Sections 1014 and 1015 for railings and guards.
 - ~~5.4.~~ Fire Suppression Sprinklers: Final design of stair assembly shall provide for support of and fully concealed service pipe and locations of sprinkler heads as necessary for required coverage in coordination with finish cladding and as otherwise directed by the Architect.
 - ~~6. Stainless Steel Cladding: Coordinate with work of Section 05 50 00 for supplemental support components and final installation of architectural finish fabrications fully enclosing stair structure and glazed guard base shoe as required.~~
- B. Performance Requirements: Primary stair
 - 1. Stair Treads and Landing Platforms: Comply with live and concentrated load requirements of CBC Title 24 Part 2 Volume 2 Section 1607 and as otherwise necessary for connection and support of precast terrazzo treads.
 - ~~2. Glazed Guards and Handrails: Coordinate with work of Section 05 52 00 and provide support and attachment of assemblies to ensure compliance with Performance Requirements of that Section.~~

2023005	ALTADENA MAIN LIBRARY ALTADENA LIBRARY DISTRICT	08.15.2025 <u>10.28.2025</u>
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~~3.2.~~ Allowable Deflection: Comply with CBC Title 24 Part 2 Volume 2 Section 1604.3.

1.6 MATERIALS

- A. Steel: Smooth, free of surface blemishes, pitting, seam marks, roller marks, and rolled trade names, Class, Grade, coatings and finish as indicated, unless otherwise required.
 - 1. Plates, Shapes and Bars: ASTM A 36.
 - 2. Tubing: Cold formed, ASTM A 500; hot rolled, ASTM A 501.
 - 3. Structural Sheet: Hot-rolled, ASTM A 1011, Designation CS; cold-rolled ASTM A 1008 Designation CS.
- B. Bolts, Fasteners and welding materials in accordance with approved Shop Drawings.
- C. Expanded Metal: Flattened, hot rolled, mill finished, carbon steel 3/4 No. 9 diamond mesh, 0.923 Short Way of Design by 2.1 inch Long Way, 71 percent open area.

1.7 FABRICATION

- A. Shop Assembly: Required, minimize field assembly, disassemble only as necessary due to limitations of shipping and handling; mark units for reassembly and installation.
- B. Material Size and Thickness: As indicated and required for strength and durability in finished product for use intended. Use structural steel shapes, plates and bars, unless otherwise required.
- C. Form Work true to line and level with accurate angles and surfaces and straight sharp edges. Radius exposed edges approximately 1/32 inch unless otherwise indicated. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.
- D. Weld corners, joints, and seams continuously. Comply with AWS standards. Provide uniform size and profile in welds and coordinate joinery so as not conflict with finish cladding assembly and secondary supports.

~~E. Exposed Connections: Ensure the completed stair structure assembly will be fully enclosed by architectural cladding work of Section 05 50 00 including but not limited to portions of glazed guards indicated to be concealed.~~

- ~~F.E.~~ Tolerance: Control and reduce deviations in dimensions from those indicated for the work and variations for like components in the final assembly to ensure required fit and appearance of the completed and finished stair and as necessary for incorporation of work of Related Sections having Architectural finish quality appearance.
 - 1. As a minimum, conventional tolerances shall be reduced by 30 percent for work of this Section.

1.8 SHOP PAINTING

- A. Shop Prepare and Prime Steel Framed Stairs:
 - 1. Surface Preparation for Prime Paint: Comply with recommendation of the prime paint manufacturer for formation of durable paint bond to substrate; SP-3 Power Tool Cleaning shall be the minimum unless otherwise acceptable.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025

BID SET – ADDENDUM 06

2. Prime Paint: Provide an approved direct to metal, corrosion inhibiting primer having a record of successful in-service performance.

PART 2 - EXECUTION

2.1 EXAMINATION

- A. In preparation of shop drawings, verify in field dimensions for stair rise, run and configuration and support and connection conditions to building structure and all other dimensions that may affect the work. Coordinate data with shop drawings and fabrication to avoid need for field modifications to Work.
- B. Installer shall examine conditions for installation of Work and notify Contractor of conditions detrimental to proper and timely completion. Do not proceed until unsatisfactory conditions are corrected. Start of installation interpreted as installer's acceptance of conditions.

2.2 INSTALLATION

- A. Stair Assembly Erection: Exercise a high degree of craftsmanship and care in handling and installing appropriate to finish grade components. Use tools and methods that will minimize the potential of damage to these components and compromise installation of subsequent finish work. Protect installed work from damage during subsequent construction activities and damage from exposure to weather. Set Work measured from established lines and levels accurately in location, and elevation; align, plumb, level, true, and free of racking and movement. Cut, drill, and fit as necessary for required installation. Brace, support, and anchor Work during installation as necessary with neither damage nor alteration affecting subsequent work.
- B. Align connections accurately, form tight joints and durable and stable connections. Provide welded and bolted connections as approved for field joints. Welds shall be ground and finished where they may otherwise impede subsequent work of glazed guards and finish cladding.
- C. Connect stair structure to primary building structure and support to comply with System Description.
- D. Immediately after erection, prepare field welds, and damaged areas of shop applied paint, and repaint with material originally used for shop painting.
- E. Tolerances for Field Erection: Comply with requirements for shop fabrication and assembly.

END OF SECTION

SECTION 05 52 00 - METAL GUARDS AND RAILINGS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes requirements for custom guard and handrail assemblies at stairs, open side of floors and other required locations.

1.2 ADMINISTRATIVE REQUIREMENTS

- A. Advance Planning and Coordination Procedures: Proactive for coordination of work of this Section with concrete work of Section [03 30 00 03 48 13], metal decking of Section 05 30 00 for guard support and connections at open side of floors, Section 05 50 00 for stair structure affecting guard connections and supports, and finish work. Ensure compliance with System Description and prevent the need for subsequent modifications to fabricated and installed work or Related Sections. Participation by all pertinent parties, including but not limited to Fabricator, Erector, Contractor and the design engineer for delegated design work.
- B. Sequence and Schedule: Prevent trafficking of sensitive finish treatments on stair tread, risers and landings; delay application of finishes to prevent damage and wear without obstructing Project Schedule.

1.3 SUBMITTALS

- A. Product Data: Provide the following; when requested provide additional data for materials and manufactured products proposed for use in the Work.
- B. Shop Drawings: Plans, elevations, field measurements, details of sections, anchorage and accessories for guard assemblies. Document coordination for attachment of guard assembly to supports and integration with finishes. Include structural calculations, seal and signature of registered Engineer for design work delegated to the Contractor.
- C. Samples: Provide three of each required for standard components of cable guardrail assemblies, custom guardrail stanchions, handrails and supports.
 - 1. Wire Mesh Guards: Provide wire mesh fabric, frame, fittings, tension rod and all hardware necessary for complete installation; wood top rail in profile, milled for continuous concealed flat bar, in species and finish indicated.
 - 2. Finish Sample: For one set of stanchion-rail samples provide stepped demonstration of mill finish, prepared surface, shop primer and field applied finish, coordinate with section 09 91 13, 09 91 23 and 09 96 00 for finish painting, and mechanical finish on stainless steel handrail.
- D. Certificates:
 - 1. Welding operator qualification.
- E. Mock-Up: Provide complete, full-size guard and handrail assembly as required for the Work and configured for stair mock-up specified in Section 05 50 00. Mock-up assembly shall be complete with all fittings, hardware, components and finishes.

2023005

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ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET ADDENDUM 06

1.4 QUALITY ASSURANCE

- A. Welding Processes and Operator Qualifications: AWS D1.1, D1.2, and D1.3, AWS Code for manual shielded metal-arc welding, and remedial work. Certify welding operators have passed AWS qualification tests.

PART 2 - PRODUCTS

2.1 SYSTEM DESCRIPTION

- A. Performance Requirements: Comply with barrier free access requirements of CBC Title 24 Chapter 11 and barrier free access requirements.
1. Handrails and Top rails: ASTM E 935; concentrated load: 200 foot-pounds applied in any direction; uniform load: 50 pounds per lineal foot applied concurrently vertically and horizontally normal to top rail.
 2. Guardrails: Uniform load equivalent to 50 pounds per square foot of gross area of guard, including open areas; concurrent with top rail concentrated load for determining stress on supporting members.
 3. Allowable Deflection: Comply with ICC Section 1604.3
 4. Stress Due to Differential Loads: Accommodate to maintain specified performance requirements.

2.2 MATERIALS

- A. Steel: Smooth, free of surface blemishes, pitting, seam marks, roller marks, and rolled trade names, Class, Grade, coatings and finish as indicated, unless otherwise required.
1. Plates, Shapes and Bars: ASTM A 36.
 2. Tubing: Cold formed, ASTM A 500; hot rolled, ASTM A 501.
 3. Structural Sheet: Hot-rolled, ASTM A 570, Grade 30; cold-rolled ASTM A 611, Grade A.
- B. Stainless Steel: AISI Type 302/304, unless otherwise indicated.
1. Perforated Sheet: ASTM A 666; 14 Gage with 0.25-inch diameter holes, staggered on 0.375 inch centers, 40 percent open area having 0.5 inch wide blank margin on vertical edges. Orient perforations to align horizontally. Machine leveled to the following tolerances measured per ASTM A 505.
 - a. Flatness: 0.25 inch in any 36 inches.
 - b. Camber: 0.125 inch in any 48 inches.
 - c. Burrs: Not more than 0.003 inch maximum, do not reduce open area.
 2. Tubing: ASTM A 554.
 3. Plate: ASTM A 666.
 4. Bar and Rod: ASTM A 276.

2.3 FABRICATION

- A. Shop Assembly: Required, minimize field assembly, disassemble only as necessary due to limitations of shipping and handling; mark units for reassembly and installation.
- B. Material Size and Thickness: As indicated, and required for strength and durability in finished product for use intended. Use structural steel shapes, plates and bars, unless otherwise required.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025

BID SET ADDENDUM 06

- C. Form Work true to line and level with accurate angles and surfaces and straight sharp edges. Radius exposed edges approximately 1/32 inch unless otherwise indicated. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.
- D. Weld corners, joints, and seams continuously. Comply with AWS standards. Grind exposed welds smooth, and flush; match adjoining surfaces.
- E. Exposed Connections: Welded to greatest extent possible, otherwise, use concealed fasteners where possible. Provide uniform, hairline-tight joints, flush and smooth.
 - 1. Exposed Fasteners : Provide acorn type cap head nuts as required.

2.4 HAND AND GUARD RAILINGS

- A. Guardrails and Handrails on Open Side of Floors: Comply with requirements for stair assemblies and configurations indicated. Coordinate height of sloped assemblies with horizontal assemblies to maintain required heights at transition points.
 - 1. Guardrails and Handrails: Custom fabrication of stainless steel plate and bar, with hardwood or stainless steel hand and top rails and stainless steel wire mesh infill panels as indicated in Drawings. Provide assemblies in configuration indicated.
 - a. Anchor Screws: 18-8 stainless steel, 1 inch, Number 7, countersunk square Allen drive wood screw.
 - b. Concrete inserts: Per Drawings and approved Shop Drawings; coordinate high-strength, no-shrink setting material with Section 03 30 00.
 - ~~c. Brackets: Provide in type and spacing as indicated in approved Shop Drawings.~~
 - 2. Stainless Steel and Steel Tube Handrail: Configuration, pipe sizes, and wall thickness indicated, but not less than required to support design loading in minimum number of joints to provide lengths indicated.
 - a. Joints: Butt-weld, weld with internal connectors, cope, and miter as indicated
 - b. Bends and Curves: Uniform, maintain constant pipe cross-section free of deformation throughout bend. Form by bending pipe in jigs and with prefabricated fittings
 - c. Close pipe ends with 3/16-inch-thick steel plate, return railing to wall unless otherwise indicated.
 - ~~d. Standards: Continuous with pipe railings, as shown in Drawings. Provide custom stainless steel plate escutcheon at pipe penetration as indicated on Sheet L110. Stainless steel bar welded to top rail. Control weldments for uniform width and minimum visibility. Plug weld rods to steel angle top rail and grind smooth on bottom face of horizontal leg.~~
 - ~~3-e. Brackets: CRL brushed stainless handrail bracket in Series as selected by Architect.~~
 - ~~4-3. Toe Boards: Provide only where indicated and as shown, but no less than 1/8-inch plate 4 inches high, center between and weld to each railing post.~~
- B. Curved Sections: Formed to regular, uniform curve of required radius.
- C. Tolerances: For fully assembled units, not additive to tolerances for components specified in this Section nor work of other Sections.
 - 1. Total Deviation from Plumb: 0.125 inch in four feet.
 - 2. Deviation From True Lines: 0.25 inch in ten feet.
 - 3. Deviation From True Curve: 0.375 inch, radius ten feet and greater.
 - 4. Variation in Joint Width: 0.0625 inch in 5 ft; 0.1875 inch in 15 ft.

2.5 ELEVATED WALKWAY GUARDS

- A. Work Scope to be finalized in Site Walk and field review of existing elevated walkway with Owner, Architect and Contractor prior to Bid, and may include but is not necessarily limited to the following:
1. Selective removal, restoration and refinishing of existing 3/8-inch stainless steel elevated walkway tie-rods installed at 7.5 inches on center.
 2. Replacement of deformed or corroded elevated walkway tie-rods as determined by Owner/Architect, retrofitting matching 3/8-inch stainless steel tie-rods at existing horizontal steel framing elements.
 3. Placement of new elevated walkway 3/8-inch stainless steel tie-rods to match existing at 7.5 inches on center.
 4. Replacement of hardware identified for replacement.
 5. Placement of new, continuous, woven stainless steel wire as shown in Drawing details, supported top and bottom, woven, affixed and tensioned as indicated. Basis of Design wire fabric is Cambridge Architectural Mesh ([a REXNORD BUSINESS](#)), Rigid Mesh.
 - a. Pattern: Chaos.
 - b. Open Area: 69%.
 - c. Weight: 1.38 pounds/square foot.
 6. All new and replacement hardware shall be Type ~~316~~304 stainless steel.
- B. Completed guard assembly shall meet CBC Title 24 Part 2 Section 1015 and 1607.9 structural criteria.

2.6 SHOP PAINTING

- A. Shop Priming and Field Finishing of Steel Framed Stairs: Comply with requirements of Section 05 12 00 for exposed structural steel and Section 09 90 00 for field applied finish.
1. Surface Preparation for Prime Paint: SP-6 Commercial Blast Cleaning using only abrasive media blasting, wheelabrator and similar tools are not acceptable. Preparation shall not impart surface texture that cannot be covered by the prime paint application.
 2. Material and fabrication defects and unacceptable characteristics revealed by surface preparation such as weld imperfections, delamination, scabs and slivers shall be corrected before completion of surface prep and primer application.
- B. Prime Paint: One coat of two-component, white, polyamide epoxy 4.0 to 6.0 mils dry film thickness, 375 grams per liter maximum VOC, two-component polyamide epoxy. PPG Pitt-Guard 97-145; ICI Devran 220; S-W Recoatable Epoxy Primer B67; Tnemec Series 27 F.C. Typoxy; provide products of one manufacturer for prime and finish paints. Shop prime prepared substrates immediately following surface preparation. Field finish paint per Section 09 90 00 requirements coordinate paint products to ensure compatibility.
- C. Hot-Dip Galvanizing: Per ASTM A 123 Coating Grade 100; provide on members exposed to weather, including but not limited to members in masonry cavity walls. Prepare per SP-3 except as otherwise necessary to remove unacceptable characteristics from work exposed to view and as required for application of other shop coatings.
1. Galvanized Components Exposed to View: Comply with ASTM A 384 control warp and other distortion of galvanized components. Galvanizing tank shall be of sufficient size to allow member to be fully coated in one immersion. Prepare galvanized components required to be painted as necessary to ensure the formation of a durable paint film.
 2. Comply with ASTM D 6386 requirements for preparation of galvanized surfaces to be painted and as otherwise necessary to ensure a durable paint bond.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT08.15.2025
10.28.2025BID SET ADDENDUM 06

3. Galvanizing Repair Paint: SSPC-Paint-20.

- D. Surface Preparation: After inspection and before shipping, clean steel work to be painted. Remove loose rust, loose mill scale, and spatter, slag or flux deposits. Clean steel in accordance with Steel Structures Painting Council (SSPC) as follows:
1. SP-1 "Solvent Cleaning".
 2. SP-2 "Hand Tool Cleaning".
 3. SP-3 "Power Tool Cleaning".
 4. SP-5 "White Metal Blast Cleaning".
 5. SP-6 "Commercial Blast Cleaning".
 6. SP-7 "Brush-off Blast Cleaning".

2.7 SHOP FINISHING

- A. Comply with NAAMM "Metal Finishes Manual" for finish designations and application recommendations, except as otherwise indicated.
1. Stainless Steel: ASTM A 480 No. 4. non directional polish. No Satin Brush, No. 6, finish a number 6 surface with Tampico brushing
 2. Welds: Ground smooth, polished and passivated for seamless appearance.
- B. After fabrication, finish joints, and bends, and repair damaged finish to match sheet finish. Prevent damage to finished material with temporary covering or other acceptable protection.
- C. Transparent Handrail Finish: Reference Section 09 91 23 Interior Painting for transparent wood finish requirements.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Prior to preparation of shop drawings, verify in filed dimensions indicated, coordinate with shop drawings and fabrication to avoid need for field modifications to the Work.
- B. Installer shall examine conditions for installation of Work, and notify Contractor of conditions detrimental to proper and timely completion. Do not proceed until unsatisfactory conditions are corrected. Start of installation interpreted as installer's acceptance of conditions.

3.2 INSTALLATION

- A. Set Work accurately in location, and elevation; align, plumb, level, true, forming constant radius or line, and free of rack when measured from established lines and levels. Cut, drill, and fit as necessary for required installation. Brace, support, and anchor Work during installation as necessary.
- B. Align connections accurately, form tight hairline joints. Unless otherwise required, provide bolted connections for field joints. Exposed welds shall be ground smooth and flush and finished for seamless appearance; repair shop applied coatings. Do not weld, cut or abrade units intended for bolted, and screwed field connections.
- C. Properly secure Work to in-place construction. Provide flanges, collars, and sleeves to conceal joints, and as required. Use concealed anchors unless otherwise indicated.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025

BID SET ADDENDUM 06

1. Exposed bolts shall have acorn type cap head nuts - provide cap head as finish nut over structural nut where necessary to comply with structural bolting requirements. Align facets of stacked nuts for uniform appearance, and coordinate application of cap nut with special inspections requirements.
- D. Immediately after erection, prepare field welds, and damaged areas of shop applied coatings paint, and repaint with material originally used for shop painting. Provide dry film thickness of 2.0 mils.
 1. Galvanizing: Comply with ASTM A 780 and provide uniform appearance in the repaired work.
- E. Finish Painting: Field applied per Section 09 90 00 requirements.

3.3 FIELD QUALITY CONTROL

- A. Hand and guardrail assemblies are subject to evaluation by the Owners Quality Control Agent per ASTM E 894 Test Method for Anchorage and E 935 Test Methods for Railing Systems.
 1. Owner may elect to have a representative sampling of each type of railing, cantilevered, wall mounted tested as necessary to verify compliance with Contract requirements.

END OF SECTION

SECTION 06 10 00 – ROUGH CARPENTRY

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes requirements for rough carpentry, and incidental carpentry for support or attachment of other work.
- B. Related Sections:
 - 1. [Section 06 16 43 Gypsum and Cementitious Sheathing](#)
 - ~~4.2.~~ Section 06 20 00 Finish Carpentry.
 - ~~2.3.~~ Section 06 40 00 Architectural Woodwork.

1.2 SUBMITTALS

- A. Product Data: Manufacturer's product literature for fasteners, vapor barrier tape, building paper, sheathing, wood preservative materials, and application instructions.
 - 1. Certifications: Demonstrate compliance with Quality Assurance, requirements.
 - 2. Compliance with Local / Regional Materials requirements.
 - 3. Schedule of Values Documentation: Added cost, if any, for sustainably sourced wood products. Value-added as a result of shop fabrication of certified wood products.
 - 4. Document Chain of Custody from forest of origin through manufacturing and fabrication. Include certified status and location of forest of origin and location of manufacture (mill).
- B. Evaluation Reports: ICC-ES Report with applicable Legacy ICBO Evaluation Report and Legacy NES Report Number for each type of fastener.

1.3 QUALITY ASSURANCE

- A. Evidence of Grade: Conform to California Building Code Chapter 23 and DOC PS 20-20.
 - 1. Rough Lumber: Stamp each piece of lumber and plywood with grade mark and trademark of Association having jurisdiction.
 - 2. Acceptable Lumber Inspection Agencies: Any agency with rules approved by American Lumber Standards Committee.
- B. Fire-Retardant Treated Wood: Mark each piece of wood with producer's stamp indicating compliance with specified requirements.
- C. Preservative-Treated Wood: Provide lumber and plywood marked or stamped by an ALSC-accredited testing agency, certifying level and type of treatment in accordance with AWPA standards.
- D. Moisture Content:
 - 1. Certify that lumber and wood panels (surface dry, surface green, and kiln dried) contain no more than 15 percent moisture content when delivered to site.
 - 2. Monitor moisture content of in-place wood and take remedial action to lower unacceptable moisture content.

- E. Foreman Qualifications: Fifteen years successful experience with Work similar to that required for this Project, especially work involving exposed wood structure. The last three years of their experience shall be with the firm they are presently working for. This foreman shall have authority to direct the work of this Section and shall be on site at all times work of exposed wood structure is in progress.
 - 1. Certification of Qualifications: Five recent jobs similar to this Project, include project and contact name, location, and date.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Store wood materials a minimum of 6 inches above ground on framework or blocking, away from dirt and moisture, well ventilated, and covered with waterproof covering.
- B. Delivery Storage and Handling: Keep materials dry, and prevent exposure to weather; store in orderly, well-ventilated stacks. Conform to chain of custody requirements as necessary to maintain FSC certification.

1.5 COORDINATION

- A. Coordinate rough carpentry of this Section with other Sections to make Work fit together.
- B. Coordinate with other Sections for work mounted to or supported by wood framed assemblies provided as work of this Section.

PART 2 - PRODUCTS

2.1 LUMBER

- A. Lumber Grading Rules: WWPA or WCLIB based on DOD PS 20.
- B. Structural Lumber and Timber: Conform to Structural Drawings for wood framed construction subject to structural loading, including maximum allowable moisture content.
- C. Non-Structural Framing Lumber: Include wood framed construction and components not subject to structural loading as defined by Structural Drawings.
 - 1. Species: Douglas Fir-Larch.
 - 2. Grade: WWPA or WCLIB, No. 2.
- D. Condition of Seasoning (Moisture Content):
 - 1. Nominal 2-inch Thickness: S-DRY, 15 percent maximum moisture content.
 - 2. Nominal 4-inch Thickness or Greater: S-GRN. Air dry to 19 percent maximum moisture content.

2.2 WOOD PANEL PRODUCTS

- A. General: APA Grade Stamp each panel. Conform to DOC PS 1 and DOC PS 2 for cross laminated veneer panel.
 - 1. APA A-A Group 1, Exposure 1: Where face exposed both sides.
 - 2. APA PS 1, A-D Group 1, Exposure 1: Face exposed one side.
 - 3. APA PS 1, C-D Plugged Group 2, Exposure 1: Face unexposed.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

4. APA, Exterior: Provide in lieu of Exposure 1 where panels are subject to permanent weather exposure or prolonged weather exposure of 6 months or more prior to being covered with weathertight construction.
- B. Wall Sheathing: APA Plywood Rated Sheathing Exposure 1 or APA Structural I Rated Sheathing Exposure 1, 15/32 inch thick, except as otherwise shown on Structural Drawings.
1. Joints: Square edge.
 2. APA Span Rating: Not less than Index 32/16.
- C. ROOF SHEATHING – Reference Structural Plans for additional Requirements.
1. Plywood Sheathing: Either DOC PS 1 or DOC PS 2, Exposure 1, Structural I sheathing.
 - a. Span Rating: Not less than 48/24.
 - b. Nominal Thickness: Not less than 1/2 inch (13 mm).
- D. PARAPET SHEATHING
1. Plywood Wall Sheathing: Either DOC PS 1 or DOC PS 2, Exposure 1, Structural I sheathing.
 - a. Span Rating: Not less than 32/16.
 - b. Nominal Thickness: Not less than 1/2 inch (13 mm).
- E. Glass-Mat Gypsum Sheathing: ASTM C1177/C1177M.
1. Type and Thickness: Type X, 5/8 inch (15.9 mm) thick.
 2. Size: 48 by 96 inches (1219 by 2438 mm) or 48 by 120 inches (1219 by 3048 mm) for vertical installation.
- G.F. Equipment Mounting Panels: Fire-retardant treated, APA C-D PLUGGED INT with exterior glue, 0.5 inch thick unless otherwise indicated.

2.3 ENGINEERED WOOD PRODUCTS

- A. Structural Composite Lumber: Establish and monitor structural capacities conforming to ASTM D5456 required by CBC 2303.1.9 and as specified by the Structural Notes.
- B. Structural Laminated Veneer Lumber (LVL): Trus Joist, Microllam, and as specified by the Structural Drawings.
- C. Parallel Strand Lumber (PSL) Beams: Trus Joist, Parallam, for use in lieu of glue-laminated lumber at conditions not exposed to view and as specified by the Structural Drawings.
- D. Laminated Strand Lumber (LSL): Trus Joist Timberstrand, accepted in lieu of dimensional lumber, and as specified by the Structural Drawings.

2.4 FASTENERS

- A. Fastener Types, Sizes, Spacing, and Quantities: Provide fasteners and connectors including nails, spikes, screws, clips, bolts, and anchors required for installation of carpentry and millwork, conforming to CBC Table 2304.9.1, APA recommendations, and as shown on Structural Drawings.
 1. Provide stainless steel or coated components specifically intended for use in corrosive environments and the specific type of preservative treatment incorporated into the wood.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025
10.28.2025

BID SET – ADDENDUM 06

- B. Steel Drill Screws:
 1. ASTM C1002, self-drilling, minimum 1-1/4-inch long, bugle head, corrosion-resistant polymer coating, conforming to ASTM B117.
 2. Screws at Steel Framing: Type S, in lengths required to penetrate 3/8 inches beyond steel stud framing.
- C. Nails, Spikes, Staples and Other Driven Fasteners: Conform to ASTM F1667 and CBC Section 2303.6.
- D. Bolts and Lag Bolts: Conform to ASTM A307. Provide steel plate washers.
- E. Metal Connectors: Simpson Strong-Tie Company or approved equivalent. Types indicated on drawings with minimum G-90 zinc coating.

2.5 ANCHORS

- A. Conform to Structural Drawings, manufacturer's ICC ES Evaluation Reports, and manufacturer's instructions, including manufacturer's tables indicating design loads and recommended use for each fastener type.
- B. Concrete Anchors:
 1. Drive Anchors: As specified by the Structural Notes.
 2. Expansion Anchors: As specified by the Structural Notes.
 3. Adhesive Anchors: As specified by the Structural Notes.
- C. Steel Anchors: Powder actuated fasteners or threaded bolts, nuts, and washers as indicated by the Structural Drawings and manufacturer's instructions.
- D. Floor Plate and Sill Anchors: Conform to CBC Sections 2308.3.3, 2308.3.8, 2308.12.9, and to the Structural Drawings.
 1. 5/8 galvanized steel bolts or approved anchors embedded minimum 7 inches into concrete and spaced as indicated on the Structural Drawings.
 2. Provide at least 2 bolts or anchor straps at each plate located not more than 12 inches and not less than 4 inches from each end.
 3. Bolt and tighten plate to foundation with nut and washer.
- E. Bar or Strap Anchors: Conform to the Structural Drawings.

2.6 ROUGH HARDWARE

- A. Framing Anchors, Beam, and Post Connectors: Designed to support imposed loads, conforming to the Structural Drawings.
- B. Joist and Rafter Hangers: Conform to CBC Section 1715, as tested according to ASTM D1761, for vertical load-bearing capacity, torsional moment capacity, and deflection characteristics and as specified by the Structural General Notes.

2.7 ACCESSORIES

- A. Construction Adhesives: Solvent based, conforming to APA Specification AFG-01, with maximum VOC based on current requirements of South Coast Air Quality Management District (SCAQMD) Rule No. 1168 on the interior of the building.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

1. "Current requirements" refers to the date on which the materials are installed in the building.
 2. Follow SCAQMD Rule No. 1168. Refer to <http://www.aqmd.gov/rules> for the actual current version of the rule that will be applicable at the date of installation during construction.
 3. "Interior" refers to all building construction that is inside of the exterior weatherproofing material.
- B. Sill Seal: Foam gasket and self-adhering membrane: Triple Guard Energy Sill Sealer by Protecto Wrap, or approved.

2.8 FINISHES

- A. Carbon Steel Fasteners, Anchors, Straps, and Rough Hardware: ASTM A123 or ASTM A153, hot-dip galvanized.
1. Exterior carbon steel in contact with concrete, G90. Stainless steel also is acceptable.
 2. Interior steel, G40 in dry conditions, G60 where subject to wetting. Stainless steel also is acceptable.
 3. Fasteners Placed in Chemically Treated Wood: Steel or coated components specifically intended for use with chemically treated wood products being incorporated into the Work.
- B. Stainless Steel Fasteners and Anchors: ASTM A276 Type 316.
- C. Electrolysis Protection: Isolate metal in contact with metals of dissimilar galvanic range by isolation methods including application of suitable primers, paints, or tapes.

2.9 WOOD TREATMENT

- A. Wood Preservative (Pressure Treatment):
1. Apply preservative treatment to all exterior lumber, including roofing nailers, curbs, and other wood in contact with concrete, and moist conditions.
 2. For above-ground use, use AWPA certified Ammonium Copper Quaternium (ACQ) or Copper Hydroxide Sodium Dimethyldithiocarbamate (CDDC) waterborne preservative with 0.25 pounds per cubic foot of wood retention.
 3. Approved Product: "Wolmanized Natural Select" by Arch Wood Protection, Inc. (Smyrna, GA; 770-801-6600); copper azole (CA) fungicide.
 4. For ground-contact use, use AWPA Treatment C-22 using CCA waterborne preservative with 0.40 pounds per cubic foot of wood retention.
 5. Treated lumber shall be kiln dried to a maximum moisture content of 15 percent; treated plywood shall be kiln dried to a maximum moisture content of 15 percent.
 6. Treated lumber shall bear the quality stamp of an inspection agency approved by the jurisdictional code authorities.
- B. Isolation Membrane: Self-adhering non-asphalt based, breathable, waterproof membrane, GCP Applied Technologies Perm-A-Barrier VPS or approved equal.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify conditions ready to receive work of this Section before beginning. Notify the Owner in writing of conditions detrimental to the proper and timely completion of the work. Do not begin installation until all unsatisfactory conditions are resolved. Beginning work constitutes acceptance of site conditions and responsibility for defective installation caused by prior observable conditions.
- B. General:
1. In addition to framing operations normal to the fabrication and erection indicated on the drawings, install wood blocking and backing required for the work of other trades.
 2. Set horizontal and sloped members with crown up.
 3. Do not notch, cut, or bore members for pipes, ducts, or conduits, or for other reasons except as shown on the drawings or as specifically approved in advance by the Engineer of Record.
 4. The contact surfaces of any member coming in contact with an exterior concrete regardless of height above ground shall be treated wood or shall be painted with two coats of an approved preservative.
 5. Wood Products with Chemical Treatment: Material shall be separated from contact with other materials by continuous layer of the specified isolation membrane applied to all contact surfaces.

3.2 INSTALLATION

- A. Conform to APA Design/Construction Guides, California Building Code 51-50 Chapter 4, and the Structural Drawings.
1. Sill Gaskets: Provide two contiguous lines of specified product at sills of exterior walls and seal against air infiltration and water penetration.
 2. Chemically Treated Wood Products: Material not certified by the manufacturer as compatible with contact surfaces and substrates shall be separated from contact with other materials by contiguous layer of the specified isolation membrane applied to all contact surfaces.
- B. Cants, Curbs, and Nailers: Pressure treated; dimensions as indicated or required.
- C. Fire Blocking: Construct nominal 2-inch-thick solid lumber at ceiling line. Construct at mid-height between studs, where partition height exceeds 8 feet. Do not exceed 10 feet on center vertical spacing.
- D. Dressed Wood Grounds: Set for securing wood trim, base, and millwork. Install to be secure rigid, straight, true, and aligned.
- E. Shims: Do not use shims for leveling on wood or metal bearings; cut and fit members accurately.
- F. Wood Backing: Provide for secure installation and support of work of other Sections, including but not limited to casework, hardware, plumbing, heating, ventilating, and electrical work. Accepted for installation at metal stud partitions as well as for wood framing, except where not permitted by Code.

- G. Structural nailing shall follow IBC Table 2304.9.1 unless more stringent requirements are indicated on the Structural Drawings.

3.3 WALL SHEATHING

- A. Stagger panel ends per the Structural Drawings.
- B. Nail to framing at exterior wall sheathing at 6 inches on center at panel edges maximum and 12 inches on center at panel field. Include additional fasteners as necessary to set securely in place.
- C. Refer to the Structural Drawings for more stringent nailing requirements.

3.4 PANEL BOARDS

- A.
 - A. Provide panel boards and backings for support of Mechanical and Electrical work.
 - 1. Use fire-retardant plywood for Electrical panel boards.
 - 2. Oversize panel boards 12 inches beyond mounting requirements.

3.5 BLOCKING, NAILERS, AND CURBS

- A. Provide blocking, nailers, and curbs for sheathing, roof construction, metal flashing, and other construction as indicated, and as necessary for firm support. Unless otherwise indicated, solid wood backing shall be a minimum 2-inch nominal thickness, installed flat.
- B. Blocking: Install wood blocking to receive mechanical fasteners for support of plumbing and electrical fixtures and equipment, cabinets, door stop plates, wood base, wainscots, coat hooks, toilet and bath accessories, kitchen equipment, and all other wall- and ceiling-mounted components.

3.6 FASTENERS

- A. Provide nails, spikes, screws, and bolts as necessary for secure and rigid permanent connections. Conform to CBC Table 2304.9.1-Fastening Schedule, APA recommendations, and provisions of the Contract Documents.
- B. Provide stainless steel or coated components specifically intended for use in corrosive environments and the specific type of preservative treatment incorporated into the wood.
- C. Anchors: Anchor plates, caps, and wood framing to other construction with anchors spaced 48 inches on center and with each item anchored with at least two anchors.
- D. Drive nails perpendicular to grain of wood in lieu of toe nailing, where feasible.
- E. Bolting: Drill holes 1/16 inch larger in diameter than bolts being used. Drill straight and true from one side only. Do not bear bolt threads on wood.
- F. Screws: For lag screws and wood screws, pre-bore holes the same diameter as the root of threads, enlarging holes to shank diameter for length of shank.
- G. Nailing:

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

1. Use only common wire nails or spikes of the dimension shown on the Nailing Schedule, except where otherwise specifically noted on the drawings. Sinker nails are not allowed.
2. For conditions not covered in the Nailing Schedule, provide penetration into the piece receiving the point of not less than 1/2 the length of the nail or spike, provided, however, that 16d nails may be used to connect two pieces of 2-inch (nominal) thickness.
3. Nail without splitting wood.
4. Prebore as required.
5. Remove split members and replace with members complying with the specified requirements.

END OF SECTION

SECTION 06 20 00 – FINISH CARPENTRY

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes materials, work and services necessary and required for nonstructural finish carpentry work which is exposed to view, is primarily site fabricated and assembled, and not specified as part of other sections.
- B. Related Sections:
 - 1. Section 06 10 00 Rough Carpentry.
 - 2. Section 06 40 00 Architectural Woodwork.
 - 3. Section 08 14 00 Wood Doors.

1.2 SUBMITTALS

- A. Product Data: Submit as required for each manufactured product to be incorporated into the Work.
- B. Shop Drawings: Plans, elevations and large-scale details; locate casework, paneling, and trim, attachment, hardware and accessories.
- C. Samples:
 - 1. Wood Products: Submit for each species, cut, profile, and finish required; demonstrate range of color and grain variation expected in Work. Two feet by board, molding, or panel width.
 - a. Solid Stock, including Composite Decking: 3 samples of each, finish one side and one edge.
 - b. Veneers, Panels, Plywood: 2 samples of each, one finished.
 - 2. Hardware: One sample of each type and finish required for approval of function and appearance.

1.3 QUALITY ASSURANCE

- A. Fabricator and Installer Qualifications: Five years successful experience with Work similar to that required for this Project, regularly and presently construct finish carpentry as a principal service and have proper equipment for Work as outlined in Standards.
- B. Installer and Fabricator Certification: Five recent jobs similar this Project, include project and contact name, location, and date.
- C. Pre-Installation Conference: Prior to delivery of materials meet with Architect, installers of finish carpentry and other trades whose Work may affect conditions required for installation of finish carpentry. Review coordination and environmental controls required for proper installation and ambient conditioning in areas to receive work. Proceed with Work only when everyone concerned agrees that required ambient conditions can be maintained.

1.4 PROJECT CONDITIONS

- A. Temperature and Humidity for Installation: As required by fabricator to maintain moisture content of installed Work within 1.0 percent of optimum moisture content, maintain conditions until final acceptance.
1. Store materials only in areas meeting requirements specified for installation areas.

1.5 SEQUENCING AND SCHEDULING

- A. Complete work in installation areas which could damage finish carpentry and establish controlled environmental conditions prior to delivery of materials.
- B. Conditioning Period: Store wood products for four days (96 hours) at Project prior to installation.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Solid Stock: Kiln-dried, S4S; softwood complying with American Softwood Lumber Standard PS 20 and referenced grading rules; hardwood complying with National Hardwood Lumber Association rules; glued-up lumber complying with American Softwood Lumber Standard PS 56. Nominal sizes are indicated, except as shown by detailed dimensions. Provide actual sizes as required by PS 20, unless otherwise indicated.
1. Moisture Content: Limited to values required by referenced grading rules, and woodworking standard.
 2. Material for Transparent Finish: Solid lumber stock.
 3. Material for Painted Finish: Solid lumber or glued-up lumber.
 4. Glued-up Lumber for Exterior Use: PS 56, Wet Use.
- B. Plywood: Softwood complying with American Softwood Lumber Standard PS 1-74, and hardwood complying with PS 51.
- C. Preservative Treatment by Pressure Process: AWPA U1 for lumber, plywood, and Glue-Laminated Timbers. Treatment containing neither arsenic nor arsenate, non-toxic when cured and free of chemical compounds not acceptable in the Work. For exposed items indicated to receive a stained or natural finish, use chemical formulations that do not require incising, contain colorants, bleed through, and otherwise adversely affect finished appearance. Kiln-dry material after treatment to a maximum moisture content of 19 percent for lumber and 15 percent for plywood. Do not use material that is warped or does not comply with requirements for untreated material.
1. Subject to compliance with Project requirements provide one of the following treatments.
 - a. Ammoniacal, or amine, copper quat (ACQ).
 - b. Copper bis (dimethyldithiocarbamate) (CDDC).
 - c. Ammoniacal copper citrate (CC).
 - d. Copper azole, Type A (CBA-A).
 - e. Zinc or Sodium Borate (DOT).
 2. Mark each treated item with the treatment quality mark of an inspection agency approved by the American Lumber Standards Committee Board of Review.

- a. For exposed lumber indicated to receive a stained or natural finish, mark end or non-exposed surface of each piece, or omit marking and provide certificates of treatment compliance issued by inspection agency.
- D. Fire-Retardant Treated Wood (FRTW): Materials that comply with performance requirements in AWPA U1 for lumber and plywood. Identify fire-retardant-treated wood with appropriate classification marking of UL, U.S. Testing, Timber Products Inspection, or another testing and inspecting agency acceptable to authorities having jurisdiction.
1. Use treatment for which chemical manufacturer publishes physical properties of treated wood after exposure to elevated temperatures, when tested by a qualified independent testing agency according to ASTM D 5664, for lumber and ASTM D 5516, for plywood.
 2. Use treatment that does not promote corrosion of metal fasteners and that is free of halogens, sulfates, chlorides, and ammonium phosphate.
 3. Exterior Treatment: Exposed exterior wood and interior applications where conditions of service are similar to exterior exposure.
 4. Interior: Type A High Temperature (HT), Reduced hygroscopic, non-blooming chemicals unless otherwise required. Chemical treatment shall neither bleed-through nor adversely affect finished appearance.
 5. Fire Retardant: Provide for lumber and panels as indicated. Fire retardant treated finish wood shall comply with requirements of the Section where the work is specified.
- E. Woodworking Standard: Architectural Woodwork Institute (AWI) Quality Standards.
- F. Exterior [Composite] Decking: BOD decking products are as manufactured by Resysta USA or approved equal.
1. Size: 5/4 x 6-inch nominal by lengths indicated in Drawings. Where not shown, provide in longest length available and under no circumstances less than 10 feet in length.
 2. Color: As selected by Architect from manufacturer's standard and premium colors.
 3. Grade and edge treatment: Manufacturer's standard extruded profile; edge profile(s) as shown in Drawings. Where not shown, provide edge profile(s) directed by Architect.
 4. Installation:
 - a. Concealed Clip and 316 stainless steel small head screw to framing for gapped installation.
 - b. Tongue and Groove Decking: Install per manufacturer's guidelines for concealed tongue (field) and exposed face (starter and terminal) screwed boards, using stainless steel screws. Nailing and stapling are prohibited.
 5. Texture: As selected by Architect from manufacturer's standard finish options.
 6. Slip-resistance: Wet Method Value of 55 or greater measured by Pendulum DCOF Slip Resistance Test Method (ASTM E303-22).
- G. Exterior Hardwood Decking: Ipe, Brazilian Walnut (Handroanthus spp.):
1. Size: 4 x 4 and 4 x 6 (nominal) in length indicated; provide full width at elevated walkway decking.
 2. Edge treatment: Provide eased edge at decking.
- ~~H. Interior Finish Carpentry:~~
- ~~1. Standing and Running Trim: AWI Custom grade for quality of materials and manufacture.~~
 - ~~a. Transparent Finish: NHLA First Grade Lumber [Plain Sawn] [Rift Sawn] [Quarter Sawn] Species TBD, Clear, no heart, free of mineral streaks.~~
 - ~~b. Painted Finish: Group 1 soft wood species, WWPA C-Select.~~

- ~~2. Hardwood Plywood Stock Panels: ANSI/HPMA HP 1983, Premium Grade, Type II, Rotary cut Natural Birch faces, sound hardwood veneer core, number of plies required for thickness indicated.~~
- ~~a. Face Pattern: Plain edge matched veneer.~~
- ~~b. Panel to Panel Veneer Matching: No match.~~
- ~~c. Face Veneer Matching (Panel to Panel): Sequence matched from one or similar flitches as required by quantity of panels.~~
- ~~d. Finish: Polish sanded.~~
- ~~e. Finish: Prefinished with manufacturer's standard clear factory finish.~~
- ~~l. Interior Finish Carpentry: Solid sawn lumber and composite components as required. Seal solid stock lumber at mill, all edges and faces.~~
- ~~1. Standing and Running Trim: WIC Quality Standards Section 3, Plain sawn WWPA Prime Finish VG Douglas Fir unless otherwise required.~~
- ~~a. Solid Stock Douglas Fir: Transparent finish, Premium Grade; provide at doors and exterior windows as scheduled.~~
- ~~b. Medium Density Fiberboard: Formaldehyde free; Medite II or equal. Opaque painted finish, Custom Grade; typical except where solid stock material is required for transparent finish.~~

J.H. Miscellaneous Materials:

1. Fasteners and Anchorages: Nails, screws and anchors of type, size, material and finish required for application indicated; ASTM A 153 galvanized where exposed to exterior and high relative humidity. Use concealed devices to greatest extent possible.
 - a. Provide special fasteners, moldings, adhesives and accessories as necessary for each installation.
2. Isolation Membrane: Self-adhering non-asphalt based, breathable, water-proof membrane; WR Grace Perm-A-Barrier VPS.

2.2 SOURCE QUALITY CONTROL

- A. Lumber and Plywood: Factory-mark identify type, grade, mill and grading agency, submit mill certificate in-lieu-of marking surfaces to receive transparent finish.
- B. Do not stamp or mark surfaces which will be exposed to view in completed structure.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Discard units of material which are unsound, warped, bowed twisted, improperly treated, not adequately seasoned or too small to fabricate work with minimum of joints or optimum jointing arrangements, or which are of defective manufacture with respect to surfaces, sizes or patterns.
 1. Wood Products with Chemical Treatment: Material not certified by the manufacturer as compatible with contact surfaces and substrates shall be separated from contact with other materials by contiguous layer of the specified isolation membrane applied to all contact surfaces.
- B. Install the work plumb, level, true and straight. Provide concealed shims to achieve required alignments, accommodate variations in adjacent and supporting assemblies, and maintain

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025

BID SET – ADDENDUM 06

tolerances. Cope, miter, and scarf to produce tight fitting joints with full surface contact. Scribe and cut work to fit adjoining work including walls and floor and refinish cut surfaces or repair damaged finish at cuts.

1. Tolerance For Countertops: 1/8 inch in 8 feet for plumb and level, and 1/16-inch maximum offset in flush adjoining surfaces, and 1/8-inch maximum offset in revealed adjoining surfaces.
- C. Secure finish carpentry work in place. Use concealed fasteners and blind nailing wherever possible.
1. Exposed fasteners: Fine finishing nails countersunk, filled flush and finished to match adjacent surface unless otherwise indicated.
- D. Solid Stock Exterior Work and Interior Work Subject to High Humidity and Wet Environment: Back prime, comply with Section 09 91 13 and 09 91 23 –requirements and referenced woodworking standard.
- E. See Section 09 91 13 and 09 91 23 for finishing requirements for installed finish carpentry.
- ~~F. Standing and Running Trim: Use minimum number of joints possible, using full length pieces (from maximum length of lumber available). Stagger joints in adjacent and related members.
1. Apply flat grain lumber with bark side exposed to weather.~~
- ~~G. Plywood Paneling: Select and arrange panels on each wall for best match of adjacent panels. Attach to supports as indicated.~~
- H.F. Adjust joinery for uniform appearance. Repair damaged and defective Work. Replace Work that cannot be satisfactorily repaired.
- I.G. Prevent damage and deterioration of installed Work; maintain environmental conditions as required and as recommended by installer.

END OF SECTION

SECTION 06 40 00 – ARCHITECTURAL WOODWORK

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes requirements for casework and architectural woodwork exposed to view in the finished building that is predominantly manufactured and finished off site.
 - 1. Provide wood framing and furring necessary for support of architectural woodwork assemblies as indicated.
- B. Related Sections:
 - 1. Section 05 50 00 Metal Fabrications.
 - 2. Section 08 71 00 Door Hardware.
- C. References: Architectural Woodwork Standards current edition as published by Architectural Woodwork Institute.

1.2 ADMINISTRATIVE REQUIREMENTS

- A. Prior to fabrication and delivery of materials, Contractor shall meet with fabricator and installer of architectural woodwork, and work of other trades that may affect sequence, fabrication and installation requirements for architectural woodwork; proceed only when coordination tasks have been satisfactorily completed.
 - 1. Verify environmental controls for compliance with ambient conditions for staging and installation areas for first-in-place and subsequent work.
 - 2. Review requirements for First-In-Place samples.
 - 3. Integration of building services into casework and coordination with characteristics of building services; complete field measurement prior to fabrication and shop assembly as necessary or appropriate for the work.
 - 4. Provisions for attachment to building floor slabs, walls and other construction as necessary for stability of installed work; give particular attention to requirements and characteristics of supporting assemblies and compliance with Related Sections requirements for support fabrications.
 - 5. Coordinate with partition and finish trades ensure compliance with requirements for installation of the work and verify appropriate delegation for final service connections being performed as work of other Sections.
 - 6. Field verification of dimensions affecting shop fabrication and assembly of the work.
- B. Work Sequence: Ensure compliance with Project Schedule for fabrication and installation of work; deliver work of this Section to the Project neither prior to establishment of required environmental conditions nor before the work is required for installation.
 - 1. Schedule work to limit potential for damage to installed casework due to subsequent activities of other trades and protection provisions for installed work.
 - 2. Conditioning Period: Store work at Project for 96 hours unless otherwise recommended by referenced woodworking Standard.

1.3 SUBMITTALS

- A. Product Data: Submit as required for each manufactured product, material, accessory, and finish to be incorporated into the Work.
1. Fire Retardant Treated Wood: Demonstrate compliance with System Description requirements for casework components and assemblies in select locations.
 2. FSC Certified Wood: For each firm supplying wood products and each firm performing fabrication work on these wood products provide firm's COC number, identify each FSC certified product on a line-item basis and identify the material cost and value-added fabrication cost.
 - a. Vendor Chain-of-Custody.
 - b. Fabricator Chain-of-Custody.
 - c. Installer Chain-of-Custody provide when the installer is other than the fabricator
- B. Shop Drawings: Plans, elevations and large-scale details; locate casework, paneling, and trim; show attachment and support from building, hardware and accessories.
1. Indicate extent and location of fabrication work deferred to the field; field application of finishes is not acceptable.
 2. Show each method of anchorage to be used, identify fasteners and hardware, locations where the anchorage is proposed and coordination with supporting structure.
 3. Coordination of utility lines serving casework, connection of utilities and controls.
 4. Wood Paneling: Indicate complete elevations of rooms to receive paneling.
- C. Samples: Provide a minimum of five samples or sample sets where multiple pieces are required; 12 by 12 inches of panel materials and 12-inch length by typical width of linear material.
1. Solid Surface Panels: Two pieces of each type and thickness required nominally one square foot finish four edges as required for the work.
 2. Plastic Laminate: One sample of each color, and surface type. Provide flat surface, and section of outside corner of work surface in configuration required.
 3. Wood Products: For each species, cut, profile, and finish for both solid stock and veneer; provide sufficient number of samples to demonstrate complete range of color and grain variation expected in Work, but not less than four. Two feet by board, or molding, width; One foot by panel width.
 4. Finish Samples: Provide stepped samples for each wood species and Type required showing complete application process for substrate preparation to final finish application for each system type required.
 - a. Veneer: Matching required, apply to substrate required for final work.
 5. Hardware: One sample of each type and finish required for approval of function and appearance.
 6. Anchors and Fasteners: Provide for each type upon request.
- D. First-In-Place Sample: Refer also to Section 01 33 00. Before fabricating and installing interior architectural woodwork, build First-In-Place Sample as indicated below:
1. Prepare First-In-Place Sample of Bench Seating using materials proposed for the work.
 2. First-In-Place Sample will be maintained during construction as standard for acceptance of completed work,
 3. Obtain Architect's approval of final finish of First-In-Place Sample before starting remaining interior architectural woodwork fabrication. Approved sample may become part of the Work.

1.4 QUALITY ASSURANCE

- A. Fabricator: Work of a single entity unless otherwise acceptable. Demonstrate minimum of five years successful experience with architectural woodwork and casework utilizing similar materials and of similar type, complexity and scope as required for the Work on projects of similar size and quality to that specified and shown.
 - 1. Comply with AWI Woodworking Standards for materials and fabrications required in addition to specific Project requirements.
- B. Installer: Successful history of installation of Architectural Woodwork, including but not limited to logistical capability, installation sequence and proper handling of preassembled and partially assembled components for final fitting and installation in the field.
 - 1. Firm shall be acceptable to the fabricator unless otherwise approved.
- C. Fabricator and Installer: AWI member for the category of services they will provide or other acceptable credentials establishing expertise for the services to be provided.

1.5 PROJECT CONDITIONS

- A. Temperature and Humidity for Installation: As required by referenced quality standards, and fabricator to maintain moisture content of installed Work within 1.0 percent of optimum moisture content, maintain conditions until final acceptance.
 - 1. Store materials only in areas meeting requirements specified for installation areas.
- B. Field Measurements: Taken prior to fabrication of woodwork to be fitted to other construction, verify dimensions on shop drawings.
 - 1. Avoid delay of Project, allow for subsequent scribing and trimming of woodwork for accurate fit where field measurement is impractical.

1.6 PRODUCT HANDLING

- A. Without limitation, protect architectural woodwork from damage and loss during fabrication, shipping, handling and installation to Substantial Completion due to shipping, handling, hoisting, exposure to environmental conditions outside of required parameters, work schedule, sequence, means and methods.
 - 1. Maintain protection of architectural woodwork and casework from the shop to Project, during and following installation. Remove protection when directed to allow for observation of work by Architect.

PART 2 - PRODUCTS

2.1 SYSTEM DESCRIPTION

- A. Design Requirements:
 - 1. Provide concealed and semi-concealed attachment of finished components as required and as demonstrated in approved submittals.
 - 2. Framing, Furring and Supports: Provide final determination of components sizes, spacing, connection types and fastening for architectural woodwork fully concealed from view in completed work and complying with Performance Requirements.
 - 3. To the maximum extent practical for the work select material and component sizes and configurations and woodwork assemblies to minimize the number and frequency of

2023005

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ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

- visible joints in the installed work; indicated provide joint locations, types and spacing in shop drawings.
4. Barrier Free Access: Comply with requirements of ANSI A 117.1 and 2022 CBC for reach ranges and clearances.
- B. Performance Requirements:
1. Provide fire retardant treated wood as necessary for compliance with CBC Section 410 requirements for platforms; Table 803.9 and Section 803.11 requirements for supports for panels and similar wall surfacing.
 - a. Treat wood components to achieve ATM E 84 Class flame spread of 25 or less and smoke development of 50 and as otherwise necessary for compliance with Code.
 2. Support architectural woodwork and casework to comply with CBC Chapter 16 structural criteria and deflection limitations for assembly types required and to resist forces incidental to intended conditions of service.
 - a. Provide for attachment of supports to building structure or other construction in an approved manner complying with CBC and requirements of Building Official.
 - b. Resistance to Seismic Forces; Comply with requirements of CBC 1613.1 for resistance of non-structural components that are permanently attached to structure per seismic criteria in the General Structural Notes.
 - c. Construct cabinets to support 200 pound dead load on countertop.
 3. Shelves for Casework and Wall Mounting: Thickness not less than AWS Section 10 Assembly rules and as otherwise necessary to limit deflection to 0.25 inch or less for a uniform load of 40 pounds per lineal foot.
 - a. Spans greater than 42 inches are not acceptable regardless of materials composition.
 4. Composite Wood Products shall meet California Green Building Standards Code Title 24, Chapter 11 (CALGreen) compliance requirements: hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood.
 - a. Materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.
 - b. Documentation: Section Compliance verification shall be provide as required by 5.504.4.5.3.

2.2 MATERIALS

A. Hardwood Veneer: Comply with AWI Grade AA and project requirements.

1. WD1: Juglans regia, American Black Walnut.
 - a. Cut: Flat Cut.
 - b. Match: Slip Match.
 - c. Assembly:
 - d. Minimum Thickness:

B. Hardwood Lumber: Comply with AWI Premium Grade rules, solid stock, veneered composite is not acceptable; provide a close match to veneer material.

1. WD1: Juglans regia, American Black Walnut.
 - a. Panel Slat: 0.5-inch by 6-inch (actual) by full lengths indicated.
 - b. Benchtop: Provide in length and width indicated, assembled from uniform width, grain and color-matched boards, jointed and edge glued. Comply with AWS Section 6 for Premium Grade work.

C. Custom Lay-up Plywood: Interply and face veneers of wood species and Grade required.

A-D. Medium Density Overlay MDO Panels: 0.75 inch thick, minimum seven ply APA Group I B-B solid veneer layers free of splits and all other voids. Both faces finished with resin-treated, cellulose-fiber sheet complying with PS-1 specifications, and permanently fused to plywood under heat and pressure. Non added urea-formaldehyde.

B-E. High Pressure Plastic Laminate: Comply with National Electrical Manufacturer's Association (NEMA) publication LD 3. Provide General Purpose, Vertical and other material Grades as required for the Work.

1. PL1: Nevamar Miesian, Wood Essence.
2. PL2: Nevamar Miesian, Textured Suede.
3. PL3: Wilsonart Morelia Mango, Timbergrain.
4. PL4: Nevamar Aqua Mini Raffia, Textured Suede.
5. PL5: Laminart Classic Brushed Champagne, Brushed.
6. PL-6: Nevamar Gunmetal, Textured Suede.
7. Bonding Adhesive: Urea-formaldehyde free, water resistant and suitable for the type of laminate and substrate being bonded.

C-F. Resin - Mineral Composite Panel Indicated as SS1 and SS4: Homogenous composite of minerals and resins fabricated using heat and pressure to produce proprietary panel products; provide sheet sizes to minimize waste and field joints. Wilsonart Quartz is the Basis of Design.

1. Slab Thickness: Reference Drawings for requirements.
2. Edges: Finish profile indicated.
3. Color: SSI – Graphite; SS4- Bodega-

D-G. Solid-Surfacing Material indicated as SS2: Homogeneous solid sheets of filled plastic resin complying with material and performance requirements in ANSI Z124.3, for Type 5 or Type 6. Corian Solid Surface is Basis of Design.

1. Slab thickness: Reference Drawings for requirements.
2. Edges: As indicated.
3. Finish: As selected by Architect from manufacturer's available options.
4. Color: Bone.

E-H. Resin Composite Panel indicated at SS3: Homogenous composite of cellulose or other non-mineral fibers and resins fabricated under heat and pressure to produce a dense hard panel; provide sheet sizes to minimize waste and eliminate field joints. Trespa Toplab is the Basis of Design manufacturer.

1. Slab Thickness: Reference Drawings for requirements.
2. Edges: As indicated.
3. Finish: As selected by Architect from manufacturer's available options.
4. Color: Slate Gray.

F-I. Cabinet Hardware: Comply with ANSI/BHMA A156.9, Grade 1, Heavy Duty. Provide cabinet hardware and accessories as required.

1. Exposed Hardware Finishes: Provide finish compliant with ANSI/BHMA A156.18 for BHMA finish number indicated.
 - a. Satin Chromium Plated: BHMA 626 for brass or bronze; BHMA 652 for steel base.
 - b. Satin Stainless Steel: BHMA 630.
2. Concealed Hardware Finishes: Provide manufacturer's standard finish compliant with ANSI/BHMA A156.9 product class requirements.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

3. Door and Drawer Pulls:
 - a. Wire Type: Back-mounted, stainless steel, solid metal, finish as selected: Doug Mockett DP57 Series or equivalent from Hafele.
 - 1) 6-inch on drawers and upper and base cabinet doors.
 - 2) 12-inch on full height cabinet doors.
4. Shelf Pins: Plated steel, ANSI/BHMA A156.9, meet or exceed Grade 1 B04013; Plated Steel 0.5mm hole diameter with seismic (earthquake) pin and pre-drilled hole for seismic fasteners to shelf; 50 pounds per clip working load capacity. Plastic clips are not acceptable and will be rejected.
 - a. Hettich Sekura #1, US Futaba 72511 52 068, or equal.
5. Concealed Hinges: Eurostyle Hinge, Blum Soft-Close 110-degree BLUMotion hinges required for face-framed or frameless cabinet door as indicated in Drawings, nickel finish.
6. Continuous Hinges: Medium gauge piano style made of 0.040-gauge steel with 0.10-inch diameter pin, satin nickel finish.
7. Casework Door Catches: Magnetic type; Ives 325, 12 lb. pull.
8. Drawer Slides: Meet or exceed ANSI/BHMA 156.9 Grade 1, Heavy Duty.
 - a. Acceptable manufacturer: Accuride International Inc., Sata Fe Springs, CA.
 - b. Drawer capacity up to 200 lb and up to 24 inches wide: Accuride #3640A.
 - c. Drawer capacity up to 350 lb and up to 42 inches wide: Accuride #7957.
 - d. Drawer capacity up to 600 lb and up to 60 inches wide: Accuride #9301E.
9. Door and Drawer Silencers: ANSI/BHMA A156.16, L0311.
10. Grommets: Aluminum or laminate as required to line and close penetrations in countertops and cases.
 - a. Laminate Cap Grommets: Provide at laminate countertops.
 - 1) 3-inch OD molded plastic grommets and matching plastic caps with slot for wire passage except as noted otherwise. Laminate to match adjacent countertop laminate.
 - 2) Manufacturer: LG3 Laminate Cap by Doug Mockett & Co.
 - b. Satin Aluminum Cap Grommets: Provide at non-laminate countertops.
 - 1) 3.5-inch OD, satin aluminum grommets and matching satin aluminum caps with oval cord slot lined with radiused brush for wire passage except as noted otherwise.
 - 2) Manufacturer: ABG3-94 by Doug Mockett & Co.
 - c. Drawer and Cabinet Locks: ANSI/BHMA 156.11, E07041.
 - 1) Acceptable Manufacturer: Olympus Lock, Inc., Lynwood, WA. 800.525.0954; www.olympus-lock.com.
 - 2) Product: 700SC deadbolt lock for cabinet doors; 800SC deadbolt lock for cabinet drawers.
 - 3) Provide locks at drawers, single doors and on active leaf of paired doors as indicated on Drawings.
 - 4) Provide 2 keys for each lock.
 - 5) Provide lock for active leaf of pairs of doors with elbow catch for inactive leaf.

G-J. Mounting Hardware for Panels: Concealed clips for demountable installation; 2.5-inch pairs of interlocking metal Zee clips.

H-K. Anchors, Screws and Nails: Material, type, size and finish required for each use. Comply with applicable requirements of ASTM A 307 for screws and ASTM F 1667 for nails.

1. Exterior Woodwork: Any non-corrosive metal nail, except use stainless steel for work with transparent finish.

2. Provide toothed steel or lead expansion bolt devices for drilled-in-place anchors. Furnish inserts and anchors, to be set into concrete or masonry work for anchorage of woodwork.

2.3 FABRICATION

- A. Fabricate woodwork to dimensions, profiles, and details indicated with openings and mortises precut, where possible, to receive hardware and other items and work.
 1. Assemble woodwork and casework in shop, disassemble for shipment and reassemble with concealed fasteners in the field.
 2. Include all preparations fixtures and services for plumbing, mechanical, electrical, telecom and signal work.
 3. Fire Retardant Chemical Treatment of Wood Products: Compatible with adhesives, and specified finishes, non-pressure process, non-aqueous solution, no adverse impact on appearance of treated wood. Treatment is in addition to other applied finish requirement.
- B. Ease edges to 0.0625-inch radius, for corners of cabinets and edges of solid wood (lumber) members less than 1 inch in nominal thickness, 0.125-inch radius for edges of rails and similar members over 1 inch in nominal thickness.
- C. Complete fabrication, assembly, finishing, hardware application, and other work before shipment to project site to maximum extent possible. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and fitting.
 1. Shelves for Casework and Wall Mounting: Approved panel product in thickness indicated and as necessary to comply with Performance Requirements.
 2. Dado Case for recessed installation of shelf standards where adjustable shelves are required inside cabinet.
- D. Pre-Cut Openings: Provide as necessary for hardware, appliances, equipment, service connections and other components. Locate and size openings accurately. Use templates or roughing-in diagrams for accurate sizing and configuration. Ease cut edges and seal cutouts with a water-resistant coating. Finish exposed exterior and interior edges to comply with Section 10 Material Rules, finish semi-exposed edges as required for exposed edges.
 1. Provide grommets in configuration necessary to line and close countertop and case penetrations.
- E. Standing and Running Trim and Rails Standing and Running Trim and Rails: AWS Quality Standards Sections 6 and 7, Premium Grade:
- F. Casework Cabinets: Comply with AWS Section 10, flush overlay construction, Custom grade except as required for door backs and edges and as specified for wood cabinets.
 1. Laminate Cladding: HGS laminate on horizontal surfaces, VGS laminate on vertical surfaces, and VGL laminate on semi-exposed surface.
 - a. Edges: Match face.
 - b. Orient pattern of wood grain laminate vertically, unless otherwise indicated on Drawings.
 2. Balance Backing:
 - a. Wood Backing: Straight-grained hardwood of the same thickness and grain orientation as the face veneer; thickness and species characteristics well suited to use as a backing veneer with the face veneer required.

- b. Plastic Laminate Backing: 0.020 phenolic backer is required for all panels and components regardless of reference woodwork standard requirements for the grade of workmanship specified.
 - 3. Doors and drawer fronts and fixed panels thickness indicated and as required for flush overlay construction.
 - 4. Cabinet hardware as indicated.
 - 5. Separation between adjacent cabinet doors shall be uniform dimension not exceeding 0.125 inch. Coordinate door and case fabrication, hinge prep and installation to ensure compliance with this requirement. Uneven work and work with excessive gaps will be rejected.
 - 6. Cabinet Bases: Solid stock wood with laminate cladding as required for door and drawer front including balance backing.
- G. Open Storage Compartments: AWI Section 10 Custom Grade and per Project requirements for Frameless box construction with concealed joinery for fixed divider shelves, Stop Dadoed to case body members - dowel and dowel-screw joinery are not acceptable. Provide box and divider shelf dimensions and configuration as indicated.
 - 1. Storage Below Fixed Bench:
- H. Cabinet Tops: AWS Section 11, Custom Grade fabrication.
 - 1. Substrate Product: Required panel product; provide waterproof substrate 2 feet each-side of sink openings, and areas exposed to water.
 - 2. Solid Surface: Provide in configuration shown fabricated per manufacturer's recommendations. Provide under-counter mount sink complying with barrier free access reach range; coordinate with fixtures and plumbing work of Division 22 Sections.
- I. Worksurfaces: As required for Cabinet Tops and as follows.
 - 1. Support Brackets: Provide a minimum of one pair of supports for each worksurface up to 48 inches in length and one additional support for every 2 lineal feet of worksurface, or increment thereof, exceeding 48 inches and as otherwise necessary for support of worksurface configuration required and as necessary for loads and service conditions.
- ~~J. Pegboard: Perforated Polypropylene pegboard, 3/16-inch thick, with 9/32-inch holes at one-inch centers each way.

 - 1. Sizes: As indicated in Drawings.
 - 2. Edges: Ease and buff cut edges where exposed in finished panel.
 - 4.3. Mounting hardware: As required for installation, including spacers, anchors, and fasteners; provide per approved Submittal samples.~~
- ~~J. Plastic Laminate-faced Wood Paneling: Reference Section 06 42 19.~~

2.4 SHOP FINISHING

- ~~A. Finish: Shop applied; defer only final touch-up, cleaning and polishing for time after delivery and installation. Comply with AWS Section 5, except as otherwise indicated.

 - 1. Sanding Sealer: Waterproof and provide a sound foundation for subsequent coatings; nitrocellulose sealer is not acceptable.~~
- ~~B. Natural Hardwax Finish: Provide for Hardwood Bench. Shop applied per manufacturer's recommended procedures and to comply with applicable provision of AWS Section 5 for Premium Grade work; Osmo Polyx-Oil 3054.~~

1. Finish System: Hand-applied using manufacturer's recommended procedures; provide four-coat application on all exposed surfaces and buff to final appearance per approved samples. Provide two-coat finish on concealed surfaces, buffing is not required.
 2. Ensure substrate preparation complies with all requirements; clean prepared surface to remove all contaminants and particulates prior to application of hard wax.
- C. Transparent Finishes: Shop applied; defer only final touch-up, cleaning and polishing for time after delivery and installation. Comply with AWS Section 5, except as otherwise indicated.
1. Finish System: AWS System 5, Premium Grade. Vinyl washcoat, conversion varnish sealer, and two finish coats of conversion varnish for 18 to 20 degrees gloss at 60 degrees.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install woodwork plumb, level, true and straight with no distortions. Scribe and cut woodwork to fit adjoining work including variations in finish floors, and refinish cut surfaces or repair damaged finish at cuts. Coordinate woodwork with electrical and plumbing work.
 1. Shims: Concealed, provide as necessary due to conditions encountered and as otherwise necessary for compliance with Project requirements.
- B. Secure Work to supporting construction reinforced as required for imposed loads, as necessary for compliance with Project requirements and per approved submittals. Use concealed means of attachment unless otherwise required. Countersink, fill flush and finish exposed fasteners to match adjacent surface, unless otherwise indicated.
 1. Coordinate with work of Section 05 54 000 and this Section; Reference Drawings for countertop support brackets, backing plates and reinforcing locations and requirements in framed walls.
- C. Architectural Woodwork: Comply with reference woodworking standard for fabrication Grade specified and Project requirements.
 1. Standing and Running Trim: Gaps behind members shall be filled and finished to match the backing surface.
 2. Cabinets and Casework: Division B, Custom grade.
 - a. Cabinet Base: Scribe to fit variations in finish floor and set in sealant.
 - b. Backsplash: Fill gaps to wall exceeding 0.125 inch with an approved filler material.
 - ~~3. Paneling: Division C, Premium grade.~~
 - ~~4. Wood Bench: Coordinate with work of Section 05 50 00 to ensure configuration of wood fabrications and attachment to metal supports as required.~~
- D. Field Joints: Acceptable only as shown on approved submittals. Install work with the minimum number of joints possible. Cope and miter joints; stagger joints in adjacent and related members. Comply with AWI Quality Standards referenced for shop fabrication.
- E. Tolerances: 0.125 inch in 8 feet for plumb and level (including tops); and with no variations in flushness of adjoining surfaces, except where referenced standard is tighter.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

3.2 ADJUSTMENT, CLEANING, FINISHING, AND PROTECTION

- A. Repair damaged and defective woodwork where possible to eliminate defects functionally and visually; where not possible to repair replace Work. Adjust joinery for uniform appearance.
- B. Clean, lubricate and adjust hardware.
- C. Clean woodwork on exposed and semi-exposed surfaces. Touch-up shop-applied finishes to restore damaged or soiled areas.
- D. Provide final protection and maintain conditions, in a manner acceptable to Fabricator and Installer, which ensures architectural woodwork being without damage or deterioration at time of substantial completion.

END OF SECTION

SECTION 06 83 16 – RESIN COMPOSITE PANELING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Polyester resin wall panels.

1.2 ACTION SUBMITTALS

- A. Product Data:
 - 1. Resin composite paneling.
- B. Shop Drawings: For resin composite paneling.
 - 1. Include plans, elevations, sections, and attachment details.
 - 2. Show details full size.
 - 3. Show locations and sizes of furring and blocking, including concealed blocking specified in other Sections.
- C. Samples for Initial Selection: Manufacturer's standard color sheets, showing full range of available colors for each type of polyester resin wall panels.
- D. Samples for Verification: Actual sample of finished products for each type of exposed finish.

1.3 INFORMATIONAL SUBMITTALS

- A. Product Test Reports: For each polyester resin wall panels, for tests performed by qualified testing agency.
- B. Research Reports: For polyester resin wall panels, assemblies, or systems, from an agency acceptable to authorities having jurisdiction showing compliance.

1.4 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For polyester resin wall panels.

1.5 QUALITY ASSURANCE

- A. Manufacturers Qualifications: Firm experienced in the manufacture of products for a minimum of 5 years prior to bid.
- B. Installers and Fabricators Qualifications: Installation of specified or similar products on a minimum of 2 projects of similar scale and type within 2 years of bid.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Protect resin composite paneling materials according to manufacturer's written instructions. Prevent damage to resin composite paneling and glazing materials from condensation, temperature changes, direct exposure to sun, or other causes.
- B. Store in area of installation minimum of 24 hours prior to installation.
- C. Maintain protective coverings on resin composite paneling to avoid exposures to abrasive substances, excessive heat, and other sources of possible deterioration.

1.7 PROJECT CONDITIONS

- A. Environmental Limitations: Do not install until spaces are enclosed and weatherproof, and ambient temperatures and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

1.8 COORDINATION

- A. Coordinate dimensions of resin composite paneling with dimensions of construction that receives resin composite paneling to ensure that glazing channels provide adequate face and edge clearance, bite, and allowance for expansion.

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

- A. Obtain resin composite paneling sheets and hardware accessories from single source for each component from single manufacturer.

2.2 PERFORMANCE REQUIREMENTS

- A. Sustainable Design Requirements: Provide products in accordance with the requirements as specified in Section 01 81 13.71 "Sustainable Design Requirements" for the following:
 - 1. Material reuse.
 - 2. Recycled content.
 - 3. Adhesives: VOC content and emissions evaluation.
 - 4. Sealants: VOC content and emissions evaluation.
 - 5. Chemical content.
- B. Surface-Burning Characteristics: As follows when tested by a qualified testing agency in accordance with ASTM E84. Identify products with appropriate markings of applicable testing agency.
 - 1. Flame-Spread Index: 25 or less.
 - 2. Smoke-Developed Index: 450 or less.

2.3 RESIN COMPOSITE PANELING

- A. Resin Composite Panel: Layered engineered thermoplastic polyester resin.

1. Basis-of-Design: Subject to compliance with requirements, provide 3form, Inc.: (RP1) Ozner and (RP2, RP3) Varia as Scheduled in Drawings, or approved comparable product.
 2. Nominal Thickness: As indicated on Drawings.
 3. Panel Size: As indicated on Drawings
 4. Color, Pattern, and Finish: As indicated on drawings
 5. Edge Finishing: Finish edge with: As indicated on Drawings; where not indicated, as selected by Architect from manufacturer's standard edge options.
 6. Interlayer Materials: As indicated on drawings; compatible with polyesters and bonding process to create a monolithic sheet of material when complete.
- B. Design: Wall Features, Interior Signage Panel, Shelves.
1. Fabricate resin composite paneling to sizes required for openings indicated. Allow for thermal expansion and contraction of resin composite paneling without restraint and without withdrawal of edges from frames, with edge clearances and tolerances complying with resin composite paneling manufacturer's written instructions.
 2. Comply with manufacturer's written recommendations for fabrication.
 3. Laminating: Laminate to substrates indicated using adhesives and techniques recommended by manufacturer.
- C. Edge Sealing:
1. Seal edges for Varia panels with designed layers that include organics, papers, and fabrics complying with resin composite paneling manufacturer's written instructions. Seal hole edges that are created to allow for stand-off fastening.
 2. Comply with manufacturer's written instructions for edge sealing.
- D. Cold Bending:
1. Bend to radius: as indicated on drawings.
- E. Heat Forming:
1. Form to shape as indicated on drawings.
- 2.4 ACCESSORIES
- A. Hardware: Recommended by manufacturer to support weight of panel as follows:
1. Exposed Fasteners: Point Support XT.
 2. Concealed Fasteners: Hidden Point.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Condition panels by unpacking and placing in installation space before installation according to manufacturer's written recommendations.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025

3.3 INSTALLATION

- A. General: Comply with manufacturer's written instructions for the installation of resin composite paneling. Sizes, profiles, and other characteristics are indicated on the drawings.
- B. Anchor paneling to supporting substrate as indicated in Drawings and in accordance with manufacturer's instructions.
 - 1. Support polyester resin wall panels when sawing since excess vibration can cause cracking of the panel. If you notice melting or gumming, try to increase the blade tooth size, reduce saw speed, inspect blade sharpness, or provide air cooling. If you notice chipping, decrease blade tooth size, increase saw speed, check blade for sharpness, and minimize panel vibration. Do not use wet saws, water jets, or expose product to water if the product has a fabric or organic interlayer.
 - 2. Drill using zero-degree rake angle bits with dubbed off cutting edges. Regulate pressure and speed until a continuous spiraling chip is observed. Back out drill frequently to free chips. Peripheral speeds of twist drills for plastics range from 100 to 200 feet per minute. Standard drill bits will work, but bits specifically designed for plastics are recommended.
- C. Install polyester resin wall panels level, plumb, true in line, and without distortion. Shim as required with concealed shims. Install level and plumb to a tolerance of **1/8 inch in 96 inches** (Install with no more than **1/16 inch in 96-inch** vertical cup or bow and **1/8 inch in 96-inch** horizontal variation from a true plane).

3.4 PROTECTING AND CLEANING

- A. Protect resin composite paneling from contact with contaminating substances from construction operations. If, despite such protection, contaminating substances do come into contact with resin composite paneling, remove immediately and wash resin composite paneling according to resin composite paneling manufacturer's written instructions.
- B. Remove and replace resin composite paneling that is broken, chipped, cracked, abraded, or damaged in other ways during construction period, including natural causes, accidents, and vandalism.
- C. Wash resin composite paneling before date scheduled for inspections intended to establish date of Substantial Completion in each area of Project. Wash resin composite paneling according to resin composite paneling manufacturer's written instructions.

END OF SECTION

SECTION 07 01 50.19 - PREPARATION FOR REROOFING

PART 1 - GENERAL

1.1 SUMMARY

A. The Work of This Section Includes:

- ~~1.~~ ~~Full roof tear-off.~~
- ~~2.~~1. Partial roof tear-off.
- ~~3.~~2. Temporary roofing.
- ~~4.~~3. Roof re-cover preparation.
- ~~5.~~4. Base flashing removal.
- ~~6.~~5. Removal of existing skylight and equipment curbs and screens as indicated.
- ~~7.~~6. Fastener pull-out testing.
- ~~8.~~7. Disposal.

B. Related Requirements:

1. Section 01 10 00 "Summary" for use of premises and for phasing requirements.
2. Section 01 50 00 "Temporary Facilities and Controls" for temporary construction and environmental-protection measures for reroofing preparation.

1.2 REFERENCES

- A. California Code of Regulations, Title 24, Part 11 California Green Building Standards Code,"CALGreen."
- B. California Code of Regulations, Title 24 Part 2, California Building Code (CBC), International Building Code with California Amendments.

1.3 ALLOWANCES

- A. Allowance for removal of existing wet insulation, and replacement with new insulation, is specified under Section 01 21 00 "Allowances."
- B. Allowance for removal of existing deteriorated metal roof deck, and replacement with new metal roof deck, is specified under Section 01 21 00 "Allowances."
- C. Allowance for removal of existing deteriorated wood roof deck, and replacement with new wood deck, is specified under Section 01 21 00 "Allowances."
- D. Allowance for removal of existing deteriorated wood nailers and curbs, and replacement with new wood, is specified under Section 01 21 00 "Allowances."
- E. Allowance for removal of existing deteriorated parapet wall sheathing, and replacement with new sheathing, is specified under Section 01 21 00 "Allowances."

1.4 UNIT PRICES

- A. Work of this Section is affected by [insulation removal and replacement unit price] [metal deck removal and replacement unit price] [roof sheathing removal and replacement unit price] [and] [parapet wall sheathing removal and replacement unit price] <Insert name of unit price>.

1.5 DEFINITIONS

- A. EPS: Molded (expanded) polystyrene.
- B. Full Roof Tear-off: Removal of existing roofing system down to existing roof deck.
- C. OSB: Oriented strand board.
- D. Partial Roof Tear-off: Removal of selected components and accessories from existing roofing system.
- E. Roofing Terminology: Definitions in ASTM D1079 and glossary of NRCA's "The NRCA Roofing Manual: Membrane Roof Systems" apply to work of this Section.
- F. Roof Re-Cover Preparation: Existing roofing system is to remain and be prepared for new roof installed over it.

1.6 PREINSTALLATION MEETINGS

- A. Preliminary Roofing Conference: Before starting removal Work, conduct conference at Project site.
1. Meet with Owner, Architect, Owner's insurer if applicable, testing and inspecting agency representative, roofing Installer, and installers whose work interfaces with or affects roofing, including installers of roof accessories and roof-mounted equipment.
 2. Review methods and procedures related to roofing tear-off, including, but not limited to, the following:
 - a. Reroofing preparation, including roofing system manufacturer's written instructions.
 - b. Temporary protection requirements for existing roofing system components that are to remain.
 - c. Existing roof drains and roof drainage during each stage of reroofing, and roof-drain plugging and plug removal.
 - d. Construction schedule and availability of materials, Installer's personnel, equipment, and facilities needed to avoid delays.
 - e. Existing roof deck conditions requiring Architect notification.
 - f. Existing roof deck removal procedures and Owner notifications.
 - g. Condition and acceptance of existing roof deck and base flashing substrate for reuse.
 - h. Structural loading limitations of roof deck during reroofing.
 - i. Base flashings, special roofing details, drainage, penetrations, equipment curbs, and condition of other construction that affect reroofing.
 - j. HVAC shutdown and sealing of air intakes.
 - k. Shutdown of fire-suppression, -protection, and -alarm and -detection systems.
 - l. Asbestos removal and discovery of asbestos-containing materials.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

- m. Governing regulations and requirements for insurance and certificates if applicable.
- n. Existing conditions that may require Architect notification before proceeding.

1.7 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Temporary Roofing Submittal: Product data and description of temporary roofing system.
 - 1. If temporary roof remains in place, include surface preparation requirements needed to receive permanent roof, and submit a letter from roofing manufacturer stating acceptance of the temporary roof and that its inclusion does not adversely affect the new roofing system's resistance to fire and wind or specified special warranty.

1.8 INFORMATIONAL SUBMITTALS

- A. Field Test Reports: Fastener pull-out test report.
- B. Photographs or Video: Show existing conditions of adjoining construction and site improvements, including exterior and interior finish surfaces, that might be misconstrued as having been damaged by reroofing operations.
 - 1. Submit before Work begins.
- C. Landfill Records: Indicate receipt and acceptance of demolished roofing materials and hazardous wastes, such as asbestos-containing materials, by a landfill facility licensed to accept them.

1.9 QUALITY ASSURANCE

- A. Regulatory Requirements:
 - 1. Comply with governing EPA notification regulations before beginning roofing removal.
 - 2. Comply with hauling and disposal regulations of authorities having jurisdiction.

1.10 FIELD CONDITIONS

- A. Existing Roofing System: SBS-modified bituminous or comparable roofing membrane as confirmed on site in field review with Owner's Representative.
- B. Owner will not occupy portions of building immediately below reroofing area.
 - 1. Conduct reroofing so Owner's operations are not disrupted.
 - 2. Provide Owner with not less than 72 hours' written notice of activities that may affect Owner's operations.
 - 3. Coordinate work activities daily with Owner so Owner has adequate advance notice to place protective dust and water-leakage covers over sensitive equipment and furnishings, shut down HVAC and fire-alarm or -detection equipment if needed, and evacuate occupants from below work area.
 - 4. Before working over structurally impaired areas of deck, notify Owner to evacuate occupants from below affected area.
 - a. Verify that occupants below work area have been evacuated before proceeding with work over impaired deck area.

- C. Protect building to be reroofed, ~~adjacent buildings,~~ walkways, site improvements, exterior plantings, and landscaping from damage or soiling from reroofing operations.
- D. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities.
- E. Conditions existing at time of inspection for bidding will be maintained by Owner as far as practical.
- ~~1. A roof moisture survey of existing roofing system is available for Contractor's reference.~~
- ~~2. The results of an analysis of test cores from existing roofing system are available for Contractor's reference.~~
- ~~3. Construction Drawings[and Project Manual] for existing roofing system are provided for Contractor's convenience and information, but they are not a warranty of existing conditions. They are intended to supplement rather than serve in lieu of Contractor's own investigations. Contractor is responsible for conclusions derived from existing documents.~~
- F. Limit construction loads on existing roof areas to remain, and existing roof areas scheduled to be reroofed to those designated in the Structural Drawings for rooftop equipment wheel loads and for uniformly distributed loads.
- G. Weather Limitations: Proceed with reroofing preparation only when existing and forecasted weather conditions permit Work to proceed without water entering existing roofing system or building.
1. Remove only as much roofing in one day as can be made watertight in the same day.
- H. Hazardous Materials:
1. It is not expected that hazardous materials, such as asbestos-containing materials, will be encountered in the Work.
- a. Hazardous materials will be removed by Owner before start of the Work.
- b. Existing roof will be left no less watertight than before removal.
2. If materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify Architect and Owner.
- a. Hazardous materials will be removed by Owner under a separate contract.
3. A report on the presence of hazardous materials is on file for review and use. Examine report to become aware of locations where hazardous materials are present.
- a. Hazardous material remediation is specified elsewhere in the Contract Documents.
- b. Do not disturb hazardous materials or items suspected of containing hazardous materials except according to procedures specified elsewhere in the Contract Documents.
- c. Coordinate reroofing preparation with hazardous material remediation to prevent water from entering existing roofing system or building.

~~1.11 — WARRANTY~~

~~Retain this article if portions of existing roof are to remain or if an adjoining existing roof is under warranty.~~

- ~~A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during reroofing, by methods and with materials so as not to void existing roofing~~

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025

BID SET – ADDENDUM 06

~~system warranty issued by <Insert name of manufacturer for existing warranted roof system>.~~

- ~~1. Notify warrantor before proceeding with the Work.~~
- ~~2. Notify warrantor of existing roofing system on completion of reroofing and obtain documentation verifying that existing roofing system has been inspected and warranty remains in effect.~~
 - ~~a. Submit documentation at Project closeout.~~

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. VOC limits for adhesives, sealants, fillers, primers, and coatings. Comply with limits specified.

2.2 TEMPORARY PROTECTION MATERIALS

- A. Design and selection of materials for temporary roofing are Contractor's responsibility.

2.3 TEMPORARY ROOFING MATERIALS

- A. Design and selection of materials for temporary roofing are the Contractor's responsibilities.

2.4 INFILL AND REPLACEMENT MATERIALS

- A. Use infill materials matching existing roofing system materials unless otherwise indicated.
 1. Infill materials are specified in Section 07 54 19 "Polyvinyl-Chloride (PVC) Roofing"
- B. Wood blocking, curbs, and nailers are specified in Section 06 10 00 "Rough Carpentry."
- C. Parapet Sheathing: Match existing, adjacent, undamaged materials.
 1. Plywood roof sheathing is specified in Section 06 16 43 "Gypsum and Cementitious Sheathing."
- D. Fasteners: Factory-coated steel fasteners with metal or plastic plates listed in FM Approvals' RoofNav, and acceptable to new roofing system manufacturer.

2.5 AUXILIARY REROOFING MATERIALS

- A. General: Use auxiliary reroofing preparation materials recommended by roofing system manufacturer for intended use and compatible with components of existing and new roofing system.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Protection of In-Place Conditions:

2023005	ALTADENA MAIN LIBRARY ALTADENA LIBRARY DISTRICT	08.15.2025 <u>10.28.2025</u>
	BID SET – <u>ADDENDUM 06</u>	

1. Protect existing roofing system that is not to be reroofed.
 2. Limit traffic and material storage to areas of existing roofing that have been protected.
 3. Maintain temporary protection and leave in place until replacement roofing has been completed. Remove temporary protection on completion of reroofing.
 4. Comply with requirements of existing roof system manufacturer's warranty requirements.
- B. Seal or isolate windows that may be exposed to airborne substances created in removal of existing materials.
- C. Shut off rooftop utilities and service piping before beginning the Work.
- D. Test existing roof drains to verify that they are not blocked or restricted.
1. Immediately notify Architect of any blockages or restrictions.
- E. Coordinate with Owner to shut down air-intake equipment in the vicinity of the Work.
1. Cover air-intake louvers before proceeding with reroofing work that could affect indoor air quality or activate smoke detectors in the ductwork.
- F. During removal operations, have sufficient and suitable materials on-site to facilitate rapid installation of temporary protection in the event of unexpected rain.
- G. Maintain roof drains in functioning condition to ensure roof drainage at end of each workday.
1. Prevent debris from entering or blocking roof drains and conductors.
 - a. Use roof-drain plugs specifically designed for this purpose.
 - b. Remove roof-drain plugs at end of each workday, when no work is taking place, or when rain is forecast.
 2. If roof drains are temporarily blocked or unserviceable due to roofing system removal or partial installation of new roofing system, provide alternative drainage method to remove water and eliminate ponding.
 - a. Do not permit water to enter into or under existing roofing system components that are to remain.

3.2 ROOF TEAR-OFF

- A. Lower removed roofing materials to ground and onto lower roof levels, using dust-tight chutes or other acceptable means of removing materials from roof areas.

~~B. Full Roof Tear-off: Where indicated on Drawings, remove existing roofing and other roofing system components down to the existing roof deck.~~

~~1. Remove [substrate board] [vapor retarder] [roof insulation] [and] [cover board].~~

~~2. Remove base flashings and counter flashings.~~

~~3. Remove perimeter edge flashing and gravel stops.~~

~~4. Remove copings.~~

~~5. Remove expansion joint covers.~~

~~6. Remove flashings at pipes, curbs, mechanical equipment, and other penetrations.~~

~~7. Remove roof drains indicated on Drawings to be removed.~~

~~8. Remove wood blocking, curbs, and nailers.~~

9.1. Remove fasteners from deck [or cut fasteners off slightly above deck surface].

~~C.B.~~ Partial Roof Tear-off: Where indicated on Drawings, remove existing roofing down to ~~[existing cover board] [existing insulation] <Insert substrate>~~ and immediately check for presence of moisture.

1. ~~[Engage] [Owner will engage]~~ a qualified testing agency to perform the following test:
 - a. Coordinate with Owner's testing agency to schedule times for tests and inspections immediately after removal.

Retain one of first three subparagraphs below if Contractor is responsible for testing.

2. Survey exposed substrate that is to remain using infrared color thermography according to ASTM C1153.
 - a. Prepare survey report of initial scan indicating locations of entrapped moisture, if any, and area calculations of locations of entrapped moisture.
- ~~3. Survey exposed substrate that is to remain using electrical capacitance/impedance testing according to ASTM D7954/D7954M.

 - a. Prepare survey report indicating locations of entrapped moisture, if any, and area calculations of locations of entrapped moisture.~~
- ~~4. Survey exposed substrate that is to remain using nuclear hydrogen detection testing according to SPRI/RCI NT-1.

 - a. Prepare survey report indicating locations of entrapped moisture, if any, and area calculations of locations of entrapped moisture.~~

Revise first subparagraph below to insert additional qualifications or criteria to determine whether insulation, cover board, and substrate board are too wet. Retain option and revise as applicable if unit price for removal is not included in the Contract Documents.

- ~~5.3.~~ Remove wet or damp materials below existing roofing and above deck as directed by Architect.
 - ~~a. [Removal is paid for by adjusting the Contract Sum according to unit prices included in the Contract Documents.]~~
- ~~6.4.~~ Inspect wood blocking, curbs, and nailers for deterioration and damage.
 - a. If wood blocking, curbs, or nailers have deteriorated, immediately notify Architect.
 - ~~b. [Removal is paid for by adjusting the Contract Sum according to unit prices included in the Contract Documents.]~~
- ~~7.5.~~ Bitumen and felts that are firmly bonded to concrete decks are permitted to remain if felts are dry.
 - a. Remove unadhered bitumen, unadhered felts, and wet felts.
- ~~8.6.~~ Remove excess asphalt from steel deck that is exposed by removal of wet or damp materials.
 - a. A maximum of **15 lb/100 sq. ft. (0.72 kg/sq. m)** of asphalt is permitted to remain on steel decks.
- ~~9.7.~~ Remove fasteners from deck or cut fasteners off slightly above deck surface.

3.3 DECK PREPARATION

- A. Inspect deck after tear-off of roofing system.
- B. If broken or loose fasteners that secure deck panels to one another or to structure are observed, or if deck appears or feels inadequately attached, immediately notify Architect.
 1. Do not proceed with installation until directed by Architect.
- C. If deck surface is unsuitable for receiving new roofing or if structural integrity of deck is suspect, immediately notify Architect.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025
10.28.2025

BID SET – ADDENDUM 06

- D. Do not proceed with installation until directed by Architect. Replace plywood roof sheathing as indicated on Drawings.
- E. Replace plywood roof sheathing as directed by Architect.
 - 1. Roof sheathing replacement will be paid for by adjusting the Contract Sum according to unit prices included in the Contract Documents.

3.4 INFILL MATERIALS INSTALLATION

- A. Immediately after roof tear-off, and inspection and repair, if needed, of deck, fill in tear-off areas to match existing roofing system construction.
 - 1.

3.5 TEMPORARY ROOFING

- A. Install approved temporary roofing over area to be reroofed.

3.6 ROOF RE-COVER PREPARATION

- A. Remove blisters, ridges, buckles, [mechanically attached roofing fastener buttons projecting above roofing,] and other substrate irregularities from existing roofing that inhibit new recover boards from conforming to substrate.
 - 1. Remove loose aggregate from aggregate-surfaced, built-up bituminous roofing with a power broom.
 - 2. Scarify surface of sprayed polyurethane foam as necessary to achieve a sufficiently uniform plane to receive new recover boards.
 - 3. Broom clean existing substrate.
 - 4. Coordinate with Owner's inspector to schedule times for tests and inspections.
 - 5. Verify that existing substrate is dry.
 - a. Spot check substrates with an electrical capacitance moisture-detection meter.
 - 6. Remove materials that are wet or damp.
 - a. Removal will be paid for by adjusting the Contract Sum according to unit prices included in the Contract Documents.

Retain first paragraph below for new mechanically fastened, ballasted, or protected elastomeric and thermoplastic roofing installed over existing built-up and modified bituminous roofing, elastomeric and thermoplastic roofing, or coated foamed roofing. Delete options if not required. Most mechanically attached roofing does not have buttons projecting above roofing.

Preparation method below permits two reroofing system alternatives: One is to install a recover board between old and new roofing; the other is to install fleece-backed roofing directly over existing roofing. For fleece-backed alternative, verify that new roofing is compatible with existing roofing. For new modified bituminous roofing or mechanically fastened elastomeric and thermoplastic roofing, verify that existing roofing system has enough compressive resistance, or specify a recover board.

If existing roofing is an aggregate-surfaced built-up roof, specify a recover board rather than a fleece- backed roofing. If existing roofing system is coated foamed roofing without granules, aggregate, or sand in or on the coating, a new roofing without a fleece backing can be installed directly over coated foamed roofing.

~~B. Remove blisters, ridges, buckles, [mechanically attached roofing fastener buttons projecting above roofing,] and other substrate irregularities from existing roofing that inhibit new [recover boards] [roofing] from conforming to substrate.~~

~~Retain first subparagraph below for existing aggregate-surfaced, built-up bituminous roofing.~~

- ~~1. Remove loose aggregate from aggregate-surfaced, built-up bituminous roofing with a power broom.~~

~~Retain first subparagraph below for existing coated foamed roofing. Shaving is usually needed to avoid development of birdbaths.~~

- ~~2. Shave surface of sprayed polyurethane foam as necessary to achieve a sufficiently uniform plane to receive new [recover boards][roofing].~~
- ~~3. Broom clean existing substrate.~~
- ~~4. Coordinate with Owner's inspector to schedule times for tests and inspections.~~

~~Retain last subparagraph above and delete first subparagraph below if checking is performed by Owner's inspector.~~

- ~~5. Verify that existing substrate is dry before proceeding with installation.

 - ~~a. Spot check substrates with an electrical capacitance moisture detection meter.~~~~
- ~~6. Remove materials that are wet and damp.

 - ~~a. Removal will be paid for by adjusting the Contract Sum according to unit prices included in the Contract Documents.~~~~

C.B. Remove blisters and areas of roofing not fully adhered.

~~D. Remove [mechanically attached roofing fastener buttons projecting above roofing and other] substrate irregularities that inhibit new recover boards from conforming to substrate.~~

- ~~1. Remove loose aggregate from aggregate-surfaced, built-up bituminous roofing with a power broom.~~
- ~~2. Clean substrate of contaminants, such as dirt, debris, oil, and grease, that can affect adhesion of coated foamed roofing.~~
- ~~3. Power vacuum the existing roof surface.

 - ~~a. If recommended by foam manufacturer, prime dried surface at recommended rate with recommended primer.~~~~
- ~~4. Scarify surface of coated polyurethane roofing as necessary to achieve a suitable substrate for new roofing.~~
- ~~5. Provide additional uplift securement for existing roofing system with new screws and plates applied to each roof zone at the following densities:

 - ~~a. Field of roof, one fastener for each <Insert area>.~~
 - ~~b. Corners of roof, one fastener for each <Insert area>.~~
 - ~~c. Perimeters of roof, one fastener for each <Insert area>. Width of perimeter zone of roof is <Insert dimension>.~~~~
- ~~6. Verify that surface is dry by pressing litmus paper to surface areas most likely to retain moisture, such as shaded areas and low spots.

 - ~~a. If paper changes color, surface is too wet to apply foam.~~~~
- ~~7. Build up isolated low spots on existing roofing with sprayed foam specified in Section 07 57 00 "Coated Foamed Roofing" to prevent ponding.~~

3.7 BASE FLASHING REMOVAL

A. Remove existing base flashings.

1. Clean substrates of contaminants, such as asphalt, sheet materials, dirt, and debris.

B. Do not damage metal counterflashings that are to remain.

1. Replace metal counterflashings damaged during removal with counterflashings specified in Section 07 62 00 "Sheet Metal Flashing and Trim."

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025

BID SET – ADDENDUM 06

- C. Inspect parapet sheathing, wood blocking, curbs, and nailers for deterioration and damage.
 - 1. If parapet sheathing, wood blocking, curbs, or nailers have deteriorated, immediately notify Architect.
- D. Remove existing parapet sheathing and replace with new parapet sheathing to comply with Section 06 16 00 "Sheathing."
 - 1. If parapet framing, wood blocking, curbs, or nailers have deteriorated, immediately notify Architect.

3.8 FASTENER PULL-OUT TESTING

- A. ~~{Perform}~~ ~~{Retain independent testing and inspecting agency to conduct}~~ fastener pull-out tests according to SPRI FX-1 and submit test report to ~~{Architect}~~ ~~{and}~~ ~~{roofing manufacturer}~~ before installing new roofing system.
 - 1. Obtain ~~{Architect's}~~ ~~{roofing manufacturer's}~~ approval to proceed with specified fastening pattern.
 - a. ~~{Architect}~~ ~~{Roofing manufacturer}~~ may furnish revised fastening pattern commensurate with pull-out test results.

3.9 DISPOSAL

- A. Collect demolished materials and place in containers.
 - 1. Promptly dispose of demolished materials.
 - 2. Do not allow demolished materials to accumulate on-site.
 - 3. Storage or sale of demolished items or materials on-site is not permitted.
- B. Transport and legally dispose of demolished materials off Owner's property.
- C. Debris, waste, and removed materials, other than items to be salvages, are Contractor's property for legal disposal off the site, as required by applicable Federal and State regulations. Do not allow removed materials to accumulate.

3.10 PROTECTION AND CLEANING

- A. Clean roof and surrounding surfaces.
- B. In areas where finished surfaces are soiled by bitumen or other materials, clean surfaces with manufacturer's recommended products and procedures.
- C. Repair or replace defaced or damages finishes caused by the work of this Section.
- D. Protect installed work throughout construction.

END OF SECTION

SECTION 07 81 22 - THIN-FILM INTUMESCENT FIREPROOFING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes requirements for thin-film, intumescent fireproof coating on structural steel shapes utilizing paint products of a single manufacturer.

1.2 REFERENCE STANDARDS

- A. ASTM D2240 – Standard Test Method for Rubber Property – Durometer Hardness.
- B. ASTM E84 – Standard Test Method for Surface Burning Characteristics of Building Materials.
- C. ASTM E119 – Standard Test Methods for Fire Tests of Building Construction and Materials.
- D. SSPC-PA 2 – Procedure for Determining Conformance to Dry Coating Thickness Requirements

1.3 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Conference: Provide field samples for review immediately following or in conjunction with Conference. Include all testing agents, manufacturer's field representative, applicator and others as directed.
- B. Sequence installation to allow for field testing as Work progresses. Do not proceed with fireproofing of next area until test results for previously completed work evidence compliance with requirements.
 - 1. Do not conceal fireproofing with field applied top coating or other work until inspection and required tests are complete and Work is accepted.
 - 2. Install clips, sleeves, hangars and items that will penetrate fireproofing prior to fireproofing installation.
 - 3. Minimize the need for alterations to applied fireproofing for installation of other Work.

1.4 SUBMITTALS

- A. Product Data and manufacturer's recommended application procedures.
 - 1. Certification that fireproofing components provided as work of this Section comply with limitations on VOC content and chemical compounds.
- B. Samples: Prior To Ordering Paint: Two samples on 12 in. by 12 in. hardboard for Architect's review of color, sheen and texture. Submit new samples until acceptable appearance achieved.
 - 1. Confirm color of paint mixed for job matches previous samples, submit a second set of draw-downs, revise paint color as directed by Architect until satisfactory match achieved.

- ~~2. Field Samples: Apply complete system including all coatings required for the Work in thickness necessary for the required fire resistance rating. Provide field samples on components that will be concealed in the complete work in the locations directed.~~
- ~~a. Demonstrate finish texture, transition between different systems and overall appearance to be acceptable in the completed Project.~~

- C. Quality Control Submittals: Test reports, applicator qualifications and certification of compliance with referenced standards and fire protection rating.

1.5 QUALITY ASSURANCE

- A. Applicator Qualifications: Certified by the manufacturer of the intumescent fireproofing to be applied as a qualified to apply the products and accessories necessary to comply with System Description and Project requirements.
1. Applicator shall have 5 years successful experience with the materials being used and shall be a knowledgeable expert in all aspects of proper application and cure for the required systems.
 2. Provide documentation of three previous projects using the materials proposed for Project applications required.

1.6 FIELD CONDITIONS

- A. Environmental Requirements: Provide controlled conditions for application of intumescent fire-proofing; ambient temperatures of 50 to 70 degrees F and relative Humidity between 50 and 70 percent for 48 hours prior to and following application of fireproofing.
1. Ventilation: By mechanical means, provide a minimum of 3 air changes per hour in enclosed areas.
 2. Provide temporary enclosure of work area or other acceptable means of controlling working conditions including contamination of paint surfaces with dust and other airborne particulates.
 3. Provide a record of temperature and humidity from a recording hygrothermograph demonstrating compliance with environment requirements.

PART 2 - PRODUCTS

2.1 SYSTEM DESCRIPTION

- A. Fireproofing: Provide intumescent thin-film fire protection systems tested by an independent testing agency in accordance with ASTM E199 for spray application in the field. Dry Film Thickness shall provide a UL listing of 1 hour for the steel framing to be protected. The specified product shall set the standard for DFT, products having a thicker DFT for the specified fire resistance are not acceptable.
1. Final determination of products and work necessary for work of this Section shall be the contractor's. Provide all products and application methods and sequence necessary to comply with finish appearance requirements regardless of whether they specifically enumerated in the Contract Documents at no additional cost to the Owner.
 2. Finish on Concealed Work: As necessary to achieve required fire resistance rating for the work.
 3. Final determination of products necessary for work of this Section shall be the Contractor's responsibility. Provide all products, application methods and sequence

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025
10.28.2025

BID SET – ADDENDUM 06

necessary to comply with performance requirements regardless of whether enumerated in the Contract Documents at no additional cost to the Owner.

- B. Performance Requirements: Materials and installation conforming to assemblies listed in UL "Fire Resistance Directory" and tested in accordance with ASTM E 119.
 - 1. Provide 1-hour fire resistance rating on the structural steel framing exposed within the elevator hoistway and as indicated in Drawings and specified herein.

2.2 MANUFACTURED COMPONENTS

- A. Thin-Film Intumescent Fireproofing: Products of a single manufacturer for each type of fireproofing required. Subject to compliance with specified requirements, provide the following manufacturers' products, or an approved substitution.
 - 1. Steel Having Only Interior Exposure: Products of Carboline Company, Isolatek International, Sherwin Williams Protective and Marine Coatings; provide a compatible primer recommended by the manufacturer.
 - a. Surface Burning Characteristics: Class A, flame spread/smoked developed 25/450 maximum when tested in accordance with ASTM E84.
 - b. Durometer Hardness, Type D: 60 minimum in accordance with ASTM D2240.
 - 2. Primer Coating and Protective Top Coating: Products manufactured and approved by the Fireproofing manufacturer for use together with thin film fireproofing as a complete system.
 - 3. Accessories: Products to be applied on site shall comply with VOC and chemical compound limitations for the Work.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates to determine if they are in satisfactory condition to receive intumescent fire protection; verify that substrates are clean and free of oil, grease, incompatible primers, or other foreign substances capable of impairing bond to fireproofing system.
- B. Do not begin installation until substrates have been properly prepared.
- C. If substrate preparation is responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Thoroughly clean surfaces to receive fireproofing.
- B. Repair substrates to remove surface imperfections that could affect uniformity of texture and thickness of fireproofing system, and remove minor projections and fill voids that could telegraph through finished work.
- C. Cover or otherwise protect other work that might be damaged by fallout or overspray of fireproofing system, and provide temporary enclosures as necessary to confine operations and maintain required ambient field conditions.

3.3 APPLICATION

- A. Comply with manufacturer's instructions for each particular intumescent fire protection system installation application as indicated.
- B. Apply manufacturer's recommended primer to required coating thickness.
- C. Apply fireproofing to full thickness over entire area of each substrate to be protected.
- D. Apply coats at manufacturer's recommended rate to achieve dry film thickness (DFT) as required for fire resistance ratings designated for each condition.
- E. Apply intumescent fire protection by spraying to maximum extent possible, and as necessary complete coverage by roller application or other method acceptable to manufacturer.
- F. Achieve uniform finished appearance.

3.4 FIELD QUALITY CONTROL

- A. Tests: Comply with requirements for Special Inspections of CBC Chapter 17 and the following.
 - 1. Applicator Testing: Provide written documentation of continuous wet film testing of the work during application to ensure the required DFT is achieved and to maintain compliance with manufacturer's recommended application procedures.
 - 2. Special Inspection: Owner's independent testing laboratory will inspect the work per ASTM D 3276 and determine the DFT and adhesion of the intumescent fireproofing as appropriate to the status of the work. Test areas will be selected by the laboratory in the frequency required by Regulatory Authorities to demonstrate compliance with Code requirements, but not less than one test for every 250 square feet of material covered.
 - a. Dry Film Thickness: Determined in accordance with SSPC PA2.
 - b. Adhesion: ASTM D 4541.
- B. Repair fireproofing as necessary due to field tests. Correct work where test results indicate fireproofing does not comply with Contract requirements.

~~C. Tests:~~

- ~~1. Contractor Testing: Provide written documentation of continuous wet film testing of the work during application to ensure the required DFT is achieved and to maintain compliance with manufacturer's recommended application procedures.~~
- ~~2. Owner Testing: Owner's independent testing laboratory will inspect the work per ASTM D 3276 and determine the DFT and adhesion of the intumescent fireproofing as appropriate to the status of the work. Test areas will be selected by the laboratory in the frequency required by Regulatory Authorities to demonstrate compliance with Code requirements, but not less than one test for every 250 square feet of material covered.~~
 - ~~a. Dry Film Thickness: Determined in accordance with SSPC PA2.~~
 - ~~b. Adhesion: ASTM D 4541.~~

- ~~D. Repair fireproofing as necessary due to field tests. Correct work where test results indicate fireproofing does not comply with Contract requirements.~~

3.5 CLEANING

- A. Immediately after installation of fireproofing in each area, remove overspray and fallout from other surfaces and clean soiled areas.

3.6 PROTECTION

- A. Protect installed intumescent fire protection from damage due to subsequent construction activities so fireproofing is without damage or deterioration before Date of Substantial Completion.
- B. Touch-up, repair or replace damaged products before Date of Substantial Completion.

END OF SECTION

SECTION 08 14 00 – WOOD DOORS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes requirements for flush panel and stile and rail wood doors. Standing and running trim are work of Section 06 40 00.
- B. Related Sections:
 - 1. Section 06 40 00 Architectural Woodwork.
 - 2. Section 08 11 00 Metal Doors and Frames.
 - 3. Section 08 71 00 Finish Hardware.

1.2 ADMINISTRATIVE REQUIREMENTS

- A. Pre-Installation Meeting: Coordinate with work of Section 08 11 00 for metal frames, Section 08 71 00 for finish hardware, Section 06 40 00 for woodwork and other trades as necessary for execution of the work required of this Section.

1.3 SUBMITTALS

- A. Product Data: Required for each product to be incorporated into the Work, including details of core and edge construction, trim for openings and louvers, and factory finish specifications.
 - 1. FSC Certified Wood: For each firm supplying wood products and each firm performing fabrication work on these wood products provide firm's COC number, identify each FSC certified product on a line-item basis and identify the material cost and value-added fabrication cost.
 - a. Vendor Chain-of-Custody
 - b. Fabricator Chain-of-Custody
 - c. Installer Chain-of-Custody provide when the installer is other than the fabricator.
- B. Shop Drawings: Fabrication and installation of doors, details of types, construction and veneer matching; location and installation of reinforcement, anchors, finish hardware, and accessories; elevations of door types.
 - 1. Schedule: Use reference numbers shown on contract documents, coordinate glazing frames and stops, and glazing requirements.
- C. Samples: Provide for each exposed species, cut, and finish, in sufficient number to demonstrate complete range of color and grain variation expected in Work but not less than three.
 - 1. Solid Stock Samples: 1 foot length of member configured as required for the work including molding profiles.
 - 2. Veneer and Panel Samples: Sufficient size to demonstrate required veneer sequence and typical flitch dimension but not less than 1 square foot.
 - 3. Glazing Stops and Similar appurtenances: Two of each in the configuration proposed to be used in the work.

1.4 QUALITY ASSURANCE

- A. Certification:
1. Provide AWI Quality Certification Labels or an AWI letter of licensing for Project indicating that doors comply with requirements of grades specified.
 - ~~2. Provide WIG-Certified Compliance Certificate indicating that doors comply with requirements of grades specified.~~
 - ~~3-2.~~ Fire-Rated Wood Doors: UL Tested, Listed and Labeled; or other acceptable independent agent.
 - ~~4-3.~~ Sustainably Produced Wood Products: Chain of Custody certification that wood products originate from Certified Well-Managed Forests as determined by standards endorsed by the Forest Stewardship Council (FSC).
 - a. Acceptable FSC Certified Programs: Green Cross certification Program administered by Scientific Certification Systems (SCS); SmartWood Certification Program administered by Rainforest Alliance; and Silva Forest Foundation.
 - b. For information and sources for certified forest products, contact the Certified Forest Products Council at (503) 590-6600 or www.certifiedwood.org.
- B. Environmental Requirements: Comply with Section 06 40 00 requirements for prevailing conditions for installation of woodwork.
- C. Field Measurements: Hardware mortises in metal frames to verify dimensions and alignment prior to pre-machining door. Field verified dimensions for fit to hollow metal frames provided as work of Section 08 11 00.

1.5 WARRANTY

- A. Warranty: Written agreement signed by Manufacturer, Installer and Contractor, providing for repair and replacement, to the Owner's satisfaction, of defective work, and work that does not conform to Project requirements; Warranty shall cover all work included in the original Contract; finishing, hardware preparation, and installation at no additional cost to Owner.
1. Warranty Period: From date of final acceptance.
 - a. Solid Core Flush Interior Doors: Life of installation.
 - ~~b. Stile and Rail Doors: Five years.~~

PART 2 - PRODUCTS

2.1 SYSTEM DESCRIPTION

- A. Design Requirements:
1. Flush Doors: WDMA Industry Standard IS-1-A Architectural Wood Flush Doors, AWS Section 9.
 - ~~2. Stile and Rail Doors: WDMA Industry Standard I.S.6-A Architectural Stile and Rail Doors, AWS Section 9.~~
 - ~~3-2.~~ Metal Frames: Comply with Section 08 11 00 requirements for assemblies required.
- B. Performance Requirements: Fire-rated door and frame assemblies UL listed and labeled for compliance with NFPA 80 in size and configuration required with specified hardware, and glazing.

1. Door and Frame Assemblies: Tested per NFPA 252, or UL10B & 10C as necessary for required assembly performance. Coordinate with Section 08 11 00 for wood doors and hollow metal frame assemblies.
 - a. Temperature Rise Rating: 450 degrees F maximum in 30 minutes of fire exposure for doors into exit enclosures, and other locations where required by Code.
 - b. Smoke-Control Door Assemblies: NFPA 105, UL 10C and 1784.
2. Frames for Glazed Openings: Tested per NFPA 257 or UL 9. Glazing performance and labeling shall comply with Section 08 81 00 requirements.
3. Engineering Judgment: Provided by UL authorized source for required assemblies not identical to a tested assembly due to size, configuration or other factor as acceptable to regulatory authorities certifying performance equivalent to that of the tested assembly.

2.2 MANUFACTURERS

- A. Subject to compliance with requirements, provide wood doors from one of the following manufacturers unless otherwise indicated.
 1. Masonite, VT Industries, ~~Vancouver Door, Lynden Door and Western Oregon~~ or approved.
- B. Producer of Certified Sustainably Produced stave lumber cores: Algoma Hardwoods.

2.3 MATERIALS

- A. Solid Stock: Certified Sustainably produced. Exposed members shall match grade, cut and species of exposed face veneer; concealed as required by reference standards.
- ~~B.~~ B. Select veneer and lumber for uniform appearance of grain and color and arrange for optimum match between adjacent pieces and throughout the work as a whole. Coordinate with appearance of wood fabrications provided as work of Section 06 40 00 to provide a close visual match with work of this Section.
 1. Provide WD1 wood veneer as Scheduled in Drawings.
 - a. Species: Juglans regia, American Black Walnut.
 - b. Cut: Flat cut.
 - c. Match: Slip matched.
 - d. Assembly: Center Balanced unless otherwise directed by Architect.
 - ~~B.e.~~ Thickness: 1/42-inch, minimum.
- ~~C.~~ Faces and Edges of Wood Doors Scheduled to have opaque painted finish shall be an approved paint grade species complying with referenced Standard.
- ~~D.C.~~ D.C. Adhesive: Shall contain no added urea-formaldehyde resins, comply with ASTM D 5572 for finger joints and ASTM D 5751 for laminate joints; waterproof for doors in wet use locations and exterior.
- ~~E.D.~~ E.D. Provide [Structural Composite Lumber] [Solid particle board] core containing no added urea-formaldehyde, with bonded stiles and rails comply with WDMA Extra Heavy Duty performance level as demonstrated by independently certified test data.
 1. When necessary for compliance with fire-resistance performance criteria a mineral core, reinforced for mounting of required hardware components shall be provided in lieu of other core material.

2.4 MANUFACTURED UNITS

- A. Flush Panel Architectural Doors: Comply with AWS Section 9 requirements for Premium Grade work. Provide specified solid core construction.
1. Cross Banding: Provide 0,125-inch-thick engineered hardwood composite board, OSB and particle board are not acceptable. Wood veneer shall be a minimum of 0.125 thick and not telegraph through finish veneers.
 2. Provide solid stock edges matching face veneers.
- ~~B. Stile and Rail Doors: Project requirements shall prevail over industry standards whether referenced herein or not and manufacturer's standard production methods at no added cost to the Project. Comply with AWI Section 1400 requirements for Premium Grade veneer construction. Provide solid stock edges and stops.~~
- ~~1. Provide three piece, face laminated solid stock construction. Edge laminating is not acceptable.~~
 - ~~2. Provide Five ply veneered construction on edge laminated solid stock or structural composite lumber core.~~
 - ~~3. Bottom Rail: Minimum height of 10 inches on swing doors to comply with barrier free access requirements~~
- ~~C.B. Openings: Cut and trim as indicated and required, use solid wood except where metal trim is required for fire rating; veneer wrap metal trim unless otherwise acceptable.~~
- ~~D.C. Fire Doors: Fire core as necessary for assembly configuration and performance required.~~
- ~~1. Stile Edge Screw Withdrawal: ASTM D 1037, 750 pounds.~~
 - ~~2. Stile Edge Split Resistance: ASTM D 143, 1200 pounds.~~
 - ~~3. Through-Bolt Pull-out: 1200 pounds.~~
 - ~~4. Pairs: Formed steel edges and astragals, veneer wrapped on B and C label doors, except as otherwise required.~~
 - ~~5. Intumescent Seals for Positive Pressure Doors: Concealed with veneer matching exposed door face.~~
- ~~E. Door Frames: AWS Premium Grade and as otherwise required for the Work; provide ploughed in stop and dadoed joinery between head and jambs of frame. Factory fit wood doors and frames to required opening size, and to comply with installation tolerances, clearances and bevels. Preassemble finished frames for final installation in the field.~~
- ~~F.D. Glaze doors in field or shop; comply with requirements of Section 08 81 00; provide glass types as scheduled and required by Code.~~
- ~~1. Glazing: Comply with ANSI Z97.1 and testing requirements of 16 CFR Part 1201 for category II materials, and permanently labeled as Safety Glazing. Provide assembly type and configuration indicated and other characteristics such as color, fire rating and custom features as required.
Glazing Stops and Beads: Shape and profile indicated, where not indicated provide 45 degree beveled top and projected fascia returned to door face, miter corners; solid wood except veneer wrapped 18 gage steel where necessary for assembly rating.
a. Stops: Anchor on security side with concealed fasteners.
b. Beads: Secured by exposed fasteners, snap-on not acceptable.~~
 - ~~2. Shop finish stops and beads as required for doors.~~
- ~~G.E. Prefit and pre-machine doors for hardware to comply with Contract requirements and referenced woodworking standard. Comply with final hardware schedules, shop drawings, and hardware templates, see Section 08 71 00 for hardware requirements.~~

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT08.15.2025
10.28.2025BID SET – ADDENDUM 06

- H.F. Factory fit wood doors and frames to required opening size, and to comply with installation tolerances, clearances, and bevels.
- H.G. Coordinate wood doors with hollow metal frames of Section 08 11 00; fit to required opening size, and comply with installation tolerances, clearances, and bevels.
1. Fire Rated Assemblies: Comply with NFPA 80.
 2. Lock and hinge Bevel: 0.125 inch in ~~1~~ 2 inches unless otherwise required for fire resistant performance.
- H. Transparent Finish: Provide factory finished WDMA System TR-8 UV cured urethane, premium grade.
1. Stain coat.
 2. Sealer coats: Minimum 3 coats.
 3. Sanding: Sand.
 4. Topcoat: Minimum 2 coats.
- 2-I. Stain Color: As coordinated with work of Section 06 40 00 Architectural Woodwork and as approved in Submittal samples for color and sheen uniformity.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify frame type, size, location, and swing complies with requirements and that door can be installed within required tolerances without field modification. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Condition doors to average prevailing humidity in installation area for at least twenty-four hours prior to hanging.
- B. Hardware: Comply with requirements of Section 08 71 00.
- C. Install doors to comply with manufacturer's instructions referenced WDMA standards and as otherwise required for the Work. Comply with Section 08 11 00 requirements for wood doors installed in hollow metal frames.
- D. Where field fitting of doors is necessary and acceptable to Architect, machine and fit with uniform clearances and bevels required; do not trim stiles and rails in excess of NFPA standards and manufacturer's limits. Finish cut edges as required for shop work.
- E. Tolerances: NFPA Standards 80 and 105 for assembly performance required.
1. 0.125 inch at jambs and heads.
 2. 0.0625 inch per leaf at meeting stiles for pairs of doors.
 3. 0.25 inch over finish floor covering, and as indicated.
 4. 0.1875 inch at thresholds and saddles.
 5. Bevel: 0.125 inch in 2 inches at lock and hinge edges.
 6. Warp, bow, cup, or twist not exceeding 0.25 inch in a 42 by 84-inch section.
 7. No telegraphing of core construction in face veneers.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025

BID SET – ADDENDUM 06

- F. Where the Architect determines that a door or frame has been too severely damaged to represent new goods and materials as required by the Contract it shall be replaced by new undamaged work; regardless of whether this damage adversely effects door function. Remedial work such as filling and sanding to correct excessive damage is not acceptable in lieu of replacement.
1. Restore damaged finishes, site cut, and machined surfaces and edges before installation, return to shop doors that cannot be acceptably refinished on site, replace work that cannot be acceptably repaired.
- G. Operation: Replace and rehang doors that do not swing or operate freely, when directed by Architect.
- H. Protect installed work as recommended by manufacturer and as required to assure that doors are without damage, nor deterioration at time of substantial completion.

END OF SECTION

SECTION 08 32 13 – GLAZED SLIDING STACKING DOORS (METAL)

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes requirements for bi-parting and multi-leaf sliding and stacking aluminum framed glazed doors in the configurations required.
- B. Related Sections:
 1. Section 08 41 00 Aluminum Entrances and Storefront.
 2. Section 08 71 00 Door Hardware.
 3. Section 08 81 00 Glass and Glazing.

1.2 PROCEDURAL REQUIREMENTS

- A. Preinstallation Conference: Comply with Project Meeting requirements. Review methods and procedures related to installation of curtain-wall assemblies specified as work of this Section and coordination with other components and assemblies of the building cladding,
 1. Review and confirm Contractor's Project Schedule and work sequence and required tests and inspections.
 2. Coordination of fabrications for head-track supports work of Section 05 50 00 and work of this Section for track and frame assemblies and hanging rod connections.

1.3 SUBMITTALS

- A. Product Data: Submit as required for each material, manufactured product, accessory, and finish to be incorporated into the Work.
- B. Shop Drawings: Prepared by the original component manufacturer; preparation by the site fabricator or installer is not acceptable. Elevations at 0.25-inch equals one foot scale, details at 3-inch equals one foot scale, full size sections of composite members and isometric drawings of joinery intersections and internal sealant applications. Provide details of all conditions for every member, reinforcing, support system, anchorage details, glazing and interface with adjacent work. Indicate all component locations and intersection details; method of isolating dissimilar materials; provisions for expansion and contraction. Indicate shop-assembled units and pick-points for field erection.
 1. The Contractor shall provide professional engineering services for work of this Section to comply with System Description requirements. Engineer shall stamp and sign drawings and calculations prepared for this Project.
 - a. Engineer Certification: Maximum deflections are within required limits, and probable glass breakage will not exceed frequency specified in Section 08 81 00 using manufacturers' data.
 2. Show locations and details for sliding door support structures and connections to building structure and loads imposed on building structure; coordinate with work of Section 05 50 00 and tolerances for supporting structure and sliding glass doors. Document fastener type proposed for each application and note why proposed fastener is superior.
 3. Indicate extent of work that is shop fabricated and assembled and work that is fabricated and assembled in the field.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

4. Detail fabrication, attachments and installation for sills, track and custom fabrications if required.
 5. Installation Details: Perimeter closure across transition between fenestration frame and rough opening with elastomeric closure in configuration and attachment for each assembly and system required.
- C. Samples: Demonstrate fabrication, workmanship, and design of curtain wall. Provide a minimum of four samples of each type as required. Include an example of intersecting components either corner sections or intermediate mullion demonstrating representative appearance of component joinery to be provided in the Work.
1. Custom Fabrications: Provide samples of sills and closures in profiles and configurations required.
 2. Finish: Apply to 12-inch sections of curtain wall members; use same extrusion and alloy to be used in final Work. Demonstrate acceptable appearance match specified for the Work.
- D. Maintenance Manual: Document recommended frequency and cycle for inspections, and maintenance work for conditions of service representative of this facility such that in-service performance will comply with Project requirements. Identify means, methods and materials for inspection and assessment of operating components, cleaning and periodic maintenance necessary for reliable function and optimal service life. Provide complete listing of consumables and components reasonably anticipated to require replacement incidental to normal maintenance, and procedures for reglazing.
- E. Quality Assurance Submittals: Demonstrate compliance with requirements.
1. Certificate of Production: For finish system and application.
 2. Test Results: For door assembly as specified.

1.4 PROJECT CONDITIONS

- A. Verification of Dimensions: Actual dimensions of in-place construction work for location, tolerance compliance, operating clearances and all other criteria that may impact work of this Section in advance of component fabrication. Coordinate fabrication to avoid delay of work. Correct Work as necessary to remediate dimensional conflicts and provide assemblies with acceptable capacity for installation with required fit and operating clearances.
1. Coordinate with work of section 05 50 00 for metal fabrications required to support operable fenestration assemblies provided by this Section.

1.5 WARRANTY

- A. Special Warranty: Signed by authorized representative of the manufacturer, agreeing upon receipt of written notice of defective work, and work not in compliance with Project requirements to correct or replace the work to the satisfaction of the Owner, and at no cost to the Owner for the time periods required.
1. Project Installation: 10 years
 2. Finish Durability: 20 years against loss of required match in appearance, fade, chalk and deterioration in excess of normal weathering when evaluated per AAMA 2605.
- B. Installer Warranty: Signed by authorized representative of the General Contractor and fabricator-installer for work of this Section agreeing upon receipt of written notice of defective work, and work not in compliance with Project requirements to provide all labor necessary to correct or replace the work to the satisfaction of the Owner, at no cost to the Owner for the time periods required.

2023005	ALTADENA MAIN LIBRARY ALTADENA LIBRARY DISTRICT	08.15.2025 <u>10.28.2025</u>
	BID SET – <u>ADDENDUM 06</u>	

1. Project Installation: 3 years.

PART 2 - PRODUCTS

2.1 SYSTEM DESCRIPTION

- A. Design Requirements: Components with sections and profiles indicated. Design is based on specific type and model aluminum systems by a single manufacturer.—
1. Assembly framing concealed from view at head and sill; only vertical stiles may be visible.
 2. Provide an integrated gutter assembly to collect, control and dispose of water occurring in the assembly.
 3. Coordinate assembly to receive locks as required by Section 08 71 00, and prepare frames for locks.
- B. Performance Requirements: Comply with criteria of the General Structural Notes on S series drawings.
1. Air Infiltration: 0.37 cubic feet per minute per lineal foot of joint at inward pressure of 6.24-pound force per square foot.
 2. Water Penetration: None at inward pressure of 15-pound force per square foot.
 3. Structural Performance: Support and anchor units to limit deflection to 0.0057 of span and comply with Performance Requirements of Section 08 81 00 for service conditions required.
- C. Energy Performance: Provide as required by Architectural Drawings and in full compliance with CBC Title 24 Energy requirements for glazed doors, including minimum U-factor and Solar Heat Gain Coefficient.
3-1. Provide thermally broken frames and warm edge IGU spacer as necessary to meet performance standards.

2.2 MANUFACTURERS

- A. Basis of design is Series 3070 Multi-Slide Door as manufactured by Fleetwood Windows and Doors, www.fleetwoodusa.com.
1. Provide in sizes and panel configurations indicated in Drawings, with 2-inch recessed sill pan height.
 - a. Tweens / Children Multi-Slide Door:
 - 1) Provide 1-inch NPT Drain Spacing, 8-inches from end.
 - 2) Provide bottom drain coupling 'B,' exterior side, 1 -1/8" offset.
 - b. Community Room Multi-Slide Door:
 - 1) Provide 1/2-inch NPT Drain Spacing 8-inches from end.
 - A-2) Provide bottom drain coupling 'E2,' exterior side, as selected by Architect.
- B. Substitution Request: Comply with procurement requirements; requests received after bid opening will be rejected.

2.3 MATERIALS

- A. Aluminum: Alloy and temper recommended by manufacturer for strength, corrosion resistance, and application of required finish; ASTM B 221 for extrusions, ASTM B 209 for sheet and plate.

2023005	ALTADENA MAIN LIBRARY ALTADENA LIBRARY DISTRICT	08.15.2025 <u>10.28.2025</u>
	BID SET – <u>ADDENDUM 06</u>	

- B. Fasteners: Noncorrosive, compatible with metals fastened; Phillips flat-head machine screws for exposed fasteners.
- C. Concealed Flashing: 26 gage dead-soft stainless steel, or 0.062 inch extruded aluminum, 0.062.
- D. Brackets and Reinforcements: Non-magnetic stainless steel or hot-dip galvanized steel complying with ASTM A 386.
- E. Concrete/Masonry Insert: Cast-iron, malleable iron, or hot-dip galvanized steel complying with ASTM A 386.
- F. Compression Weatherstripping: Molded neoprene gaskets complying with ASTM D 2000 or molded PVC gaskets complying with ASTM D 2287.
- G. Sliding Weatherstripping: Replaceable stripping of wool, nylon woven pile, or polypropylene, with nylon fabric or aluminum strip backing, complying with AAMA 701.2.
- H. Glass and Glazing: Comply with requirements of Section 08 81 00, provide Safety Glazing as required for the Work.
- I. Hardware: Provide manufacturer's heavy duty top panel guide, bottom panel caster and miscellaneous components. Provide lockset and cylinder as required in Section 08 71 00.
 - 1. Plates and Handles: Aluminum, of style indicated.
 - 2. Thresholds: Comply with barrier free access regulations for aluminum floor track, threshold and similar fabrications cross line of travel. Extruded aluminum, mill finish, with anchors and clips, coordinated with pivots and floor-concealed closers.

2.4 FABRICATION

- A. Provide sizes, configurations, and profiles indicated, and scheduled with accurate relation of planes and angles, and hairline tight joints. Shop fabricate and assemble work to greatest extent possible using manufacturer's standard methods; disassemble only as necessary to ship and install; protect finishes from damage and deterioration.
 - 1. Coordinate with work of Section 08 71 00; prepare units for hardware and install in shop wherever possible, except drill and tap for surface-mounted hardware at Project site.
 - 2. Reinforce work as necessary for hardware mounting, and performance requirements.
- B. Welding: Comply with AWS recommendations to avoid discoloration; grind exposed welds smooth and flush and restore finish.
- C. Isolate dissimilar metals and incompatible materials, prevent galvanic action and corrosion.
- D. Fasteners: Concealed, unless otherwise acceptable, except use exposed fasteners for surface mounted hardware.
 - 1. Exposed Fasteners: Countersunk, filled, ground flush and finished to match surface where later removal is not necessary; finish removable fasteners to match adjacent finish as directed.
- E. Weatherstripping: Exterior openings and locations required; unless otherwise required, sliding type mortised into adjustable strip centered in door edge at stile and head rail, compression type at fixed stops. Provide silencers where weatherstripping is not required.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

1. Bottom Rail: Adjustable EPDM/vinyl blade gasket.
 2. Jamb of Center Pivot Door: Finger guards of collapsible neoprene or PVC anchored to frame.
- F. Glazing System: Type indicated, design for reglazing from interior without disassembly
1. Stops: Extruded aluminum with beveled top and projected fascia returned to door face unless otherwise indicated; nonremovable exterior stops, and snap-on interior stops.

2.5 FINISHES

~~A. Color Anodic Finish: AAMA 611, AA-M12C22A42/A44, Class 1, 0.018 mm or thicker.~~

- ~~1. Color: Dark bronze to match Architect's sample.~~

~~A. High Performance Pigmented Organic Coating: AAMA 2605; 70 percent PVDF resin contents; as selected and to provide visual match to similarly finished work of Section 08 41 00.~~

B. Hardware Finishes: Comply with requirements of Section 08 71 00.

2.6 SOURCE QUALITY CONTROL

- A. Test and certify storefront and entrance assembly compliance with Project performance requirements.
1. Wind Load: ASTM E 330.
 2. Air Infiltration: ASTM E 283
 3. Water Penetration: ASTM E 331
 4. Thermal Transmission: U-value Btu/(hr x sf x degree F) AAMA 1503.1.
 5. Condensation Resistance Factor: AAMA 1502.7.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Comply with manufacturer's instructions and recommendations for installation of aluminum entrances and storefronts.
- B. Set units plumb, level, and true to line, without warp or rack of framing members, doors, or panels. Anchor securely in place, isolate incompatible metals and substrates, prevent corrosion and electrolysis.
- C. Set sills and other members in sealant bed and provide joint fillers and gaskets as indicated to provide weathertight construction.
- D. Drill and tap frames and doors and apply surface-mounted hardware items, complying with hardware manufacturer's instructions and template requirements. Use concealed fasteners wherever possible.
- E. Field test installed work for compliance with performance requirements for air and water penetration using referenced standards as a guide.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025

BID SET – ADDENDUM 06

3.2 ADJUST AND CLEAN

- A. Adjust operating hardware to function properly, without binding, and to provide tight fit at contact points and weatherstripping.
- B. Clean completed system, inside and out, promptly after erection and installation of glass and sealants. Remove excess glazing and joint sealants, dirt, and other substances from aluminum surfaces.
- C. Protect work so that it is without damage or deterioration, other than normal weathering, at time of acceptance.

END OF SECTION

SECTION 08 63 00 – METAL FRAMED SKYLIGHTS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes requirements for monumental, metal framed skylights.
- B. Related Sections:
 1. Section 07 62 00 Flashing and Sheet Metal Work.
 2. Section 07 92 00 Joint Sealants.
 3. Section 08 81 00 Glass and Glazing.

1.2 ADMINISTRATIVE REQUIREMENTS

- A. Pre-Installation Conference: Participate in Preinstallation conference required for work of Section 07 54 19.

1.3 SUBMITTALS

- A. Samples: Finished as required for Project; two frame sections 12 inches long, and one glazed corner section 12 by 12 inches incorporating curb anchors and other necessary fasteners, corner section will be returned.
- B. Certificates: Demonstrate compliance with requirements.
- C. Shop Drawings: Plans, sections, and details of joints, anchors, and flashing; analysis of stress points due to live loads, and thermal stress. Annotate modifications of manufacturer's standard systems necessary to comply with requirements; document field measurements and tolerances.
 1. The Contractor shall provide professional engineering services for work of this Section to comply with System Description requirements. Engineer shall stamp and sign drawings and calculations prepared for this Project.
 - a. Engineer Certification: Compliance with CBC Title 24 maximum deflections are within required limits and probable glass breakage will not exceed frequency specified in Section 08 81 00.
 2. Show locations and details for skylight connections to building structure and loads imposed on building structure. Indicate coordination of tolerances for supporting structure and curtain wall supports. Document fastener type to be used. Highlight locations where self –drilling screws are proposed and note why other fastener type cannot be used.
 3. Coordinate Glazing Schedule specified in Section 08 81 00.

1.4 QUALITY ASSURANCE

- A. Manufacturer and Installer: One firm acting as a single source of supply for work of this Section. Firm shall have ten years successful experience as a manufacturer, and installer of skylights similar in scope and type to Work of the Project as demonstrated by the required certification.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

- B. Certificates:
1. Certified test results of standard unit similar to that proposed for used in the Project complying with performance requirements.
 2. Five projects in place for two to five years, include date, location, and names of Foreman, Owner, and Architect.

1.5 PROJECT CONDITIONS

- A. Field Measurements: Frame openings to receive skylights; prior to fabrication. Avoid delay of Project, where measurements cannot be made in required sequence provide erection tolerance corresponding with tolerances for work adjoining skylights. Give written notice to Contractor of unsatisfactory tolerances, and tolerances that exceed requirements.

1.6 WARRANTY

- A. Special Warranty: Notarized, signed by manufacturer, and installer; skylight system, including flashings, and glazing will remain water-tight, free from defects in materials and workmanship, and not deteriorate in excess of normal weathering for a period of ten years from date of final acceptance, and agreeing upon receipt of written notice from the Owner to promptly repair, and replace any portion of the Work which does not perform as required; to the Owner's complete satisfaction, and at no cost to the Owner, nor change in contract amount.

PART 2 - PRODUCTS

2.1 SYSTEM DESCRIPTION

- A. Design Requirements: Design of skylight structure, anchors, inserts, flashings, and accessories; spacing and profile of members as indicated. Minor deviations acceptable to the Architect may be permitted where they allow the use of manufacturer's standard products.
1. Horizontal loads shall not be translated to the curb by the skylight frame.
 2. Weep closed sections and provide controlled drainage of free water to exterior at elevation above apron flashing using a cascading internal gutter system.
 - ~~a. Water Control System: Designed for cold climate installation prevent ice dam blockage of drains and size gutters for elevated amounts of condensation that may be associated with the assembly occupancy of the space.~~
 3. Comply with recommendation of AAMA Glass Design for Sloped Glazing.
 - ~~4. Provide assemblies incorporating thermally broken aluminum components except as necessary to comply with structural requirements.~~
 - ~~5. At Alternates XX4A Provide a complete controls system integrating skylight tinting function with Owner's controllers or wall controllers where owner controllers are not anticipated.~~
- B. Performance Requirements: CBC Title 24 Chapter 16 and Section 2405; AAMA 501.2 Quality Assurance and Diagnostic Field Check of Sloped Glazing Systems, and source quality assurance tests on manufacturer's units to be incorporated into the Work.
1. Air Infiltration: 0.06 cfm/ft of sash joint at inward pressure of 6.24-pound force per square foot (lbf/sf).
 2. Water Penetration: None at inward pressure of 8.00 lbf/sf.
 3. Wind, Snow and Seismic Loading: Comply with criteria in General Structural Notes.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

4. Deflection: Less than 1/175 of span for frame and glazing without failure nor permanent set under the required load conditions.
5. Impact: Comply with CBC Title 24 Part 2 Section 2404.2 and CAL OSHA 1910.23 without the use of metal guards.
6. Thermal Performance: NFRC listed for overall U-Value of 0.43 when evaluated with insulating glazing units having a U-value of 0.29 or better. SHGC less than 0.6 per NFRC 200.

2.2 MANUFACTURERS

- A. Subject to compliance with Project requirements provide Basis of Design half round barrel vault double dome skylight as manufactured by Wasco, Velux Commercial, or comparable skylight as manufactured by one of the following:
1. DEAMOR Skylights
 2. Supersky
 - A-3. Or approved.-

2.3 MATERIALS

- A. Aluminum: Alloy and temper recommended by manufacturer for required performance, strength, durability, and finish.
1. Extrusions: ASTM B 221; tensile strength 22,000 psi., and 0.125 inch thick for primary frame and sash members.
 2. Sheet: ASTM B 209, minimum performance properties of Alloy 5052, and not less than 0.040 inch thick.
- B. Steel Plates, Bars, and Shapes: Manufacturer's standard formed, and fabricated units, comply with material requirements of Section 05 50 00.
1. Galvanizing: ASTM A 123, Grade 85; applied after fabrication to all steel components.
- C. Fasteners: Compatible with metals fastened, type, grade, and class necessary, and as required; cadmium plated steel, or other non-corrosive metal except non-magnetic stainless steel where exposed to moisture.
- D. Sealant: Comply with requirements of Section 07 92 00; not permitted along rafter line.
1. Sealant Within Fabricated Units: Permanently elastic, non-shrinking, non-migrating, and recommended by manufacturer for optimal performance in necessary joint size and movement.

2.4 COMPONENTS

- A. Concealed Flashing: 26 gage dead-soft stainless-steel compatible with contact metals.
- B. Exposed Flashing Gutters: Aluminum sheet, and extrusions finished to match frame.
- C. Glazing: Outside glazed, dry system; reglazing shall not require interior access; comply with requirements of Section 08 81 00.
1. Gaskets: 50-Durometer extruded neoprene mechanically interlocked into the skylight rafter bar and cap extrusions; setting surface and waterproof seal against both surfaces of the glass.

- D. Provide accessory components necessary and required for complete, weathertight installation complying with specified requirements regardless of whether indicated or not, including but not limited to the following.
- ~~E. Electrochromic Glass: Product of Sage Electrochromics as necessary to comply with performance requirements for insulating sloped daylighting glazing.~~
- ~~F. Laminated Light: Provided as required for Electrochromic Insulating Slope Daylighting Glazing consisting of 0.125 inch thick clear fully tempered glass with two 0.015 inch thick Vanceva interlayers 'Smoke Gray' and 'Cool White' and 0.030 inch thick clear polyvinyl butyral interlayer and as otherwise necessary for compliance with performance requirements for IGU.~~
- ~~G. Daylight controls for Sage Electrochromics: Provide wiring, power supplies, switches and control panels.~~
- ~~1. Each skylight shall be provided with its own controller independent from other units.~~
 - ~~2. Power supply shall be UL listed or certified as UL compliant.~~
 - ~~3. Wiring shall be hidden from view and enclosed where required by electrical requirements.~~
 - ~~4. Controller shall be provided by electrochromic glazing manufacturer and fully warranted as part of the skylight warranty.~~
 - ~~5. System shall integrate with Owner's AMX switching system in classrooms. A wall mounted control box for occupant or maintenance staff operation shall be provided for skylights over non-classroom spaces. All skylights control scenarios shall provide for a single button override to the tinted mode and a single button reverse override back to the automatic light level tracking mode.~~
 - ~~6. Using sensors supplied as part of the controls package, the controller shall automatically modulate daylight levels by comparing the amount of daylight coming into the skylight well to light levels at 3'-0" above the floor level.~~
 - ~~7. Commissioning and calibrating target illumination levels to a level acceptable to the Architect at an elevation of 3'-0" above the floor measured in a variety of locations is part of this scope of work.~~
 - ~~8. The system shall automatically accommodate adjustable illumination level targets.~~
 - ~~9. The system shall integrate with occupancy sensors in each space and adjust tinting of the glazing according to the signal received from the occupancy sensors and varying in the degree tinted based on season. Target unoccupied tinting level shall be 100% darkened for dates between May 21st and September 21st, 50% darkened for dates between September 21st and November first, not darkened for dates between November 1st and March 21st, and 50% darkened for dates between March 21st and May 21st. These darkening levels shall be adjustable.~~

2.5 FABRICATION

- A. Skylight Frames: Match existing skylight scheduled for demolition in form, panelization and general character; provide aluminum extrusions of sizes, profiles and configuration indicated, where not indicated, provide manufacturer's standard; shop assemble, and glaze work to the greatest degree possible, disassemble only as necessary for shipment and installation; minimize field cutting, splicing, sealing and finishing.
- B. Maintain continuity of line and accurate relation of planes and angles. Remove arrises from cut edges, radius edges and corners 0.01565 inch.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

- C. Prevent corrosion of skylight assembly and adjoining Work; isolate galvanically active metals, and incompatible materials.
- D. Welds: Comply with AWS recommendations. Use method and material which will prevent discoloration of exposed work, grind exposed welds smooth and flush, and restore finish.
- E. Joints: Securely attached and supported; hairline fit between contacting members of mechanical joints. Ensure free movement between surfaces where thermal, and deflection movement is intended, prevent freeze-up of joint.
- F. Fasteners: Concealed unless otherwise acceptable to Architect; where exposed fasteners are acceptable use countersunk Phillips screws, finished to match item fastened.
- G. Reinforce work at joints, attachments for other work, and points of support as necessary to comply with performance requirements.
 - 1. Aluminum members less than 0.125 inch thick: reinforced for fastener, and anchor attachments.
- H. Finish: Shop applied to exposed components after fabrication of metal work, sequence to minimize differences between members; uniform overall appearance, variation of paint color and texture will not be accepted.
 - 1. High Performance Fluorocarbon Coating: AAMA 2605, 70 percent resin content and complying with requirements of Section 08 44 00 for matching appearance to finish work of that Section.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify curbs and assemblies supporting skylights have been coordinated correctly and are ready for skylight installation. Verify coordination with roof assembly, flashing and other weatherproofing components.

3.2 INSTALLATION

- A. Install work weathertight, level, plumb, and true, uniform in appearance, with tight joints, sealant reveals, and features indicated; permanently anchor to structure with galvanically compatible, noncorrosive components to comply with performance requirements, and permit necessary movements.
 - 1. Prevent damage to skylight during installation. Use erection equipment and sequence that will not damage skylight, nor compromise performance, of installed work including glazing and finishes.
 - 2. Provide protection to prevent damage to roof structure, and other Work during skylight installation.
- B. Do not install irregular, damaged, nor defective material, glazing exhibiting edge damage, and material with damaged finishes; do not damage appearance, nor performance of component parts, and skylight assembly due to field fabrication and installation.
 - 1. Repair of Component Parts: Performed in shop, replace components that cannot be returned to shop and repaired.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

- C. Provide concealed gaskets, sealants, fillers, pads and sleeves for permanently weathertight assembly, unrestrained at joints intended to accommodate thermal and deflection movements.
 - 1. Prevent corrosion between galvanically active components, and incompatible materials.
 - 2. Comply with requirements of Section 07 92 00 for sealants.
 - 3. Coordinate installation with flashing provided as work of Section 07 62 00 to ensure continuity of components as required for control, collection and drainage to exterior of water entering and occurring within skylight assembly.
- D. Keep weeps, gutters, and cavities clean, and free of debris; remove debris as work progresses, use temporary closures to prevent accumulation.
 - 1. Clean skylight including glazing, remove excess glazing and sealing compound, dirt, and other substances.

3.3 TOLERANCES

- A. Maximum Variation from Plumb, Level and Angle: 0.25 inch in 40 feet, and 0.125 inch in 10 feet, except 0.125 inch in 20 for horizontal runs.
- B. Maximum Variation in Location: 0.375 inch any member, any location, and 0.125 inch in any 10-foot run.
- C. Offsets in Edge-to-Edge, and End-to-End Alignments: 0.125 inch, except 0.0625 inch for members designed to be out-of-flush 0.5 inch and less, and members separated by 2 inches or less.
- D. Measurement: Taken from established lines and levels.
- E. Provide field testing on five percent of installed area in locations directed complying with AAMA 502 for evaluation of sloped glazing system compliance with System Description requirements. Depending upon initial test results, Architect reserves the right to require testing of more than five percent of installed area without change in contract amount.
- F. Protect installed skylights from damage and deterioration other than normal weathering throughout contract time, until final acceptance of work.

END OF SECTION

SECTION 08 81 00 – GLASS AND GLAZING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes requirements for shop and field glazing of frames, doors and openings throughout the Project.
1. Install glazing gaskets furnished by other Sections.
- B. Related Sections:
1. Section 08 14 00 Wood Doors.
 2. Section 08 32 13 Glazed Sliding Stacking Doors.
 3. Section 08 34 00 Special Function Doors.
 4. Section 08 41 00 Interior Aluminum Entrances and Storefront.
 5. Section 08 42 29 Automatic Sliding Entrances.
 6. Section 08 63 00 Metal-Framed Skylights.
 7. Section 10 23 10 Glazed Interior Wall Systems.
- C. Definitions:
1. Hazardous Locations: California Building Code Title 24 Part 2 Section 2406.4.1 through 2406.4.7.

1.2 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Conference: Coordinate with requirements of Section 08 41 00 for glazing of aluminum fenestration assemblies, Section 08 63 00 for glazing of skylights and coordination with other components and assemblies of the building cladding,
1. Review and confirm Contractor's Project Schedule and work sequence.
 2. Integration of glazing provided as work of this Section with casework assemblies including but not necessarily limited to those indicated on [A291 and A294](#).
 3. Coordinate fittings, glass preparation and installation requirements with work of steel fabrications for glazing at interior glass wall partitions.

1.3 SUBMITTALS

- A. Product Data: Required for each product to be incorporated into the Work.
- B. Shop Drawings: Provide for each glazing assembly required.
1. Calculations: Provide for Exterior and Interior glazing assemblies to demonstrate compliance with Performance Requirements.
 2. Glazing Assembly Schedule: Coordinated with submittals required in Section 08 41 00 and Related Sections referenced above; indicate glazing assembly to be provided for each frame and location on the building.
- C. Samples: Two samples nominal 12 inches by 12 inches for each glazing assembly required for the Work.
1. Provide individual samples of glass products being incorporated into glazing assembly as directed and as otherwise necessary to demonstrate material compliance with Source Quality Control color and distortion testing requirements.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

[10.28.2025](#)BID SET – [ADDENDUM 06](#)

~~2. Glazing Film First in Place Sample: In location directed provide sample for review and acceptance of installation and appearance prior to start of final work.~~

- D. Certificates: Document that glazing materials furnished comply with Project requirements.

1.4 QUALITY ASSURANCE

- A. Contractor responsibility to provide Work complying with contract requirements shall not be altered by statements made in referenced standards and documents.
1. Flat Glass Marketing Association Glazing Manual.
 2. Safety Glazing Standard: Comply with ANSI Z97.1 and testing requirements of 16 CFR Part 1201 for category II materials.
- B. Fabricator and Installer Qualifications: Ten years successful experience with fabrication and installation of glazing work similar in material, design, and extent to that required for this Project. When directed provide records of representative work including warranty and in-service performance of previous work.
1. Glaziers for this Project: Certified under the National Glass Association, Glazier Certification Program as Level 2 (Senior Glaziers) or Level 3 (Master Glaziers).
 2. Applicator of field applied glazing film, certified by the manufacturer as qualified to perform the installation required.

1.5 DELIVERY STORAGE AND HANDLING

- A. Store and handle products in accordance with written recommendations of manufacturer, and fabricator, and to prevent damage to glass, including edges.

1.6 WARRANTY

- A. Special Warranty for Glazing: Signed by the Fabricator, and agree to furnish replacements for defective glazing at no cost to the Owner for the glazing assembly types and time periods below. Defective glazing includes, but is not limited to, failure due to weakening edge characteristics shown identified in FGMA Glazing Manual, and as determined by the Architect.
1. Laminated Glazing: Five years.
- B. Special Warranty for Installation: Signed by glazier and installer of work of related Section to receive the glazing assembly agreeing upon receipt of written notice of defective work and work not in compliance with Project requirements to provide all labor necessary to install replacement glazing furnished by the fabricator at no cost to the Owner for the warranty term.
1. Warranty Term: Three years.

PART 2 - PRODUCTS

2.1 SYSTEM DESCRIPTION

- A. Design Requirements: Glazing when installed in the required assembly capable of withstanding the stresses imparted in accordance with the Performance Requirements, IBC Chapter 24 Glass and Glazing requirements, and service conditions reasonably anticipated for the Work without deterioration, damage or failure.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025

BID SET – ADDENDUM 06

1. Contractor shall analyze Project loads, glazing assembly sizes and configurations and in-service conditions and provide glass of the thickness and type required for each assembly as necessary to comply with Code requirements and ASTM E 1300 for required criteria. In no case shall glass be less than 0.25 inch thick. Provide heavier glazing, heat treated glass and laminated units as necessary to resist stresses and forces incidental to the required conditions of service.
 2. Glazing in Hazardous Location as defined in this Section shall comply with Performance Requirements for Safety Glazing.
 3. Sealant: Provide clear silicone sealant complying with Section 07 92 00 requirements; provide structural grade sealant where required for joint type or configuration indicated. Exposed edges of glazing shall be polished and finished smooth, edge of laminated glazing not captured by framing shall be fully covered by sealant.
- B. Performance Requirements: For loads conforming to the criteria in the General Structural Notes and as follows.
1. Deflection Limit: Comply with CBC Section 2403.3 for Exterior assemblies and Section 2403.4 for Interior assemblies.
 2. Probability of Breakage for Vertical Glazing: 8 lights per 1000 for lights set not more than 15 degrees off vertical and under wind action with 60 second load duration.
 3. Probability of Breakage for Sloped Glazing: 1 light per 1000 for lights set more than 15 degrees off vertical and under wind load with 60 second duration, except 5 days for snow load.
 4. Safety Glazing: ANSI Z97.1 and testing requirements of 16 CFR Part 1201 for category II materials. Field applied films are not acceptable for compliance with this requirement.
 - ~~5. Sound Transmission Loss of Acoustic Glazing: Glazing assembly having ASTM E90 STC value necessary for the glazed assembly to comply with required performance values when evaluated per ASTM E966.~~

2.2 MATERIALS

- A. Glazing Assemblies: Product of one fabricator for each type required. Fabricate glass to sizes necessary for glazing of openings as required, with edge clearances and tolerances complying with recommendations of glass manufacturer and requirements of this Section.
- B. Primary Glass Products: Product of one manufacturer for each variety; comply with ASTM C 1036.
1. Clear Float Glass: Type I, Class 1, Quality q3.
- C. Heat-Treated Primary Glass Products: ASTM C 1048, by horizontal method with roller wave distortion parallel to bottom edge of glass. Provide fully tempered glass for glazing in hazardous locations except where laminated safety glazing is required. Heat treat glass where necessary to resist thermal stresses induced by differential shading of individual glass lights and for all lights 35 square feet and larger. Fabricate to size and configuration required with penetration and edge work completed prior to heat treating.
1. Tempered Safety Glazing: Comply with Performance requirements.
- D. Coated Glass: Provide for clear float glass and other substrates as necessary for the performance and appearance required; coating on number 2 surface except as required for pyrolytic Low-E coating.
1. Low-E 1: Neutral color, Vitro Solarban 70, or approved.
 2. One-inch, Low-E Insulating Glass Unit to meet the following (minimum) performance standards:

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

- a. Winter Nighttime NFRC / U-Value: 0.28.
 - b. Solar Heat Gain Coefficient (SHGC): 0.27.
 - c. Light to Solar Gain (LSG) ratio of 2.33.
 - d. Visible Light Transmission: 64 %.
 - e. Visible Light Reflectance (Outside): 12%.
 - f. Visible Light Reflectance (Inside): 13%.
 - g. Total Solar Transmittance: 25%.
 - h. Total Solar Reflectance: 52%.
 - i. UV Transmittance: 6%.
3. Ceramic Frit: Opaque or transparent coating applied by roll or silkscreen process as necessary for required appearance; apply to heat treated substrate as recommended for the coating type and glazing assembly required.
- ~~4. Silicone Coated Spandrel Glass: Heat Strengthened or Fully Tempered per the coating manufacturer's recommendation for light size, configuration and assembly type required.~~
- E. Laminated Architectural Flat Glass: Heat and pressure process to fuse glass to interlayer conforming to ASTM C 1172. Provide a minimum interlayer thickness of 0.060 inch; clear polyvinyl butyral (PVB) interlayer or clear ionic cross-linked thermoplastic ionomer as necessary for applications required.
- ~~1. Acoustic Glazing: As necessary for compliance with performance requirements for glazed acoustical assembly. At a minimum provide two lights for each glazing unit; one light having two layers of 0.1875 glass laminated together, and a second light having two layers of 0.125 inch thick glass laminated together and assembled per IGU requirements.~~
- 2.1. Sloped Glazing: Reference Section 08 63 00 Metal Framed Skylights for skylight glazing.
- ~~3. UV Control Glazing: Filter out 99 percent of UV radiation below 380 nanometers (nm). Two panes each 0.25 inch clear float laminated to 0.030 thick clear UV absorbing interlayer (Monsanto Saflex).~~
- ~~4. Privacy Glass: Two sheets 7/32 inch Laminated high purity float glass with vision obscuring interlayer, Northwestern Industries, Inc. Sandwhite 0.030 LAM.~~
- ~~5. Translucent Glazing: Balanced assembly of two sheets of high purity float glass with vision obscuring interlayer, Northwestern Industries, Inc. White Diffuse 030 LAM, nominal 0.25 inch thick overall.~~
- 6.2. Laminated Safety Glazing: Comply with Performance Requirements.
- ~~7. Privacy Glass: Two sheets 0.25 inch thick, high purity float, laminated with 0.060 white diffuse polyvinyl interlayer, Vanceva Arctic Snow, color code 0009. Comply with definition for safety glass in locations required.~~
- 8.3. Specialty Glass, Type CG1: Two panes of 4 mm annealed, ultra-clear low-iron glass with custom graphics interlayer, overall thickness 3/8-inch-thick minimum.
- ~~F. Applied Privacy Glazing Film: Visible Light Transmittance 69 percent, shading Coefficient .82; CP Films, Llumar NRM PS2 Frosted.~~
- G.F. Mirrors: Fabricate to sizes and configurations required to ASTM C1503 standard manufactured using copper-free, low-lead mirror coating process.
1. Annealed Monolithic Glass Mirrors: Mirror Select Quality, low-iron float glass with a minimum 91 percent visible light transmission.
 2. Mirror ~~M-1~~, Frameless type.
 - a. Size: As indicated in Drawings and shown in approved Shop Submittal, with radiused corners.
 - b. Nominal Thickness: 6.4 mm or unless otherwise indicated.
 - c. Edge: Beveled, unless indicated otherwise in Drawings

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT08.15.2025
10.28.2025BID SET – ADDENDUM 06

3. Mounting Hardware: J-Shaped Mirror Bar mounting channel: provide in single piece, continuous along bottom [bottom and top] of flat, polished-edge frameless mirror in [stainless steel] [polished chrome] [satin nickel] finish.

2.3 ACCESSORIES

- A. Gaskets: Provide as necessary for glazed opening; black unless otherwise indicated
 1. Dense Compression Seal: ASTM C 864, neoprene, EPDM, or thermoplastic polyolefin rubber.
 2. Cellular Elastomeric Preformed: ASTM C 509, Type II, extruded or molded neoprene.
- B. Glazing Tape: ASTM C 1281; preformed, closed cell, tape sealant recommended by manufacturers of tape and glass for each Project specific installation required.
 1. Fire Rated Glazing: Provide as necessary for compliance with Performance Requirements and UL assembly listing.
- C. Cleaners, Primers and Sealers: Type recommended by manufacturer of gaskets, and tape.
- D. Blocks and Spacers: Neoprene, EPDM or silicone as necessary for compatibility with glazing sealants.
 1. Hardness: 90 Shore A for setting blocks, and as recommended by glass and sealant manufacturers.
- E. Filler Rods: Closed-cell synthetic rubber, or plastic foam, 25 percent compression at five to ten psi.
- F. Sealants: Comply with Section 07 92 00 requirements for joint types required.
 1. Fire Rated Glazing: Provide type recommended by manufacturer and as necessary for compliance with UL assembly listing.

2.4 SOURCE QUALITY CONTROL

- A. Glass Color Testing: Measure monolithic coated glass and coated insulating glass units.
 1. Color Target: Established per approved samples conforming to specified tolerance.
 2. Color Measurement: Calibrated, off-line spectrophotometer (Minolta 2500d / 2600d or equal); measure uncoated side of glass in the central area. Measure the first 15 panes/ units to establish the color target, then measure a minimum of 1 pane / unit every four (4) hours and each product change.
 3. Tolerances for color variation shall be less than 4.5 DE.
 4. Document and record result of each color measurement performed. Tag each pane / unit of glass that falls outside of the maximum color variation limits and certify that non-conforming glass will not be fabricated and or supplied to the Project.
 5. Perform on-line continuous color measurements.
 6. Perform quality control checks using off-line measurement instrumentation every 4 hours or product change.
- B. Distortion Testing: Measure each pane of monolithic uncoated and coated heat-treated glass used in the Project.
 1. Measurement Device: LiteSentry measurement system, or equal.
 2. Horizontal Roll Wave: Millidopeter Criteria: (90% surface) Maximum + or – 120 A overall, or the highest overall measurement from the approved visual mock-up that is less than + or – 120 A overall, whichever is less.

3. Bow/Warp Tolerance: Tolerance as described herein.
4. Measure every hour on a vertical plane with an aluminum or other type of straight edge.
5. Documentation: Document and record results for each pane
 - a. Tag each pane of glass that falls outside of the maximum distortion limits and certify that these non-conforming glass panes will not be fabricated and supplied to the Project.
 - b. Provide written documentation of the Roll Wave and Millidopeter measurements of the glass used in visual mock-ups before the mock-ups are reviewed by the Owner and Architect for approval.
 - c. Provide additional written documentation upon request by the Owner or Architect.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Inspect glass prior to and during installation; discard pieces with edge characteristics that could affect glass performance.
- B. Examine frames to receive glazing for compliance with recommended tolerances, face and edge clearances, and general proper installation. Notify Contractor in writing of unacceptable conditions, and do not proceed with glazing where conditions have not been corrected.

3.2 INSTALLATION

- A. Comply with FGMA Glazing Manual, and instructions of manufacturers of glass, and gaskets, to achieve air, and watertight performance.
 1. Provide safety glazing in individual lights, laminated and insulated glazing units per System Description requirements.
- B. Prevent damage to glass edges during installation. Use rolling blocks, suction cups, wedges and other devices for proper handling of glass.
- C. Set units of glass in each series with uniformity of pattern, draw, bow and similar characteristics.
- D. Setting Blocks: Properly sized for glazing unit; locate at quarter points of unit width.
- E. Cleaning: As recommended by glass fabricator and manufacturer. Wash both faces within four days of scheduled inspection intended to establish date of substantial completion.
- F. Protect glass from contact with deleterious contaminants; immediately remove contaminants using method approved by glass manufacturer, and fabricator.

~~G. Glazing Film: Apply with continuous, permanent bond to glazing substrate; film shall be free of visual and surface imperfections and have a uniform appearance throughout the entire installation.~~

H.G. Installation Conditions: Some conditions of installation may represent a departure from conventional applications of certain glazing materials. Review each application and provide glass products and assemblies which are suited to the required use. Such applications may

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025

BID SET – ADDENDUM 06

include heat treatment of glazing to enhance strength, supplemental back-coating of spandrel glazing to ensure uniform opacity (eliminate pin holes and variations in coating density) and similar fabrication measures.

3.3 SCHEDULE OF GLAZING ASSEMBLY TYPES

A. Locations, Dimensions, and Quantities: As indicated for each type incorporating glass products specified.

1. Type GL 1: One-inch Insulating Glass Unit:
 - a. Exterior lite: 0.25-inch Vitro Clear glass with Vitro Solarban 70 on S#2, tempered where required.
 - b. Air gap: 0.50-inch.
 - c. Interior Lite: 0.25-inch Vitro Clear glass.
2. Type GL 2: As GL 1 above, with ceramic frit on number three surface, tempered where required.
 - a. Frit Pattern: As indicated on Drawings, Sheet A611-b.1 Color 1: TBD.
 - b. Provide blank margins where recommended for location of the coated surface in the glazing assembly Type.
- ~~3.~~ 3. GL 3: Single glazed laminated in thickness required, not less than 0.5-inch.
- ~~3.4.~~ 3.4. Type GL 4: Not Used.
- ~~4.~~ 4. Type GL 5: Single glazed laminated in thickness required, not less than 0.25-inch.
- ~~5.~~ 5. Opacifier or Glass pattern as indicated on Drawings.
- ~~6.5.~~ 6.5. Type E: Sloped Glazing – Reference 08 63 00 Metal Framed Skylights-
 - a. ~~Outboard Light: Tempered coated tinted float.~~
 - b. ~~Inboard Light: Laminated sloped glazing.~~
- ~~6.~~ 6. Type M - Mirror (M1): Frameless. Reference 2.2.G. above.
- ~~7.~~ 7. Type CG1: Custom Glass Panel as manufactured by 3form with image file provided.
 - ~~7-a.~~ 7-a. Provide custom digitally printed laminated glass panel is sizes and orientation shown and Scheduled in Drawings: 4 mm low iron annealed lite + interlayer + 4 mm low iron annealed lite.

END OF SECTION

SECTION 09 01 21 - REPAIR AND RESTORATION OF 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 SECTION INCLUDES

- A. Removal of loose or damaged plaster and where required for structural and other work.
- B. Repair/replacement of damaged metal lath to receive new plaster.
- C. Installation of new metal lath, plaster scratch, brown and finish coats required for gypsum plaster work.

1.3 RELATED REQUIREMENTS

- A. Section 09 22 16 - Metal Framing: Supports for plaster ceiling.
- B. Section 09 90 00 - Painting

1.4 DEFINITIONS

- A. Refer to ASTM C11 for definitions of terms for gypsum veneer plaster assemblies not defined in this Section or in other referenced standards.

1.5 REFERENCE STANDARDS

- A. ASTM A123 - Standard Specification for Zinc (Hot Dip Galvanized) Coating on Iron and Steel Products.
- B. ASTM C206 - Standard Specification for Finishing Lime.
- C. "Lathing and Plastering Reference Specifications" as published by the California Lathing and Plastering Contractors Associations Inc. (CLPCA), latest edition.
- D. Manufacturer's published recommendations and specifications.

1.6 ADMINISTRATIVE REQUIREMENTS

- A. Coordination: Contractor shall coordinate Work of this Section with other trades involved in restoration work including, but not limited to, painting and coating.

- B. Pre-construction Conference: Owner, Architect, Contractor, and Project Manager or Foreman responsible for Work of this Section shall attend one pre-construction conference.

1.7 SUBMITTALS

- A. Product Data: Submit all Manufacturer's technical data for all products to be used in this project. Submittal shall include instructions for use, storage and handling, and application.
- B. Program of Work: Submit work plan for all removal, salvage, and repair activities for all surfaces, include detailed descriptions of repair materials, procedures, and schedule for each phase of work.
1. If materials and methods other than those indicated are proposed for any phase of work, add to the Program of Work a written description of such materials and methods, including evidence of successful use on comparable projects, and demonstrations to show their effectiveness for this Project and worker's ability to use such materials and methods properly.
- C. Quality Control Program: Submit a written quality control program for this Section including method of protection of surrounding materials on the building and site during operations, as well as proposed methods and procedures for protection of personnel, the public, landscape, and adjacent buildings.
- D. As-Built Documents: Provide documentation of all restored plaster finishes indicating, location, products, and application techniques.

1.8 QUALITY ASSURANCE

- A. Contractor Qualifications: Work of this Section shall be performed by a firm with not less than 5 years successful experience in comparable repair and restoration of plaster projects. Firm shall have expertise in all the Work of this Section. Firm shall employ personnel and supervisors skilled in the rehabilitation and restoration processes and operations indicated. Provide with bid the following:
1. List of 5 to 7 projects completed in last 5 years by Contractor that illustrate the firm's expertise in all of the Work of this Section.
- B. Qualifications of Project Manager or Foreman Supervising Work, and Skilled Workmen: Project Manager and Job Foreman shall have a minimum of 5 years successful experience with Work of this Section. Skilled workmen each shall have a minimum of 5 years successful experience with Work of this Section. Provide with bid the following:
1. List of 5 to 7 projects completed by Project Manager or Foreman that illustrate their expertise in all of the Work of this Section and a list of 5 projects completed by each of the skilled workmen.
- C. Contractor, project manager or foreman supervising work, and skilled workmen selected and approved for Work of this Section shall complete all Work of this Section, unless otherwise approved by Architect.
1. Any requests for changes in management and skilled personnel shall be submitted to Architect in writing with the required documentation outlined above.
 2. Architect shall review management and skilled personnel changes with reasonable promptness. Personnel changes shall not be made until Architect has approved the change.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025
10.28.2025

BID SET – ADDENDUM 06

- D. All removal of existing plaster is to be performed by same firm that performs the plaster repair and installation of new plaster.
 - E. Contractor shall maintain steady work crew consisting of skilled mechanics who are experienced with materials and methods specified and are familiar with design requirements. Contractor shall confirm that all workers understand job's requirements. Mechanics shall have skill and experience of sufficient level to accomplish Work described. In acceptance or rejection of work, no allowance will be made for lack of skill on part of workers.
 - F. Subcontractors: All subcontractors are bound by same requirement as contractor.
 - G. Obtain materials from single source for each type of material required to ensure match in quality, color, texture, and pattern. Materials shall be used only at manufacturer's recommended temperature tolerances.
 - H. Architect shall be given regular access to Contractor's work site so that they may inspect work being performed.
 - I. Contractor shall replace at no additional cost to Owner all materials broken, lost, or damaged during Work of this Section.
 - J. Comply with EPA regulations, including but not limited to regulations regarding Toxic and Volatile Organic Compounds (VOC). If required, obtain permits for discharge of contaminated water into local sewers. If required by local authorities, provide alternate methods of disposal of wastes.
- 1.9 MOCK-UPS
- A. Notify Architect at least 48 hours in advance of mock-up panels preparation.
 - B. Provide protection for adjacent surfaces during the mock-up phase.
 - C. If the mock-up is not approved, a new mock-up will be produced until it is approved by the Architect or Architect's Representative.
 - D. The mock-ups are as follows:
 - 1. Area equal to two square feet of each type of plaster application and each type of substrate, by full thickness in presence of Architect using materials, including lath, support system, and control joints, indicated for final work.
 - E. Locate mock-ups where directed by Architect.
 - F. Evaluation of Mock-ups:
 - 1. Mock-ups shall be evaluated by the Architect no less than seven (7) days after they have been performed in order to let the mock-up fully dry and to assess any latent reactions that may have occurred.
 - G. Retain acceptable mock-ups in undisturbed condition, suitably marked, during restoration as a standard for judging completed work.

1.10 FIELD CONDITIONS

- A. General: Comply with requirements of referenced plaster application standards and recommendations of plaster manufacturer for environmental conditions before, during, and after plaster application.
- B. Environmental Requirements:
1. Contractor is responsible for complying with the manufacturer's requirements and requirements of this section, so as not to delay the project. In case of conflict, the most stringent requirements shall govern.
 2. Provide sufficient heat and ventilation where work of this section is being performed to allow plaster to properly cure.
 3. Take precautionary measures necessary to ensure that excessive temperatures changes do not occur.
 4. Cold-Weather Requirements: Provide heat and protection, temporary or permanent, as required to protect each coat of plaster from freezing for at least 24 hours after application. Distribute heat uniformly to prevent concentration of heat on plaster near heat sources; provide deflection or protective screens.
 5. Warm-Weather Requirements: Protect plaster against uneven and excessive evaporation and from strong flows of dry air, both natural and artificial. Apply and cure plaster as required by climatic and job conditions to prevent dry out during cure period. Provide suitable coverings, moist curing, barriers to deflect sunlight and wind, or combinations of these, as required.
 6. Room Temperatures: Maintain not less than 55 degrees F or more than 80 degrees F for 7 days before application of gypsum base and gypsum veneer plaster, continuously during application, and after application until veneer plaster is dry.
 7. Provide temporary facilities and protection as necessary to establish and maintain these conditions, so as not to delay the project.
- C. Protect contiguous work from soiling and moisture deterioration caused by plastering. Provide temporary covering and other provisions necessary to minimize harmful spattering of plaster on other work.
- D. Deliver materials to work site in manufacturer's sealed and unbroken containers, bearing labels as to type of product and manufacturer.
- E. Protect building elements and finishes from damage or deterioration caused by work of this Section. Repair damage to materials or finishes to Owner's satisfaction at no additional cost to Owner.
- F. Protect materials from tampering, acts of vandalism, possible injury to workers, the general public, intrusion of foreign materials, and moisture. All vessels shall have tight fitting covers. At no time shall vessels containing chemicals be carried to working levels when vessels are open.
- G. It is critical that new and repaired plaster areas are completely cured and dry prior to start of painting and other finish activities. Allow ample time in schedule to coordinate these critical activities.
1. Allow all new plasterwork and all plaster patches, fills, and crack repairs to cure for a minimum of 30 days before painting. Allow longer cure as recommended by paint manufacturer for optimum performance of paint.
 2. Test with moisture meter to confirm standard suitable for paint has been met.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT08.15.2025
10.28.2025

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. Expanded-Metal Lath:
 - a. Clark Dietrich Building Systems. <http://www.clarkdietrich.com/>.
 - b. National Gypsum Co. (NGC). <http://www.nationalgypsum.com/>.
 - c. United States Gypsum Co. (USG).
<http://www.usg.com/content/usgcom/en.html>.
 2. Metal Accessories:
 - a. Fry Reglet Architectural Metals. <http://fryreglet.com/>.
 - b. Metalex. <http://www.metlx.com/>.
 - c. National Gypsum Co. (NGC). <http://www.nationalgypsum.com/>.
 - d. United States Gypsum Co. (USG).
<http://www.usg.com/content/usgcom/en.html>.
 3. Plaster Materials: Reference Section 09 24 00 Portland Cement Plaster.

2.2 LATHING MATERIALS

- A. Expanded-Metal Lath: Comply with ASTM C847 for material, type, configuration, and other characteristics indicated below:
1. Material: Fabricate expanded-metal lath from sheet metal conforming to the following:
 - a. Galvanized Steel: Structural-quality, zinc-coated (galvanized) steel sheet complying with ASTM A653, G6. minimum coating designation, unless otherwise indicated.
 2. Diamond-Mesh Lath: Comply with the following requirements:
 - a. Configuration: Flat.
 - b. Weight: 3.4 lb/sq. yd.
- B. Metal Plastering Accessories and Reinforcement:
1. General: Comply with material provisions of ASTM C1063 and the requirements indicated below; coordinate depth of accessories with thicknesses and number of plaster coats required.
 - a. Aluminum Components: Alloy, temper, and finish recommended by manufacturer with not less than the strength and durability properties of aluminum extrusions complying with ASTM B221 for alloy and temper 6063-T5.
 - b. Galvanized Steel Components: Fabricated from zinc-coated (galvanized) steel sheet complying with ASTM A653, G40 minimum coating designation.
 - c. Zinc-Alloy Components: ASTM B69, 99 percent pure zinc.
 2. Furring Channels: 3/4 by 3/8-inch cold rolled copper bearing steel furring channels to match existing in size and weight.
 3. Metal Corner Reinforcement: Expanded, large-mesh, diamond-metal lath fabricated from zinc-alloy or welded-wire mesh fabricated from 0.0475-inch-diameter, zinc-coated (galvanized) wire and specially formed to reinforce external corners of portland cement plaster on exterior exposures while allowing full plaster encasement.
 4. Cornerbeads: Small nose cornerbeads fabricated from the following metal, with expanded flanges of large-mesh diamond-metal lath allowing full plaster encasement.
 - a. Zinc Alloy: Minimum 0.0207 inch thick.
 - b. Galvanized Steel: Minimum 0.0172 inch thick.
 - c. Material: Any material above.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025
10.28.2025

5. Lath Attachment Devices: Material and type required by ASTM C1063 for installations indicated.

2.3 GYPSUM PLASTER MATERIALS

- A. Provide Scratch, Brown and Finish Coats as per requirements of Section 09 24 00 Portland Cement Plaster.
- B. Water for Mixing and Finishing Plaster: Clean, potable and free from deleterious amount of acid, alkali and organic materials.
- C. Sand: Comply with ASTM C35 - Standard Specification for Inorganic Aggregates for Use in Gypsum Plaster. Clean, washed silica sand.
 1. Moisture Content: 1/2 gallon/ cu. ft max
 2. Size: 100% passing through a no. 4 sieve; less than 5% passing through a no. 100 sieve.
- D. Bonding Agent: For bonding new plaster to existing plaster, provide "Plasterweld" as manufactured by Larsen Products, or approved equal.

2.4 TRIM ACCESSORIES

- A. Standard Trim: Comply with ASTM C1047. Provided or approved by manufacturer for use in gypsum veneer plaster applications indicated.
 1. Material: Galvanized or aluminum-coated steel sheet or rolled zinc.
 2. Shapes:
 - a. Cornerbead: Use at outside corners, unless otherwise indicated.

2.5 AUXILIARY MATERIALS

- A. General: Provide auxiliary materials that comply with referenced installation standards and manufacturer's written recommendations.
- B. Steel Drill Screws: ASTM C1002, unless otherwise indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that conditions are satisfactory for repair and restoration of plaster. Verify that surfaces to be plastered are free of dust, loose particles, oil, and other foreign matter which would affect bond of plaster coats. If unsatisfactory conditions exist, do not commence work until such conditions have been corrected.

3.2 PREPARATION

- A. Removal of Deteriorated Plaster:

2023005	ALTADENA MAIN LIBRARY	08.15.2025
	ALTADENA LIBRARY DISTRICT	10.28.2025

1. Remove plaster down to solid substrate, as noted on drawings at spalled and delaminated locations, and surrounding cracks if loose or deteriorated plaster is present.
 2. Remove plaster and lath at locations indicated on drawings for installation of structural and other work.
 3. If removal results in weakening, detachment of plaster from lath, or delamination of plaster layers, remove plaster back to sound material.
- B. Plaster Ceiling Framing
1. Install ceiling channels as indicated on drawings and as specified in Section 09 22 16. Overlap new and existing channels where indicated.
- 3.3 GYPSUM PLASTER APPLICATION ON EXPANDED-METAL LATH
- A. Metal Lath Installation:
1. Standards: Comply with ML/SFA 920, "Guide Specifications for Metal Lathing and Furring," and with requirements of ASTM C1063.
 2. General: Inspect exposed metal lath. Remove lath which is twisted, torn, deformed or otherwise damaged.
 3. Replace removed or missing lath. Overlap all edges minimum of 2 inches unless a greater overlap is shown on drawings. Secure by wire tying minimum of 6 inches on center, and as necessary so that metal lath is rigidly secured to channel furring and ready to receive plaster.
- B. Installation of Plastering Accessories:
1. General: Comply with referenced lathing and furring installation standards for provision and location of plaster accessories of type indicated. Miter or cope accessories at corners; install with tight joints and in alignment. Attach accessories securely to plaster bases to hold accessories in place and in alignment during plastering. Install accessories of type indicated at following locations:
 - a. External Corners: Install corner reinforcement at external corners.
 - b. External Corners: Bend lath around external angles without using cornerbeads or reinforcement.
 - c. Terminations of Plaster: Install casing beads, unless otherwise indicated.
- C. Preparations for Plastering:
1. Prepare surfaces to receive plaster repairs by cleaning and removing poorly bonded and peeling paint or other materials or substances that might impair work.
 2. Prepare existing plaster surfaces to receive repair plaster. Remove loose or broken plaster and cut edges or removed area to form straight lines. Undercut edges of cut at a slight dovetail to provide key for new plaster.
 3. Check metal lath. If lath is torn or distorted, remove plaster to a minimum width of approximately 6 inches and down to the lath. Remove distorted portion of lath. Splice-in replacement strip of lath using wire to replace removed lath or to bridge torn lath. Secure with steel wire minimum of 6 inches on center.
 4. Install temporary grounds and screeds to ensure accurate rodding of plaster to true surfaces; coordinate with scratch-coat work.
 5. Solid plaster surfaces to receive new plaster shall have the suction (ability to absorb water) and surface roughness to provide the bond required for proper adhesion of new plaster to existing plaster substrate. Scrape and roughen surface as necessary for good mechanical bond. If proper suction is not present, or roughening of surface damages plaster, remove plaster down to metal lath, and apply 3 coat system.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025
10.28.2025

- D. Mixing:
1. Mechanically mix cementitious and aggregate materials for plasters to comply with applicable referenced application standard and with recommendations of plaster manufacturer.
 2. Accurately proportion materials for each plaster batch with measuring devices of known volume.
 3. Size batches for complete use within maximum of one hour after mixing.
 4. Retemper plaster stiffened from evaporation, but do not use or retemper partially hydrated cement plaster.
 5. Mix factory-prepared plaster in accordance with the manufacture's written instructions.
 6. Use moist, loose sand in mix proportions.
 7. Withhold 10 percent of mixing water until mixing is almost complete, then add as needed to produce necessary consistency.
- E. Plaster Application:
1. Apply three-coat cement plaster to exposed lath.
 2. For patching of areas in which scratch or brown coat(s) are in good condition and are properly prepared, apply plaster to match number, type and thickness of existing plaster layers.
 3. Scratch Coat: Scratch coat shall be full and approximately 3/8 inch thick applied with sufficient force to form good keys. Scratch coat shall be evenly cross-scratched.
 4. Brown Coat: Brown coat shall be applied after the scratch coat has set, but not less than 48 hours, after the application of the scratch coat.
 - a. After drying, all shrinkage cracks shall be cut out and filled with scratch coat plaster.
 5. Finish Coat: Finish shall be applied over brown coat, which has set and is surface dry, shall be scratched in thoroughly, laid on well, doubled back, and filled out to a true, even surface. The thickness shall be from 1/16 to 1/8 inch. The finish shall be allowed to draw a few minutes and then shall be well troweled with water to a smooth surface, free from blemishes and trowel marks. Finish plaster true and even with existing plaster.
 6. Thickness: Apply plaster in thickness required to match adjacent existing plaster unless otherwise indicated.
- F. Cutting and Patching:
1. Cut, patch, replace, repair, and point up plaster as necessary to accommodate other work. Repair cracks and indented surfaces. Point-up finish plaster surfaces around items that are built into or penetrate plaster surfaces. Repair or replace work to eliminate blisters, buckles, check cracking, dry outs, efflorescence, excessive pinholes, and similar defects. Repair or replace work as necessary to comply with required visual effects.
- G. Crack Repair (exceeding 1/32", where sounding determines loss of bond has occurred):
1. Sound wall surface around crack to determine if loss of bond has occurred.
 2. Check metal lath at cracks. If lath is torn or distorted, remove plaster on each side of crack to a minimum width of approximately 6 inches and down to the lath. Remove distorted portion of lath. Splice-in replacement strip of lath using wire to replace removed lath or to bridge torn lath. Secure with steel wire minimum of 6 inches on center.
 3. Clean out all loose plaster and plaster dust by vacuuming or brushing. Thoroughly wet area to be repaired.
 4. Apply patching plaster, forcing it into cleaned-out area. Finish to match adjacent existing texture and contours.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025
10.28.2025

- H. Crack Repair (exceeding 1/32")
 - 1. Inject with consolidation materials into crack.
 - 2. Finish with skim coat.
- I. Hairline Crack Repair (less than 1/32"):
 - 1. Repair hairline crack with skim coat.
- J. Spall Repair:
 - 1. Small chips and gouges:
 - a. Repair with finish coat plaster.
 - b. Recreate profile, if extant.
 - c. Sand Smooth.
 - 2. Chips and gouges greater than 1/8" deep:
 - a. Remove all loose material as required back to sound material.
 - b. Infill with finish coat plaster flush with adjacent surfaces.
 - c. Recreate profile, if extant.
 - d. Sand smooth.

3.4 COMPLETION

- A. Patching:
 - 1. Upon completion of application, point up plaster around trim and other locations where plaster meets dissimilar materials.
 - 2. Cut out and patch defective or damaged plaster.
 - 3. Match patching of defective or damaged plaster in existing work and to new work in form, texture, and color.

3.5 CLEAN-UP AND PROTECTION

- A. Upon completion, remove all tools, equipment and unnecessary materials from site. Remove and dispose masking materials following completion of Work. Return adjacent areas to clean conditions that existed prior to the start of Work.
- B. Repair surfaces stained, marred or otherwise damaged during plastering work.
- C. Dispose hazardous waste materials according to manufacturer's instructions by legal means.
- D. Sweep or flush away all residues washed from building surfaces from sidewalks and site areas nightly. Leave premises clean and neat at all times.
- E. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and Installer, that ensure plaster work is without damage or deterioration at the time of Substantial Completion.

END OF SECTION

SECTION 09 30 00 – TILING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes requirements for tile, tile backers, setting materials, grout and accessories. Tile includes porcelain and ceramic surfacing units made from clay and other ceramic materials.

1.2 REFERENCES

- A. California Code of Regulations, Title 24, Part 11 California Green Building Standards Code, "CALGreen."
- B. CALIFORNIA CODE OF REGULATIONS, TITLE 24, Part 2, California Building Code (CBC), International Building Code with California Amendments.
- C. Tile Council of North America (TCNA)
 - 1. Handbook for Ceramic, Glass and Stone Tile installation, current edition.
- D. American National Standards Institute, Inc. (ANSI):
 - 1. American National Standard Specifications for the Installation of Ceramic Tile.

1.3 DEFINITIONS

- A. General: Definitions in the ANSI A108 Series of tile installation standards and in ANSI A137.1 apply to Work in this Section unless specified otherwise.
- B. Module Size: Actual tile size plus joint width indicated.
- C. Face Size: Actual Tile size, excluding spacer lugs.
- D. Large Format Tile; Tile with any edge greater than 15 inches.
- E. Wet Area: Includes tile surfaces that are either soaked, saturated, or routinely subjected to moisture, including but not limited to tub and shower enclosures, swimming pools and soaking tubs, commercial kitchens and exterior areas.

1.4 ADMINISTRATIVE REQUIREMENTS

- A. Pre-Installation Conference:
 - 1. Coordinate tile work with drain bodies and construction of bonding substrates including but not limited to compliance with tolerances per requirements for Project Meetings.
 - 2. Review requirements in ANSI A108.01 for substrates and for preparation by other trades including but not limited to General Contractor, Architect, Setting Material Representative, and Tile Installer.

- B. Schedule and Sequence work of this Section to minimize duration of waterproofing and crack isolation membrane exposure to construction traffic and potential sources of damage.

1.5 SUBMITTALS

- A. Product Data: Waterproofing, setting materials, and grout; provide for other products as requested.
- B. CALGreen Submittals: Product Data VOC Limits for adhesives, sealants, fillers, primers, and coatings. Comply with limits specified in Section 01 81 13.17.
- C. Shop Drawings: Tile patterns, locations and widths of control, contraction and expansion joints in tile surfaces, perimeter conditions and floor-to-wall transitions.
 - 1. Demonstrate coordination of tile pattern with fixtures, access doors and similar components interrupting or penetrating ceramic tile.
 - 2. Provide installers propose details for movement joints and perimeter relief.
- D. Samples: Provide the following quantities for each tile type and color required.
 - 1. Porcelain and Ceramic Floor and Wall Tiles: Four pieces.
 - 2. Accessory Tile: Two full size units of each accessory required, and 6-inch length of transition and edge strips.
 - 3. Grout: Each color required, paired with sample tile of the type and color the grout is specified for.
- E. Certificates: ANSI A137.1 Master Grade Certificate signed by manufacturer.

1.6 QUALITY ASSURANCE

- A. Advance Installation Field Sample: Prior to installation of other work; acceptable sample may be incorporated into the Work.
 - 1. Nominal 100 square feet of pattern shown and laid-out to include three tile types and coordinated with overall installation. Demonstrate each type of soft joint proposed for the work.

1.7 PROJECT CONDITIONS

- A. Environmental Requirements: Ambient temperature not less than 50 degrees F in tiled areas during installation and for 7 days after completion, unless higher temperatures are required by referenced installation standard or manufacturer's instructions.

1.8 MAINTENANCE

- A. Extra Materials: 2 percent of installed quantity, but not less than one box. From same manufactured lot as materials installed, labeled, and in protective packaging; deliver to Owner as directed.

1.9 SPECIAL WARRANTY

- A. Project Warranty: Signed by authorized representative of the Manufacturer, Installer and Contractor, agreeing to replace defective Work, and Work not in compliance with the Contract Documents at no cost to the Owner. Defective Work includes, but is not limited to, bond

2023005	ALTADENA MAIN LIBRARY	08.15.2025
	ALTADENA LIBRARY DISTRICT	<u>10.28.2025</u>

failure of any tiling components, and waterproof anti-fracture membrane failure. The warranty period shall be not less than 3 years following Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

1. VOC Limits for adhesives, sealants, fillers, primers, and coatings. Comply with limits specified in Section 01 81 13.17.
2. Slip Resistance of Walking Surface: Coefficient of Friction, Anti-Slip Surface per ANSI A 137.1, ANSI B101.1; Static and ANSI B101.3 Dynamic Coefficient of Friction not less than 0.42 and 0.35 respectively.
3. Slip Resistance of Floor Tile: Compliance with minimum recommendations for specific service environment and flooring type when evaluated per
 - a. HB 198/AS 4663-2013 test pendulum slip test method.

~~DIN 18032 Part II 2001 limits.~~

2.2 MANUFACTURERS

- A. Setting Materials: To the greatest extent possible and as necessary for compliance with the specified Special Warranty setting materials shall be products of a single manufacturer. Products not produced by the principal manufacturer of the setting materials shall be approved by them and included in the warranty required without limitation and at no additional cost to the Owner.

2.3 TILE TYPES

- A. Ceramic Tile Types: ANSI A137.1 and as follows for the basis of design products.
 1. Porcelain: Floor Tile:
 - a. TF1: Daltile. Haute Monde.
 - 1) Size: 12"x24"
 - 2) Color: Glitterati Granite.
 - 3) Grout: As Scheduled in Drawings.
 - b. Ceramic Tile Base ~~CTB~~: As required for CT-1, special base unit.
 2. Glazed Ceramic Wall Tile:
 - a. TW1: Fireclay ~~Tile.-Ceramic, Bone Black Satin.~~
 - 1) Size: 2 x 8 inches.
 - 2) Color and Finish: As Scheduled in Drawings.
 - 3) Grout: As Scheduled in Drawings.
 - 4) Trim: Provide styles and shapes as indicated.
 - b. TW2: Fireclay. Brick.
 - 1) Finish: Gloss with Engobe.
 - 2) Size: 2.5 x 8 inches.
 - 3) Color and Finish: As Scheduled in Drawings.
 - 4) Grout: As Scheduled in Drawings.
 - 5) Trim: Provide styles and shapes as indicated.
 - c. TW3: Daltile Color Wheel Linear.
 - 1) Finish: Gloss.
 - 2) Size: 2 x 8 inches.
 - 3) Color and Finish: As Scheduled in Drawings.
 - 4) Grout: As Scheduled in Drawings.
 - 5) Trim: Provide styles and shapes as indicated.

- d. TW4: Daltile Color Wheel Linear.
 - 1) Size: 2 x 8 inches.
 - 2) Color and Finish: As Scheduled in Drawings.
 - 3) Grout: As Scheduled in Drawings.
 - 4) Trim: Schluter Jolly, Color TBD.
 - e. TW5 Cove Base: Daltile.
 - 1) Size: 6 x 12 inches.
 - 2) Color and Finish: As Scheduled in Drawings.
 - 3) Grout: As Scheduled in Drawings.
 - f. TW6 Cove Base: Daltile Flat Top Cove Base.
 - 1) Size: 4 x 12 inches.
 - 2) Color and Finish: As Scheduled in Drawings.
 - 3) Grout: As Scheduled in Drawings.
 - g. TW7 Cove Base: Daltile Bullnosed Cove Base.
 - 1) Size: 4 x 12 inches.
 - 2) Color and Finish: As Scheduled in Drawings.
 - 3) Grout: As Scheduled in Drawings.
 - h. TW8 Wall Tile Trim: Cove Base: Jolly Trim.
 - 1) Size: 1/2 x 12 inches.
 - 2) Color and Finish: As Scheduled in Drawings.
 - 3) Grout: As Scheduled in Drawings.
- B. Protective Coating: Temporary film compatible with tile and grout, removable without damaging tile nor grout, to protect exposed surfaces of unglazed quarry tile from mortar and grout stains; do not coat bedding surfaces.

2.4 THRESHOLDS

- A. General: Fabricate to sizes and profiles indicated or required to provide transition between adjacent floor finishes.
1. Bevel edges at 1:2 slope, with lower edge of bevel aligned with or up to 1/16-inch above adjacent floor surface bevel top at threshold top surface; limit threshold height to 1/2-inch above adjacent floor surface.

2.5 SETTING MATERIALS

- A. Tile Installation Materials: Grout, mortar, adhesives, and other accessories; Comply with ANSI 136.1, and ANSI Series 108 and 118 reference standards for products and installations required.
1. Provide installation products to comply with specified performance and appearance and qualified to receive the required Project warranty.
- B. Waterproof and Anti-fracture Membrane: ANSI A 118.10 and 118.12 compliant and approved for use as a shower pan and classified by the manufacturer for heavy-duty commercial applications; qualified for the specified system warranty. Fabric reinforced, fluid-applied membrane, Custom Building Products 9240.
- C. Portland Cement Mortar: Provide products for on-grade and elevated slabs for specific installations required. Ensure mortar is compatible with waterproofing membrane; provide product compatible with the grout specified with.
1. Dry-Set Ceramic Tile: ANSI A118.1 Dry-Set Portland Cement mortar.
 2. Epoxy Mortar: ANSI A118.3, compatible with waterproofing membrane.

3. Mortar Bed: Comply with ANSI 108.1B and suitable to establish required slope for tile installation over structural concrete slab in thickness necessary for required slab depressions and drain locations.
- D. Latex-Portland Cement Mortar (Thinset): ANSI A118.4.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Ardex Americas.
 - b. Bostik, Inc.
 - c. Custom Building Products.
 - d. Laticrete.
 - e. Mapei.
- E. Grout: Water cleanable epoxy grout complying with ANSI A 118.3, Custom Building Products unless otherwise specified. Provide the following colors for the tile Type specified.
1. Laticrete Epoxy Grout Color as Scheduled in Drawings.-
- F. Provide sealants, joint fillers, and related materials compatible with one another and joint substrates under conditions of service and application, as demonstrated by testing and field experience; and as required in Section 07 92 00.
1. Match colors of grout in tile adjoining sealed joints, unless otherwise indicated.
 2. Site Fabricated Perimeter Expansion Joint: provide an approved gasket material or gun-grade silicone seal per installers approved detail for movement joints.
 - a. Joint Width: 0.25 inch
 3. Sealant Joints: Comply with Section 07 92 00 requirements for sealants.
- G. Cementitious Backer Units (CBU): ASTM C 1325 and ASNI 118.9 0.5 and 0.625 inch thick 4 by 8-foot panels as indicated; double-wrapped edges, USG DUROCK Cement Board, National Gypsum or approved.
- H. Gypsum Tile Wall Backing: Comply with Section 09 21 00 requirements.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Installer shall verify that substrates to receive tile work and conditions under which tile will be installed are acceptable and conform to Project requirements; notify contractor of unacceptable conditions and do not proceed with installation until unsatisfactory conditions are corrected.

3.2 PREPARATION

- A. In advance of installation work lay-out complete tile pattern in each space having non-parallel walls and trapezoidal spaces not having normal corners. Adjust tile pattern to avoid cut unit less than 2 inches in any dimension and to maintain constant grout joint dimension across the floor or wall. Obtain approval of pattern lay-out prior to starting installation.

3.3 INSTALLATION

- A. As applicable to installations required, comply with ANSI 136.1, ANSI 108 Series, and ANSI 118 series standards and TCA Handbook for Ceramic Tile Installation, unless otherwise indicated.
1. Tile Floor: Full coverage with crack isolation membrane; CTI F125-Full, provide dry-set membrane bond coat and mortar bond coat for tile in lieu of latex-modified Portland cement.
 2. Tile Wall: Substrate as required by Partition Types indicated:
 - a. Fiber Cement Board underlayment over required gypsum board; comply with CTI W244C with waterproof membrane.
 - b. Inorganic matt reinforced gypsum panel substrate; CTI W245 with epoxy grout.
- B. Waterproofing and Anti-fracture Membrane: Provide positive drainage slope where indicated for floor drains. Fill slab deviations to achieve uniformly flat or sloped floor and smooth finish surface; provide required transition to adjacent finish flooring. Provide waterproofing and anti-fracture membrane throughout all tile floor assemblies and form a contiguous barrier to water with watertight seal at joints between sheets, at all penetrations and to 6 inches above horizontal-to-vertical transitions.
1. Membrane Bond Coat: Unmodified Portland cement mortar complying with membrane manufacturer's recommendations for specific installations required. Give particular attention to fluid consistency of mortar for effective bond of membrane.
 2. Provide waterproofing membrane on wet-walls to termination of tile work.
 3. Coordinate installation of membrane and waterproofing accessories with floor drain, , floor sink and other items embedded in or penetrating through the tile assembly.
 4. Thread a layer of waterproofing membrane over penetration and lap on to uncoupling membrane a minimum of 6 inches in all directions and bond water-tight to uncoupling membrane.
- C. Provide uniform coverage and appearance in spaces indicated to receive tile; accurately fit to permanent fixtures, building structure, walls, obstructions, intersections, and returns; extend into toe spaces, reveals, and similar openings. Terminate work neatly at obstructions, edges, and corners without disrupting pattern or joint alignments.
1. Cut and drill tile without damage to visible surfaces.
 2. Neatly grind cut edges of tile abutting trim, finish and built-in items for straight aligned joints.
 3. Fit tile to outlets, fixtures and penetrations so that collars, and covers overlap tile properly.
 4. Cove Base set for flush transition between toe of coved base and floor tile.
 5. Layout tile in pattern indicated for floor and walls. Coordinate wall-mounted components and fixtures with tile pattern. Provide uniform joint widths between sheets and units, align tiles in adjoining surfaces where tile module permits
 6. Site Fabricated Perimeter Expansion Joint: Provide an approved detail for contiguous movement joint at floor-to-wall transitions in tile flooring.
- D. Metal Edge Strips: Install at locations indicated and where exposed edge of tile finishes flush with adjacent surface.

3.4 CLEANING

- A. Upon completion of placement and grouting, clean ceramic tile surfaces; remove foreign matter and protective coatings; Use cleaning materials and methods recommended by tile

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025

BID SET – ADDENDUM 06

and grout manufacturers. Protect adjacent surfaces from damage due to cleaning operations. Thoroughly rinse surfaces cleaned with chemicals so that no residue is left.

- B. Replace broken, cracked, chipped and misaligned units, and work not complying with Project requirements.

3.5 PROTECTION

- A. Install and maintain coatings, covers, boards and other measures necessary to protect installed tile from damage due to subsequent construction activities until final acceptance of the work; Remove protection and clean tile not more than five days before final inspection.
 - 1. Prohibit foot and wheel traffic from using tiled floors for not less than seven days after grouting is completed.
 - 2. Prohibit work on completed tile floors where acceptable protection is not in place and properly maintained clean, secure against displacement, and movement.

END OF SECTION

SECTION 09 51 00 – ACOUSTICAL CEILINGS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes requirements for acoustical ceilings, metal suspension systems, and accessories.
- B. Related Sections:
 1. Section 01 81 13.17 Sustainable Design Requirements - CALGreen
 2. Division 23 Sections, HVAC.
 3. Division 26 Sections, Electrical.

1.2 REFERENCES

- A. California Code of Regulations, Title 24, Part 11 California Green Building Standards Code, "CALGreen."
- B. CALIFORNA CODE OF REGULATIONS, TITLE 24, Part 2, California Building Code (CBC), International Building Code with California Amendments.
- C. ASTM International standards and testing procedures as listed in this Section.

1.3 DEFINITIONS

- A. CAD: Ceiling Attenuation Class.
- B. LR: Light Reflectance.
- C. NRC: Noise Reduction Coefficient.

1.4 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Conference: Comply with requirements for Project Meetings; provide coordination of building systems and other work to be performed above finish ceiling elevation.
 1. Verify compliance with finish ceiling elevations and accommodation of all work necessary in the space between the finish ceiling and underside of structure, including but not limited to beams and other structure restricting ceiling plenum space.
 2. Layout of items penetrating finish ceilings and coordination with ceiling support connections to structure, trim and perimeter edging as required.
 3. Confirmation of painting requirements for plenum spaces exposed to view at termination of suspended finish ceiling assembly.

1.5 SUBMITTALS

- A. Product Data: Required for ceiling panels, suspension systems, and accessories; including maintenance instructions.

2023005	ALTADENA MAIN LIBRARY ALTADENA LIBRARY DISTRICT	08.15.2025 <u>10.28.2025</u>
	BID SET – <u>ADDENDUM 06</u>	

- B. CALGreen Submittals:
1. Product Data-VOC limits for adhesives, sealants, fillers and primers, documentation including printed statement of VOC contents; comply with limits specified.
 2. Low/No VOC Paints and Coatings: Provide certification that all primers and coatings meet specified VOC emission limits. List manufacturer, brand, application, finish, and VOC emissions per gallon in grams per liter. Include product data sheet indicating VOC limits for each product provided.
- C. Shop Drawings:
1. Ceiling support assembly seismic loading resistance; including resolution of conflicts between building system assemblies and ceiling suspension. Provide drawings and calculations stamped by Contractor's registered structural engineer for work that does not have ICC-ES certification demonstrating compliance with System Description Article.
 2. Reflected ceiling plan documenting coordination of penetrations and ceiling-mounted items. Indicate ceiling suspension members and location and method of attachment to building structure complying with Performance Requirements.
 3. Coordination with building systems including but not limited to HVAC, plumbing, electrical, fire suppression and communication, and requirements for exposed structure.
 4. Intermediate Supports for Ceiling Suspension Systems: As necessary for specialty and custom ceiling assemblies.
- D. Samples: Color, finish and type required; 12 inches square of ceiling panels, and 12 inches length of suspension systems.
- E. Test Results: ICC-ES reports for metal suspension systems, and ceiling panels; comply with performance requirements.
- 1.6 PROJECT CONDITIONS
- A. Installation Areas: Enclosed, and weatherproof; wet-work complete and nominally dry, and work above ceilings complete; ambient temperature and humidity continuously maintained at values near those indicated for final occupancy.
- 1.7 MAINTENANCE
- A. Extra Materials: Full size units equal to one percent of each type of acoustic panel installed. Deliver to Owner as directed.

PART 2 - PRODUCTS

2.1 SYSTEM DESCRIPTION

A. Design Requirements:

1. Suspension System: CBC Section 1617A.1.21, ASTM C 635, C635 and ASTM E 580..
 - a. Compliance with California Division of the State Architect (DSA) Form IR 25-2, "Suspended Lay-In Panel Ceiling."
- 4.2. Coordination of Ceiling Suspension Support with Building Structure and Other Building Systems: Where direct anchorage to building structure is impractical due to conflict with mechanical, plumbing electrical or other building system assemblies provide fully

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

engineered alternative for anchorage of ceiling suspension assembly. Coordinate with work of HVAC, plumbing and electrical systems, identify potential areas of conflict for anchorage and support of suspended ceiling assembly and provide engineered solution in advance of installation.

2. ~~Metal suspension systems specified in this Section shall be coordinated with work of Section 09 21 00 for support of gypsum board ceilings. and Section 09 54 13 as required for support of specialty ceiling assemblies.~~
- a. ~~Walkable Ceiling: Comply with Section 05 40 00 requirements for support assembly.~~

B. Performance Requirements:

1. Acoustical Ceilings and Wall Panels shall meet California Green Building Standards Code Title 24, Chapter 11 (CALGreen) 5.504.4.5 compliance requirements: Comply with the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers" Version 1.2, January 2017.
 - a. Provide verification of compliance as required by 5.504.4.8.1.
- ~~3.2.~~ Ceiling Components: UL tested and labeled for flame spread 25, and smoke development 50, and required fire resistance.
- ~~4.3.~~ Seismic Design: Comply with CBC Chapter 16 requirements utilizing Project specific criteria for Use Group, Design Category, Building Configuration and Site Classification.

2.2 MATERIALS

- A. Metal Suspension Systems: ASTM C 635; Indirect Hung Suspension System; Heavy Duty, white enamel finish except as otherwise required for supports and perimeter components at ACP-1.
 1. ACP-1: 15/16-inch Grid, Blizzard White.
 2. Gypsum Board Ceilings: Armstrong Drywall Grid with 1.5-inch flange.
 - a. Provide attachment, angle and transition clips and other accessories as necessary for ceiling configuration and installation types required.
 3. Wall 'Shadow' Molding: Accommodate movement required by Performance Requirements; coordinate with suspension system, and panel edge detail; provide ICC certification of product compliance with requirements.
 4. Penetrations: Escutcheon and other trim configured to fit the penetration, provide edge detail and finished appearance acceptable to Architect.
- B. Attachment Devices: Size for 5 times design load indicated in ASTM C 635, Table 1, Direct Hung; type recommended by suspension system manufacturer for installation as required.
 1. Concrete Embeds: Hot-dipped galvanized sheet steel designed for attachment of hangers.
 2. Powder Actuated: Provide ICC-ES Report for pull-out resistance in directed tension and approval of regulatory official having jurisdiction over the Project. Oversize load factor as required.
 3. Hanger Wire: sized so that stress at 3-times hanger design load (ASTM C 635, Table 1, Direct Hung), will be less than yield stress of wire, but provide not less than 12 gage.
- C. Acoustic Ceiling Panels:
 1. ACT1: Armstrong Optima Tegular Silhouette ¼-inch reveal grid.
 - a. Size: See Drawings, 48 x 48 inches.
 - b. Finish: VFY-Fine Texture.
 - c. Color: White.
 - d. NRC: VFY-0.95.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025

BID SET – ADDENDUM 06

- e. Provide shadow molding (by Contractor).
- 2. ACT2: Armstrong Optima Tegular Silhouette ¼-inch reveal grid.
 - a. Size: 24 x 48 inches.
 - b. Finish: VFY-Fine Texture.
 - c. Color: White.
 - d. NRC: VFY-0.95.
 - e. Provide shadow molding (by Contractor).
- 3. ACT3: Armstrong Optima Square lay-in, with 15/16-inch narrow grid.
 - a. Size: 24 x 24 inches.
 - b. Finish: VFY-Fine Texture.
 - c. Color: White.
 - d. NRC: VFY-0.95.
 - e. Provide shadow molding (by Contractor).
- 4. ACT4: Armstrong Calla; Square tegular, with 15/16-inch narrow grid.
 - a. Size: 24 x 24 inches.
 - b. Finish: VFY-Fine Texture.
 - c. Color: White.
 - d. NRC: 0.85.
 - e. CAC: 35.
 - f. Provide shadow molding (by Contractor).

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Furnish ceiling layout, and inserts, clips, and support materials, to be installed by other trades well in advance of time needed for coordination.
- B. Coordinate layout and installation with other work supported by and penetrating through ceiling; light fixtures, mechanical and electrical equipment, fire-suppression system components, and partitions.
 - 1. Measure ceiling area and layout as indicated, balance border widths at opposite edges of ceiling, avoid use of less-than-half width units.
- C. Verify framing assembly to support T-bar grid and attachment of specialty ceiling panels have been coordinated with building systems and panel assembly requirements; correct work that has not been properly coordinated and as necessary due to conflicts with other systems.

3.2 INSTALLATION

- A. Comply with Project requirements, governing regulations, and manufacturers' instructions.
 - 1. Panel Orientation: As indicated, if not indicated orient directionally patterned panels in one direction.
- B. Suspension System: ASTM C 636 and E 580; level, square to vertical surfaces; hangers supported only from building structure.
 - 1. Provide manufacturer's standard joint configuration for exposed flanges of intersecting suspension system members, for uniform, neat well-crafted joints. Miter exposed corners, unless otherwise acceptable.
 - 2. In lieu of installing suspension system per Design Requirements, provide certified design by registered engineer.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025
10.28.2025

BID SET – ADDENDUM 06

3. Molding: At ceiling perimeter and penetrations, to conceal panel edges; provide spring spacers for panels in concealed suspension systems. Support moldings not adjacent to runners as required for suspension system, unless otherwise indicated
 4. Floating Installation: Provide perimeter reveal gap as necessary to center panel group in structural bay or other area as indicated; dimension of gap will vary depending on actual space available. Use only full-size panels. Provide extruded aluminum trim as specified.
 5. Mechanically fasten wall moldings to vertical surfaces 16 inches on center, and 3 inches from ends.
 6. Apply continuous ribbon of acoustical sealant, concealed on back of vertical leg before installing moldings.
- C. Hangers: 48 inches on center, provide additional hangers at light fixtures, and 6 inches from vertical surfaces, unless otherwise indicated.
1. Install plumb, free from contact with insulation and other objects in ceiling plenum not part of supporting structure nor suspension system.
 2. Do not splay wires more than 3 inches in a four-foot vertical drop, unless otherwise acceptable; wrap main runners at least three times.
- D. Acoustical Panels: Level in straight regular courses, with proper joints for intended appearance. Scribe and cut for accurate fit at borders and around penetrating work.
1. Tegular Jointed Panels: Rout edges of cut panels and finish to match appearance of factory formed edges.
- E. Gypsum Board Ceilings: Install suspension system as required for work of this Section and coordinate with work of Section 09 21 00.
- F. Tolerance for System Level and Elevation: Comply with limitations in ASTM C 636 for metal suspension system regardless of whether assembly supported is lay-in or mechanically attached.
1. Shim supports directly mounted to structure and provide adjustable hangers and indirect supports for assemblies not directly applied to structure as necessary to comply with tolerance limitations.
- 3.3 ADJUST AND CLEAN
- A. Clean exposed surfaces of acoustical ceilings, including trim, edge moldings and suspension members; comply with manufacturers' instructions for cleaning and touch-up of minor finish damage.
- B. Remove and replace work which cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION

SECTION 09 54 00 – ACOUSTICAL DRYWALL CEILINGS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes Acoustical ceiling panel, finish and suspension systems.
- B. Access Panels.

1.2 SUBMITTALS

- A. Shop Drawings: Layout and details of ceilings. Show locations of items that are to be coordinated with, or supported by the ceilings.
- B. Installation Instructions: Submit manufacturer's installation instructions as referenced in Part 3, Installation.
- C. Product Data: Submit manufacturer's technical data for each type of ceiling unit, suspension system and access panel required.
- D. Samples: Minimum 6 x 6 inch samples of specified panel; 8 inch long samples of exposed wall molding and suspension system, including main runner and 4 foot cross tees.
- E. Certifications: Manufacturer's certifications that products comply with specified requirements, including laboratory reports showing compliance with specified tests and standards.

1.3 QUALITY ASSURANCE

- A. Single-Source Responsibility: Provide acoustical panel units and grid components by a single manufacturer.
- B. Fire Performance Characteristics: Identify acoustical ceiling components with appropriate markings of applicable testing and inspecting organization.
 - 1. Surface Burning Characteristics: As follows, tested per ASTM E 84 and complying with ASTM E 1264 Classification.
- C. Acoustical Panels: As with other architectural features located at the ceiling that may obstruct or skew the planned fire sprinkler pattern through possibly delay or accelerate the activation of the sprinkler or fire detection systems by channeling heat from a fire either toward or away from the device. Designers and installers are advised to consult a fire protection engineer, NFPA 13, or their local codes for guidance where automatic fire detection and suppression systems are present.
- D. Coordination of Work: Coordinate acoustical ceiling work with installers of related work including, but not limited to building insulation, gypsum board, light fixtures, mechanical systems, electrical systems, and sprinklers. AcustiBuilt Panels are 7/8" thick.
- E. Installer Qualification: Subcontractor is an experienced Installer that has reviewed and understands the system installation instructions thoroughly. Subcontractor will follow written

2023005	ALTADENA MAIN LIBRARY	08.15.2025
	ALTADENA LIBRARY DISTRICT	10.28.2025

installation instructions and utilize approved equipment and procedures for finishing installation.

- F. AcoustiBuilt is finished to a level 4 drywall finish equivalent. Installing AcoustiBuilt requires special attention to finishing details. Light coves and low angle lighting will exaggerate imperfections. Mock-ups and hands-on training are strongly recommended.

1.4 DELIVERY, STORAGE AND HANDLING

- A. Deliver acoustical ceiling units to project site in original, unopened packages/crates and store them in a fully enclosed space where they will be protected against damage from moisture, direct sunlight, surface contamination, and other causes.
- B. Before installing acoustical ceiling units, permit them to reach room temperature and a stabilized moisture content. Store all material within temperature limits required by manufacturer.
- C. Handle acoustical ceiling units carefully to avoid chipping edges or damaged units in any way.

1.5 PROJECT CONDITIONS

- A. Space Enclosure:
 1. Building areas to receive ceilings shall be free of construction dust and debris. AcoustiBuilt panels should be installed in areas where the building is enclosed and the HVAC is continuously functioning. This product is not recommended for exterior applications, where standing water is present, or where moisture will come into direct contact with the ceiling.
 2. HVAC should be designed, installed, and operated in accordance with ASHRAE Standard 62.1. It is also necessary for the area to be enclosed, for the HVAC systems to be functioning, and in continuous operations for the life of the product. Product is not intended for use where natural ventilation is part of the ventilation strategy and not recommended in areas where a differential plenum pressure exists.

1.6 WARRANTY

- A. Submit a written warranty executed by the manufacturer, agreeing to repair or replace panels that fail within the warranty period. Failures include, but are not limited to the following:
 1. Acoustical Panels: Manufacturer's defects in material
 2. Grid System: Rusting and manufacturer's defects
 3. CastWorks Access Panel: Submit a written warranty executed by the manufacturer, agreeing to repair or replace panels that fail within the warranty period
- B. Warranty Period:
 1. Acoustical panels: Ten (10) years from date of substantial completion
 2. Suspension: Ten (10) years from date of substantial completion
 3. CastWorks Architectural Forms: One (1) year from date of substantial completion
- C. The Warranty shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and will be in addition to and run concurrent with other warranties made by the Contractor under the requirements of the Contract Documents.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Subject to conformance with requirements, provide Basis of Design AcoustiBuilt Seamless Acoustical Ceiling System as manufactured by Armstrong World Industries or comparable products as approved from the following:
1. StarSilent Acoustical System, Pyrok, Inc.
 2. BASWAphon Sound Absorbing Plaster System, Baswa Acoustic North America, LLP.
 3. Fellert North America.

2.2 ACOUSTICAL CEILING UNITS

- A. Basis of Design Panel: AcoustiBuilt panels #2604 No added formaldehyde as manufactured by Armstrong World Industries.
1. Physical Characteristics:
 - a. Panel Composition: Mineral Fiber.
 - b. Panel Size: 48 in x 72 in x 7/8 in - Item #2604.
 - c. Edge Profile: Tapered edges four sides.
 - d. Surface Texture: Fine.
 - e. Color: White.
 - f. Performance Characteristics
 - g. Noise Reduction Coefficient (NRC): ASTM C 423; Panel 0.80 (UL)
 - h. Ceiling Attenuation Class (CAC): ASTM C 1414; Panel 46 (UL), System up to 48
 - i. Sabin: Cloud Applications: 0.80 Sabins/SF & 1.33 Sabins/SF with infill item 8200T10
 - j. Flame Spread: ASTM E 1264; Class A.
 - k. Light Reflectance (LR) White Panel: ASTM E 1477; 0.87.
 - l. Dimensional Stability: HumiGuard Plus.
 2. Sustainability Criteria
 - a. Recycled Content: Post-Consumer and Pre-Consumer – up to 75%
 - b. Material Ingredient Transparency: Health Product Declaration (HPD); Declare Label
 - c. Life Cycle Assessment: Third Party Certified Environment Product Declaration (EPD).
 - d. Panel Finish
- B. Joint Compound
1. Setting Compound: Lightweight setting-type drywall joint compound, Ultra lightweight drying-type drywall joint compound.
- C. Joint Tape: Self-Adhesive mesh drywall joint tape (Panel to Panel)
1. Use Setting Type Compound for initial coats and use Drying Type Compound for final coats per the installation instructions. DO NOT use any other type of drywall compound such as All-Purpose Compound.
 2. Paper tape at the wall intersection.
- D. Spray Applied Finish – Required Product: #2605WH or 2605BL Fine Texture Finish for AcoustiBuilt panels – White as manufactured by Armstrong World Industries.

2.3 SUSPENSION SYSTEMS

- A. Armstrong Drywall Suspension Systems all main beams and cross tees shall be commercial quality hot-dipped galvanized steel.
1. Main beam: manufactured main beam- 1-1/2" knurled face with ScrewStop™ reverse hem by 1-11/16 inches high. Drywall Main Beams are factory punched with cross tee routs, hanger wire holes, and SuperLock™ main beam clip for a strong secure connection and fast accurate alignment. Drywall Main Beams are Heavy-duty performance per ASTM C635.
 2. HD8906 - 12ft HD Drywall Main Beam 1-1/2 in.
 3. Cross Tees: manufactured cross tee- 1-1/2" knurled face with ScrewStop™ reverse hem by 1-1/2 inches high with factory punched cross tee routs and hanger wire holes and XL stake on clip for a strong secure connection.
 4. XL8945P - 4ft Drywall Cross Tee.
 5. Wall Molding:
 6. KAM12 - 12ft Knurled Angle Molding 1-1/4" Face.
 7. Hanger wire: a Class 1 zinc coating, soft temper, pre-stretched, with a yield stress load of at least time three times the design load, but not less than 12-gauge.
- B. Fasteners (for Panel attachment)
1. #6 x 1-5/8" Fine thread drywall screws.
- C. Adhesives: As recommended by manufacturer, Loctite PL Premium Polyurethane Construction Adhesive, OSI F38 Drywall Panel Adhesive.
- D. Perimeter Systems
1. Commercial quality extruded aluminum alloy 6063 trim channel, factory finished in baked polyester paint. Commercial quality galvanized steel unfinished T-bar connection clips; galvanized steel splice plates.
 2. Color: White.
 3. Size: 120 in X 4 in (also available in 6").
 4. Recycle Content: Post-Consumer - 50% Pre-Consumer - 0%.
 5. Acceptable Product: AXIOM One Piece for Drywall, 4in Straight – AX1PC4STR or Curved AX1PC4CUR as manufactured by Armstrong World Industries
- E. Axiom Trim Channel:
1. AX4STR 4in Axiom Classic Straight
 2. AX1PC4STR 4IN One –Piece Drywall Trim
 3. Axiom Bottom Trim with taping flange
 4. AXBTASTR – Bottom Trim for AcoustiBuilt (also available in curved)
 5. Axiom Accessories:
 - a. AXSPLICE - Splice Plate

2.4 CASTWORKS ACCESS PANELS FOR ACOUSTIBUILT

- A. Physical Characteristics:
1. Surface Texture: Standard unfinished, paint grade.
 2. Composition: Glass Fiber Reinforced Gypsum (GFRG/GRG)
 3. Color: Paint Grade (CPG)
 4. Door Type: Lay-in
 5. Door Size: As shown in Drawings; where not indicated, as selected by Architect from manufacturer's standard options.
 6. Provide gasketed door where scheduled.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025

7. Frame Thickness: 7/8 in (for AcoustiBuilt panels).
- B. Design Criteria:
1. Squared Corners Lay-in 7/8" frame thickness:
AS0300S02T7G0CPG, AS0300S04T7G0CPG, AS0300S05T7G0CPG.
 2. Rounded Corners Lay-in 7/8" frame thickness:
AS0300R02T7G0CPG, AS0300R04T7G0CPG, AS0300R05T7G0CPG.
- C. Sustainable Design Criteria:
1. Material Ingredient Transparency: Health Product Declaration (HPD); Declare Label.
 2. Life Cycle Assessment: Third Party Certified Environmental Product Declaration (EPD).

PART 3 - EXECUTION

3.1 INSPECTION

- A. Inspect previous work of all other trades prior to installation. Verify that all work is complete and accurate to the point where this installation may properly proceed in strict accordance with framing shop drawings.
- B. If framing preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- C. System installation is similar to a conventional drywall installation with critical differences in material substrate and finishing methods.
- a. Installation: In accordance with all approved plans, details, and manufacturer's installation guidelines located in the Armstrong AcoustiBuilt Assembly and Installation Instructions (BPLA-299099) and Drywall Grid Systems Hanging and Framing Flat Ceilings Installation Guides (BPCS3539)
 - b. Install seismic components as required by the building code. Seismic components to be specified on the architectural plans by the project engineer or design team.
 - c. Suspend main beam from overhead construction with hanger wires spaced 4-0 ft. on center along the length of the main runner. Install hanger wires plumb and straight.
 - d. 48" Cross tees shall be installed 16" on center. Extra cross tees are required at 72" every 12'. All 4 panel edges must be supported by a grid main or tee.
 - e. Install wall moldings/perimeter trim at intersection of suspended ceiling and vertical surfaces
 - f. Main runners and cross tees shall be attached at perimeter conditions
 - g. When determining the grid layout, consider the long edges of the boards must run parallel with the mains.
 - h. This system relies on a square grid system to ensure panel edges align at centers of cross tees. If the installation does not meet these squareness requirements, the panel edges may run off the grid system.
 - i. The system must be square to within 1/8" over a 48" x 48" module.
 - j. The suspension system must be leveled to within 1/4" in 10'.
 - k. Floating perimeters must be trimmed with either Axiom® One-Piece Drywall Trim or Axiom® Classic with Bottom Trim for AcoustiBuilt™. Refer to the installation instructions for integration with AcoustiBuilt installations.

- I. Install access doors where plenum access is required. Refer to the RCP for the location)

3.2 PREPARATION

- A. Do not proceed with installation until all wet work such as concrete, terrazzo, plastering and painting has been completed and thoroughly dried out, unless expressly permitted by manufacturer's printed recommendations.
- B. Coordination: Furnish layouts for preset inserts, clips, and other ceiling anchors whose installation is specified in other sections.
- C. Furnish concrete inserts and similar devices to other trades for installation well in advance of time needed for coordination of other work.

3.3 INSTALLATION

- A. Follow manufacturer installation instructions. Armstrong AcoustiBuilt Assembly and Installation Instructions (BPLA-299099).
- B. Control joints are required following the standards used for gypsum board listed in ASTM C840, Section 20.
 1. Ceilings with perimeter relief cannot exceed 50 LF and 2500 SF between control joints
 2. Ceilings without perimeter relief cannot exceed 30 LF and 900 SF between control joints
- C. Panel joints and fasteners are finished with tape and compound to create a flat surface. While the materials used to finish AcoustiBuilt panels are also used to finish drywall, the procedure has unique requirements.
- D. Joint compound coverage shall be limited to preserve the acoustical performance of the panels. Compound at panel joints shall not exceed 8 inch widths. Compound applied to field fasteners shall not exceed 2 inch by 2-inch areas. All compound shall be smooth and free of tool marks and ridges. Panels are to be finished with taping knives. Production tools, including boxes, are detailed on the installation instructions.
- E. Sanding and inspection: Throughout the sanding process, inspect the surface frequently for flatness. Direct a light across the ceiling to highlight unevenness that requires attention.
- F. Fine Texture Finish shall be applied in 4-5 coat process (additional coat may be used to achieve the desired finish) as called out in the installation instructions. Fine Texture Finish for AcoustiBuilt is applied in multiple coats, layered to achieve a uniform appearance and acoustical performance.
- G. AcoustiBuilt fine texture finish: Provide as required by manufacturer, with Graco Mark V texture system. Alternative methods are not allowed, except as agreed to by manufacturer in writing.
 1. Follow manufactures installation instructions regarding correct spray tip, pressure settings for spray system, finish preparation, spray calibration and spray procedure and technique.

3.4 ADJUSTING AND CLEANING

- A. To remove soot, dirt, and dust use a vacuum operating at low power with a soft brush or use a dry soot cleaning sponge.
- B. Clean exposed surfaces of acoustical ceilings, including trim, edge moldings, and suspension members. Comply with manufacturer's instructions for cleaning and touch up of minor finish damage.

End of Section

SECTION 09 54 34 – WOOD ALTERNATIVE CEILING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes requirements for wood alternative ceiling panel and associated suspension systems as required for horizontal applications.

1.2 RELATED REQUIREMENTS

- A. Section 01 81 13.17 Sustainable Design Requirements – CALGreen.
- B. Section 09 81 00 Acoustical Insulation.
- C. Divisions 21, 23, 27, 28 for coordination of ceiling-mounted equipment.

1.3 REFERENCES

- A. California Code of Regulations, Title 24, Part 11 California Green Building Standards Code, "CALGreen."
- B. CALIFORNIA CODE OF REGULATIONS, TITLE 24, Part 2, California Building Code (CBC), International Building Code with California Amendments.

1.4 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Conference: Comply with requirements for Project Meetings; provide coordination of building systems and other work to be performed above finish ceiling elevation.
 - 1. Verify compliance with finish ceiling elevations and accommodation of all work necessary in the space between the finish ceiling and underside of structure, including but not limited to beams and other structure restricting ceiling plenum space.
 - a. Confirmation of painting requirements for plenum spaces exposed to view at termination of suspended finish ceiling assembly.
 - 2. Layout panels in advance of fabrication and accommodate cut panels and custom sizes as necessary for factory applied edging on panels of items penetrating finish panel assemblies and coordination with panel support connections to structure, trim and perimeter edging as required.
 - 3. Coordinate layout and installation of panel assemblies and support components with other work penetrating or located within panel, including without limitation light fixtures, mechanical components, controls, fire suppression system components and other devices.

1.5 SUBMITTALS

- A. Product Data: Required for ceiling and suspension systems, and accessories; including maintenance instructions.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

- B. CALGreen Submittals:
1. Product Data-VOC limits for adhesives, sealants, fillers and primers, documentation including printed statement of VOC contents; comply with limits specified.
 2. Composite Wood Formaldehyde Limits: Provide certification that all products meet current CARB Airborne Toxic Control Measure (ATCM) for Composite Wood Formaldehyde Limits by Mandatory Compliance Dates as Specified.
- C. Shop Drawings: Document Project installations and assemblies compliance with System Description requirements; detail support assembly, integration of other components with panels, coordination with work concealed behind panels and work to be accessed through panels once installed.
1. Coordinate with requirements for panel assembly support systems and connections to work of other Sections, and requirements of this Section including but not limited to attachment and support conditions, appearance, tolerance compliance and plenum access.
 2. Provide drawings and calculations stamped by Contractor's registered structural engineer for work that does not have ICC-ES certification of seismic compliance. Seismic load resistance shall include resolution of conflicts between building system assemblies and ceiling suspension.
 3. Reflected ceiling plan and wall elevations documenting coordination of penetrations and items mounted to or through panels. Indicate panel support members, location and method of attachment to complying with Performance Requirements.
 4. Coordination Drawing: As required for mechanical ventilation, indicate extent and location where perforated metal panel backing is required in lieu of scrim and acoustic backing.
 - a. Ceiling penetration and coordination with building systems and fixtures.
 - b. Field verified measurements coordinated with work of Division 26 for Fixtures.
- D. Samples: Provide fabricated panel finished as required.
1. Two by two-foot square panel demonstrating joinery of abutting panels. Back panels with required scrim.

1.6 PROJECT CONDITIONS

- A. Installation (Interior) Areas: Enclosed, and weatherproof; wet-work complete and nominally dry, and work above ceilings complete; ambient temperature and humidity continuously maintained at values near those indicated for final occupancy.
- B. Existing Conditions: The Contractor shall verify prior to making required submittals that the ceiling components match similar existing assemblies as required.
1. Specified Products: For Contractor information only, the Contractor is responsible for providing components that match existing assemblies regardless of products listed.
- C. Extra Materials: Full size units equal to three percent of each type of panel assembly installed, including supports and accessory components; deliver as directed.

1.7 QUALITY ASSURANCE

- A. Fabricator: Work of a single entity unless otherwise acceptable. Demonstrate minimum of five years successful experience with custom wood panel assemblies similar in type, complexity and scope as required for the Work on projects of similar size and quality to that required.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

1. Delegated Design: Fabricator responsible to provide services of Professional Engineer Registered in the State of the Project who shall have direct responsibility and control for completion of delegated design work.
- B. Installer: Firm shall have documented experience on no fewer than 5 projects of a similar nature in the past five years and be acceptable to the fabricator unless otherwise approved.

PART 2 - PRODUCTS

2.1 SYSTEM DESCRIPTION

- A. Design Requirements: Requirements indicated establish basic design intent, dimensions, profiles and configuration. Provide modifications to standard systems and additional details and components as necessary to achieve the design intent including member sizes, profiles and configuration.
 1. Panel Support Assemblies: Comply with System Description for panel configuration and installation type required. Provide Professional Engineering services necessary for final design of custom support systems and for standard assemblies not having ICC-ES approval and modifications not conforming to parameters of ICC-ES Report.
 - a. Determine attachments to supporting building construction and provide all components necessary.
 - b. Identify in advance of execution all potential areas of conflict for attachment of support assembly to structure including but not limited to mechanical, plumbing, fire suppression and electrical systems; effect necessary modifications and provide custom fabrications where necessary to resolve the conflict.
 2. Provide for concealed attachment of ceiling planks and panels with downward accessibility where required. Attachments for planks and panels shall not restrain material against movement due to cyclical change of environmental moisture where this could result in splits or cracks in the material with particular attention given to end splits.
- B. Performance Requirements: Comply with General Structural Notes in General Structural note on S series drawings for Project specific performance criteria.
 1. Structural Design Criteria: Comply with CBC Title 24 Chapter 16 requirements utilizing Project specific criteria for Use Group, Design Category, Building Configuration and Site Classification and additional criteria in the General Structural Notes.
 2. Panel Deflection: When subjected to required forces and conditions of service.
 - a. Ceiling: Less than 0.002778 inch in greatest panel dimension.
 3. Fire Performance: Provide transparent treatment of wood components for Class A Flame Spread and Smoke Development; comply with 30-minute flame spread test when necessary for regulatory approval.

2.2 MANUFACTURED COMPONENTS

- A. Manufacturer's engineered metal carrier, suspended as required by manufacturer for application indicated; coordinate with framing provided as work of Section 09 22 16.
 1. Include all components, anchors, hangers, channels and runners, wall molding and accessories as necessary for complete installation.
 2. Modify standard components and provide custom fabrications as necessary for assembly configuration required and attachment of the specified wood ceiling panels.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025
10.28.2025

BID SET – ADDENDUM 06

3. Attachment Devices for Suspension System and Wood Alternate Ceiling: Size for 5 times design load indicated in ASTM C 635, Table 1, Direct Hung; type recommended by suspension system manufacturer for installation as required.
 4. Hold-Down Clips: For exterior ceilings and where indicated for interior ceilings, provide hold-down clips spaced not to exceed 24 inches on center on all cross tees.
- B. Composite Polymer Ceilings, MC1 (interior) and MC2 (exterior, Alternate): Specified slat panel assembly with acoustic backing as required for horizontal (interior) applications indicated. Complete panel fabrication and finishing in the shop with panels configured for installation required. Configure assembly for concealed mechanical attachment to supporting construction for ceiling installation. Provide standard components, modified where necessary for assembly types and configurations required.
1. Provide profile as indicated using a combination of manufacturer's standard profiles or components for panel sizes, configuration and profile required; Rulon Endure 800 is the basis of design.
 - a. Slat size: 3 ¼-inch by 1-inch.
 - b. Slat spacing: Three members per lineal foot (4" OC spacing).
 - c. Finish: English Walnut.-
 - d. Suspension: Manufacturer's standard carrier channel installation.
 2. Scrim Backing and Acoustic Fabric Insulation: Provide throughout Wood Grille Panels except as required for select locations with mechanical ventilation through the wood grille.
 - a. Reveal Scrim Backing: Black, SoundTex Acoustic woven nylon scrim.
 - b. Insulation: Minimum 1.5-inches black acoustical board or blanket, Owens Corning SelectSound Black Blanket, Knauf Black Acoustical Board or approved.
 3. Edges and Trim: Manufacturer's standard perimeter trim edge channel.
 4. Backing Cross Piece: Concealed from view in completed assembly per approved design.
- C. Shop Finish:
1. Support Components, Backing and Suspension System: Manufacturer's shop applied system; matte black; provide manufacturer's standard factory-applied black protective coating for carriers at exterior installation-
 - ~~2. —As selected by Architect from manufacturer's standard color and pattern options.-~~

2.3 ACCESSORIES

- A. Provide escutcheons and trim components for panel penetrations and profiles required. Configure for penetration, and edge conditions required and finished as required for panels.
- B. Perimeter Trim: As indicated or as selected by Architect from Manufacturer's standard trim options.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Furnish panel layout, support assembly and connection materials, to be installed by other trades well in advance of time needed for coordination.

- B. Coordinate layout and installation with other work supported by and penetrating through ceiling; light fixtures, mechanical and electrical equipment, fire-suppression system components, and partitions.

3.2 INSTALLATION

- A. Provide continuity of appearance throughout ceiling area. Install level in straight regular courses, with proper joints for intended appearance. Field cutting of panels to size is not acceptable; provide factory fabrication of panels with solid stock edging as required.
 - 1. Orientation of Linear Ceiling Panels: As indicated and for ceiling pattern and configuration required.
 - 2. Coordinate panels with mechanical system. Omit acoustical treatments where mechanical ventilation is required through the panel and install perforated metal backing furnished as work of Section 05 50 00 per the approved design.
- B. Suspension System: ASTM C 636; level, square to vertical surfaces; hangers supported only from building structure. Provide for downward-accessible torsion spring panel installation.
 - 1. Provide manufacturer's standard joint configuration for exposed flanges of intersecting suspension system members, for uniform, neat well-crafted joints. Miter exposed corners, unless otherwise acceptable.
 - 2. Install support assembly complying with System Description requirements and approved submittals of fabricator's delegated design engineer.
- C. Hangers: 48 inches on center, provide additional hangers at light fixtures, and 6 inches from vertical surfaces, unless otherwise indicated.
 - 1. Limit fastener penetration in post-tensioned slab to 0.75 inch unless approved otherwise; deeper fastener placement may require locating reinforcing tendons prior to fastener placement.
 - 2. Install plumb, free from contact with insulation and other objects in ceiling plenum not part of supporting structure nor suspension system.
 - 3. Do not splay wires more than 3 inches in a four-foot vertical drop, unless otherwise acceptable; wrap main runners at least three times.

3.3 ADJUST AND CLEAN

- A. Clean exposed surfaces of acoustical ceilings, including trim, edge moldings and suspension members; comply with manufacturers' instructions for cleaning and touch-up of minor finish damage.
- B. Remove and replace work which cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION

SECTION 09 66 23 - RESINOUS MATRIX TERRAZZO FLOORING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
1. Precast epoxy-resin terrazzo units.

1.2 PREINSTALLATION MEETINGS

- a. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
- b. Review special terrazzo designs and patterns.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
1. Include documentation indicating that product contains no urea formaldehyde in compliance with California Air Resources Board (CARB) regulations.
 2. Product Data: For adhesives, indicating VOC content.
 3. Laboratory Test Reports: For adhesives, indicating compliance with requirements for low-emitting materials.
 4. Laboratory Test Reports: For sealers, indicating compliance with requirements for low-emitting materials.
- B. Shop Drawings: Include terrazzo installation requirements. Include plans, sections, component details, and relationship to other work. Show layout of the following:
1. Abrasive strips.
 2. Stair treads, risers, and landings.
 3. Precast terrazzo jointing and edge configurations.
- C. Samples: For each exposed product and for each color and texture specified, 6 inches in size.
- D. Samples for Initial Selection: NTMA's "Terrazzo Color Palette" showing the full range of colors and patterns available for each terrazzo type.
- E. Samples for Verification: For each type, material, color, and pattern of terrazzo and accessory required showing the full range of color, texture, and pattern variations expected. Label each terrazzo Sample to identify manufacturer's matrix color and aggregate types, sizes, and proportions. Prepare Samples of same thickness and from same material to be used for the Work, in sizes indicated below:
1. Precast Terrazzo: **6-inch-** square Samples.

1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.

- B. Material Certificates: For each type of terrazzo material or product.
 - C. Installer Certificates: Signed by manufacturers certifying that installers comply with requirements.
- 1.5 CLOSEOUT SUBMITTALS
- A. Maintenance Data: For terrazzo to include in maintenance manuals.
- 1.6 QUALITY ASSURANCE
- A. Installer Qualifications:
 1. Engage an installer who is a contractor member of NTMA.
 2. Engage an installer who is certified in writing by terrazzo manufacturer as qualified to install manufacturer's products.
- 1.7 DELIVERY, STORAGE, AND HANDLING
- A. Deliver materials to Project site in supplier's original wrappings and containers, labeled with source's or manufacturer's name, material or product brand name, and lot number if any.
 - B. Store materials in their original, undamaged packages and containers, inside a well-ventilated area protected from weather, moisture, soiling, extreme temperatures, and humidity.
- 1.8 FIELD CONDITIONS
- A. Environmental Limitations: Comply with manufacturer's written instructions for substrate temperature, ambient temperature, moisture, ventilation, and other conditions affecting terrazzo installation.
 - B. Field Measurements: Verify actual dimensions of construction contiguous with precast terrazzo by field measurements before fabrication.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Source Limitations: Obtain primary terrazzo materials from single source from single manufacturer. Provide secondary materials including patching and fill material, joint sealant, and repair materials of type and from source recommended by manufacturer of primary materials.
- B. Source Limitations for Aggregates: Obtain each color, grade, type, and variety of granular materials from single source with resources to provide materials of consistent quality in appearance and physical properties.

2.2 PERFORMANCE REQUIREMENTS

- A. NTMA Standards: Comply with NTMA's written recommendations for terrazzo type indicated unless more stringent requirements are specified.
- B. Flooring products shall comply with the requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."

2.3 PRECAST EPOXY-RESIN TERRAZZO

- A. Basis-of-Design Product: Subject to compliance with requirements, provide products of EV Materials, Inc., or comparable product by one of the following:
 - 1. Precast Terrazzo Enterprises, Inc.
 - 2. Romoco Precast Terrazzo Products; a subsidiary of Roman Mosaic & Tile Company.
 - 3. Wausau Tile Inc.
- B. Performance Requirements:
 - 1. Compressive Strength 10,000 p.s.i.
 - 2. Flexural Strength 3,000 p.s.i.
- C. Precast Terrazzo Stair Treads and Risers, planks and landings: Comply with manufacturer's written instructions for fabricating precast units in sizes and profiles indicated. Reinforce units as required by unit sizes, profiles, and thicknesses and as recommended by manufacturer. Finish exposed-to-view edges and reveals to match face finish. Ease exposed edges to **1/8-inch (3.2-mm)** radius.
 - 1. Color, Pattern, and Finish: Match Architect's sample.
- D. Abrasive Strips: **[Three-line] [Two-line] [One-line] [Abrasive nosing strip and two-line]** abrasive inserts at nosings. Silicon carbide or aluminum oxide, or combination of both, in epoxy-resin binder and set in channel.
 - 1. Width: **1/2 inch**
 - 2. Depth: As required by terrazzo thickness.
 - 3. Length: **4 inches** less than stair width unless otherwise indicated in Drawings and details.
 - 4. Color: As selected by Architect from full range of industry colors

2.4 MISCELLANEOUS ACCESSORIES

- A. Anchoring Devices:
 - 1. Precast Terrazzo: Provide mechanical anchoring devices as recommended by fabricator for proper anchorage and support of units for conditions of installation and support.
- B. Patching and Fill Material: Terrazzo manufacturer's resinous product approved and recommended by manufacturer for application indicated.
- C. Joint Compound: Terrazzo manufacturer's resinous product approved and recommended by manufacturer for application indicated.

- D. Resinous Matrix Terrazzo Cleaner: Chemically neutral cleaner with pH factor between 7 and 10 that is biodegradable, phosphate free, and recommended by sealer manufacturer for use on terrazzo type indicated.
- E. Sealer: [Slip- and stain-resistant, penetrating-type sealer that is chemically neutral; does not affect terrazzo color or physical properties; and is recommended by sealer manufacturer] [Acrylic] [Urethane] [Chemical-resistant epoxy] [Water based] <Insert requirements>.
 - 1. Surface Friction: Not less than 0.6 according to ASTM D 2047.
 - 2. Acid-Base Properties: With pH factor between 7 and 10.
 - 3. Products shall comply with the requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and areas, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions, including levelness tolerances, have been corrected.

3.2 PREPARATION

- A. Clean substrates of substances, including oil, grease, and curing compounds, that might impair terrazzo bond. Provide clean, dry, and neutral substrate for terrazzo application.
- B. Concrete Slabs:
 - 1. Provide sound concrete surfaces free of laitance, glaze, efflorescence, curing compounds, form-release agents, dust, dirt, grease, oil, and other contaminants incompatible with terrazzo.
 - a. Shot-blast surfaces with an apparatus that abrades the concrete surface, contains the dispensed shot within the apparatus, and recirculates the shot by vacuum pickup.
 - b. Repair damaged and deteriorated concrete according to terrazzo manufacturer's written instructions.
 - c. Use patching and fill material to fill holes and depressions in substrates according to terrazzo manufacturer's written instructions.
- C. Verify that concrete substrates are dry and moisture-vapor emissions are within acceptable levels according to manufacturer's written instructions.

3.3 PRECAST TERRAZZO INSTALLATION

- A. Install precast terrazzo units using method recommended in writing by NTMA and manufacturer unless otherwise indicated.
- B. Do not install units that are chipped, cracked, discolored, or improperly finished.

- C. Seal joints between units with joint compound matching precast terrazzo matrix; provide sealant joints where required by manufacturer and as per in Shop Drawing submittal approvals.>.

3.4 REPAIR

- A. Cut out and replace terrazzo areas that evidence lack of bond with substrate. Cut out terrazzo areas in panels defined by strips and replace to match adjacent terrazzo, or repair panels according to NTMA's written recommendations, as approved by Architect.

3.5 CLEANING AND PROTECTION

- A. Cleaning:
 - 1. Remove grinding dust from installation and adjacent areas.
 - 2. Wash surfaces with cleaner according to NTMA's written recommendations and manufacturer's written instructions; rinse surfaces with water and allow them to dry thoroughly.
- B. Sealing:
 - 1. Seal surfaces according to NTMA's written recommendations.
 - 2. Apply sealer according to sealer manufacturer's written instructions.
- C. Protection: Provide final protection and maintain conditions, in a manner acceptable to Installer, that ensure that terrazzo is without damage or deterioration at time of Substantial Completion.

END OF SECTION 09 66 23

SECTION 09 83 13 – ACOUSTICAL WALL TREATMENT

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes demountable acoustical wall panel systems and decorative, modular ~~fin- and slab~~ acoustical panel.
- B. Submittals:
1. Product Data: Required for custom panels, ~~suspension systems, adhesives~~ and accessories; including maintenance instructions.
 2. Samples: Color, finish and type required; 12 inches square of ~~ceiling panels, and 12 inches length of suspension systems.~~
 3. Three-dimensional image file proof for Owner acceptance, illustrating AP1 custom pattern in color(s) selected.
 4. Certificates: Indicating compliance with Performance Requirements.
- C. Project Requirements: Install panels in enclosed, weatherproof spaces maintained at approximately same humidity and temperature as planned for occupancy.

PART 2 - PRODUCTS

2.1 MANUFACTURED COMPONENTS

- A. Absorptive Acoustic Wall Panel: ASTM E 84 Class A sound-absorptive wall panels as follows:
1. AP1: Soelberg Muto Divider Acoustical Panel, 100% PET, polyester felt, custom pattern-
 - a. Size: Panel and overall installation sizes as shown.
 - b. NRC: 0.35 or greater.
 - c. Edge detail: As indicated; mfr standard where captured.
 - ~~d.~~ Thickness: 0.5-inch.
 - ~~e.~~ Installation: Per Manufacturer's instructions.
 - f. Color: Lamb's Ear.
- B. High Impact-Resistant/Tackable Wall Panels.
1. Basis of Design: Subject to performance requirements, provide H.I.R. #1 tackable wall panels as manufactured by Decoustics, a Sant-Gobain Company, or equal, as approved by the Architect.
 - a. Construction: Composite panel construction, having a medium density 6-7 pcf core and a high density 16-20 pcf, acoustically transparent veil (face membrane) with resin-hardened edges; fabricate with fully tailored corners (no darting).
 - b. Thickness: As indicated in Drawings; where not indicated, provide in depth meeting required acoustical performance.
 - c. Panel Sizes: Custom, as indicated in Drawings.
 - d. Edge Profile: As shown in Drawings.
 - e. Mounting: Z-clip plates and wall bars as shown in Drawings.
 - f. Surface Burning Characteristics:
 - g. Acoustic Performance: NRC 0.70 minimum.

C. Acoustical Panel Fabrics as Scheduled in Drawings and described below.

1. FA1: DesignTex Gamut.
 - a. Color: Stone, #3468-806.
 - b. Content: 100 % Polyester.
 - c. Width: 54 in.
 - d. Finish: Stain Repellent.
 - e. Durability: Exceeds 100,000 (Wyzenbeek) double rubs per ASTM D 4157.
2. FA2: Design Tex Gamut.
 - a. Color: Olive, #3468-503.
 - b. Content: 100 % Polyester.
 - c. Width: 54 in.
 - d. Finish: Stain Repellent.
 - e. Durability: Exceeds 100,000 (Wyzenbeek) double rubs per ASTM D 4157.
3. FA3: Design Tex Gamut.
 - a. Color: Nutmeg, #3468-104.
 - b. Content: 100 % Polyester.
 - c. Width: 54 in.
 - d. Finish: Stain Repellent.
 - e. Durability: Exceeds 100,000 (Wyzenbeek) double rubs per ASTM D 4157.
4. FA4: Design Tex Gamut.
 - a. Color: Cadet, #3468-409.
 - b. Content: 100 % Polyester.
 - c. Width: 54 in.
 - d. Finish: Stain Repellent.
 - e. Durability: Exceeds 100,000 (Wyzenbeek) double rubs per ASTM D 4157.
5. FA5: Design Tex Gamut.
 - a. Color: Pumice, #3468-802.
 - b. Content: 100 % Polyester.
 - c. Width: 54 in.
 - d. Finish: Stain Repellent.
 - e. Durability: Exceeds 100,000 (Wyzenbeek) double rubs per ASTM D 4157.
6. FA6: Design Tex Gamut.
 - a. Color: Cobblestone, #3648-811.
 - b. Content: 100 % Polyester.
 - c. Width: 54 in.
 - d. Finish: PFAS-free Stain Repellent.
 - e. Durability: Exceeds 100,000 (Wyzenbeek) double rubs per ASTM D 4157.
7. FA7: As selected by Architect / TBD.
8. FA8: Design Tex Gamut.
 - a. Color: Charcoal, #3083-803.
 - b. Content: 100 % Vinyl.
 - c. Width: 54 in.
 - d. Finish: PFAS-free Stain Repellent.
 - e. Durability: Exceeds 100,000 (Wyzenbeek) double rubs per ASTM D 4157.
 - e.

B-D. Accessories: Mechanical fasteners, clips, hangers, splines, and attachment components as required by manufacturer for installation required.

1. Attachment Clips: Interlocking Z cleats, Brooklyn Hardware or as recommended by manufacturer for warranty installation.
2. Adhesive: Contact adhesive as recommended by panel manufacturer for size and substrate indicated.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install wall treatments plumb, in configurations and alignment required, cut and fit to contours, and obstructions as required; provide tight joints, and concealed anchorage unless otherwise indicated; comply with manufacturer's instructions.

~~1. Unless otherwise indicated, arrange units symmetrically on each wall, do not use less than half size units.~~

~~2.1.~~ Install accessories and fasteners as recommended by manufacturer.

END OF SECTION

SECTION 09 91 23 - INTERIOR PAINTING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes surface preparation and the application of paint systems on ~~[interior substrates.]~~ [the following interior substrates:]
1. Concrete.
 2. Steel.
 3. Cast iron.
 4. Galvanized metal.
 5. Wood.
 6. Gypsum board.
 7. Plaster.
 8. PVC Piping.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product. Include preparation requirements and application instructions.
1. Include documentation indicating that product contains no urea formaldehyde in compliance with California Air Resources Board (CARB) regulations.
 2. For paints and coatings, including printed statement of VOC content.
- B. Samples for Verification: For each type of paint system and in each color and gloss of topcoat.
1. Submit Samples on rigid backing, **8 inches (200 mm)** square.
 2. Step coats on Samples to show each coat required for system.
 3. Label each coat of each Sample.
 4. Label each Sample for location and application area.
 5. Draw-Down Samples: Provide 3 "draw-down" samples of each specified sheen, color and finish.
 6. Prepare samples of wood for selection of tone and finish by Architect.
- C. Product List: For each product indicated, include the following:
1. Cross-reference to paint system and locations of application areas. Use seam designations indicated on Drawings and in schedules.
 2. VOC content.

1.3 MAINTENANCE MATERIAL SUBMITTALS

- A. Extra Materials: Furnish extra materials ~~[, from the same product run,]~~ that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
1. Paint: 5 percent, but not less than **1 gal. (3.8 L)** of each materials and color applied.
- B. Coating Maintenance Manual: Provide coating maintenance manual including area summary with finish schedule, area detail designating location where each product by color

2023005

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08.15.2025

10.28.2025BID SET – ADDENDUM 06

and finish was used, product data pages, care and cleaning instructions, touch-up procedures, and color samples of each color and finish used.

1.4 QUALITY ASSURANCE

- A. Mockups: Apply mockups of each paint system indicated and each color and finish selected to verify preliminary selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
1. Architect will select one surface to represent surfaces and conditions for application of each paint system specified in Part 3.
 - a. Vertical and Horizontal Surfaces: Provide samples of at least 100 sq. ft. (9 sq. m).
 - b. Other Items: Architect will designate items or areas required.
 2. Final approval of color selections will be based on mockups.
 - a. If preliminary color selections are not approved, apply additional mockups of additional colors selected by Architect at no added cost to Owner.
 3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockup unless Architect specifically approves such deviations in writing.
 4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Storage: Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F (7 deg C).
1. Maintain containers in clean condition, free of foreign materials and residue.
 2. Remove rags and waste from storage areas daily.

1.6 FIELD CONDITIONS

- A. Ambient Conditions:
1. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 deg F (10 and 35 deg C).
 2. Do not apply paints when relative humidity exceeds 85 percent; at temperatures less than 5 deg F (3 deg C) above the dew point, or to damp or wet surfaces.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by the following:
1. Dunn Edwards.
- B. Products: Subject to compliance with requirements, provide one of the products listed in "Interior Paint Schedule" article in Part 3 below for the paint category indicated or an acceptable comparable product.

2.2 PERFORMANCE REQUIREMENTS

- A. VOC limits for adhesives, sealants, fillers, primers, and coatings.
 - 1. Comply with California Green Building Standards Code Title 24, Part 11 (CALGreen) 5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants and caulks used on the project shall meet the requirements of the following standards:
 - a. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in [Tables 5.504.4.1](#) and [5.504.4.2](#). Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.
 - b. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94507.

- B. VOC Content: Provide products equal to or less than emission limits emanating from paints and coatings that do not result in building air concentrations greater than limits specified below when tested using Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emission from Indoor Sources Using Environmental Chambers Version 1.1 (2010), <http://www.cal-iaq.org/vocs/standard-method-for-voc-emissions-testing-and-evaluation>. Provide testing data current within 12 months preceding submission specified in Submittals article in Part 1 of this Section. Comply with the requirements South Coast Air Quality Management District (SCAQMD) Rule 1113 and 1168.
 - a. Emission Limits:
 - 1) Formaldehyde: 7.3 ppb.
 - 2) TVOC: 0.5 mg/cubic meter.
 - 3) Total Aldehydes: 43 ppb.

- C. Carcinogen Limits: Include in Submittal listing of measured carcinogens and reproductive toxins Identified by California 65, the U.S. National Toxicology Program (NTP), and the International Agency on Research on Cancer (ARC). Ensure any pollutants in paints and coatings not listed comply with the following:
 - 1. Air concentration levels no greater than 1/100 the Threshold Limit Value (TLV) industrial work place standard (Reference: American Conference of Governmental Industrial Hygienists, 6500 Glenway, Building D-7, Cincinnati, Ohio 45211-4436).
 - 2. Air concentration level not greater than 1/2 CA Chronic Reference Exposure Level (CREL) (<http://www.oehha.ca.gov/air/allchrels.html>) adopted by State of California Office of Environmental Health Hazard Assessment (OEHHA) as required per State of CA DPH's CDPH/EHLB/Standard Method V1.1 "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emission from Indoor Sources Using Environmental Chambers Version 1.1" dated February 2010, Table 4-1.

2.3 PAINT, GENERAL

- A. Material Compatibility:

1. Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
2. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.

B. Colors: As indicated in a color schedule.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
- B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
 1. Concrete: 12 percent.
 2. Wood: 15 percent.
 3. Gypsum Board: 12 percent.
 4. Plaster: 12 percent.
- C. Gypsum Board Substrates: Verify that finishing compound is sanded smooth.
- D. Plaster Substrates: Verify that plaster is fully cured.
- E. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers
- F. Proceed with coating application only after unsatisfactory conditions have been corrected.
 1. Application of coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations and MPI Architectural Painting Specifications Manual as applicable to substrates indicated.
- B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
 1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.
- C. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.
 1. Remove incompatible primers and re-prime substrate with compatible primers or apply the coat as required to produce paint systems indicated.

- D. Concrete Substrates: Remove release agents, curing compounds, efflorescence, and chalk. Do not paint surfaces if moisture content or alkalinity of surfaces to be painted exceeds that permitted in manufacturer's written instructions.
- E. Steel Substrates: Remove rust, loose mill scale, and shop primer, if any. Clean using methods recommended in writing by paint manufacturer but not less than the following:
 - 1. SSPC-SP 3, "Power Tool Cleaning."
- B. Shop-Primed Steel Substrates: Clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with same material as used for shop priming to comply with SSPC-PA 1 for touching up shop-primed areas.
- F. Galvanized-Metal Substrates: Remove grease and oil residue from galvanized sheet metal fabricated from coil stock by mechanical methods to produce clean, lightly etched surfaces that promote adhesion of subsequently-applied paints.
- G. Wood Substrates:
 - 1. Scrape and clean knots and apply coat of knot sealer before applying primer.
 - 2. Sand surfaces that will be exposed to view and dust off.
 - 3. Prime edges, ends, face, under sides, and back sides of wood.
 - 4. After priming, fill holes and imperfections in finish surfaces with putty or plastic wood filler. Sand smooth when dried.
- H. Cotton or Canvas Insulation Covered Substrates: Remove dust, dirt, and other foreign material that might impair bond of paints to substrates.
- I. PVC Piping: Remove dust, dirt, clear coat and other material that may impair bond of paint.

3.3 APPLICATION

- A. Apply paints according to manufacturer's written instructions and to recommendations in "MPI Manual."
 - 1. Use applicators and techniques suited for paint and substrate indicated.
 - 2. Paint surfaces behind movable equipment and furniture same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed equipment or furniture with prime coat only.
 - 3. Paint front and back sides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.
 - 4. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
 - 5. Primers specified in painting schedules may be omitted on items that are factory primed or factory finished if acceptable to topcoat manufacturers.
- B. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Tint undercoats to match color of topcoat but provide sufficient difference in shade of undercoats to distinguish each separate coat.
- C. If undercoats or other conditions show through topcoat, apply additional coats until cured film has uniform paint finish, color, and appearance.
- D. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.

- E. Painting Fire Suppression, Plumbing, HVAC, Electrical, Communication, and Electronic Safety and Security Work:
1. Paint the following work where exposed in equipment rooms:
 - a. Equipment, including panel boards.
 - b. Uninsulated metal piping.
 - c. Uninsulated plastic piping.
 - d. Pipe hangers and supports.
 - e. Metal conduit.
 - f. Plastic conduit.
 - g. Tanks that do not have factory-applied finishes.
 - h. Duct, equipment, and pipe insulation having cotton or canvas insulation covering or another paintable jacket material.
 2. Paint the following work where exposed in occupied spaces:
 - a. Equipment, including panel boards.
 - b. Uninsulated metal piping.
 - c. Uninsulated plastic piping.
 - d. Pipe hangers and supports.
 - e. Metal conduit.
 - f. Plastic conduit.
 - g. Duct, equipment, and pipe insulation having cotton or canvas insulation covering or another paintable jacket material.
 - h. Other items as directed by Architect.
 3. Paint portions of internal surfaces of metal ducts, without liner, behind air inlets and outlets that are visible from occupied spaces with paint complying with following requirements as labeled by approved testing laboratory to:
 - a. Have flame spread rating of 25 or less and smoke developed rating of 50 or less when tested in accordance with ASTM E 84.
 - b. Not flame, glow, smolder, or smoke when tested in accordance with ASTM C411 at rated temperatures not less than 250 degrees F.

3.4 FIELD QUALITY CONTROL

- A. Dry Film Thickness Testing: Owner may engage services of qualified testing and inspecting agency to inspect and test paint for dry film thickness.
1. Contractor shall touch up and restore painted surfaces damaged by testing.
 2. If test results show dry film thickness of applied paint does not comply with paint manufacturer's written recommendations, Contractor shall pay for testing and apply additional coats as needed to provide dry film thickness that complies with paint manufacturer's written recommendations.

3.5 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- B. After completing paint applications, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- C. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in undamaged condition.

- D. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.6 INTERIOR PAINT SCHEDULE

A. Concrete and Masonry Other Than Concrete Masonry Units:

1. Flat Sheen:
 - a. Dunn Edwards:
 - 1) Primer (Unpainted Surfaces): Ultra-Grip Select UGSL00.
 - 2) First and Second Coats: SpartaZero Zero VOC Flat Paint SZRO10.
2. Low-Luster, Satin, or Eggshell Sheen:
 - a. Dunn Edwards:
 - 1) Primer: Ultra-Grip Select Zero VOC Multi-Surface Primer UGSL00.
 - 2) First and Second Coats: SpartaWall Zero VOC Eggshell Paint SWLL30.
3. Semi-Gloss Sheen:
 - a. Dunn Edwards:
 - 1) Primer: Ultra-Grip Select Zero VOC Multi-Surface Primer UGSL00.
 - 2) First and Second Coats: SpartaWall Zero VOC Semi-Gloss Paint SWLL50.

B. Gypsum Board:

1. Flat Sheen:
 - a. Dunn Edwards:
 - 1) Primer: Vinylastic Select Zero VOC Wall Sealer VNSL00.
 - 2) First and Second Coats: Spartazero Zero VOC Flat Paint SZRO10.
2. Low-Luster, Satin, or Eggshell Sheen:
 - a. Dunn Edwards:
 - 1) Primer: Vinylastic Select Zero VOC Wall Sealer VNSL00.
 - 2) First and Second Coats: SpartaWall Zero VOC Eggshell SWLL30.
3. Semi-Gloss Sheen:
 - a. Dunn Edwards:
 - 1) Primer: Vinylastic Select Zero VOC Wall Sealer VNSL00.
 - 2) First and Second Coats: SpartaWall Zero VOC Semi-Gloss SWLL50.
4. Full-Gloss Sheen:
 - a. Dunn Edwards:
 - 1) Primer: Vinylastic Select Zero VOC Wall Sealer VNSL00.
 - 2) First and Second Coats: Spartashield 100% Acrylic Gloss.

C. Plaster:

1. Flat Sheen:
 - a. Dunn Edwards:
 - 1) Primer: Ultra-Grip Select Zero VOC Multi-Surface Primer UGSL00.
 - 2) First and Second Coats: Spartazero Zero VOC Flat Paint SZRO10.
2. Satin, Low-Luster, or Eggshell Sheen:
 - a. Dunn Edwards:
 - 1) Primer: Ultra-Grip Select Zero VOC Multi-Surface Primer UGSL00.
 - 2) First and Second Coats: Spartawall Zero VOC Eggshell SWLL30.
2. Semi-Gloss Sheen:
 - b. Dunn Edwards:
 - 1) Primer: Ultra-Grip Select Zero VOC Multi-Surface Primer UGSL00.
 - 2) First and Second Coats: Spartawall Zero VOC Semi-Gloss SWLL50.
3. Full Gloss Sheen:

2023005

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08.15.2025

10.28.2025BID SET – ADDENDUM 06

- a. Dunn Edwards:
 - 1) Primer: Ultra-Grip Select Zero VOC Multi-Surface Primer UGSL00.
 - 2) First and Second Coats: Spartashield 100% Acrylic Gloss SSHLL60.

- D. Woodwork and Hardboard Painted:
 - 1. Satin or Eggshell Sheen:
 - a. Dunn Edwards:
 - 1) Primer: Ultra-Grip Select Zero VOC Multi-Surface Primer UGSL00.
 - 2) First and Second Coats: Spartawall Zero VOC Eggshell SWLL30.
 - 2. Semi-Gloss Sheen:
 - a. Dunn Edwards:
 - 1) Primer: Ultra-Grip Select Zero VOC Multi-Surface Primer UGSL00.
 - 2) First and Second Coats: Spartawall Zero VOC Semi-Gloss SWLL50.
 - 3. Full Gloss Sheen:
 - a. Dunn Edwards:
 - 1) Primer: Ultra-Grip Select Zero VOC Multi-Surface Primer UGSL00.
 - 2) First and Second Coats: Spartashield 100% Acrylic Gloss SSSL60.

- E. Mechanical and Electrical Items: Use 3-coat system best suited to substrate, satin finish. Use heat-resistant materials where required.

- F. Ferrous Metal:
 - 1. Flat Sheen:
 - a. Dunn Edwards:
 - 1) Primer: Enduraprime W/B Rust Preventive Primer ENPR00.
 - 2) First and Second Coats: Spartazero Zero VOC Flat Paint SZRO10.
 - 2. Satin or Eggshell Sheen:
 - a. Dunn Edwards:
 - 1) Primer: Enduraprime W/B Rust Preventive Primer ENPR00.
 - 2) First and Second Coats: Spartawall Zero VOC Eggshell Paint SWLL30.
 - 3. Semi-Gloss Sheen:
 - a. Dunn Edwards:
 - 1) Primer: Enduraprime W/B Rust Preventive Primer ENPR00.
 - 2) First and Second Coats: Spartawall Zero VOC Semi-Gloss SWLL50.
 - 4. Gloss Sheen:
 - a. Dunn Edwards:
 - 1) Primer: Enduraprime W/B Rust Preventive Primer ENPR00.
 - 2) First and Second Coats: Spartashield 100% Acrylic Gloss SSSL60.

- G. Zinc-Coated (Galvanized) Metal:
 - 1. Flat Sheen:
 - b. Dunn Edwards:
 - 1) Primer: Ultra-Grip Select Zero VOC Multi-Surface Primer UGPR00.
 - 2) First and Second Coats: Spartazero Zero VOC Flat Paint SZRO10.
 - 2. Satin or Egg-Shell Sheen:
 - a. Dunn Edwards:
 - 1) Primer: Ultra-Grip Select Zero VOC Multi-Surface Primer UGPR00.
 - 2) First and Second Coats: Spartawall Zero VOC Eggshell Paint SWLL30.
 - 3. Semi-Gloss Sheen:
 - a. Dunn Edwards:
 - 1) Primer: Ultra-Grip Select Zero VOC Multi-Surface Primer UGPR00.
 - 2) First and Second Coats: Spartawall Zero VOC Semi-Gloss SWLL50.
 - 4. Full-Gloss Sheen:

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025
10.28.2025

- a. Dunn Edwards:
 - 1) Primer: Ultra-Grip Select Zero VOC Multi-Surface Primer UGPR00.
 - 2) First and Second Coats: Spartashield 100% Acrylic Gloss SSSL60.

- H. Overhead Exposed Construction (Deck, Joists, Steel): Two coats flat dry fallout coating system to cover formulated for compatibility with all substrate by any paint manufacturer specified in this Section. Use 100 percent acrylic, flash-rust-resistance dryfall.
 - 1. Dunn Edwards: Aquafall Flat Dry Fall Paint AQUA10.

- I. Wood Fiber Acoustical Panels (Eggshell): One coat.
 - 1. Dunn Edwards: Aquafall Flat Dry Eggshell Paint AQUA30.

- J. Exposed PVC Piping:
 - 1. Dunn Edwards:
 - a. Primer: Ultra-Grip Select Zero VOC Multi-Surface Primer UGSL00.
 - b. First and Second Coats: Spartashield 100% Acrylic Gloss SSSL60.

3.7 PAINT COLOR AND GLOSS SCHEDULE

- A. Paint Colors: Using products approved for each paint system provide colors matching each of the following. Number designates product of Dunn-Edwards Paint unless otherwise specified; provide Eggshell unless otherwise indicated; Provide Semi-Gloss at Doors, Trim and Restrooms; Provide Flat at Ceilings.
 - 1. PT1: DEW 345 - White Fever; LRV 83.59.
 - 2. PT2: DET 467 - Harrison Rust.; LRV 15.7.
 - 3. PT3: DET 578 - Yankee Doodle; LRV 10.
 - 4. PT4: DE 6385 - Black Bean; LRV 7.
 - 5. PT5: DE 5509 - Organic Matter; LRV 32.
 - 6. PT6: DE 5933 - Winter Dusk; LRV45.
 - 7. PT7: DET 486 - Wildflower Honey; LRV 35.
 - ~~8. PT8: DE_TBD, LRV XX.~~
 - ~~9. PT9: DE_TBD, LRV XX.~~
 - ~~10. PT10: DE_TBD, LRV XX.~~

END OF SECTION 09 91 23

SECTION 10 11 00 – MARKERBOARDS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes requirements for wall mounted glass markerboards.

1.2 SUBMITTALS

- A. Product Data: Include instructions for use and maintenance.
- B. Shop Drawings: Show installation and mounting of glass markerboards, including accessories, indicate field measurements.
 1. Indicate size and configuration of boards required, include accessory components.
 2. Demonstrate coordination of backing and blocking in wall framing with accessories and mounting clips.
- C. Samples: Two of each finish and type, as directed by Architect; 12 inches square.

1.3 PROJECT CONDITIONS

- A. Field Measurements: As necessary for installation of boards as required.

1.4 WARRANTY

- A. Special Warranty: Written, signed by manufacturer; agree to replace glass markerboards that do not retain their original writing and erasing qualities, including chipping, break outs, cracking, or pitting, or are otherwise defective, for the lifetime of the installation.

PART 2 - PRODUCTS

2.1 MANUFACTURED COMPONENTS

- A. Wall Mounted Glass Markerboard: Basis of Design is Claridge Products Claridge Glass Wall-Mounted Markerboard.
 1. Glass: ¼-inch Low-Iron Ultra-Clear Magnetic Glass.
 2. Mounting: Manufacturer's standard Invisi-mount dual lock assembly.
- B. Fabricate boards to sizes shown in Drawings. Complete fabrication in factory, including application of trim and finishes; disassemble only as necessary for shipping and installation.
 1. Complete fabrication in factory, including application of trim and finishes; disassemble only as necessary for shipping and installation.
 2. Writing Surface Color: Brilliant White or as selected by Architect from manufacturer's standard color options.
 3. Modify and reinforce manufacturer's standard support system as necessary for board sizes and installations required.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025
10.28.2025

BID SET – ADDENDUM 06

- C. Accessories: For each board, provide:
1. Magnetic Microfiber Eraser Cloth: (2) Two 12-inch by 12-inch eraser cloths with magnet required.
 2. Magnetic Eraser: (2) 2-1/*-inch by 4 ½" erasers required; color as selected by Architect from manufacturer's options.
 3. Markers: Provide two (2) assorted marker four-packs.
 4. Magnets: Provide four (4) rare earth magnets for each board provided, Basis of Design is Calyx Rare Earth Magnets, 1.29 x 1.29 inches square, in standard color as selected by Architect.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install glass boards as required; plumb and true with surfaces of adjacent boards flush and aligned. Maintain perimeter edges straight, plumb and level.
1. Provide grounds, clips, backing materials, adhesives, brackets, anchors, trim and accessories necessary for installation as required.
- B. Verify that accessories required for each unit have been properly installed and that operating units function properly.
- C. Clean units in accordance with the manufacturer's instructions. Break-in glass marker boards only as recommended by the manufacturer.

END OF SECTION

SECTION 10 26 00 – WALL AND CORNER PROTECTION

PART 1 - GENERAL

1.1 SUMMARY

- A. Provide stainless steel corner guards and wall guards as indicated and as required for the Work.

1.2 SUBMITTALS

- A. Shop Drawings: Provide each profile and assembly type required complete with, mounting components and attachments.

1.3 ADMINISTRATIVE REQUIREMENTS

- A. Sequencing and Scheduling: Provide retainer assemblies for installation sequence recommended by manufacturer, and to avoid delay in Progress of the Work.

PART 2 - PRODUCTS

2.1 MANUFACTURED COMPONENTS

- A. Corner Guard CG1: Surface Mount, mechanically attached, Type 430 stainless steel, 16 gage, 4 satin finish, 3 or 3.50-inch equal length legs, profile for surface mounting in 0.625-inch GWB and as otherwise necessary for wall assembly types required.
 - 1. Acrovyn CO-8 and as necessary for details of wall framing, Pawling, InPro Corporation or approved products of other manufacturers as provided for substitutions in the Work.
- B. Wall Protection WP1: PVC and BPA-free engineered PETG, Acrovyn 4000 060N High-Impact Vinyl-Acrylic Sheets 0.040 inch thick.
 - 1. Color: As Scheduled.
 - 2. Sizes: As indicated in Drawings.

2.2 ACCESSORIES

- A. Wall Protection:
 - 1. Provide extruded aluminum trim components in the profile and configuration indicated as required for finishing of perimeter edges.
 - 2. Accessories: Extruded components for joining of panels, inside and outside corners, trimming of penetrations and openings and similar installation details. Provide color and texture to match wall covering.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install impact-resistant wall protection in locations indicated level, plumb, and true to line without distortions. Do not use materials with surface defects or characteristics that effect appearance or diminish performance and service life.
 - 1. Provide splices, mounting hardware, anchors, and other accessories required for a complete installation.
 - 2. Provide concealed attachment to supporting construction using adhesives, concealed mechanical anchors and other devices as necessary to withstand impact loads and conditions of service as required.
 - a. Locate component joints and splices where indicated, if not indicated provide in approved locations and utilize details standard with the manufacturer unless otherwise required.
- B. Verify that corner wall assembly has been reinforced with double studs, complies with corner guard manufacturer's recommendations and UL assembly requirements for fire rated assemblies for durable corner guard installation. Notify Contractor in writing of incorrectly framed assemblies.
- C. Install corner guard in sequence recommended by manufacturer; Provide toggle or expansion bolts, at least 0.25 inch in diameter, or other appropriate size and type of fastenings as recommended by manufacturer and required for UL listed assemblies for each specific type of installation and adjoining construction.
- D. Install corner guards plumb and flush to wall surface as indicated, and as recommended by manufacturer; anchor with concealed fasteners at not more than 16 inches center to center interval, unless otherwise acceptable.
 - 1. Fire Rated: Install as required for UL listing and to maintain required fire resistance.
 - 2. Provide continuous metal backing at changes in wall finish materials as indicated.

END OF SECTION

SECTION 10 28 13 – TOILET AND BATH ACCESSORIES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes accessory products for toilet rooms and wash areas.

1.2 SUBMITTALS

- A. Product Operation and Maintenance Data: Required for each toilet accessory.
- B. Samples: Finish for each type required; furnish actual units for review of design and operation when directed, approved samples may be incorporated into the Work.
- C. Shop Drawings: Field verified mounting Heights.

1.3 REGULATORY REQUIREMENTS

- A. Design and install accessories to comply with barrier free access requirements of the Americans with Disabilities Act Accessibility Guidelines and ANSI A117.1 requirements for barrier free facilities.
- B. Grab Bars and Supporting Construction: Capable of carrying loads as required by CBC Code Section 1607.7.2.

1.4 WARRANTY

- A. Manufacturer's written 5-year warranty against silver spoilage of mirrors, agreeing to replace any mirrors which develop visible defects within warranty period.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Subject to compliance with requirements, provide toilet accessories by Altadena Public Library System Standard (Bobrick Washroom Equipment, Inc.) products, unless noted otherwise.
 - 1. Provide products of same manufacturer for each type of accessory unit and for units exposed in same areas, unless otherwise acceptable.

2.2 MATERIALS

- A. Stainless Steel: AISI Type 302/304, with polished No. 4 finish, 22 gage (.034") minimum, unless otherwise indicated.

- B. Brass: ASTM B 19 flat products; ASTM B 16 rods, shapes, forgings, and flat products with finished edges; or ASTM B 30, castings.
- C. Sheet Steel: Cold-rolled, commercial quality ASTM A 366, 20-gage (0.40") minimum, unless otherwise indicated. Surface preparation and metal pretreatment as required for applied finish.
- D. Galvanized Steel Sheet: ASTM A 527, G60.
- E. Chromium Plating: Nickel and chromium electro-deposited on base metal, ASTM B 456, Type SC 2.
- F. Mirror Glass: 0.25-inch-thick laminated glass, electrolytically copper plated and protective organic coating.
- G. Galvanized Steel Mounting Devices: ASTM A 153, hot-dip galvanized after fabrication.
- H. Fasteners: Screws, bolts, and other devices of same material as accessory unit or of galvanized steel where concealed.

2.3 MATERIALS

- A. Stainless Steel: AISI Type 302/304, with polished No. 4 finish, 22 gage (.034") minimum, unless otherwise indicated.
- B. Brass: ASTM B 19 flat products; ASTM B 16 rods, shapes, forgings, and flat products with finished edges; or ASTM B 30, castings.
- C. Steel Sheet: ASTM A 1008/A 1008M, Designation CS (cold rolled, commercial steel), 0.0359-inch minimum nominal thickness.
- D. Galvanized Steel Sheet: ASTM A 653/A 653M, with G60 hot-dip zinc coating.
- E. Chrome Plating: ASTM B 456, Service Condition Number SC 2 (moderate service).
- F. Large Format Mirror: Silver coated mirror; product of GANA Mirror Division manufacturer member complying with ASTM C 1503 with copper-free backing, Guardian UltraMirror.
- G. Galvanized Steel Mounting Devices: ASTM A 153, hot dip galvanized after fabrication.
- H. Fasteners: Screws, bolts, and other devices of same material as accessory unit or of galvanized steel where concealed.

2.4 COMPONENTS

- A. Grab Bars: 18 gage stainless steel tube, 1.25-inch O.D. for concealed mounting, unless otherwise indicated, provide 1.5-inch clearance between wall surface and inside face of bar. Satin smooth finish, except non-slip in wet areas.
 - a. Provide Bobrick Grab Bars B-5806, in satin, non-slip finish with snap flange and in lengths required.

- B. Infant Changing Table: Comply with barrier free access requirements in both the closed and open in-use configurations. Require 5 pounds of force or less to open and use and otherwise comply with barrier free access requirements for use and operation including braille instructions for use. Provide vertical (short edge parallel to supporting wall) configuration unless otherwise indicated. Closed station shall be free of manufacturer markings.
 - 1. Basis of Design product is surface-mounted, stainless steel infant changing station KB300-SS ADA by Koala Corporation, Koala Bear Kare.
- C. Electric Hand Dryer: Basis of Design is Dyson Touch-Free Airblade V, HU02 Sprayed Nickel, anti-microbial finish, voltage as indicated.

2.5 FABRICATION

- A. Trademark: Concealed or otherwise unobtrusive stamped logo. Provide printed, waterproof label or a stamped nameplate, indicating manufacturer's name and product model number in concealed location.
- B. Unless otherwise indicated, fabricate units with tight seams and joints, exposed edges rolled.
 - 1. Hang doors or access panels with continuous stainless steel piano hinge.
- C. Locked Dispensing Units: Key alike for all accessories.
- D. Mirrors: Frame with 20 gage stainless steel channel with no.4 bright polish finish, miter corners. Provide plastic edge protection for glass.
 - 1. Backing and Support: 22 gage galvanized steel, full mirror size; rigid, tamperproof installation, prevent accumulation of moisture.
 - a. Filler: Non-absorptive, corrugated cardboard not acceptable.
 - 2. Hangers: galvanized steel with concealed tamperproof locking devices, exposed fasteners are not acceptable.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify openings for recessed units, location of blocking, frames, and supports; spacing of plumbing fixtures and toilet partitions that affect installation of accessories.
 - 1. Verify wall reinforcing has been coordinated for grab bars in the configurations required and capable of supporting concentrated load of 250 pounds and as necessary for compliance with regulatory requirements.
- B. Coordinate mounting locations and heights with other work to avoid interference and to assure proper operation and servicing of accessory units. Refer problems to Architect.

3.2 INSTALLATION

- A. Install units plumb and level, firmly anchored in locations and at heights indicated. Drill holes to correct size and application that is concealed by item.
 - 1. Recessed: Placed into openings and anchored into blocking or frames.
 - 2. Grab-Bars: Resist required loads and comply with manufacturer's recommendations.
- B. Mirrors: Tamperproof with special hanger, and anchors.

2023005	ALTADENA MAIN LIBRARY ALTADENA LIBRARY DISTRICT	08.15.2025 <u>10.28.2025</u>
	BID SET – <u>ADDENDUM 06</u>	

- C. Adjust toilet accessories for proper operation and verify that mechanisms and locks function smoothly. Replace damaged and defective items.
- D. Clean and polish all exposed surfaces after removing temporary labels and protective coatings.

3.3 ACCESSORIES SCHEDULE

A. Toilet and Bath Accessories Schedule: Provide Altadena Public Library System Standard (Bobrick Washroom Equipment, Inc. products), unless noted otherwise, as indicated:

1. All in One TP Dispenser and Seatcover and Disposal B-35745
2. Automatic soap dispenser B-824
3. Coat Hook - ASSA ABLOY Rockwood 802
4. Diaper Change - KB300-SS-ADA
5. Recessed Paper Towel Dispenser - B-359
6. Recessed Toilet Seat Cover Dispenser - B-301
7. Recessed Waste Receptacle B-43644
8. Sanitary Napkin Disposal - surface mount - B-254
9. Surface Mount Automatic PT Dispenser and Trash B-3979
10. Surface Mount TP Dispenser B-2840

~~A.~~

END OF SECTION

SECTION 12 52 19 – CUSTOM UPHOLSTERED SEATING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes requirements for custom upholstery for fixed seating.
- B. Related Sections:
 - 1. Section 06 40 00 Architectural Woodwork.

1.2 ADMINISTRATIVE REQUIREMENTS

- A. Prefabrication Meeting: Review shop drawings for bench seating and coordinate upholstery cushion modules and configuration for required fit and Velcro attachment to bench.

1.3 SUBMITTALS

- A. Product Data: Submit manufacturer's complete technical information demonstrating compliance with specified requirements, including maintenance instructions and precautions.
 - 1. Document upholstery compliance with State of California, Department of Consumer Affairs, Bureau of Home Furnishings Technical Bulletin 133 and UFAC Class 1 (NFPA 260A).
- B. Shop Drawings: Submit shop drawings indicating seat and back construction, seam location and construction and cushion attachment to seating.
 - 1. Coordinate with work of Section 06 40 00 for built in seating to receive upholstered cushions as work of this Section.
- C. Samples:
 - 1. Upholstery Fabric: Provide two 12 by 24-inch (nominal) pieces joined with 24-inch-long Blind stitch seam using thread and SPI as proposed for the Work.
 - 2. Foam Cushion Selection Samples: Demonstrate a range of density, firmness, resilience and support in foam cushioning for both seat and back cushions for final selection.
 - 3. Provide 24-inch section of full-size seat and back cushions in the configuration required and demonstrating construction methods and materials to be provided in the final work.
- D. Certificates: Document that upholstery complies with specified smoke development and flame spread requirements of this Section and complies with performance criteria of State of California, Department of Consumer Affairs, Bureau of Home Furnishings Technical Bulletin 133.
 - 1. Submit written certification of compliance of resilient filling materials with specified standards.

1.4 QUALIFICATIONS

- A. Upholstery Fabricator: A minimum of 5 years successful experience with work commercial upholstery work similar in scope and complexity to that required for the Project and having adequate production facilities to conform to Project requirements.

1.5 MAINTENANCE

- A. Maintenance Overstock: Furnish additional 5% of fabric for Owner maintenance. Deliver as directed.

PART 2 - PRODUCTS

2.1 SYSTEM DESCRIPTION

- A. Design Requirements: Fabricate upholstery to dimensions and configuration required for seat backs and seat cushions using materials and construction techniques complying with Upholstered Furniture Action Council, and mechanical, safety and performance standards of ANSI/BIFMA X5.4 and Project requirements.
 - 1. Seat Cushions: Provide Dacron wrapping, minimum 0.5-inch thickness and fabricated of high resiliency, high density foam.
 - 2. Back Cushions: Fabric casing with four horizontal sag-resistant chambers with blown in Dacron/polyester filling.
 - 3. Provide concealed zippered closure for all cushions allowing removal of covering and access to cushion interior.
 - 4. Provide approved concealed attachment of cushions to bench seating and back that firmly holds cushions in place but allows for removal for cleaning and, repair and access to ballasts concealed within the banquette.
- B. Performance Requirements: Provide completed upholstery complying with the following.
 - 1. Comply with State of California, Department of Consumer Affairs, Bureau of Home Furnishings Technical Information Bulletin 117 flame smolder resistance of upholstered cushions and pass UFAC Class 1 (NFPA 260A).
 - 2. Fabric Abrasion Resistance: 45,000 cycles, Heavy Duty Commercial rating.

2.2 MATERIALS AND FABRICATION

- A. Fabricate upholstery to dimension, configurations, and details indicated on drawings.
- B. Foam Cushion: Combustion modified type urethane foam 2.5-pound density wrapped with Dacron "Fibercoil" slip sheet.
 - 1. Comply with State of California, Department of Consumer Affairs, Bureau of Home Furnishings "Technical Information Bulletin 117" February 1975, for flame retardance of cushion.

C. Upholstery: Class A (ASTM E 84), UFAC Class 1 (NFPA 260A)

- ~~C.1. Fabric: As Selected by Architect.~~
- ~~1. FA1: DesignTex Gamut.~~
 - ~~a. Color: Stone, #3468-806.~~
 - ~~b. Content: 100 % Polyester.~~
 - ~~c. Width: 54 in.~~

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025
10.28.2025

BID SET – ADDENDUM 06

- d. ~~Finish: Stain Repellent.~~
- e. ~~Durability: Exceeds 100,000 (Wyzenbeek) double rubs per ASTM D 4157.~~
- 2. ~~FA2: Design Tex Gamut.~~
 - a. ~~Color: Olive, #3468-503.~~
 - b. ~~Content: 100 % Polyester.~~
 - c. ~~Width: 54 in.~~
 - d. ~~Finish: Stain Repellent.~~
 - e. ~~Durability: Exceeds 100,000 (Wyzenbeek) double rubs per ASTM D 4157.~~
- 3. ~~FA3: Design Tex Gamut.~~
 - a. ~~Color: #3468.~~
 - b. ~~Content: 100 % Polyester.~~
 - c. ~~Width: 54 in.~~
 - d. ~~Finish: Stain Repellent.~~
 - e. ~~Durability: Exceeds 100,000 (Wyzenbeek) double rubs per ASTM D 4157.~~
- 4. ~~FA4: Design Tex Gamut.~~
 - a. ~~Color: Cadet, #3468-409.~~
 - b. ~~Content: 100 % Polyester.~~
 - c. ~~Width: 54 in.~~
 - d. ~~Finish: Stain Repellent.~~
 - e. ~~Durability: Exceeds 100,000 (Wyzenbeek) double rubs per ASTM D 4157.~~
- 5. ~~FA5: Design Tex Gamut.~~
 - a. ~~Color: , #3468.~~
 - b. ~~Content: 100 % Polyester.~~
 - c. ~~Width: 54 in.~~
 - d. ~~Finish: Stain Repellent.~~
 - e. ~~Durability: Exceeds 100,000 (Wyzenbeek) double rubs per ASTM D 4157.~~

D. Seat Cushion Construction: Provide attached, full boxed cushion with welted seams. Construct welts using 5/32-inch diameter cord; 4-inch thickness as indicated on drawings.

~~E. Back Cushion Construction: Provide attached, full boxed cushion appearance with welted seams. Construct welts using 5/32" dia. Cord; 2-inch thickness as indicated on drawings.~~

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Inspect seating for conditions for damage or deterioration and correct unacceptable conditions as required.
 - 1. Clean seating to receive upholstered cushions immediately prior to installation.
 - 2. Prepare installation substrate as necessary for cushion attachment using the approved means and materials.
- B. Install upholstery to comply with System Description requirements and recommendations of the upholstery fabricator and fabric manufacturer. Ensure correct orientation of upholstery pattern and series cushion configuration and construction.
 - 1. Attach cushions to seating supports to comply with System Description requirements.
- C. Provide temporary covers or other approved protection to prevent damage to cushions during completion of construction operations. Remove protection at final acceptance.

END OF SECTION

2023005 ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025
10.28.2025

BID SET – ADDENDUM 06

SECTION 26 04 25 - DISTRIBUTION SWITCHBOARDS

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Main and distribution switchboard.

1.2 RELATED SECTIONS

- A. Section - Painting.

1.3 REFERENCES

- A. ANSI/CEC - California Electrical Code.
- B. NEMA AB 1 - Molded Case Circuit Breakers and Molded Case Switches.
- C. NEMA PB 2 - Deadfront Distribution Switchboards.
- D. NEMA PB 2.1 - Proper Handling, Installation, Operation and Maintenance of Deadfront Switchboards Rated 600 Volts or Less.

1.4 SUBMITTALS

- A. Submit under provisions of Division 01.
- B. Shop Drawings: Indicate front and side views of enclosures with overall dimensions shown; conduit entrance locations and requirements; nameplate legends; size and number of bus bars per phase, neutral, and ground.
- C. Product Data: Provide electrical characteristics including voltage, frame size and trip ratings, fault current withstand ratings of all equipment and components.
- D. Test Reports: Indicate results of factory production tests.

1.5 OPERATION AND MAINTENANCE DATA

- A. Submit under provisions of Division 01.
- B. Maintenance Data: Include spare parts data listing; source and current prices of replacement parts and supplies; and recommended maintenance procedures and intervals.

1.6 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing Products specified in this Section with minimum five years documented experience.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Accept switchboards on site. Inspect for damage.
- B. Store in a clean, dry space. Maintain factory wrapping or provide an additional heavy canvas or heavy plastic cover to protect units from dirt, water, construction debris, and traffic.
- C. Handle in accordance with NEMA PB 2.1 and manufacturer's written instructions. Lift only with lugs provided for the purpose. Handle carefully to avoid damage to switchboard internal components, enclosure, and finish.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Square D, unless noted otherwise.
- B. Equal by Eaton Cutler-Hammer or General Electric.

2.2 SWITCHBOARD

- A. Description: NEMA PB 2 with electrical ratings and configurations as indicated.
- B. Main Section Devices: Panel mounted.
- C. Distribution Section Devices: Panel mounted.
- D. Bus Material: Copper, standard size.
- E. Bus Connections: Bolted, accessible from front for maintenance.
- F. Ground Bus: Extend length of switchboard.
- G. Molded Case Circuit Breakers: NEMA AB 1, integral thermal and instantaneous magnetic trip in each pole. Provide circuit breakers UL listed as Type HACR for air conditioning equipment branch circuits.
- H. Line and Load Terminations: Accessible from the front only of the switchboard, suitable for the conductor materials and sizes indicated.
- I. Future Provisions: Fully equip spaces for future devices with bussing and bus connections, suitably insulated and braced for short circuit currents. Provide continuous current rating as indicated.
- J. Enclosure: Type 1 - General Purpose.
 - 1. Finish: Manufacturer's standard light gray enamel over external surfaces. Coat internal surfaces with minimum one coat corrosion-resisting paint, or plate with cadmium or zinc.

- K. Accessories: A new printed single line diagram of the entire electrical distribution system as shown on the single line diagram shall be framed, plastic laminated, and mounted in the switchboard electrical room. The diagram shall be a permanent black on white mylar at least 30" x 42" in size, professionally printed and framed. Provide two (2) extra mylar drawings to Architect.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install switchboard in locations shown on Drawings, in accordance with manufacturer's written instructions and NEMA PB 2.1.
- B. Tighten accessible bus connections and mechanical fasteners after placing switchboard.

3.2 FIELD QUALITY CONTROL

- A. Inspect completed installation for physical damage, proper alignment, anchorage, and grounding.
- B. Measure insulation resistance of each bus section phase to phase and phase to ground for one minute each, at test voltage of 1000 volts; minimum acceptable value for insulation resistance is 2 megaohms.
- C. Check tightness of accessible bolted bus joints using calibrated torque wrench. Tightness shall be in accordance with manufacturer's recommended values.

3.3 ADJUSTING

- A. Adjust all operating mechanisms for free mechanical movement.
- B. Tighten bolted bus connections in accordance with manufacturer's instructions.

3.4 CLEANING

- A. Touch up scratched or marred surfaces to match original finish.

END OF SECTION

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SECTION 27 41 16 – INTEGRATED AUDIO-VIDEO SYSTEMS AND EQUIPMENT

Table of Contents for this Section	Page
PART 1 - GENERAL	2
1.1. Summary	2
1.2. Definitions	2
1.3. Base System Description	2
1.4. Alternate(s) Description	5
1.5. Regulatory Requirements	5
1.6. Related Work	5
1.7. References	6
1.8. Project/Site Conditions	6
1.9. Requirements Specific to This Project.....	6
1.10. Submittals	7
1.11. Warranty	11
PART 2 - PRODUCTS	12
2.1. General	12
2.2. Device Plates	13
2.3. Fixed Installation Cable	14
2.4. Pre-Manufactured and Adapter Cables	16
2.5. Connectors	16
2.6. Racks and Rack Accessories	17
PART 3 - EXECUTION	18
3.1. Preparation	18
3.2. Installation.....	18
3.3. Quality Control and Installation Verification	21
3.4. Contract Closeout	24
SECTION 27 41 16.01 - APPENDICES FOR SECTION 27 41 16	25
APPENDIX A - DEMARCATION LIST	25
APPENDIX B - AV WEEKLY STATUS REPORT	25
APPENDIX C - AV ROOM READY CONDITIONS.....	25
APPENDIX D - STAGING AND VERIFICATION NOTIFICATION.....	25
APPENDIX E - CONTROL SYSTEM	25
APPENDIX F - SUBMITTAL DRAWING CHECKLIST	25
APPENDIX G - EQUIPMENT LIST SPREADSHEET	25

PART 1 - GENERAL

1.1. SUMMARY

- A. The work covered under this section consists of furnishing all labor, material and services to install a complete audiovisual system as shown on the drawings and in these specifications.
- B. The Integrator shall do all work which is shown on the drawings, mentioned in the specifications or reasonably implied as necessary to complete the contract for this project.
- C. The Integrator is responsible for assessing the conditions of the job site, and facilities for delivering, storing, placing, handling and installing of materials and equipment.
- D. The Integrator is responsible for assessing the conditions of the job site including the radio frequency (RF) environment for all deployed wireless AV technologies.
- E. The Integrator is responsible for assessing the conditions of the job site including the RF environment for the wireless AV Ethernet network for all AV systems.
- F. Failure to assess the site conditions or failure to examine any and all construction documents will in no way relieve the Integrator from the requirement of furnishing all materials and equipment, or performing any work, that may be required to complete the work in accordance with the construction documents.
- G. Neglect of above requirements will not be accepted as reason for delay in the work or additional compensation.
- H. The Scope includes but is not limited to:
 - 1. Equipment and installation labor, including installation of Owner Furnished Equipment (OFE) as noted on the drawings, for a fully functional system
 - 2. Miscellaneous components, hardware, interconnections and terminations required for proper operation of all systems
 - 3. All components or systems shown on the drawings, referenced in these specifications, or both
 - 4. Verification of accuracy and completeness of equipment lists, dimensions, mounting details, and equipment compatibility
 - 5. Coordination with Owner of AV connectivity to Owner networks
 - 6. Accurate documentation of the equipment and installation
 - 7. Warranty as defined in Paragraph 1.11
 - 8. Test equipment, tools, ladders, lifts and scaffolding required for installation
 - 9. Daily and final cleanup of debris caused by installation
 - 10. Owner training – 10 hours minimum.

1.2. DEFINITIONS

- A. Unless otherwise noted, the term Owner shall refer to Altadena Library District
- B. Unless otherwise noted, the term Architect shall refer to Anderson Brule Architects
- C. Unless otherwise noted, the term General Contractor shall refer to Contractor of Record
- D. Unless otherwise noted, the term Consultant shall refer to Waveguide LLC
- E. Unless otherwise noted, the term Integrator shall refer to the AV Systems Integrator

1.3. BASE SYSTEM DESCRIPTION

- A. Altadena Library District is renovating the existing Main Library in Altadena, CA. It will include interior space reconfigurations, replacement of aged building infrastructure, and modernized AV spaces with newer technology.
- B. Community Room
 - 1. Use Cases
 - a. Presentations
 - b. Community events (Storytimes, screenings, key speaker events)
 - c. Musical events (Acoustic Concerts (orchestral, string, wind), Electric Concerts)

2023005	ALTADENA MAIN LIBRARY ALTADENA LIBRARY DISTRICT	08.15.2025 <u>10.28.2025</u>
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- d. Board meetings (public Board of Trustees (hybrid) meetings, public meetings)
- e. Panel discussions
- f. Storytime
- g. Screening
- h. Banquet/dining
- 2. Room Modes
 - a. Presentations
 - b. Board Meetings
- 3. Display
 - a. Ceiling mounted projector
 - b. Motorized projection screen
- 4. Sources
 - a. Multiple floor AV connectivity centers
 - 1) Lectern positions
 - 2) Board member dais
 - 3) Back of house technician position
 - b. Wireless presentation appliance
 - c. DVD player
 - d. OFE room computer
 - 1) Lectern position
 - 2) AV equipment rack
- 5. Video streaming
 - a. PTZ cameras with presets
 - b. Video capture via Youtube
- 6. Audio
 - a. Ceiling speakers
 - b. Wired and wireless microphone systems
- 7. Control
 - a. Touch panel at multiple locations
 - 1) Wall mount
 - 2) Lectern position
 - 3) Back-of-house technician position
 - b. Provide power shutdown during an emergency fire event. Coordinate with Fire Alarm contractor to provide a dry contact relay at the AV equipment rack to activate audio amplifier shutdown
- C. Staff meeting room
 - 1. Use cases
 - a. Staff meetings
 - b. Collaboration
 - c. Web conferences
 - 2. Display
 - a. Microsoft Surface Hub Display
 - 1) Includes camera, microphone, speakers
 - b. Table top connectivity center
 - 1) HDMI
 - 2) Power and USH charging
 - 3. Sources
 - a. Wireless presentation through MS Surface Hub Display
 - 4. Audio
 - a. Speakers in MS Surface Hub Display
 - 5. Control
 - a. Handheld remote
- D. Tele Meeting Room

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025

BID SET – ADDENDUM 06

1. Use cases
 - a. Meetings (by Public users)
 - b. Interviews
 - c. Collaboration
2. Display
 - a. Flat panel display with speakers
3. Sources
 - a. Wall mounted input panel
 - 1) HDMI
 - 2) USB return for camera
 - b. Wireless presentation appliance
4. Audio
 - a. Speakers in display for web conference audio
5. Conferencing
 - a. USB camera with microphone for web conferencing
6. Control
 - a. Wall mounted button panel
- E. Gaming room
 1. Use cases
 - a. Gaming
 - b. Additional tele meeting room
 2. Display
 - a. Flat panel display with speakers
 3. Sources
 - a. Wall mounted input panel
 - 1) HDMI
 - 2) USB return for camera
 - b. Wall mounted input panel for gaming console
 - c. Wireless presentation appliance
 4. Audio
 - a. Speakers in display
 5. Conferencing
 - a. USB camera with microphone for web conferencing
 6. Control
 - a. Wall mounted button panel
- F. Open work area
 1. Use cases
 - a. All-hands meetings
 - b. Web conferences
 - c. Feed from Community Room
 2. Display
 - a. Flat panel display with speakers
 3. Sources
 - a. OFE room computer
 4. Audio
 - a. Speakers in display for web conference audio
 5. Conferencing
 - a. USB camera with microphone for web conferencing
- G. Digital signage
 1. Locations
 - a. Lower level lobby at laptop checkout (Room 100)
 - b. Main level lobby (Room 322)
 - c. Children's Area (Room 303)

- d. Adults' Area (Room 304)
- e. Mid-level Lobby (Room 200)
- f. Young Adults (Room 307)
- 2. Display
 - a. Flat panel display
- 3. Sources
 - a. OFE small form-factor computer

1.4. ALTERNATE(S) DESCRIPTION

- A. None

1.5. REGULATORY REQUIREMENTS

- A. All equipment and installations under this contract shall conform to the following:
 - 1. ANSI/NFPA 70 National Electrical Code.
 - 2. ANSI/IEEE C2 National Electrical Safety Code TIA/EIA Standards 568 A (including TSB 67), 569 and 607.
 - 3. IEEE/ANSI 142 1982 Recommended Practice for Grounding of Industrial and Commercial Power Systems.
- B. Integrator shall be solely responsible to possess or obtain all permits and certificates required to complete this project.
- C. Integrator and employees shall perform all work in compliance with current Occupational Safety and Health Administration (OSHA) guidelines and regulations.

1.6. RELATED WORK

- A. The Integrator shall coordinate with other trades and interface with other base building systems to ensure proper integration and operation of AV systems. The Integrator should request from the Owner, General Contractor or Architect complete project design drawings and specifications to coordinate their work with the work of others.
- B. The Integrator shall coordinate with the General Contractor to establish AV room ready dates. See Appendix C.
- C. A representative of the Integrator shall attend the weekly construction meeting at the job site. This representative shall have the authority to make commitments on behalf of the Integrator.
- D. Refer to Appendix A for specific system demarcations between the Integrator and other trades.
- E. AV system and control system software.
 - 1. Integrator shall design all graphical user interface (GUI) design for all AV control touch screens for the AV systems noted in these specifications and on the drawings. The Integrator shall review these designs with the Owner and Consultant for approval.
 - 2. Integrator shall create all customized code for all control systems noted in these specifications and on the drawings.
 - 3. Integrator shall load software and configuration files (provided by others) into all programmable AV and control system devices.
 - 4. Integrator shall set up and configure all programmable AV and control system devices as specified in Paragraph 3.2 and as directed by the Consultant.

1.7. REFERENCES

- A. InfoComm International; AV Design Reference Manual, copyright 2006
<http://www.infocomm.org/cps/rde/xchg/SID-DA7A8DE5-23A2EBBE/infocomm/hs.xsl/35545.htm>
- B. Guide for Performing a Wireless Site Survey 2.4 GHz IEEE 802.11g/802.11b/802.15.4 by AMX <http://trade.amx.com/assets/whitePapers/AMX.Wireless.Site.Survey.Guide.pdf>
- C. Guide to Graphical User Interface Design - 68-1930-01 Rev. C by Extron
http://www.extron.com/download/files/guides/gui_standards_guide_C.pdf
- D. Dashboard for Controls Design Reference by InfoComm International
[https://www.infocomm.org/fileStore/Dashboard for Controls Design Reference.pdf](https://www.infocomm.org/fileStore/Dashboard%20for%20Controls%20Design%20Reference.pdf)
- E. Dashboard for Controls Design Guide by InfoComm International
[https://www.infocomm.org/fileStore/Dashboard for Controls Design Guide.pdf](https://www.infocomm.org/fileStore/Dashboard%20for%20Controls%20Design%20Guide.pdf)

1.8. PROJECT/SITE CONDITIONS

- A. Refer to Division 1 of the general construction documents for this project for coordination with other trades on this project.
- B. Coordinate all access to the site at all times with the General Contractor and the Owner.
- C. Adhere to the safety standards established by the General Contractor and the Owner while performing work on site.
- D. All employees of the Integrator shall wear identification clearly indicating the Integrator's company while on site.
- E. All employees of the Integrator shall comply with rules and policies established by the Owner.
- F. All vehicles of the Integrator or employees shall be parked in areas designated by the Owner.
- G. Store equipment in a manner that will not interfere with others. Coordinate secured storage at the site with the General Contractor and the Owner.
- H. Do not install equipment in any space not designated by the General Contractor as "AV room ready". See Appendix C.
- I. Protect all work and equipment installed under this contract from damage by others.
- J. Protect all existing work in place by others from damage by the Integrator, the Integrator's agents/sub Integrators, or any employees, agents or sub Integrators of the Integrators vendors. The Integrator will be solely responsible for any/all damage to work in place by others.
- K. Keep areas around and inside of each piece of equipment and each rack free from dust, dirt and debris throughout the project. Equipment that is not properly maintained during installation shall be replaced at no cost to the Owner before final payment is made to the Integrator.
- L. All equipment and materials stored at the Integrators facility(s) or stored and/or installed at the project site will remain the property of the Integrator unless ownership is specifically assumed in writing by the Owner. The Integrator shall be solely responsible for the protection of all equipment from damage, theft or vandalism regardless of cause, until ownership is specifically assumed in writing by the Owner or the work described herein is accepted by the Owner at the time of official turnover.

1.9. REQUIREMENTS SPECIFIC TO THIS PROJECT

- A. NONE.

2023005 ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

BID SET – ADDENDUM 06

08.15.2025
10.28.2025

1.10.

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A. General

1. Unless directed otherwise in writing by the Consultant, the Integrator is not authorized to proceed with the acquisition, assembly or installation of any systems or components until the submittals outlined in this Section have been approved by the Consultant. Any acquisition, assembly or installation of any systems or components without the Consultant's approval will be subject to removal at the Integrator's expense. Submittals requiring approval prior to acquisition, assembly or installation include:
 - a. Project Plan Submittal (See Paragraph 1.10.D)
 - b. Long Lead Time Equipment Submittal (See Paragraph 1.10.E)
 - c. Full Project Submittal (See Paragraph 1.10.G)
2. A submittal package consists of all items (forms, lists, drawings, etc.) specified for that submittal.
3. All specified items for each submittal shall be provided at the same time. Partial or incomplete submittals will be rejected.
4. The Integrator shall coordinate with the Consultant prior to the delivery of each Submittal to obtain the proper quantities of submittals to each recipient.
5. Refer to Paragraph 1.10.B for deadlines for each submittal.
6. Product cut sheets shall not be submitted for products listed in Part 2 or Appendix G of this specification.
7. Product cut sheets shall be submitted for all products provided by the Integrator that are not listed in Part 2 or that are indicated as "Equal as Approved" or "Or Equal" in Appendix G of this specification.
8. Product cut sheets shall accompany all requests for product substitutions for any reason.
9. Provide samples of each label type to be used. See Paragraph 3.2.D.
10. Architect will notify Integrator if any sample products are required for fit or finish coordination. Samples shall be provided by the Integrator at no additional cost to the project, Consultant or Architect.
11. The Integrator's drawings shall conform to the following.
 - a. Fonts must be legible (suggested minimum 1/16" on 11x17 prints)
 - b. CAD files must be exportable to Autodesk Drawing (.dwg) format.
 - c. AV plans for indicating AV equipment layouts shall be scaled to be not less 1/8" = 1'-0". Details for particular equipment mounting shall be scaled to be not less than 1/4" = 1'-0".

B. Anticipated Project Milestone and Submittal Dates

1. Below are anticipated project milestones target dates. Note that while milestones may vary due to site or other conditions the anticipated first use date will not change without written approval of the Owner.

MILESTONE / DELIVERABLE	CALENDAR DAYS OR SPECIFIC DATE	SPECIFICATION PARAGRAPH REFERENCE
Weekly Status Reports	Start 10 days after Letter of Intent (every week until Contract Closeout)	1.10.C
Project Plan Submittal	30 days after Letter of Intent	1.10.D

2023005	ALTADENA MAIN LIBRARY ALTADENA LIBRARY DISTRICT	08.15.2025 <u>10.28.2025</u>
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Long Lead Time Equipment Submittal	30 days after Letter of Intent	1.10.D
Full Project Submittal	TBD by Integrator	1.10.G
Cross Connect Submittal	Submit with Full Project Submittal	1.10.H
Shop Staging	TBD by Integrator	3.3.D
Full Verification	10 days prior to Final Verification	3.3.F
Final Verification	10 days prior to First-Use	3.3.G
Training	10 days prior to First-Use	3.3.H
First Use	Per project schedule	-
Contract Closeout	Per project schedule	3.4
C. Weekly Status Reports		
1.	The Integrator shall provide weekly status reports using the Consultant's "Weekly Status Report" form noted in Appendix B (or equivalent form approved by the Consultant).	
2.	Weekly status reports shall be provided at least one business day prior to each weekly Owner's meeting from the date of the Letter of Intent to Award until the Contract Closeout.	
3.	These reports shall be provided to the Architect, General Contractor and Consultant via email.	
4.	The Weekly Status Report shall not be used as an official means of communications. It does not replace any part of a submittal, request for information, proposed change order, report of field conditions, schedule issues, etc. No official response will be given to the Weekly Status Report.	
5.	As part of the Weekly Status Report, Integrator shall keep project team apprised of the status of equipment shipping in the form of Appendix G. Integrator shall include information about lead times and any relevant tracking information.	
D. Project Plan Submittal		
1.	Submit project team list. Include names and all contact information (email address, cell phone, etc.) for the Integrator's Project Manager, Lead Engineer, Lead Installer and any other pertinent team members. Include names and contact information for all subcontractors.	
2.	Submit project schedule in both Portable Document Format (.pdf) and native file formats.	
a.	Include all milestones listed in Paragraph 1.10.B above as well as other significant milestones, activities or deadlines by others that may impact the project schedule.	
b.	Integrator shall revise and keep the schedule current and accurate throughout installation and shall publish updated schedules as required	
c.	Include shop rack assembly, onsite cable installation, all staging, onsite equipment installation and all Consultant verifications.	

- d. Schedule shall be coordinated with the general construction schedule and shall include the General Contactor's anticipated AV room ready dates and completion date of lighting presets programming where applicable - Appendix C.
 - e. Schedule shall meet the anticipated first use of the Owner with adequate time allowed for setup, verification and punchlist correction of all systems.
 - f. Indicate the sequence and anticipated dates of acquisition of major equipment and installation milestones.
 - g. Indicate the sequence of installation and completion by room and/or system.
 - h. Work shall not commence without the approval of the General Contractor and the Owner.
- E. Long Lead Time Equipment Submittal
- 1. Submit a list of long lead items.
 - a. These are items that must be ordered before Full Project Submittals are due to not adversely impact the project schedule.
 - b. Do not include equipment that will be ordered later.
 - c. This list shall be in the format of the equipment list noted in Appendix G.
 - 2. The Integrator shall use reasonable judgment as to which products are legitimate long lead items.
 - 3. Failure to include an item that may require long lead time shall not relieve the Integrator of the responsibility of furnishing said item to meet the project schedule.
- F. Sample Drawing Submittal - None
- 1. Equipment list in the form of Appendix G. Provide in Portable Document Format (.pdf).
 - 2. The Integrator shall submit sample drawings in Portable Document Format (.pdf) for rooms X, Y and Z for approval of the Integrator's drawing style and detail methodology.
 - 3. Include all information required in Paragraph 1.10.A. and Appendix F.
- G. Full Project Submittal
- 1. Equipment list in the form of Appendix G. Provide in Portable Document Format (.pdf).
 - 2. Shop drawings
 - a. All sheets shall be the same size, oriented the same direction, and shall be bound, not folded. Provide electronic copies in Portable Document Format (.pdf). Verify hard copy quantity with Consultant prior to submittal.
 - b. All information required in Paragraph 1.10.A. and Appendix F shall be included
 - c. All information and corrections from the sample drawing review shall be included.
 - 3. Product cut sheets and samples as specified in Paragraph 1.10.A. Provide in Portable Document Format (.pdf).
- H. Cross Connect Submittal
- 1. Submit a cross connect in Excel (.xlsx) format requesting voice and data coordination information from the Owner or Using Agency. Integrator shall supply unique equipment reference corresponding to approved shop drawings, make, model, serial number, MAC address, etc. and will request IP addressing and SIP registration information for applicable equipment.
 - 2. The Consultant will provide a template to be used for this project for this submittal.
- I. User Interface Submittal
- 1. Submit a report describing the user interfaces for each system.
 - 2. Include all touch panel screens with basic functional descriptions of graphical user interface and system behaviors.

3. Provide keypad layouts, including engraving, with functional descriptions of interface feedback and system behaviors.
 4. Submittal shall be in accordance with Appendix E.
- J. AV Device Finish Schedule
1. Submit a list of all AV products visible to user prior to purchasing with color and finish options, including products where finish is specified or implied in the specifications, drawings, or in Appendix G.
 2. Colors and finished must be approved by owner/architect prior to purchasing equipment.
- K. Shop Staging Verification Notification
1. Three days prior to each shop staging verification by the Consultant listed in Paragraph 3.3.D, the Integrator shall provide notification to the Consultant stating that all rooms listed in Paragraph 3.3.D for each staging session meet all conditions listed in Paragraph 3.3.D.
 2. Notification shall be in accordance with Appendix D.
- L. Onsite Staging Verification Notification - NONE
1. Three days prior to onsite staging verification by the Consultant the Integrator shall provide notification to the Consultant stating that all rooms listed in Paragraph 3.3.E. meet all conditions listed in Paragraph 3.3.E.
 2. Notification shall be in accordance with Appendix D.
- M. Full Verification Notification
1. Three days prior to full verification by the Consultant the Integrator shall provide notification to the Consultant stating that all rooms listed in Paragraph 3.3.F meet all conditions listed in Paragraph 3.3.F.
 2. Notification shall be in accordance with Appendix D.
- N. Final Verification Notification
1. Three days prior to final verification by the Consultant the Integrator shall provide notification to the Consultant stating that all rooms listed in Paragraph 3.3.G meet all conditions listed in Paragraph 3.3.G.
 2. Notification shall be in accordance with Appendix D.
- O. Preliminary Project Record Documents Submittal
1. The Integrator shall submit preliminary project record documents at final verification.
 2. Preliminary project record documents shall:
 - a. Be based on corrected/updated shop drawings.
 - b. Include an updated equipment list in the form of Appendix G.
 - c. Include half size drawings modified to reflect the actual installation.
 - d. Include a CD-ROM with manufacturer's operation manuals arranged alphabetically, and current drawings Autodesk Drawing (.dwg) format, current DSP configuration and control software files.
- P. Project Record Documents Submittal
1. Within 30 days following final verification, the Integrator shall submit complete project record documents.
 2. Project record documents shall include corrections and markups from the preliminary project record documents.
 3. Project record documents shall consist of:
 - a. Full size record drawings
 - 1) drawings shall meet all requirements listed in Paragraph 1.10.A.
 - 2) drawings shall be based on approved Preliminary Project Record Documents.
 - 3) drawings shall show the actual "As Built" condition of all AV systems. Include all information listed in Appendix F.
 - 4) All calculated figures shall be replaced with field verified values.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

- 5) All equipment "as left" settings and adjustments shall be indicated on drawings. Include all information listed in Appendix F.
- b. Product information binders shall consist of the following information, with section dividers.
 - 1) Title page and table of contents
 - 2) Warranty Statement
 - 3) Provide a one year system warranty as indicated in Paragraph 1.11. Indicate warranty start and end dates, scope of warranty and conditional limitations. Indicate excluded items.
 - 4) Indicate procedure for obtaining telephone support and onsite service. Include a list indicating Integrator's name, address, e-mail address and service department telephone number.
 - 5) Provide placeholder dates for the preventive maintenance service calls
 - 6) Equipment List: Final equipment list broken out per room with serial numbers for each device. Include the ending date of the manufacturer's warranty period for each product.
 - 7) Equipment manuals: Alphabetically arrange manufacturer's operation manuals
 - 8) Key schedule with three duplicates of each key required for operation of the systems
 - 9) Half-size set of Record drawings
- c. Provide electronic copies to the Owner of the following:
 - 1) Software based control system code (user interface software and program)
 - 2) All custom or purpose created software, including original source code written with remark statements to document function of sub routines, macro's and program requirements
 - 3) All DSP and specific device application software in its final configuration
 - 4) All equipment "as left" settings, levels, and adjustments indicated on drawings
 - 5) Final equipment list with warranty and serial number information as noted in Paragraph 1.10.P.3.b.6)
 - 6) Record drawings in Portable Document Format (.pdf) format
 - 7) Record drawings in Autodesk Drawing (.dwg) format

1.11. WARRANTY

- A. Provide warranty repair or replacement for one year on all products provided by the Integrator (including products having a manufacturer's warranty of less than one year) and all Integrator workmanship at no additional cost, except in case of obvious abuse. Consumable items such as lamps, batteries, tapes, etc. are not covered.
- B. During the warranty period the Integrator shall:
 1. Provide telephone support within 4 hours of a call requesting service.
 2. Provide onsite support within 24 hours of a call requesting service that was not corrected by telephone support.
 3. Repair or replace faulty items within 72 hours of onsite service or within manufacturers' specific repair program whichever is quicker.
- C. Integrator shall not involve the Owner with removing, re installing equipment, shipping or receiving equipment being repaired under warranty, nor shall the Owner or Using Agency be responsible for any shipping or freight charges associated with any item under warranty.

- D. Both the Consultant and the Owner shall be copied with all paperwork related to any/all warranty work during the Warranty period.
- E. The Warranty Period will commence no sooner than the date of first beneficial use by the Owner (whoever is first) and no later than the date of Contract Closeout.
- F. Include, at no additional cost, four (4) preventive maintenance visits to make adjustments to video projectors as needed. Check audio and video system settings, review control system functionality and otherwise ensure that the system is in proper working order.
 - 1. 90 days (± 15 days) after the commencement of the Warranty Period.
 - 2. 180 days (± 15 days) after the commencement of the Warranty Period.
 - 3. 270 days (± 15 days) after the commencement of the Warranty Period.
 - 4. 20 days (± 10 days) before the end of the Warranty Period

PART 2 - PRODUCTS

2.1. GENERAL

- A. Acceptable Products are listed below and in Appendix G and establish the basis for design for the AV systems.
- B. Specified products establish the basis for design however an equivalent product by another manufacturer may be submitted for approval where noted in Appendix G. Products specified are not intended to limit the selection of equal products from other manufacturers; however, the design and technical intent shall conform to the functional, technical and reliability requirements.
- C. Integrator shall be fully responsible for making a substitute product match the requirements, description and functionality of the originally specified product regarding all options, accessories and external interface requirements.
- D. Color and finish of all AV products visible to a user shall be approved by the Owner and Architect prior to acquisition, including products where finish is specified or implied in the specifications, drawings or in Appendix G.
- E. Where a comparable product by another manufacturer is listed but a specific model number is not indicated, the comparable product must meet all listed specifications of the primary specified product as a minimum, and the primary specified product (manufacturer and model number) shall be used as the basis of design.
- F. All products shall be new and under warranty at the time of installation.
- G. Where the specification lists several manufacturers for a major item, or group of items, the Integrator shall provide all of those items from one manufacturer (i.e., all Type A loudspeakers shall be brand "X" not a combination of brands "X" and "Y").
- H. The Integrator shall provide all options, accessories and hardware necessary to meet the function of the design even if they are not specifically listed (e.g., rack mount kits, separate or additional power supplies, input modules, transformers, etc.).
- I. The acceptability of a proposed substitution shall be considered under the following terms listed in the "Substitutions" column of Appendix G:
 - 1. The term "No Substitutions" shall denote that only the listed product(s) are acceptable and no substitutions will be considered or approved.
 - 2. The term "Equal as Approved" shall denote that equivalent products will be considered as substitutes for the specified products.
 - 3. The term "Or Equal" shall denote that functionally equivalent products shall be acceptable without written approval by the Consultant.
- J. Where a specified item has been discontinued by the manufacturer and/or replaced by a new model, the Consultant may require submission of the new model for evaluation prior to acceptance as a substitute.

- K. Product substitution is allowed only by expressed written consent of the Consultant and only before the Bid is received.
- L. Unless a specified product has been discontinued by the manufacturer, there shall be no product substitution after the issuance of the Contract Award, Notice to Proceed, or Letter of Intent to Award, whichever is earlier.
- M. The Integrator is solely responsible for the completeness and accuracy of take-offs and bids.
 - 1. Appendix G is the Consultant's good faith effort to provide an AV equipment list based on the drawings and specifications. However, Integrators are cautioned that the list may not be complete, may have discrepancies against the drawings, and may not indicate all pertinent information required to prepare an accurate bid.
 - 2. Determination of final quantities to meet the function of the design shall be the sole responsibility of the Integrator.

2.2. AV CONTROL AND VIDEO SWITCH SYSTEM COMPONENTS

- 1. All AV control system and video transport components shall be as specified, or equal from acceptable manufacturers:
 - a. Crestron
 - b. Extron
 - c. Or Equal

2.3. DEVICE PLATES

- A. Wall / Floor/ Ceiling Mounted Device Plates:
 - 1. NEMA gang type plates shall be standard or jumbo size as required at each plate location.
 - 2. Plates larger than NEMA 2-gang type plates shall be 1/8" aluminum or 1/16" stainless steel.
 - 3. All plates shall be sized to cover the mounting box and rough opening.
 - 4. All text and graphics shall be engraved.
 - 5. Finish to be approved by Architect.
 - 6. Connectors shall be fixed to plates and panels using screws and nuts, or by using the mounting method integral to the connector. Rivets are not acceptable.
 - 7. Detailed drawings of plates panels showing information required in Appendix F shall be submitted prior to fabrication. No exceptions.
 - 8. Provide blank plates with approved finish for ALL AV System wall, floor and ceiling boxes that do not have receptacles.
 - 9. At all non connectorized pass-throughs provide a secured grommet in ceiling, wall or plate.
 - 10. Acceptable manufacturers
 - a. ProCo Plateworks® / Captain NEMA®, RCI, Wireworks, Whirlwind, Panel Authority, Panel Crafters
 - b. Integrator
- B. Rack Mounted Panels
 - 1. Rack panels with connectors, switches, controls, etc., shall be 16-gauge, flanged construction.
 - 2. All text and graphics shall be engraved.
 - 3. Finish shall match rack unless noted otherwise.
 - 4. Detailed drawings of panels showing information required in Appendix F shall be submitted prior to fabrication. No exceptions.
 - 5. Acceptable manufacturers
 - a. ProCo Plateworks® / Captain NEMA®, RCI, Wireworks, Whirlwind, Panel Authority,

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025
10.28.2025

Panel Crafters
b. Integrator

2.4. FIXED INSTALLATION CABLE

A. General

1. Following are cable types for fixed installation within the base building raceway and within fixed AV equipment racks. Unless specifically noted elsewhere, these are NOT acceptable for user interface cables used in lecterns/ credenzas or for connection of portable equipment.
2. Do not exceed cable manufacture's pull-force or bend radius recommendations.
3. All cable used on this project shall be rated for plenum use unless specified otherwise.
4. All speaker cable shall be sized by the Integrator to produce less than 1dB of loss in the speaker/cable circuit.
5. All video cable shall be sized by the Integrator to meet the criteria listed in Paragraph 3.3.
6. Integrator shall select the proper STP/UTP cable type (Cat 5, Cat5e, Cat6, "media"/"low skew", etc.) for correct operation of AV over STP/UTP equipment. Consult with manufacturer for their recommended cable type.

B. EIA/TIA rated Category 6 STP, Plenum rated

1. Liberty Cables: 24-4P-P-L6SH-* (* indicates cable color)
2. Comparable product by Belden, Comm/Scope, Gepco, West Penn.

C. EIA/TIA rated Category 6 STP, Non-Plenum rated

1. Liberty Cables: 24-4P-L6SH-* (* indicates cable color)
2. Comparable product by Belden, Comm/Scope, Gepco, West Penn.

D. HDBaseT STP, Plenum rated

1. Liberty Cables: 24-4P-P-L7SH-BLU
2. Comparable product by Belden, Comm/Scope, Crestron, Extron.

E. HDBaseT STP, Non-plenum rated

1. Liberty Cables: 24-4P-L7SH-BLU
2. Comparable product by Belden, Comm/Scope, Crestron, Extron.

F. AMX or Crestron Control Cable: Two pair - one pair shielded, one pair unshielded. Unshielded pair #18 AWG; shielded pair #22 AWG. NOTE: Also acceptable for use within lecterns.

1. Liberty AXLINK-P
2. Comparable product by West Penn Wire, Belden.

G. Mic or Line Level Signal: Single twisted pair, overall shield, #22 AWG.

1. Liberty 22-2C-PSH-WHT
2. Comparable product by West Penn Wire, Belden, Gepco.

H. Mic or Line Level Signal with Pair for Contact closure: Two pair- one pair shielded, one pair unshielded. Both pair #22 AWG.

1. Liberty 22-2P-PINDSH-WHT
2. Comparable product by West Penn Wire, Belden, Gepco. I. Speaker

Level: 16/2 UTP with overall jacket.

1. Liberty 16-2C-TTP-* (* = color designator)
2. Comparable product by West Penn Wire, Belden, Gepco. J.

Speaker Level: 14/2 UTP with overall jacket.

1. Liberty 14-2C-TTP-* (* = color designator)

- 2. Comparable product by West Penn Wire, Belden, Gepco. K.
- Speaker Level: 12/2 UTP with overall jacket.
- 1. Liberty 12-2C-TTP-* (* = color designator)
 - 2. Comparable product by West Penn Wire, Belden, Gepco. L.
- Speaker Level: 10/2 UTP with overall jacket.
- 1. Liberty 10-2C-TTP-WHT
 - 2. Comparable product by Belden.
- M. RG8 (50 Ohm) Non-Plenum
- 1. Liberty Cables: RG8-CMR-BLK
 - 2. Comparable product by West Penn Wire, Belden, Gepco
- N. RG8 (50 Ohm) Plenum
- 1. Belden Cables: 89913
 - 2. Comparable product by West Penn Wire, Belden, Gepco
- O. Wireless Mic Antenna Coax Cable (less than 75'): RG-58/U
- 1. Liberty RG58-CMP-WHT
 - 2. Comparable product by West Penn Wire, Canare, Gepco, Comm/Scope.
- P. Base Band Video Cable: RG-59/U
- 1. Liberty RG59-CCTV-PL-WHT
 - 2. Comparable product by West Penn Wire, Belden, Canare, Gepco, Comm/Scope.
- Q. CATV, MATV, or CCTV Trunk Line: RG-11/U Quad Shield
- 1. Liberty RG11-QUAD-PL-WHT
 - 2. Comparable product by West Penn Wire, Canare, Gepco, Comm/Scope.
- R. CATV, MATV, or CCTV Drop Line: RG-6/U Quad Shield
- 1. Liberty RG6-QUAD-CMP-WHT
 - 2. Comparable product by Belden, Canare, Gepco, West Penn Wire, Comm/Scope.
- S. ASE/EBU Cable: Plenum
- 1. Liberty Cables: 24-1P-P-DIG-AUDIO
 - 2. Comparable product by Belden, Canare, Gepco, West Penn Wire, Comm/Scope
- T. ASE/EBU Cable: Non-Plenum
- 1. Liberty Cables: 24-1P-DIG-AUDIO
 - 2. Comparable product by Belden, Canare, Gepco, West Penn Wire, Comm/Scope
- U. HD, SDI, and video tie lines: RG-6/U
- 1. Belden 1695A
 - 2. Comparable product by Liberty, Extron, Canare, Gepco, West Penn Wire, Comm/Scope
- V. HDMI Cable male to male. Lengths as required.
- 1. Keydigital KD-HDBC*
 - 2. Comparable product by Liberty.
- W. Plenum HDMI Cable male to male. Lengths as required.
- 1. Liberty P-HDM-M
 - 2. Comparable product by Atlona.
- X. DVI Cable male to male. Lengths as required.
- 1. Extron DVID DL Pro/*
 - 2. Comparable product by Atlona.
- Y. DisplayPort Cable male to male. Lengths as required.
- 1. Extron DisplayPort M-M/*
 - 2. Comparable product by Atlona.
- Z. General Control Cable: Plenum rated, AWG, number of conductors, pairs and/or shield depending on specific control function (e.g., IR, RS 232, dry closure, etc.).

1. Liberty model # as required to meet functionality
2. Comparable product by Belden, Gepco, West Penn Wire,

Comm/Scope AA. Lectern, credenza, cart and portable cables:

1. Use highly flexible, pre made or molded cables.
2. Select AWG, number of conductors, pairs and/or shield as required depending on specific function.
3. Acceptable Manufacturers: Bi Tronics, HOSA, Mogami, Extron, Canare, MarkerTek, Tek Net, Comprehensive or HAVE.

BB. Additional cable types as required. Cable type shall be approved by the Consultant prior to use.

2.5. PRE-MANUFACTURED AND ADAPTER CABLES

- A. VGA Cables with Audio
 1. Extron: MVGA-A-M-M/* (* indicate cable length 3', 6', 12')
 2. Comparable by Liberty Cables
- B. VGA Cables
 1. Extron: Model: MVGA M-M/* (* indicate cable length 3', 6', 12')
 2. Comparable by Liberty Cables
- C. HDMI Cables
 1. Extron: HDMI Ultra/* (* indicate cable length 6', 9', 12', 15') 2. Comparable by Key Digital:
- D. Audio Cables w 1/8" TRS
 1. Extron: A-Mini/* (* indicate cable length 2', 6', 12')
 2. Comparable by Liberty Cables
- E. Toslink Optical Cable
 1. Liberty Cables: Z500NTOS* (* indicate cable length 1', 7', 13', 20', 33', 50')
 2. Comparable by Comprehensive
- F. SPDIF Cable
 1. Liberty Cables: 20 SD-RCAM-M-* (* indicate cable length 3', 20', 25', 35')
 2. Comparable by Extron

2.6. CONNECTORS

- A. 1/4 Inch Cable Connectors: Non long frame type.
 1. Neutrik "NP" Series
 2. Comparable product by Switchcraft.
- B. BNC Cable Connectors: 3 piece, true 75Ω crimp type.
 1. Acceptable manufacturers: Kings, Liberty, Extron, Canare, ADC, Trompeter, Cambridge
 2. Connector shall be compatible with cable type. C. Loudspeaker Cable
- Connectors: 4 or 8 pole.
 1. Neutrik Speakon NL4FC or NL8FC 2. Comparable product by Switchcraft.
- D. IHF (RCA) Audio Cable Connectors: For all IHF (RCA) audio jacks, gold center pin, spring type strain relief.
 1. Canare F 09
 2. Comparable product by Switchcraft.
- E. IHF (RCA) 75Ω Video Cable Connectors: For all IHF (RCA) video jacks.
 1. Canare RCAP C series
 2. Comparable product by Trompeter

3. Connector shall be compatible with cable type and shall be installed using factory approved tool and die.
- F. XLR Cable Connectors: Number of pins as required.
 1. Black shell with gold pins, unless otherwise noted.
 2. Neutrik "XX" series
 3. Comparable product by Switchcraft
- G. 3-pole XLR with 1/4" Panel Connectors, non-switching, solder cups: All conductors shall be insulated from panel.
 1. Neutrik NCJ6FI-S
 2. Comparable product by Switchcraft
- H. Recessed BNC Panel Connectors: Shield shall be insulated from panel, shell finish to match adjacent surfaces.
 1. Neutrik NBB75DFIB
 2. Comparable product by Canare
- I. Non-recessed BNC Panel Connectors: Shield shall be insulated from panel, shell finish to match adjacent surfaces.
 1. Neutrik NBB75FI
 2. Comparable product by Canare (with insulating washers) for floor boxes (non recessed).
- J. Loudspeaker Panel Connectors: 4 or 8 pole.
 1. Neutrik Speakon NL4MP or NL8MP
 2. Comparable product by Switchcraft
- K. IHF (RCA) 75 Ohm Video Panel Connectors: Shield shall be insulated from panel. Color code as shown on the drawings.
 1. Canare RJ RU
 2. Comparable product by Switchcraft.
- L. RJ 45 Panel Connectors: Recessed Cat 5 or Cat 5e compliant, 8 contacts, Latch hook Retention of RJ45 plugs, 110 Punch down IDC terminals on rear.
 1. Neutrik NE8FAV Y110
 2. Comparable product.
- M. Shielded RJ45 Connectors: Shielded 8 position 8 contact (8P8C) plug connector, RoHS compliant and UL rated.
 1. Crestron DM-8G-CONN 2. Extron XTP DTP 24 Plug
 3. Comparable product.
- N. XLR Panel Connectors: Black shell, gold pins.
 1. Neutrik "D" Series
 2. Comparable product by Switchcraft.
- O. 3.5mm (1/8") Cable Connectors: Mini TRS for balanced mono audio or unbalanced 2 channel audio.
 1. Canare F-12
 2. Comparable product by Switchcraft.
- P. BNC Terminators: 75Ω, 1%.
 1. Canare BCP *
 2. Comparable product by Trompeter, ADC.

2.7. RACKS AND RACK ACCESSORIES

- A. All accessories shall be from the same manufacturer as the rack enclosure.
- B. Provide the following accessories for each rack shown on the drawings.
 1. Side panels for each individual rack or for end racks of each group of racks.
 2. Solid or fan top as shown on the drawings and solid rear door.
 3. Grounding stud in top rear of rack.
 4. Full-height rear mounting rails
 5. Full-height solid copper bus bar bonded to rack.

6. Rack work light.
7. Horizontal lacing bars (as required).
8. Blank panels as necessary to close front of rack.
9. Vents, blowers, fans and fan packs as necessary to properly dissipate heat.
10. Power distribution as required.
11. Caster base as shown on the drawings or as dictated by field conditions.

PART 3 - EXECUTION

3.1. PREPARATION

- A. Before starting installation, verify proper installation of the following:
 1. Backboxes and conduit– installed per the drawings and these specifications.
 - a. Stub outs finished with j boxes or insulated bushings on end of conduit.
 - b. Pull boxes installed per NEC based on total number of turns and angles and on linear feet of conduit.
 - c. Pull strings inside all conduits.
 2. 120VAC power circuits, isolated ground conductors and equipment ground conductors.
 3. Fixed millwork.
 4. Cable tray.
 5. Supports or blocking for flat panel displays.
 6. Projector lifts or support for ceiling mounted projectors.
- B. Copies of these specifications and approved shop drawings shall be readily available for all in shop and onsite integration work.
- C. Provide written notification to the General Contractor and Consultant of any problems impacting the Integrator’s work. Failure of the Integrator to notify the General Contractor and Consultant in a timely manner of incomplete, inadequate, unfinished, or otherwise unacceptable pre requisite work by other trades in the base building infrastructure will not relieve the Integrator of the responsibility to complete the work under this contract.

3.2. INSTALLATION

- A. General
 1. All equipment and enclosures described in this specification shall be installed plumb and square unless specifically detailed otherwise.
 2. All equipment, except that designated as movable, portable or loose equipment, shall be secured and permanently attached to racks or structure in a manner which will require the use of a tool (e.g., screw driver, nut driver, etc.) for removal.
 3. All supports shall meet or exceed the load requirements of the intended application with a minimum safety factor of five.
 4. Support hardware shall have SAE Grade 8 load rating (min.).
 5. All equipment mounted overhead that has a composite weight, including mounting hardware and brackets, of forty pounds or more shall be mounted using plans and specifications, which shall bear the seal and signature of a registered professional structural engineer with applicable license to approve the work. All fees and expenses related to structural engineering shall be paid by the Integrator.
 6. All equipment mounted in wall that has a composite weight, including mounting hardware and brackets, of two hundred pounds or more shall be mounted using plans and specifications, which shall bear the seal and signature of a registered professional structural engineer with applicable license to approve the work. All

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fees and expenses related to structural engineering shall be paid by the Integrator.

- B. Firmware
1. The Integrator shall install the firmware versions selected by the Consultant for all programmable or configurable devices.
 2. The Integrator shall be responsible for up to two additional firmware changes per device until project closeout.
 3. Integrator shall notify the Consultant prior to any change of firmware in any programmable or configurable device until the Integrator is released from all installation and warranty responsibilities.
- C. Equipment Racks, Conduit, and Raceways
1. Electrical power distribution
 - a. Provide labels on receptacles within AV racks indicating branch panel and circuit number.
 - b. See the drawings for details of power raceway entering and mounting inside rack.
 2. Provide a full height, technical ground bus bar in each equipment rack, mount adjacent to the power raceway and electrically bond to rack.
 3. Install rack mounted equipment as indicated on the approved AV shop drawings, and make connections within the racks before delivery to job site.
 4. Provide insulated connections between the building electrical raceway and the equipment racks.
 5. Provide insulated connections between the AV raceway and the equipment racks.
 6. Provide EMT stubs, with insulated bushings to protect cable, into the above ceiling area for routing cable into the equipment racks.
 7. Segregate circuit types as noted in Paragraph 3.2.F.2.
 8. Do not exceed 40% conduit fill.
- D. Labeling
1. General
 - a. Handwritten labels are not acceptable.
 - b. Do not indicate the Integrator's name on movable, portable or loose equipment, touch panels, cables, or wall plates.
 - c. Integrator's name may be displayed on rack panel only as shown on the drawings.
 - d. Label type, text and graphics shall be approved by the Consultant before fabrication of labeling, plates or other labeled items.
 - e. All labels shall be legible.
 2. Provide permanent, self-adhesive labels on the front panel of rack mounted equipment to indicate system designation/functionality (e.g., Automixer 3, Press Feed ADA, Speech Amp-Zone A, etc.).
 3. Provide permanent, self-adhesive labels on the back of rack mounted equipment.
 - a. Indicate system designation/functionality.
 - b. Text shall be identical to equipment front panels.
 - c. Indicate IP address for all networked equipment located in secured racks or locations.
 - d. Phone number.
 4. Provide permanent label on plug end of power cords of all rack mounted equipment identifying the power cord with the equipment.
 5. Provide labels for front panel input and output buttons of AV routers, switches, mixers, etc.
 6. Provide text/graphics engraved directly on receptacle plates, panels, and rack panels.

- a. Use eighth inch letters with contrasting fill color.
- b. Label all plate mounted connectors and receptacles as shown on approved shop drawings
- c. Label plates with plate designation shown on approved shop drawings.
- 7. For all installed wiring provide permanent labels using wire numbers or designation as shown on approved shop drawings.
 - a. Wire labels shall be one of the following types
 - 1) Self-adhesive label under clear heat shrink,
 - 2) Direct printed heat shrink
 - 3) Direct printed, self-adhesive, self-laminating
 - b. Position labels as shown in wiring standard details on the drawings.
 - c. Provide wire labels on both ends of cable.
- E. Wiring
 - 1. Do not make any in line cable splices unless specifically noted.
 - 2. Use only cable pulling lubricants approved by the cable manufacturer.
 - 3. Provide grommets or chase nipples at cable entry where conduit is not installed.
 - 4. Provide cable anchors for any cable or cable bundle larger than 1 inch diameter, permanently installed and not in conduit. Do not use sticky back cable anchors.
 - 5. Provide a service loop for each cable that connects to equipment in racks or AV furniture. Service loop length shall be sufficient to allow one re-termination without removing cable ties.
 - 6. All cables connecting to a movable lectern, cart, or desk or lectern shall be highly flexible cable, specifically designed by the manufacturer to be flexed repeatedly. Permanent install type cable is not acceptable for this application.
 - 7. All cable bundles of more than one cable connecting to a movable lectern, cart, or desk or lectern shall be enclosed in a flexible braided sleeve and be of the minimum length extending from the furniture edge as noted on the drawings.
 - 8. The Integrator shall take precautions to ensure that cabling is not kinked, compressed or otherwise damaged such that performance is compromised.
 - 9. Bend radius shall not be less than recommended by the cable manufacturer.
 - 10. Do not exceed the maximum permissible pulling tension. Consult the cable manufacturer for exact data.
 - 11. Use soft Velcro based cable ties located at random distances apart for installation of specialty cable such as HD-SDI, Category cable, fiber, etc.
- F. Service and segregation of installed cables
 - 1. Refer to the drawings for
 - a. Standard wiring termination
 - b. Labeling details
 - c. Special wiring details
 - 2. Standard cable segregation – similar signal types or signal levels may be grouped together as approved by the Consultant.
 - a. Microphone: below -30 dBu
 - b. Line: -30 dBu to +24 dBu
 - c. Loudspeaker: Greater than +24 dBu
 - d. Video: 1 volt peak-peak into 75 Ohms
 - e. Control Circuits: 0-28 Volt into <50k Ohms and Data: 2 Volt peak-peak into 100 Ohms
 - f. Fiber
- G. Terminations
 - 1. Use crimping tools recommended by the termination manufacturer. Use ratcheting crimp tools for spade lugs and Molex pins.
 - 2. Provide insulated spade lugs for screw terminals, two lugs per terminal maximum.
 - 3. Use properly sized spade lugs for cable gauge and screw size.
 - 4. Conductors in phoenix type connectors shall not be tinned.

5. Ferrules in phoenix type connectors shall not be used.
6. Terminate conductors with proper mating connectors.
7. Wire Nuts are not acceptable.
8. Audio shield/drain wires shall not be connected to the connector body at any time.
9. Only one cable or set of wires shall be installed into any single connector; do not loop cable in and out of a connector. Provide a terminal block to parallel any audio signal wiring.
10. Dual channel audio circuits using 5 pin XLR type connectors shall be made using a dual twisted pair type cable (Canare Star Quad, ProCo Ameriquad, or equivalent).
11. If multiple connection types are available on a given piece of equipment, the screw terminal type (including phoenix type) shall be used as first choice, with XLR connections used as second choice, and other connectors as last choice.
12. Maintain proper polarity when wiring components and loudspeakers.
13. Provide vertically mounted 1/2 inch, painted plywood or 1/8 inch thick blank panels for mounting terminal strips. Do not mount terminal strips on the bottom of racks.
14. Use only true 75 Ohm BNC cable end connectors designed for the intended coaxial cable required. Apply connector with a crimp die certified to be used with the intended coaxial cable and BNC. Feed through must also strictly maintain 75 Ohms.
15. For HD-SDI, do not use any connectors or feed-throughs not specifically rated through 3GHz digital bit rate.
16. Bi-directional serial terminations shall always be assumed to be at minimum 5-wire in the absence of approved information which indicates otherwise.

3.3. QUALITY CONTROL AND INSTALLATION VERIFICATION

A. General

1. The Integrator shall plan for the following shop or site visits by the Consultant:
 - a. Shop staging verification
 - b. Full verification
 - c. Final verification and training
2. The Integrator shall setup all rooms and systems to conform to the conditions listed below for each shop or site verification and shall notify the consultant that all required rooms are ready for each verification in accordance with Paragraph 1.10.H and Appendix D.
3. At the Consultant's request, the Integrator shall provide proof of conformance for any room or system that the Consultant concludes to be non-conforming.
4. Proof of conformance shall be the responsibility of the Integrator.
5. Incomplete systems or failure to complete the room setup prior to the Consultant arriving for the shop or site verification will result in additional trips for the Consultant. The Integrator will be financially responsible for all additional fees and expenses associated with these trips.
6. The Integrator shall make adjustments to all rooms and systems as directed by the Consultant during the shop or site verifications.

B. Shop Staging Verification Criteria

1. Audio
 - a. The Integrator shall adjust all AV sources to provide source to source variation of less than 3dB SPL (measured A-weighted slow).
 - b. Signal to noise ratio of the any complete audio path shall be greater than 60dB.
 - c. Total harmonic distortion of any complete audio path shall not exceed 0.1%

2. Video
 - a. Set the brightness and contrast of displays using a pluge test or similar test pattern.
 - b. Setup color of displays using color bar test pattern.
 - c. Set displays to accommodate the resolutions shown on the drawings.
 - d. Set projectors to accommodate the following resolutions: 1024x768, 1280 x 1024, 1280x720, 1366x768, 1280x800, 1280x768, 1920x1080, 1920x1200, 1400x1050, 1600x1200, 1600x1050, 3840x2160, and 4096 × 2160
 - e. 4:3 and 5:4 aspect ratios presented on a 16:9, 16:10, or 15:9 display shall fill the screen height. This shall be accomplished with no external or internal scaling or stretching.
 - f. A display generated test pattern shall fill the screen and be plumb, square, and true.
 - g. Video signals passing through UTP transmitters and receivers, computer interfaces, and other video processing equipment shall be adjusted so that the signals appear identical to signals directly connected to the display.
 - h. Set the outputs of scalers and scaling switchers to accommodate the resolutions shown on the drawings.
 - i. Set transition effects, switching modes, picture-in-picture (PIP), or other scaler/switcher display and codec settings as directed by Consultant.
3. Control Systems
 - a. Control system shall be fully connected and communicating with all controllable devices.
 - b. Control of building or environmental systems shall be demonstrated by use of mock-ups or proxies.
 - c. Control system program shall be loaded and functional.
4. RF Systems
 - a. RF system shall be free of noise and crosstalk
 - b. RF level at lowest and highest rated system channel shall be between +6dBmV and +12dBmV.
- C. Onsite Verification Criteria
 1. Audio
 - a. Set the audio system to provide seat to seat variation of +/-4dB in the 2kHz octave band (measured A-weighted slow).
 - b. Audio path shall maintain absolute system polarity such that:
 - 1) Positive acoustic pressure at the front of all microphones creates a positive voltage at the positive terminal of all line outputs and a positive acoustic pressure at all loudspeakers.
 - 2) Positive voltage at the positive terminal of all line inputs creates a positive voltage at the positive terminal of all line outputs and a positive acoustic pressure at all loudspeakers.
 2. Video
 - a. Projected images shall be in focus, free of any keystone (no digital keystone allowed), free from any obstruction.
 - b. All images shall be free from ghosting or smearing.
 - c. Analog RGBHV signal amplitude through any signal path shall not exceed +/- 3dB across the operational bandwidth up to 450 MHz.
 - 1) Cable type shall be selected to meet this requirement
 - 2) Video line drivers or peaking amplifiers shall be added only when signal loss due to cable length exceeds this requirement and cannot be corrected by selecting a lower loss cable.

- 3) Video line drivers or peaking amplifiers shall be adjusted to provide the least amount of correction to bring the signal within this requirement.
3. Control Systems
 - a. Control system program shall be loaded into all controllable devices including touch panels.
 - b. Control of building or environmental systems shall be fully functional.
 - c. All controllable devices and systems shall be controllable from the control system touch panel or button panel.
 4. RF Systems
 - a. RF level at lowest and highest rated system channel at all cable outlets shall be between +6dBmV and +12dBmV.
 5. AV Wireless Ethernet
 - a. Perform a wireless site survey to identify existing active wireless access points in the area along with channel allocations, SSID information and Security Information and determine the number and placement for additional types (802.11a, 802.11b/g, 802.11i, etc.) of access points, gateways and repeaters necessary to provide proper coverage and network performance throughout the facility for the wireless Ethernet devices listed in Appendix G.
 - b. Develop and recommend a channel allocation map with non-overlapping channels for each area within the buildings to maximize wireless network performance.
 - c. Procedures for the wireless site survey are referenced in Paragraph 1.7.B.
- D. Shop Staging and Verification
1. The Integrator shall stage in their shop one of each of the following room types: Community Room, Staff Meeting Room
 2. If only conducting one shop staging event, delete the following paragraph. If shop staging will be split into multiple events, use the following paragraph to identify the rooms in each. Add additional sessions as warranted; confirm this aligns with our proposal.
 3. For verification the Integrator shall demonstrate to the Consultant complete functionality of each room or room type selected for the shop staging event.
 4. The Integrator's project manager or senior field technician shall be present for all shop staging events and will be responsible for field implementation of directives and instructions from the Consultant during the shop verification.
 5. All systems shall be configured to the Shop Staging Verification Criteria identified in Paragraph 3.3.B.
- E. Onsite Staging and Verification - NONE
1. The Integrator shall accelerate the construction of one of each room or room type.
 2. The Integrator shall accelerate the construction of one of each of the following room types: Rooms A, B and C.
 3. Multiple onsite staging sessions shall be conducted as follows:
 - a. Onsite Staging 1 – Rooms A, B and C
 - b. Onsite Staging 2 – Rooms X, Y and Z
 4. The Integrator shall accelerate the construction of one of each room or room type for the Onsite Staging.
 5. All Owner furnished equipment shall be installed and working properly in all rooms selected for onsite staging. All software that is required for integration with AV system shall be installed by the Owner (or by the Integrator under the coordination/ supervision of the Owner), and functioning properly
 6. For verification the Integrator shall demonstrate to the Consultant complete functionality of each room or room type selected Onsite Staging.

7. During the Onsite Staging the Integrator shall implement changes to the installation and setup as directed by the Consultant and will implement the changes throughout the project as directed by the Consultant.
 8. All systems shall be configured to meet the Shop Staging Verification Criteria identified in Paragraph 3.3.B and the Onsite Verification Criteria identified in Paragraph 3.3.C.
- F. Full Verification
1. All AV systems that are a part of this project shall be completely installed and functional.
 2. All Consultant's directions and all criteria identified in Paragraphs 3.3.B and 3.3.C shall be applied to all audio, video, control, RF and AV wireless Ethernet systems throughout the project.
 3. All Owner furnished equipment shall be installed and working properly in all rooms. All software that is required for integration with AV system shall be installed by the Owner (or by the Integrator under the coordination/ supervision of the Owner), and functioning properly.
 4. Incomplete systems or failure to complete the room setup prior to the Consultant arriving will result in additional trips for the Consultant. The Integrator will be financially responsible for all additional fees and expenses associated with these trips.
 5. The Integrator's project manager or a senior technician who is familiar with the system shall demonstrate the complete functionality of each AV system to the Consultant.
 6. The Consultant will create a punchlist of deficiencies that must be corrected by the Integrator prior to final verification.
 7. Items added to the punchlist during this verification will not be re-verified or removed from the punchlist during this verification.
- G. Final Verification
1. All items listed in the punchlist created during the full verification shall be corrected.
 2. The Integrator's Project Manager or a senior technician who is familiar with the system shall demonstrate that all items in the punchlist have been corrected.
 3. Punchlist items or other installation issues not corrected and resulting in the inability to demonstrate the complete functionality of all AV systems will result in additional trips for the Consultant. The Integrator will be financially responsible for all additional fees and expenses associated with these trips
- H. Training
1. The Integrator shall train the Owner in the proper operation of the system.
 2. The Integrator's project manager or senior technician who is familiar with the system shall lead this training.
 3. Provide 10 Hours minimum of training.
- 3.4. CONTRACT CLOSEOUT
- A. Contract closeout will be based on completion of final verification, completion of punchlist items, acceptance of project record documents and completion of training.

END OF SECTION 27 41 16

SECTION 27 41 16.01 - APPENDICES FOR SECTION 27 41 16

Table of Contents for this Subsection	Page
APPENDIX A - DEMARCATION LIST	27
APPENDIX B - AV WEEKLY STATUS REPORT	28
APPENDIX C - AV ROOM READY CONDITIONS	30
APPENDIX D - STAGING AND VERIFICATION NOTIFICATION	31
APPENDIX E - CONTROL SYSTEM	33
APPENDIX F - SUBMITTAL DRAWING CHECKLIST	37
APPENDIX G - EQUIPMENT LIST SPREADSHEET	39

APPENDIX A - DEMARCATION LIST

- A. General: This appendix describes demarcation points in the work to determine where the Integrator's responsibilities end in the specific instances noted below.
- B. Electrical System Connections: The Integrator shall coordinate with the General Contractor to extend the AV AC power circuits and insulated ground wires into each equipment rack.
- C. Raceway (conduit and backboxes): The Integrator shall provide blank plates or panels for all AV floor, wall and ceiling boxes that are shown on the drawings, but do not have AV devices and/or connectors at this time. Colors and types shall be coordinated with the Architect. Devices and plates for other trades (HV power, voice/data, etc.) within the AV floor boxes are by others.
- D. Where equipment installed by the Integrator, including Owner-furnished equipment, is shown installed in furniture, millwork, or casework provided by others, the Integrator shall coordinate with the General Contractor with respect to cutting furniture/millwork/casework to accommodate flip-top devices, grommets, microphones, etc.
- E. Cabling: All audio, video and control cabling shall be provided, installed and terminated by the Integrator as noted on the Integrator's construction documents. Voice/data cabling, unless specifically noted otherwise, are the responsibility of others.
- F. Cable Termination: Where cable installation is required, this will include wall and/or floor jacks, plates and terminations at room devices, and service loops at patch bay locations.
- G. Projector and Monitor Mounts: The Integrator shall install all projectors and monitor mounts as indicated on the approved shop drawings. Integrator shall verify location and structural suitability before attaching projectors, monitors and mounts. Integrator shall satisfy the requirements in Paragraph 3.2.A. H. Low Voltage Connections to Base-Building Devices:
 - 1. Low voltage control interfaces for lighting dimmers, window treatments and electric projection screens will be installed by others as a part of the base building. Integrator shall verify proper operation of these control systems before any interconnection to the AV control system.
 - 2. Integrator shall investigate all hardware and software control conflicts between the base building control systems and the AV control system before interconnecting the systems. Report any conflicts, potential or existing, to the General Contractor, in writing, before interconnecting the systems. Damage caused to the base building control systems due to the improper connection of AV control systems shall be the sole responsibility of the Integrator.
 - 3. Where indicated, Integrator shall select and install the appropriate cable type from the AV control system to the base building control systems interface locations.
 - 4. Integrator shall verify proper operation of both the base building control systems and the AV control system after interconnecting the systems, and verify proper operation of both.
- I. AV Control System Connections and Devices: Integrator shall set up control system equipment with IP addresses and proprietary control network addresses, install all necessary hardware cards, and adjust all appropriate DIP switch settings, and any other equipment settings such as baud rate and protocol settings. Integrator shall include all of this information in Project Record Documents.

APPENDIX B - AV WEEKLY STATUS REPORT

- A. The form on the following page is the Consultant's "AV Weekly Status Report". The Integrator shall provide weekly status reports in this format or an equivalent format approved by the General Contractor and Consultant in advance.

AV WEEKLY STATUS REPORT

WEEK
OF:

_____ BY: _____

CLIENT / PROJECT NAME: _____

INTEGRATOR:

ROOM NAMES / NUMBERS: _____

Provide a summary for each of the following areas. Use additional sheets as needed.

General:

Purchases (see attached lead times):

Assembly:

Field Conditions:

Issues of

Concern:

APPENDIX C - AV ROOM READY CONDITIONS

- A. Before installing AV equipment onsite, the following conditions must be met for each space where AV equipment is to be installed.
 - 1. All water piping completely installed and tested
 - 2. Dirt and dust sources removed. HVAC running with filters in place and AV-rooms "broomclean"
 - 3. Major construction activities completed, especially activities that may create physical damage to equipment or racks such as:
 - a. Overhead work that may cause debris or dust
 - b. Chemical work such as concrete cleaning and finishing
 - c. Welding or grinding
 - d. Activities that may cause excessive vibration
 - 4. Building systems and finishes
 - a. Ceiling work completed (ceiling tiles installed, lighting installed and operational)
 - b. Shades and screens installed and operational
 - c. Floor finish installation complete
 - d. Wall treatments complete
 - 5. Security
 - a. AV areas secure
 - 1) For equipment, rack and tool storage
 - 2) Staging and work area for final assembly work on racks or in furniture and millwork
 - 3) Equipment installation areas that are not yet turned over to the owner
 - b. Keys provided to integrator with limited distribution
 - c. Security badges and clearances obtained for all onsite personnel
 - 6. AV system infrastructure
 - a. AV field cabling pulls complete
 - b. All AV construction related items completed
 - c. All AV power wiring in place, tested and on
 - d. All millwork and furniture containing AV equipment in place

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025

BID SET – ADDENDUM 06

- e. System interfaces installed (lighting, screens, motorized drapes, etc.)
 - f. Cabling by others in place (data/telecom, cable TV, fiber)
 - g. Lighting installed and available for use in AV spaces
- B. Before adjusting AV equipment to meet the conditions in Paragraph 3.3, C, the following conditions must be met, in addition to the items listed above, for each space where AV equipment is to be installed.
- 1. HVAC balanced
 - 2. Lighting system configured (lighting presets programmed)
 - 3. Shade system configured
 - 4. IT services activated

APPENDIX D - STAGING AND VERIFICATION NOTIFICATION

- A. The following text shall be used to notify the Consultant that the specified rooms or entire project is ready for checkout.
- B. One letter of notification is required for each of the following:
 - 1. Shop Staging, Paragraphs 1.10.H and 3.3.D
 - 2. Full Verification, Paragraphs 1.10.M and 3.3.F
 - 3. Final Verification, Paragraphs 1.10.N and 3.3.G
- C. The Integrator shall copy or retype the text of the following letter onto the Integrator's letterhead and fill in or select the appropriate text.
- D. See sample letter at the end of Appendix D.

This letter serves as notification to Waveguide that (insert Integrator's name) has completed the required setup and is ready for (select one of the following: Shop Staging, Onsite Staging, Full Verification or Final Verification).

(Insert Integrator's name) acknowledges that all rooms and systems specified for this staging or verification meet all specified installation and setup requirements.

Printed name of Project Manager

Signature of Project Manager Date

(Insert Integrator's name) acknowledges that incomplete systems or failure to complete the room setup as specified prior to the Consultant arriving for staging or verification will result in additional trips for the Consultant.

(Insert Integrator's name) acknowledges that (Insert Integrator's name) will be financially responsible for all additional fees and expenses associated with these trips.

As (Insert Integrator's name) duly authorized representative, I have read and agree to this agreement.

_ Printed name of signatory

Signature Date

APPENDIX E - CONTROL SYSTEM

- A. The AV control systems design and development effort is being undertaken by the Integrator. However, the Owner may wish to provide colors and/or layout preferences to ensure that the interface design and appearance fits their needs and existing standards. The AV integrator is responsible for requesting and receiving these assets from the Owner and modifying them as needed to fit the Owner's desired appearance and functionality. The integrator is responsible for loading all control software onto the applicable hardware, updating the applicable firmware, thoroughly testing to ensure all buttons trigger the correct response from the controlled equipment, and generating periodic punch-lists with adequate time to meet deadlines.
- B. The AV Contractor shall coordinate all network requirements with the Owner's IT department prior to and during implementation. The primary information gathering effort will take place during the CSP meetings, but subsequent coordination will also be required.
- C. The Integrator shall organize and schedule a Control System Programming (CSP) meeting which include the Integrator, Owner's facilities/IT representative, and AV consultant.

2023005	ALTADENA MAIN LIBRARY ALTADENA LIBRARY DISTRICT	08.15.2025 <u>10.28.2025</u>
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BID SET – ADDENDUM 06

1. The CSP meeting shall review the Integrator's approach to designing and implementing all AV control parameters throughout the project with the Owner and Consultant, verify what control features are required to support each location and type of user, and define the Owner's preferences for the below systems:
 - a. All touch panels
 - b. All key/button panels
2. CSP Meeting:
 - a. The Consultant shall review the AV system functionality that will be supported in each space with Owner and Integrator. The Owner will provide the AV Integrator with samples of existing control panels (if available) as reference for basis of the control system programmer's designs.
 - b. The Integrator shall gather information/standards from the Owner that informs how the control panels will need to be designed to support the room functionality
 - c. After the meeting, the programmer shall provide a report including layouts for all user interfaces in AV-enabled rooms in the project
 - d. After reviewing layouts, the Owner's representative shall provide any additional comments to the Integrator.
- D. The AV integrator and Owner's IT team shall discuss the network requirements required to provide a fully functional AV system. This can happen during the CSP meetings or during separate AV/IT coordination meetings. These coordination items include, but are not limited to, AV VLAN QoS, firewall porting, AV VLAN IP ranges, internet/VPN access, administrator rights, user access levels, credentials, real-time reporting requirements vs periodic reporting, polling frequency, VLAN's/Subnets, bandwidth, and all other network related preferences.
- E. The CSP capabilities and requirements described in this specification are not intended to be allinclusive. They are intended to indicate the general intent and system functionality at the various levels described. It shall be the responsibility of the Integrator to fully evaluate the specific functionality required by the Owner and to provide a complete system that is intuitive to use and logical in its basic structure.
- F. Environmental Control: Environmental controls shall be automated as part of a room's startup.
- G. Motorized projection screens: Motorized projection screens shall operate through low voltage wall switches and through the AV control system. The projection screens shall be programmed for Up, Down, and Stop control functions. Provision for low voltage projection screen control is accommodated through a low voltage interface provided by the AV contractor.
- H. Fire and Life Safety Shutdown: Provision for turning AV system off through communication to the building fire-life system. Coordinate with the Fire/Life Safety contractor to provide a dry contact closure from fire-life safety system to the AV control processors to shut down AV system upon an emergency condition. Integrator shall coordinate with the FLS contractor to verify whether a normal-open/fail-close or normal-close/fail-open trigger is being used and program the systems accordingly.
- I. Power Control: Power sequencing is an essential part of managing energy consumption. As a standard, when the system is turned on, the command to turn on all system devices will be given. All devices shall be ready for the user once the system is started.
 1. Use discrete on/off power commands when available 2. Essential system startup devices shall always remain on.
 3. These items include AV control system
 4. As a fail-safe procedure, all essential system startup devices shall receive a discrete power on command when the system is turned on.
 5. Do not give the user the ability to turn devices on or off from the control system (i.e. independent of system Power On or Off) to help prevent an out-of-sync condition between the source and the display device.

6. The integrator shall implement power sequencing. The power sequencers shall control power to the nonessential system startup devices (e.g. amplifiers, document cameras, DVD players, etc.).
7. Confirm power off command with user.
- J. Source select: buttons shall be provided on the interface to select all available in-room and remote sources. Then, the control system shall execute all audio and video paths for the selected source.
Button panel controllers shall enable hard button transport controls for the selected source.
 1. Primary Displays:
 - a. The default source input is selected as part of the system startup.
 - b. User level controls shall include:
 - 1) On
 - 2) Off
- K. Audio Control:
 1. All audio feeds will be muted on system shutdown and reset to default settings/levels on startup.
 2. Program Audio: This includes audio for AV sources like laptop, auxiliary AV input, in-room PC, DVD, etc.
 3. These sources will be controlled with a single volume control with Up, Down, and Mute.
 4. The volume and mute will control the program audio for the in-room participants.
 5. Upon system startup the program volume control will be reset to a default level with program audio un-muted. Default level to be determined at installation.
- L. The following parts of this appendix describe the intent of the control system programming required for the project that might not be evident from looking at the system one-lines and the Anticipated Functionality section noted above. This is not intended to be an exhaustive description of all required functionality. Additional information will likely be uncovered during the CSP review meetings. The Integrator will not seek compensation for additional CSP functionality uncovered during the CSP discovery process, unless the request for additional functionality is unreasonable for systems of similar scope or comes after GUI acceptance. The general non-apparent functional requirements are as follows:
- M. Reconfigurable Spaces
 1. The Community Room can be reconfigured and will have two modes. When the user turns on the system from the touch panel, they shall be prompted with an option to select which furniture layout and/or lectern plug-in locations are being used.
 2. The room will have three modes - presentation, board meeting, or community event. Each room configuration will trigger various source routing, audio mixing, and camera aiming presets appropriate for the use case. Final configuration will be determined during the CSP meeting.
 3. Start-up defaults
 - a. Upon system start-up, the Integrator shall program the system to execute default settings for source select, and audio levels, and shall coordinate these default preferences during the CSP meetings.
 4. Source Routing and Control
 - a. Video Routing
 - 1) The GUI shall give the user the ability to select any available video source and route it to any and all endpoints, including specific sources and endpoints in remote locations in the local building for overflow purposes (coordinate these during the CSP meetings). After routing a source to an endpoint, both shall remain highlighted or in a pressed state to indicate to the user the current route. The source routing approach will involve the user pressing the button for the

- source, then pressing the button for the endpoint. Do not use drag-and-drop assignment.
5. Audio control
 - a. Basic Mode (default setting at all touch panels) is accessible in technician mode by selecting “basic mode” on the GUI
 - 1) Volume fader for program audio, with mute button on ribbon.
 - 2) Volume fader for the presenter microphone, with mute button.
 - 3) All wireless microphone channels (excluding the presenter’s microphone) shall be configured to the same perceivable loudness level, then all microphone channels volumes are raised/lower together via this fader. 4) Program audio routing will follow video source routing.
 - b. Technician Mode (Technician mode is accessible in basic mode by selecting “advanced mode” on the GUI and entering the password):
 - 1) Volume fader for program audio, with mute button on ribbon.
 - 2) Volume fader for the presenter microphone, with mute button.
 - 3) Audio mixing page with individual faders and mutes for each microphone and program audio channel.
 - 4) Program audio routing will follow video source routing. However, the advanced mode shall have an audio page that allows the user to manually route different audio sources (separate from the routed video source) to the speakers and record/stream feeds instead.
 - N. Wireless Video systems
 1. Wireless systems will be deployed throughout the project. The Integrator shall coordinate with the Owner’s IT team to develop a strategy for providing the below:
 2. Owner-approved approach for allowing employees and/or guests to sign on to the required Wifi network and for wireless video systems. Coordinate security certificates as required.
 3. Adequate bandwidth allocations and QoS for wireless streaming while simultaneous viewing of videos on the internet via WiFi.
 4. If the wireless video system uses proprietary non-network RF communication via the use of dongles, ensure that the system is configured for the correct frequencies, the driver software is loaded to typical presentation devices, and that all devices are paired

APPENDIX F - SUBMITTAL DRAWING CHECKLIST

- A. FORM (ALL SHEETS)
1. Submittal copy quantity requirements satisfied
 2. Submittal content satisfied
 3. Adequate sheet size for drawing
 4. All notes and other text legible throughout the drawing set
 5. Contact info for each responsible party (architect, owner, Integrator, etc...) clearly printed on the drawings
 6. Table of contents with necessary fields present (Sheet Title, Sheet Number, Description, etc...)
 7. Drawing titles and sheet names match the Table of Contents
 8. Sheet titles make sense
 9. Drawing order makes sense
 10. Spelling checked and corrected
- B. FIT (EQUIPMENT LAYOUT PLAN, RCP, ELEVATION, DETAILS)
1. All of the equipment shown on plan view in the correct position
 2. All equipment uniquely identified
 3. Equipment clearances throw distances, and elevations clearly marked, dimensioned and noted
 4. If in scope, detail drawings for the hanging/installation/mounting of projectors, screens, cameras, surface mounted loudspeakers, ceiling suspended loud speakers, wall or floor mounted racks, displays, microphones, antennas and sensors, and camera/speaker housings
 5. Equipment mounting details for equipment (composite weight including hardware) over 40 lbs. include the stamp of the Approved Licensed Structural Engineer.
 6. Details contain manufacturer and model numbers for each part, detail key referenced back to Equipment layout, weight, and clearance requirements
 7. Detail reference keys for every piece of equipment permanently installed overhead
- C. FIT (CABLE FILL FORM, OR PLAN AND RCP)
1. Conduits uniquely identified
 2. Cable types identified by make and model number
 3. Cables leaving rooms uniquely identified
 4. Cable quantities/types correct
 5. Cables segregated by type/signal level when possible
- D. FIT (RACK, FURNITURE RACK LAYOUTS AND ELEVATIONS)
1. Racks have a unique ID
 2. All equipment uniquely identified within each rack layout
 3. Blanks, vents, and fans positioned properly with respect to the actual heat generating equipment
 4. Layout functional for daily use
 5. Mounting of any external equipment such as monitors, speakers, and desk shelves detailed
 6. Detail covering grounding, bonding, and the pass through of conduits to and from the racks
- E. FIT (CUSTOM FURNITURE DRAWINGS)
1. Furniture drawings accurately show the form fit and function of the original design intent
 2. Cable pass-troughs and equipment access panels appropriate for daily use
 3. Finish samples provided unless finishes are pre-approved by owner/architect
 4. Furniture uniquely identified and keyed to Equipment Layout Plans, Rack elevations, and System Line Diagrams

5. Furniture drawings contain enough detail for custom fabrication by furniture vendor
 - F. FIT (CUSTOM PANELS AND PLATES)
 1. Plate drawings include the following manufacturing details: material type and thickness; plate finish; engraving/screening size, color, and font style; bevel and mounting hole details; connectors and switches identified by make and model number; and connector mounting method (pressure fitting, nuts and bolts, etc...)
 2. All plates uniquely identified and keyed to match line diagrams and equipment layouts
 - G. FUNCTION (SYSTEM LINE DIAGRAMS)
 1. Signal flow from input to output, left to right
 2. Wiring notes make sense
 3. System line diagrams accurately reflect the original system design intent
 4. Equipment shown identified by manufacturer, model number, and a product description
 5. All of the equipment shown has a unique ID matching the plate drawings, rack elevations, and equipment layout plans and RCP's
 6. All field and rack wires uniquely identified by number
 7. All terminal strips identified by locations and numbered
 8. All rack power circuits and power control sequencing circuits identified, and all sequenced and controlled power devices identified in a table with means of controlling power state identified
 9. All pre-made cables indicated by manufacturer, make, and model number
 10. Calculated measurements for RF level for taps, drops, splitters, and amps
 11. All wires identified by signal type (MIC, Line, RGB, Serial, Etc...)
 12. Details for DIP switch settings, IP Addresses, Baud Rates or equipment modifications
 13. Detailed pin outs for all Integrator manufactured cables
 14. System line diagrams contain detail markers of where to find pin out details
 15. System line diagrams indicate the impedance at amplifier outputs for all speaker lines
 - H. MISC (MISC CONSTRUCTION DETAILS)
 1. Details and elevations for any custom built equipment, architectural oddities, or any other Integrator work not covered elsewhere
 - I. EQUIPMENT LIST
 1. Variances from the original basis of design clearly marked
 2. All of the necessary equipment accessories included
 3. Equipment identifiers match those on the drawings
 4. Equipment quantities match those of the drawings
- APPENDIX G - EQUIPMENT LIST SPREADSHEET
- A. Attached to this section is the Consultant's suggested AV equipment list based on the AV System drawings and Specifications. This information may be used by the potential bidders as a starting point in determining overall quantities of items and to indicate the allocation of devices budgeted in individual areas.
 - B. Integrators are cautioned that while the Consultant has made a good faith effort in preparing this list to be as coordinated and complete as possible, this list may not be complete, may have discrepancies against the drawings, and may not indicate all pertinent information required to prepare an accurate bid.
 - C. The Integrator is solely responsible for the completeness and accuracy of take-offs and bids.
 - D. All information indicated on this equipment list, including but not limited to quantities, manufacturers, model numbers and room allocations are non-binding, and neither the Owner nor the Consultant is obligated to accept the information, in original or altered form, from the Integrator as the final Bill of Quantities.

2023005

ALTADENA MAIN LIBRARY
ALTADENA LIBRARY DISTRICT

08.15.2025

10.28.2025BID SET – ADDENDUM 06

- E. The Integrator shall supply a complete and operable system meeting the requirements of the construction documents (drawings and specifications) regardless of information indicated on the AV Systems Equipment List.
- F. This spreadsheet is included may be obtained from the Consultant in Microsoft Excel (.xls) format for use in the preparation of the Bids.

END OF SECTION 27 41 16.01