BID ADDENDUM 2 – DSA ADDENDUM NO. 9 DATE: 10/06/2026

PROJECT:
SANGER EDUCATION COMPLEX – PHASE 3b
Development of Building L, associated site development work and Alternate Bid 1
1850 S. Fowler Ave, Fresno, CA 93727



OWNER:
SANGER UNIFIED SCHOOL DISTRICT
1905 Seventh Street
Sanger, CA 93657

ARCHITECT:
DARDEN ARCHITECTS, INC.
Attention: Mike Fennacy
6790 N. West Avenue
Fresno, California 93711
T. (559) 448-8051
F. (559) 446-1765

DARDEN PROJECT NO. 2171.L
DSA APPL. NO. 02-120779

It will be the responsibility of the General Contractor to submit the information contained in this addendum to all its subcontractors and suppliers. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

The following additions, deletions, and revisions to the SHEETS and Project Manual are hereby made and do become a part of these Contract Documents.

INDEX OF ADDENDA TRANSMITTED HEREWITH

CHANGES TO BIDDING CONDITIONS..... AD9-CBC01 thru AD9- CBC13
CHANGES TO PREVIOUS ADDENDUM..... AD9-CPA01

CHANGES TO SPECIFICATIONS..... AD9-SP01 thru AD9-SP14

CHANGES TO SHEETS:

- ARCHITECTURAL..... AD9-A01 thru AD9-A09
- CIVIL..... AD9-A01 thru AD9-C01
- PLUMBING..... AD9-A01 thru AD9-P01
- MECHANICAL..... AD9-A01 thru AD9-M01
- ELECTRICAL..... AD9-A01 thru AD9-E01

SPECIFICATIONS:

- 00 31 19 EXISTING CONDITION INFORMATION ..... 3 pages & 48 Sheets
- 01 50 00 TEMPORARY FACILITIES AND CONTROLS ..... 17 pages
- 01 77 20 PROJECT CLOSEOUT ..... 7 pages

DRAWINGS:

- ARCHITECTURAL..... 2 sheets
- MECHANICAL..... 1 sheet
- ELECTRICAL..... 1 sheet

CHANGES TO BIDDING CONDITIONS

AD9- CBC01 Qualifications.

1. Refer to the Request for Proposals and Qualifications (RFPQ), Sections I.C and IV.E.
2. Prequalification is required for the prime contractor (Class A or B license) and for any MEP contractor or subcontractor performing work that requires one of the following license classifications: C-4, C-7, C-10, C-16, C-20, C-34, C-36, C-38, C-42, C-43, or C-46. Accordingly, the Fire Sprinkler Subcontractor (C-16) and Sheet Metal Subcontractor (C-43) are considered MEP subcontractors and must be prequalified no later than five (5) business days prior to the proposal due date and remain prequalified at the time proposals are submitted.
3. As stated in RFPQ Section I.C, prequalification requirements are determined by the scope of work a subcontractor will perform on this Project, not solely by the licenses the subcontractor holds. An MEP subcontractor is any subcontractor performing work that requires a C-4, C-7, C-10, C-16, C-20, C-34, C-36, C-38, C-42, C-43, or C-46 license. For example, a subcontractor that holds a C-36 license but is performing only C-8 concrete work, and no work requiring one of the listed MEP license classifications, is not required to be prequalified. However, any subcontractor performing work that requires one of the listed MEP license classifications must be prequalified no later than five (5) business days prior to the proposal due date and remain prequalified at the time proposals are submitted.

AD9- CBC02 Time of Completion and Start Date

1. Refer to the RFPQ
2. The Contract Time of 548 calendar days governs (RFPQ Section IV.B and Lease-Leaseback Agreement, Section 3).
3. Refer to RFPQ Sections I.E and IV.B. Award by the Board of Trustees is planned for December 8, 2026. Construction is anticipated to start on or about January 27, 2027.
4. Revise RFPQ Section IV.B, last sentence, to read: "Based on the anticipated construction start date, it is anticipated that the deadline to complete the Work will be on or about July 28, 2028.

AD9- CBC03 Pre-Bid RFI Deadlines

1. Refer to the Request for Proposals and Qualifications (RFPQ), Sections I.B and I.F. Questions and suggested edits must be submitted to the District Purchasing Department by October 15, 2026.
2. The District will respond only by written addendum issued by October 20, 2026.

AD9- CBC04 Basis of Award

1. Refer to RFPQ Section IV.A (Alternate Bid Scope) and Section V (Lump Sum Price Proposal Portion).
2. The lump sum price portion of the best value analysis is scored on the total of the Base Proposal Amount plus Alternate No. 1 (North Parking Lot) as an additive item.
3. The District reserves the right to add or deduct Alternate No. 1 after the best value proposal is determined.

AD9- CBC05 Base Bid and Alternate Bid

1. There is one alternate only: Alternate No. 1 – North Parking Lot (RFPQ Section IV.A and Proposal Form, Exhibit G).
2. Building L and the adjacent site work, was designated as "Alternate Bid No. 4 – Bldg L w/ Adj Site L" on the DSA-approved Drawings, but this is no longer an alternate bid and is Base Bid for this solicitation.
3. Other than the North Parking Lot Alternate Bid #1, disregard all other alternate designations on the Drawings.

AD9- CBC06 General Contingency and Special Allowances.

1. Refer to RFPQ Section III.D, Lease-Leaseback Agreement Article 4, and the Proposal Form (Exhibit G).
2. The Base Proposal Amount shall include the $800,000 general contingency allowance and the $500,000 in special allowances listed in RFPQ Section III.D, a total of $1,300,000.
3. Do not include these amounts in Alternate No. 1.

AD9- CBC07 Use of the General Contingency and Special Allowances.

1. These are both Owner allowances.
2. Refer to Lease-Leaseback Agreement Article 4 and General Conditions Section 3.8.
3. Any payment from a special allowance or the general contingency allowance is entirely at the discretion of the Owner and requires the Owner's advance written approval.
4. Requests shall follow the Contract Documents' procedures for Notices of Potential Change, Change Order Requests, and Claims.
5. Unspent and unencumbered allowance amounts remain the property of the Owner and will be credited to the Owner at Completion.

AD9- CBC08 Deferred Approvals.

1. Refer to Sheet G000, Deferred Approvals, and General Conditions Section 3.11.5. Deferred approval submittals shall be submitted and processed in accordance with the requirements of Division 1 of the Specifications. Any delays associated with review or approval by DSA or any other regulatory agency shall be the responsibility and risk of the requesting party. In accordance with General Conditions Section 1.2.2.2, requirements contained within an approved deferred approval package shall take precedence over previously issued drawings, specifications, addenda, or other Contract Documents.
2. For Windows, SSG, Storefronts, and Curtain Walls: All window, structural silicone glazing (SSG), storefront, and curtain wall openings shall be provided under this deferred approval. The design, fabrication, and installation shall comply with the requirements of DSA IR 24-2. SSG systems shall be designed in accordance with CBC Section 2410.1.1 and shall meet the testing and inspection requirements of CBC Section 2410.1.2.
3. For Translucent Panel Wall System and Skylights:
   The translucent panel wall system and skylights for Building L shall be provided under this deferred approval. Refer to the Building L plans and Details X/A425 and X/A514 for requirements. Design and installation shall comply with DSA IR 24-2
4. The Contractor, through its trade subcontractor, shall provide the delegated design of these deferred approvals. This includes framing members, anchorage and attachment to the building structure, connection hardware, and supporting calculations, prepared and signed by a Structural Engineer licensed in the State of California, for submittal through the Architect to DSA.
5. The deferred approval applies to all openings of these system types indicated on the Drawings.
6. Supporting structural framing shown on the DSA-approved Structural Drawings is not part of the deferred submittal and shall be provided as indicated.

AD9- CBC09 Deferred Approvals - Skylights

1. The delegated design for the skylights includes the skylight unit, its framing, and its anchorage and attachment to the curb, with supporting calculations prepared and signed by a Structural Engineer licensed in the State of California.
2. Roof framing, openings, and curb support framing indicated on the DSA-approved Structural Drawings are not delegated and shall be provided as indicated.
3. Flashing and waterproofing at the skylight-to-curb and curb-to-roof interfaces shall comply with the skylight manufacturer's requirements and the roofing and sheet metal specification sections.

AD9- CBC10 Deferred Approvals – Special Allowance

1. Modifications required as a result of approved deferred approval submittals, including impacts to trades other than the deferred approval trade, shall be addressed through the $50,000 Special Allowance for Modifications in accordance with RFPQ Section III.D and Article 4 of the Lease-Leaseback Agreement.

AD9- CBC11 Permits and Fees

1. Contractor-paid items include:
2. San Joaquin Valley Air Pollution Control District Dust Control Plan fees, SWPPP/Construction General Permit fees, Cal/OSHA permits.
3. Design and Engineering fees for the deferred approval submittals
4. Fees for the City of Fresno Fire Department review of the ERRCS submittal.

AD9- CBC12 Contractor Staging Area and Parking

1. Contractor staging, laydown, field offices, and worker parking shall be located west of the Building L Site Area (approximately 3 acres) described in RFPQ Section IV.A, and as coordinated with the District.
2. Use of existing campus parking lots or paved areas outside the Building L Site Area requires prior District approval, and those areas shall be documented, protected, cleaned, and restored in accordance with Specification Section 01 50 00, Articles 3.10 and 3.11.

AD9- CBC13 Temporary Utilities

1. Temporary power, water, and all other temporary utilities and facilities required for construction shall be the sole responsibility of the Contractor. In accordance with RFPQ Section III.D.1, the lump sum proposal shall include all costs associated with temporary facilities and utilities, including but not limited to electricity, water, sanitation, waste removal, and related services.
2. Specification Section 01 50 00 – Temporary Facilities and Controls is hereby modified to delete Subparagraph G.2 (Owner-paid water) and Subparagraph H.2 (Owner-paid electrical service).
3. The Contractor shall arrange for, provide, and pay all costs associated with construction water and electrical service in accordance with Subparagraphs G.1 and H.1.
4. Existing site utilities, including power, water, and other services, may be utilized only with prior District approval and only when such use does not disrupt or adversely affect the operation of the existing school campus.

CHANGES TO PREVIOUS ADDENDUM:

AD9-CPA1 **Refer to Addendum 8,**

1. Omit 01 50 00 – TEMPORARY FACILITIES AND CONTROLS AD8 and replace the sheet with the attached 01 50 00 – TEMPORARY FACILITIES AND CONTROLS AD9.
2. The changes to the spec are in red text.

CHANGES TO SPECIFICATIONS:

AD9-SP01 **Refer to Specification Section 01 77 20 – PROJECT CLOSEOUT**

1. Omit 01 77 20 – PROJECT CLOSEOUT and replace the section with the attached 01 77 20 – PROJECT CLOSEOUT AD9.
2. The changes to the spec are in red text.

AD9-SP02 **Refer to Specification Section 01 91 13 - GENERAL COMMISSIONING REQUIREMENTS**

1. Add this note to this specification.

   Lawrence Engineering Group is the third party commissioning agent required to comply with section 019113 General Commissioning Requirements, CalGreen, and California Energy Code. Lighting and Mechanical subcontractor will require a certified Acceptance Test Technician (ATT) to complete the NRCA compliance and verification form.

AD9-SP03 **Refer to Specification Section 03 35 10 – POLISHED CONCRETE FINISHING.**

1. Specification Section 03 35 10 – POLISHED CONCRETE FINISHING is Not In Contract (NIC).
2. Omit this specification and strike it out from the table of contents

AD9-SP04 **Refer to Specification Section 10 05 00 – MISCELLANEOUS SPECIALTIES.**

1. Refer to the Specifications for miscellaneous specialties requirements. Only those miscellaneous specialties specifically identified on the Building L drawings and referenced details are required to be provided under this Contract.
2. All other miscellaneous specialties referenced in the Specifications but not shown on the Building L drawings or associated details may be disregarded and are not included in the scope of Work.

AD9-SP05 **Refer to Specification Section 10 51 16– PLASTIC LAMINATE LOCKERS.**

1. Plastic laminate (phenolic) lockers are NIC;
2. Section 10 51 16– PLASTIC LAMINATE LOCKERS applies only to the locker bench as indicated in the Interior Elevations for Dressing Rooms L116 and L118.

AD9-SP06 **Refer to Specification Section 10 56 26 – MOBILE STORAGE UNITS.**

1. Specification Section 10 56 26 – MOBILE STORAGE UNITS is Not In Contract (NIC).
2. Omit this specification and strike it out from the table of contents
3. Note: Instrument storage cabinets in Building L are provided under Section 11 62 00 – MUSIC EQUIPMENT.

AD9-SP07 **Refer to Specification Section 11 40 00 – FOOD SERVICE EQUIPMENT**

3. Specification Section 11 40 00 – FOOD SERVICE EQUIPMENT is Not In Contract (NIC).
4. Omit this specification and strike it out from the table of contents.

AD9-SP08 **Refer to Specification Section 11 66 00 – ATHLETIC EQUIPMENT**

1. Specification Section 11 66 00 – ATHLETIC EQUIPMENT is Not In Contract (NIC).
2. Omit this specification and strike it out from the table of contents.
3. Note: Section 09 65 66 – RESILIENT ATHLETIC FLOORING remains in the Contract where indicated on the Building L drawings.

AD9-SP09 **Refer to Specification Section 11 66 43 – SCOREBOARDS.**

1. Specification Section 11 66 43 – SCOREBOARDS is Not In Contract (NIC).
2. Omit this specification and strike it out from the table of contents.

AD9-SP10 **Refer to Specification Section 12 66 13.02 – TELESCOPING BLEACHERS.**

1. Specification Section 12 66 13.02 – TELESCOPING BLEACHERS is Not In Contract (NIC).
2. Omit this specification and strike it out from the table of contents.
3. Note: Telescoping seating for the Black Box Theater shall be provided in accordance with Section 12 66 23 – TELESCOPIC SEATING, as revised by Addendum 8 (AD8-SP15), which remains in the Contract.

AD9-SP11 **Refer to Specification Section 28 55 00 & 28 55 10 for the ERRCS.**

1. Add the following note:

   Refer to Sheet G000, Deferred Approval No. 6 – Emergency Responder Radio Coverage System (ERRCS). The ERRCS shall be provided under a deferred approval submittal and shall be designed, permitted, and installed in accordance with Specification Sections 28 55 00 and 28 55 10, the California Fire Code (CFC) Section 510, NFPA 1221, NFPA 72, and all applicable requirements of the City of Fresno Fire Department in effect at the time the deferred approval package is submitted.

   The Contractor shall be responsible for performing the required radio coverage survey, coordinating with the City of Fresno Fire Department, and obtaining all necessary reviews and approvals.

   The ERRCS equipment, performance criteria, testing, and acceptance requirements shall comply with the current City of Fresno Fire Department Emergency Responder Communication Enhancement System (ERCES/ERRCS) policies and procedures.

   Antenna and rooftop equipment anchorage submitted for DSA review shall be included as part of the deferred approval package.

   Current Fresno Fire Department ERRCS information and requirements may be accessed at the following links: https://www.fresno.gov/fire/errc-testing/ and https://in-buildingwireless.com/wp-content/uploads/2025/09/Fresno-ERCES-Requirements.pdf.

   Contractors are advised that the governing requirements will be those in effect and enforced by the City of Fresno Fire Department at the time of permit review and deferred approval submission.

   The ERRCS shall be provided and installed as part of the Work regardless of the results of the radio signal strength survey/testing. No credit or deductive change order will be issued based on the survey results.

AD9-SP12 **Refer to Specification Section 31 20 00 – EARTHWORK.**

1. The geotechnical report is available to proposers for information:
2. Geotechnical Investigation, prepared by BSK & Associates, Report No. G21-049-11F, dated March 17, 2021.
3. Copies may be obtained from BSK & Associates at the proposer's expense.
4. Refer to General Conditions Section 2.2.3.2 regarding Contractor reliance on soils reports; the Owner does not assume responsibility for the sufficiency or accuracy of the report or for interpretations made from it.

AD9-SP13 Refer to Specification Section **32 18 16 – CLAY INFIELD SURFACING**.

1. Specification Section 32 18 16 – CLAY INFIELD SURFACING is Not In Contract (NIC).
2. Omit this specification and strike it out from the table of contents.

CHANGES TO SHEETS:

ARCHITECTURAL:

AD9-A01 Refer to Sheet X/A515

1. Strike out and omit Detail J8 – Edge of Roofing to Vertical Framing.
2. Building L does not have Single Ply Roofing, and a Built-Up Roof System is used.

AD9-A02 Refer to Sheet X/A403, Opening schedule comments

1. Revise all locations where shades are identified as Owner-Furnished, Contractor-Installed (OFCI) to read "Shades, Contractor-Furnished, Contractor-Installed (CFCI); refer to Specification Section 12 24 13." Provide all shades as Contractor-Furnished, Contractor-Installed (CFCI) in accordance with Specification Section 12 24 13 – Shades, issued under Addendum No. 5, including all labor, materials, equipment, accessories, and coordination required for a complete and operational installation.

AD9-A03 Refer to Sheet X/A415, Opening schedule comments

1. Revise all locations where shades are identified as Owner-Furnished, Contractor-Installed (OFCI) to read "Shades, Contractor-Furnished, Contractor-Installed (CFCI); refer to Specification Section 12 24 13." Provide all shades as Contractor-Furnished, Contractor-Installed (CFCI) in accordance with Specification Section 12 24 13 – Shades, issued under Addendum No. 5, including all labor, materials, equipment, accessories, and coordination required for a complete and operational installation.

AD9-A04 Refer to Sheet X/A605

1. Refer to Details J11, J14, N14, and k18.
2. Revise all locations where shades are identified as Owner-Furnished, Contractor-Installed (OFCI) to read "Shades, Contractor-Furnished, Contractor-Installed (CFCI); refer to Specification Section 12 24 13." Provide all shades as Contractor-Furnished, Contractor-Installed (CFCI) in accordance with Specification Section 12 24 13 – Shades, issued under Addendum No. 5, including all labor, materials, equipment, accessories, and coordination required for a complete and operational installation.

AD9-A05 Refer to the sheet L/A121.4 – INTERIOR ELEVATIONS.

1. Refer to Detail A1/L/A121.4 – Enlarged Locker Plan – L117 and Sheet L/A604.4.

2. The 3-tier lockers in L117 are Metal Lockers and shall be provided in accordance with Section 10 51 13 – METAL LOCKERS.

3. The locker bench noted "PLASTIC LAMINATE LOCKERS, Bench" on Sheet L/A604.4 shall be provided in accordance with Section 10 51 16 – PLASTIC LAMINATE LOCKERS, Article 2.3 – Matching Bench.

4. Plastic laminate (phenolic) lockers are NIC; Section 10 51 16– PLASTIC LAMINATE LOCKERS applies only to the locker bench as indicated in the Interior Elevations for Dressing Rooms L116 and L118.

AD9-A06 Refer to Sheet L/A303.4

1. Omit Sheet L-A303.4 and replace it with the attached L-A303.4 AD9.
2. The Changes are clouded.
3. Detail Cuts have been added.

AD9-A07 Refer to Sheet **L-A513.4**

1. Omit Sheet L-A513.4 and replace it with the attached L-A513.4 AD9.
2. The Changes are clouded.
3. A Detail has been added.

AD9-A08 Refer to the interior elevation sheets L/A607.4, L/A610.4 and L/A613.4

1. Revise all locations where shades are identified as Owner-Furnished, Contractor-Installed (OFCI) to read "Shades, Contractor-Furnished, Contractor-Installed (CFCI); refer to Specification Section 12 24 13." Provide all shades as Contractor-Furnished, Contractor-Installed (CFCI) in accordance with Specification Section 12 24 13 – Shades, issued under Addendum No. 5, including all labor, materials, equipment, accessories, and coordination required for a complete and operational installation.

AD9-A09 Refer to the Sheet L/A801.4 - INTERIOR DESIGN- FLOOR PATTERN

1. Exposed concrete floors in Building L shall receive Clear Floor Sealer (CFS) in accordance with Section 03 30 00 – CAST-IN-PLACE CONCRETE, as noted on Sheet L/A801.4.
2. Specification Section 03 35 10 – POLISHED CONCRETE FINISHING is Not In Contract (NIC).

CIVIL:

AD9-C01 Refer to Civil Sheets SD/C301.4 and SD/C306.4

1. Refer to SWPPP Note #8, and add the following:

   A SWPPP is required for this project. The Contractor shall implement a Storm Water Pollution Prevention Plan (SWPPP) as required by the project specifications and the State Water Resources Control Board's Construction General Permit.

   Refer also to the RFPQ, Section III.D.1, which includes SWPPP in the Contractor's general conditions costs, and Section 01 29 73 – SCHEDULE OF VALUES, which lists Erosion Control (SWPPP) as a line item.
   Include all SWPPP preparation, BMP installation and maintenance, inspection, sampling and reporting in the bid.

   Permit Filings and Coordination:
   The District will file the Construction General Permit documents, including the Notice of Intent (NOI) and the Notice of Termination (NOT). The Contractor shall assist the District in preparing these filings by providing all required information, the SWPPP, site maps, BMP documentation, inspection reports, photographs, and records.

   Before each filing, the Contractor shall schedule and conduct a quality control meeting via Microsoft Teams with the District and the Civil Engineer's

Environmental Specialist, Michael Gennaro, BCF Engineering (MGennaro@bcf-engr.com). The purpose of the meeting is to review the filing package for completeness and accuracy so that it is not returned or rejected by the State Water Resources Control Board.

Final Stabilization of Disturbed Areas:
At the completion of construction, all disturbed soil areas within the limits of work not receiving paving, hardscape, building, or landscape improvements shall be permanently stabilized. This includes the open area west of Building L and the North Parking Lot area.

Final stabilization of the North Parking Lot area is part of the Base Bid. If Alternate Bid 1 (North Parking Lot) is awarded, seeding of the North Parking Lot area is not required. Any disturbed areas north of the new paving limits shall still be stabilized.

Stabilization shall be by hydroseeding with an erosion control seed mix, fiber mulch, and tackifier (or bonded fiber matrix).

Seed Mix Submittal:
The seed mix shall be submitted for review by BCF Engineering prior to application. The seed mix shall be selected based on the time of year it will be applied. Include the seed species, application rates, mulch and tackifier products, and the proposed watering method in the submittal.

Preparation:
Finish grade, remove construction debris, and scarify compacted soils before seeding.

Establishment:
Water as required to germinate and establish the seeding.
Maintain, re-seed, and repair bare or eroded areas until a uniform vegetative cover of at least 70% is achieved, meeting the final stabilization criteria of the Construction General Permit.

Dust Control:
Until vegetation is established, maintain stabilized areas free of visible dust emissions in accordance with SJVAPCD Regulation VIII and the approved Dust Control Plan (Section 31 11 00).
Where seeding cannot be established because of season or schedule, apply an SJVAPCD-approved soil binder or chemical stabilizer.

Removal of Temporary BMPs:
Remove temporary BMPs (fiber rolls, silt fence, inlet protection, stabilized construction entrances) once final stabilization is achieved. Repair any areas disturbed by the removal.

The Contractor remains responsible for stabilization and BMP maintenance until the NOT is accepted by the Regional Water Quality Control Board.

Include all costs for SWPPP compliance, filing assistance, coordination meetings, final stabilization, watering, maintenance, and re-seeding in the Base Bid.

PLUMBING:

AD9-P01 Refer to Plumbing Sheet SD/P101

1. Refer to the site work by Building Q.
2. This work is not needed. Strike this out and state "OMIT Not Part of this bid", as indicated below.

MECHANICAL:

AD9-M01 Refer to Mechanical Sheet X/M203

1. Omit Sheet X/M203 and replace it with the attached X/M203 AD9.
2. The Changes are clouded
3. The items in the schedules that are crossed out are not being used for Building L. The remaining equipment items are part of the scope of work for Building L.
4. IDU-L2 and ODU-L2 are clouded with Delta 5. That is a changed under a prior DSA approved Addendum 5.

ELECTRICAL:

AD9-E01 Refer to the attached sheet L/E203.4.

1. Add sheet L/E203.4 to the set of Bid Documents
2. This sheet is already DSA approved but was not included in the bid set of drawings. No changes to the DSA approved sheet has occurred.

END OF ADDENDUM NO. 9

SECTION 01 50 00 – TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:

1. Provide all material, labor, equipment and services necessary to completely install all Temporary Utilities, Support Facilities, and Protection Facilities materials, accessories and other related items necessary to complete the Project as indicated by the Contract Documents.

B. Related Sections: The following Project Manual Sections contain requirements that relate to this section:

1. ALL DIVISION 00 SPECIFICATION SECTIONS.
2. ALL DIVISION 01 SPECIFICATION SECTIONS.
3. ALL SPECIFICATION SECTIONS IN THE FACILITY CONSTRUCTION SUBGROUP.
4. ALL SPECIFICATION SECTIONS IN THE FACILITY SERVICES SUBGROUP.
5. ALL SPECIFICATION SECTIONS IN THE SITE AND INFRASTRUCTURE SUBGROUP.

1.2 SUBMITTALS

A. Submit in accordance with Specification Section - SUBMITTAL PROCEDURES:

1. Shop Drawings:
   a. Project Sign.
2. Quality Assurance/Control Submittal:
   a. Copy of Application to APCD for Dust Prevention and Control Plan.
   b. Copy of approved Application to APCD for Dust Prevention and Control Plan.
   c. Copy of Application to local City or County Engineer for Traffic Control.
   d. Copy of approved Application to local City or County Engineer for Traffic Control.
   e. Temporary Project Enclosure Plan.
   f. Site Safety Plan prior to initial filing of Construction Start Notice/Inspection Card Request.
   g. Pre-Construction Condition Documentation: Video recordings, photographs, and storm drain CCTV inspection video and report in accordance with Article 3.10.
   h. Pothole Log: Record of existing utilities exposed by hydro-excavation in accordance with Article 3.13.
   i. Pre-Construction Sanitary Sewer CCTV Inspection: Video and inspection report of the existing sanitary sewer at the point of connection in accordance with Article 3.14.
   j. Rough-In Waste Line CCTV Inspection: Video and inspection report of below-slab and below-grade plumbing waste lines, submitted before placing concrete, in accordance with Article 3.14.
3. Closeout Submittals:
   a. Post-construction storm drain CCTV inspection video and report in accordance with Article 3.12.
   b. Post-construction plumbing waste line CCTV inspection video and report in accordance with Article 3.14.

1.3 QUALITY ASSURANCE

A. Regulatory Requirements:

1. In accordance with Specification Section - REGULATORY REQUIREMENTS, and the following:
   a. CARB — Materials and equipment used for this Project shall comply with the current applicable regulations of the California Air Resources Board (CARB) and the Environmental Protection Agency (EPA), in the area where the project is located.
   b. CAL/OSHA — California Division of Occupational Safety and Health Administration

c. CF County of Fresno, Codes and Ordinances
d. EPA Environmental Protection Agency

B. Dust Prevention and Control Plan:
1. Prior to commencing the Work, prepare a Dust Prevention and Control Plan and obtain review and approval of the Air Pollution Control District (APCD) in the area where the project is located.
a. Prepare application and file with appropriate fees to APCD upon completion of Dust Prevention and Control Plan.
2. The Dust Prevention and Control Plan shall specify the methods of control that will be utilized, demonstrate the availability of needed equipment and personnel, and identify a responsible individual who, if needed, can authorize implementation of additional measures.
3. All construction shall comply with applicable elements of the APCD's regulations.
4. The Dust Prevention and Control Plan shall include, but not be limited to, the following:
a. Contractor's name and project identification information.
b. Procedures and measures to be implemented, but not be limited to:
1) All material excavated or graded shall be sufficiently watered to prevent excessive amounts of dust.
2) During periods of high winds, all clearing, grading, earth moving, or excavation shall cease when dust control measures are unable to avoid visible plumes.
3) All dust producing material transported off site shall be either sufficiently watered or securely covered to prevent excessive amounts of dust.
4) The area disturbed by clearing, earth moving, or excavation activities shall be minimized at all times.
5) All watering of areas shall be only to the extent required to keep the soil particles in a moist condition and not to the extent that erosion of surface soil occurs.
6) To control general fugitive dust, on-site vehicle speed shall be limited to 15 mph.
7) All areas with vehicle traffic shall be watered periodically for stabilization of dust emissions.
8) Periodically streets adjacent to the project site shall be cleaned as required to remove silts which may have accumulated from construction activities.

C. Traffic Control Plan:
1. Prior to commencing the Work, prepare a Traffic Control Plan and obtain approval of the local City or County Engineer in the area where the project is located.
a. Prepare application and file with appropriate fees to the local City or County Engineer upon completion of Traffic Control Plan.
2. The Traffic Control Plan shall include information on construction timing and phasing and proposed methods of alleviating potential hazardous and/or inconvenient conditions. Such methods can include, but are not limited to, the use of flagmen, barricades, signs, warning lights, detours, phased lane closures, coordination with adjacent property owners, and coordination with law enforcement, fire protection and other emergency service agencies.

1.4 SITE SAFETY PLAN

A. Contractor shall be responsible for the development, implementation, and maintenance of a written plan establishing a site safety plan at the project site applicable throughout all phases of the construction, repair, alteration, or demolition work.

B. It is the Contractor's responsibility to contact local Fire Authority to discuss the plan.
1. A copy of the report should be made available to the Project Inspector and local Fire Authority.
2. Plan will be turned over to the Owner and AHJ in compliance with rules and regulations, but will not be reviewed.

C. Regulatory References:
1. DSA BU 24-05 Bulletin: Fire Safety During Construction and Demolition.
2. CFC Chapter 33, Section 3308 and sub-sections.

D. Plan shall address at a minimum:

1. Project Phases.
    a. Describe each phase of the construction, repair, alteration, or demolition work.
2. Site Security Provisions.
3. Site Safety Director.
    a. Designate responsible program superintendent per CFC 3308.2.
    b. Include name and contact information.
4. Training Documentation.
    a. Document training of site safety director and fire watch personnel.
5. Emergency Reporting Procedures.
6. Fire Department Vehicle Access Routes.
7. Locations of fire protection equipment.
    a. Include portable fire extinguishers, standpipes, fire department connections and fire hydrants.
8. Smoking and Cooking Policies.
    a. Include designated area to be used where approved, and signage locations in accordance with CFC Section 3305.8.
9. Temporary Heating Equipment.
    a. Location and safety considerations.
10. Hot Work Operations.
11. Control Plan for Combustible Waste.
12. Control Plan for Flammable and Combustible Materials.
    a. Locations and methods for storage and use of flammable and combustible liquids and other hazardous materials.
13. Renovation Work Procedures.
    a. Procedure for impairment of fire protection systems.
    b. Procedure for temporary covering of fire protection devices.
14. Procedure for Changes.

1.5 TEMPORARY PROJECT ENCLOSURE PLAN

A. Prior to commencing the Work, prepare a Temporary Project Enclosure Plan indicating the protection of people, animals, and partial and fully completed work until occupancy by the Owner.

B. Identify temporary egress from existing occupied facilities and as required by authorities having jurisdiction.

C. The Temporary Project Enclosure Plan shall include, but not be limited to, the following:
1. Contractor’s name and project identification information.
2. Indicate the duration of the proposed measures based on the completion of the work as a whole and if any phases of work are identified.
3. Indicate proposed temporary fencing and potential exit and entry paths.
    a. Show gate and door locations and indicate who has access.
4. Indicate proposed temporary wall location(s) and potential exit and entry paths.
    a. Show door location(s) and indicate who has access.
5. Indicate type of material used for temporary fencing, walls, gates, and doors.
6. Indicate proposed temporary roads and paved areas.
7. Indicate proposed temporary offices and storage areas.

1.6 PROJECT CONDITIONS

A. Environmental Requirements:
1. Heating and Cooling:
    a. Provide temporary heating and cooling required by construction activities for curing, acclimating the building or drying of completed installations or for protecting installed

construction from adverse effects of low temperatures or high humidity. Select equipment that will not have a harmful effect on completed installations or elements being installed, and is maintained prior, during and after the installation in accordance with the exterior or interior building materials temperature and humidity guidelines.

1) Do not use heating units that contribute moisture to the enclosed spaces under construction.

2. Ventilation and Humidity Control:
   a. Provide temporary ventilation required by construction activities for curing, acclimating the building or drying of completed installations or for protecting installed construction from adverse effects of high humidity. Select equipment that will not have a harmful effect on completed installations or elements being installed. Coordinate ventilation requirements to produce ambient condition required and minimize energy consumption.
      1) Exterior Moisture Control:
         a) Perform the installation of all exterior building cladding only after the substrate to which they are being applied is dry and ready to receive them. Do not apply any cladding if it will trap moisture inside a wall or roof cavity (i.e. insulation that has become wet for whatever reasons).
      2) Interior Moisture Control:
         a) Perform the installation of all interior moisture sensitive building materials only after the building or space is acclimated to the final environmental conditions under which the building is to be operated in accordance with the Owner's humidity control guidelines.
   b. Maintain a consistent humidity in accordance with the guidelines for those materials in the space at least seven (7) days prior to installation of any moisture sensitive materials (i.e. Veneer Plaster, Gypsum Board, Ceiling Tiles, Wood Sensitive Floors, other Flooring sensitive to moisture levels, Interior Painting, etc.).
   c. Maintain the same levels of temperature and humidity during the installation of those materials, and after the installation of those materials until the building's own mechanical systems can be turned on to maintain the facility within the Owner's temperature and humidity control guidelines.
   d. Replace any materials that have become wet and damaged due to the Contractor not properly protecting installed building materials at no additional cost to the Owner.
3. Dust control:
   a. Perform work in a manner as to minimize the spread of dust and flying particles.
   b. Thoroughly moisten all surfaces as required to prevent dust from being a nuisance to the public, neighbors and concurrent performance of other on-site work.
4. Burning: No burning will be allowed on-site.
5. Noise Control:
   a. Stationary noise sources shall be of a low-noise emission design, consistent with the best available noise reduction technology.
   b. The hours of operation of noise-generating equipment shall be restricted to 6:00 a.m. to 7:00 p.m. Monday through Friday, and to 8:00 a.m. to 6:00 p.m. on Saturday and Sunday.
   c. Mufflers shall be required on all gas and diesel-powered equipment.

B. Existing Conditions:
1. Examine site and compare it with the drawings and specifications. Thoroughly investigate and verify conditions under which the work is to be performed. No allowance will be made for extra work resulting from negligence or failure to be acquainted with all available information concerning conditions necessary to estimate the difficulty or cost of the work.

1.7 SCHEDULE, ADVERSE WEATHER, EXCAVATION PROTECTION, SOIL STABILIZATION, AND TEMPORARY WORKING SURFACE REQUIREMENTS

A. Adverse Weather Planning: The Contractor shall include within the Contract Time and Contract Sum an allowance for 2.5 months of cumulative rain delays and associated impacts. The Project

is anticipated to experience significant and prolonged wet weather conditions during the construction period.

1. The Contractor shall be solely responsible for planning and executing all operations necessary to maintain progress during wet weather, including but not limited to:
    a. Temporary drainage systems.
    b. Dewatering operations.
    c. Soil stabilization.
    d. Erosion and sediment control measures.
    e. Access road maintenance.
    f. Protection of excavations.
    g. Pumping, diversion, and removal of stormwater.
    h. Rehandling of materials affected by weather.
2. No additional compensation or time extension shall be granted for normal seasonal rainfall, wet soil conditions, groundwater management, or other foreseeable weather-related impacts included within this allowance.

B. Foundation Excavation Protection and Slurry Cap: All building foundations shall be excavated 3 inches deeper than the elevations shown on the Contract Documents.

1. Immediately upon approval of the foundation bearing surface, the Contractor shall place a 3-inch-thick lean concrete slurry cap (mud slab) over the entire footing excavation bottom. The slurry cap shall:
    a. Protect the approved bearing surface from disturbance.
    b. Prevent degradation of foundation subgrade due to rain and groundwater.
    c. Allow removal of sloughed or softened material without disturbing approved bearing soils.
    d. Facilitate cleanout of foundation excavations following storm events.
2. Any sloughed, softened, or otherwise unsuitable material deposited above the slurry cap shall be removed immediately prior to footing construction. The Contractor shall maintain excavations in a dry and stable condition at all times.

C. Excavation Sidewall Stabilization: Where foundation excavations are anticipated to remain open during rainy periods, the Contractor shall provide temporary sidewall protection to minimize erosion, sloughing, and sediment migration into excavations.

1. Acceptable methods include:
    a. Burlap lining.
    b. Jute matting.
    c. Erosion control blankets.
    d. Geotextile fabrics.
    e. Other approved temporary stabilization systems.
2. The stabilization material shall be securely anchored and maintained throughout the duration of the excavation. Excavation sidewalls shall be inspected following each rain event and repaired as necessary prior to continuation of work.

D. Utility Trench Operations: Utility trench work shall be sequenced to minimize the duration of open trench conditions.

1. Except where specifically approved by the Owner or Engineer, the Contractor shall:
    a. Excavate, install utilities, test, and backfill within the same work shift whenever practical.
    b. Minimize the total length of open trench exposed at any one time.
    c. Prevent surface water from entering excavations.
    d. Maintain trenches free of standing water.
    e. Restore all disturbed areas immediately following utility installation.
2. Open utility trenches shall not be left exposed during forecasted rain events unless specifically approved and adequately protected. Following rain events, all trenches shall be inspected, cleaned, reconditioned, and restored to design grade prior to utility installation or backfilling. Water accumulation and saturated trench conditions require corrective measures and reinspection before work proceeds.

E. Temporary Working Surface and Soil Stabilization: The Contractor shall provide and maintain temporary soil stabilization sufficient to support construction traffic, deliveries, equipment

operations, emergency access, and the work of all trades throughout the Project duration. Areas exhibiting rutting, pumping, excessive moisture, loss of bearing capacity, or unstable soil conditions shall be stabilized at the Contractor's expense.

1. At a minimum, the Contractor shall provide temporary all-weather construction access roads, staging areas, crane pads, and building pad working surfaces consisting of:
    a. Nonwoven geotextile separator fabric placed directly on prepared subgrade.
    b. Geogrid reinforcement where pumping, yielding, or unstable subgrade conditions are encountered.
    c. A minimum of 12 inches of compacted Class II aggregate base, crushed rock, or approved equivalent working platform material.
2. The Contractor shall increase section thickness and geogrid reinforcement as necessary to maintain a stable, trafficable surface for construction operations. Alternative stabilization methods may include:
    a. Lime treatment.
    b. Cement treatment.
    c. Chemical stabilization products.
    d. Aggregate working platforms.
    e. Geotextile reinforcement systems.
    f. Geogrid reinforced working surfaces.
    g. Other Engineer-approved methods.
3. The intent of this requirement is that construction operations remain functional during periods of wet weather and that trade contractors are able to perform work without excessive delays resulting from muddy, pumping, or unstable soil conditions.

F. Contractor Responsibility: The Contractor shall be solely responsible for all means and methods associated with temporary works, weather protection, excavation protection, dewatering, soil stabilization, access maintenance, erosion control, sediment control, and maintenance of suitable working conditions.
1. Claims for additional compensation associated with foreseeable wet-weather impacts, unstable soil conditions, excavation deterioration, trench collapse, groundwater management, access maintenance, pumping soils, or insufficient temporary stabilization measures shall not be considered. The Contractor shall include all costs associated with these requirements in its bid.

G. Acknowledgment of Anticipated Conditions: The Contractor acknowledges that the Project will be constructed during the rainy season and that periods of prolonged precipitation, saturated soils, difficult excavation conditions, groundwater intrusion, pumping subgrades, and reduced site accessibility are anticipated conditions and have been included in the Contractor's bid and schedule.

H. Coordination with Related Sections: This Article supplements, and shall be coordinated with, the Project's Geotechnical Investigation Report and Division 31 – Earthwork specification sections for this Project. Where a conflict occurs between this Article and those references, the more stringent requirement shall govern.

I. Building Protection & Weather-Tight Construction: The Contractor shall protect all existing facilities, newly constructed work, partially completed construction, installed materials, equipment, building systems, and finishes from damage caused by rain, wind, groundwater, surface runoff, dust, temperature extremes, and other environmental conditions throughout the duration of the Project.
1. The Contractor shall continuously implement and maintain temporary protection measures necessary to prevent water intrusion and deterioration of the Work. Protection measures shall include, but not be limited to, temporary roofing, waterproof coverings, weatherproof enclosures, temporary walls, protection of openings, stormwater diversion measures, tarping, shrink-wrap systems, pumping, dehumidification, and other measures required to maintain the Work in a dry and protected condition.
2. Materials and equipment stored on-site shall be elevated above grade, adequately covered, and protected from weather exposure, standing water, and moisture accumulation. Moisture-

sensitive materials shall not be installed until substrates and surrounding conditions comply with manufacturer requirements.

3. The Contractor shall maintain all newly constructed buildings, additions, renovated areas, and partially completed construction in a weather-tight condition as Work progresses. No portion of the Work shall be enclosed, covered, or concealed while moisture is present within assemblies or construction materials beyond manufacturer-recommended limits.
4. The Contractor shall take all necessary precautions to prevent water intrusion into occupied areas, completed construction, concealed spaces, wall assemblies, ceiling assemblies, electrical rooms, communication rooms, mechanical spaces, and areas designated to receive moisture-sensitive finishes or equipment.
5. Following each storm event, the Contractor shall inspect the Project and immediately repair deficiencies in temporary protection systems. Any water intrusion, moisture damage, mold growth, corrosion, deterioration, staining, warping, contamination, or damage resulting from inadequate protection shall be corrected by the Contractor at no additional cost to the Owner.
6. Any materials, finishes, equipment, systems, or completed Work determined to be damaged as a result of weather exposure or inadequate protection shall be removed and replaced with new materials meeting the Contract Documents. Drying, cleaning, repair, and restoration efforts shall not relieve the Contractor of the obligation to provide new materials where damage or deterioration has occurred.
7. The Contractor shall include all costs associated with temporary weather protection, moisture control, inspections, temporary enclosures, dehumidification, drying operations, repairs, replacement of damaged materials, and maintenance of a weather-tight structure within the Contract Sum. No additional compensation or extension of Contract Time shall be granted for failure to adequately protect the Work.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Chain-Link Fencing: Minimum 2-inch, 0.148-inch- thick, galvanized-steel, chain-link fabric fencing; minimum 6 feet high with galvanized-steel pipe posts; minimum 2-3/8-inch- OD line posts and 2-7/8-inch- OD corner and pull posts, with 1-5/8-inch- OD top rails.

B. Portable Chain-Link Fencing: Minimum 2-inch, 0.148-inch- thick, galvanized-steel, chain-link fabric fencing; minimum 6 feet high with galvanized-steel pipe posts; minimum 2-3/8-inch- OD line posts and 2-7/8-inch- OD corner and pull posts, with 1-5/8-inch- OD top and bottom rails. Provide galvanized-steel bases for supporting posts.

C. Fencing Windscreen Privacy Screen: Polyester fabric scrim with grommets for attachment to chain-link fence, sized to height of fence, in color selected by Architect from manufacturer's standard colors.

D. Wood Barrier Fence: Plywood, 8 feet high, framed with four 2-by-4-inch rails, with preservative-treated wood posts spaced not more than 8 feet apart.

E. Polyethylene Sheet: Reinforced, fire-resistive sheet, 10-mil minimum thickness, with flame-spread rating of 15 or less in accordance with ASTM E84 and passing NFPA 701 Test Method 2.

F. Dust-Control Adhesive-Surface Walk-Off Mats: Provide mats, minimum 36 by 60 inches.

G. Insulation: Unfaced mineral-fiber blanket, manufactured from glass, slag wool, or rock wool; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively.

2.2 TEMPORARY FACILITIES

A. Field Offices:

1. General Note: Provide one (1) 2A:10B:C Wall Surface Mounted Fire Extinguisher in each field office as a minimum per the CSFM.
2. Contractor's Field Office:
   a. Size: Nominal 10 feet wide minimum, approximately 400 square feet minimum (half of this office is to be reserved for a conference room for job site meetings).
   b. Equipment:
      1) Table for review of Drawings.

2) Files, rack and shelves as required to store Contract Drawings and Project Record Drawings in a neat, orderly manner.
3) One copy of each code listed in Specification Section - REGULATORY REQUIREMENTS.
4) Telephone.
5) Internet Connection.
6) Plain Paper Copier / FAX Machine.
7) Conference room table and chairs for at least 10 people.

c. Facilities:
1) Adequate light and power.
2) Adequate heating, ventilation and air conditioning.

d. Control and Access:
1) Door shall be lockable and key shall be supplied to Architect and access shall be limited to Owner, Architect, Inspector and Contractor.

e. All of the above items shall be subject to Architect's approval.

3. Project Inspector's Field Office:
a. Size: Nominal 10 feet wide minimum, approximately 400 square feet minimum (sized for two (2) Owner's Inspectors, and a desk for the Architect's use).
b. Equipment:
1) Three (3) 48" x 96" layout tables for review of the drawings by each Inspector.
2) Three (3) 30" x 60" standard desks with two drawers on one side of each desk (the third desk will be used by the Architect when visiting the site).
3) Three (3) secretarial task chairs with five point rolling bases.
4) Three (3) 4-drawer legal size, full suspension, lockable file cabinets.
5) Three (3) 60" high x 36" wide x 12" deep free standing bookcases with four (4) adjustable shelves for each bookcase.
6) Three (3) 12-capacity rolling, vertical "Plan Holds" with adjustable brackets for 30" x 42" wide drawings.
7) Three (3) 36" x 48" tackboards mounted to walls as directed by the Owner's Inspector.
8) Three (3) drafting stools.
9) Space for one copy of each code listed in Specification Section - REGULATORY REQUIREMENTS.
10) Two telephones.
11) Internet Connection.
12) One Plain Paper Copier / FAX Machine.

c. Facilities:
1) Adequate light and power.
2) Adequate heating, ventilation and air conditioning (ducted central HVAC).
3) Electric water cooler with both hot and cold water.

d. Control and Access:
1) Door shall be lockable and key shall be supplied to Architect and access shall be limited to Owner, Architect, Inspectors and Contractor.

e. All of the above items shall be subject to Architect's approval.

2.3 EQUIPMENT

A. Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.

B. HVAC Equipment: Unless Owner authorizes use of permanent HVAC system, provide vented, self-contained, liquid-propane-gas or fuel-oil heaters with individual space thermostatic control.
1. Use of gasoline-burning space heaters, open-flame heaters, or salamander-type heating units is prohibited.

2. Heating, Cooling, and Dehumidifying Units: Listed and labeled for type of fuel being consumed, by a qualified testing agency acceptable to authorities having jurisdiction, and marked for intended location and application.

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.

D. Project Sign:

1. The Contractor shall furnish and erect at location as directed by the Architect one sign board approximately 4 feet x 8 feet, fabricated of 3/4 inch exterior grade plywood with a sturdy frame attached to 4 inch x 4 inch x 14 foot redwood posts set 4 feet in the ground minimum, and substantially braced.
2. The sign to be painted on signboard shall be of design in 4 colors as directed by the Architect.
3. Lettering shall be of style shown, neatly executed by a skilled sign painter.
4. The information to be lettered on sign shall be as furnished by the Architect.
5. Sign will include the names of the Contractor, Owner, Architect, and the project designation.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Site verification of conditions:

1. Report unacceptable conditions to the Architect. Do not begin work until unacceptable conditions have been corrected.
2. Execution of work under this specification section shall constitute acceptance of existing conditions.
3. Obtain all necessary permits and authorizations by regulatory agencies required to perform the work under this section.

3.2 PREPARATION

A. Coordination:

1. Before proceeding, verify plans match existing conditions.
2. Coordinate work under this specification with work specified under other sections to ensure proper and adequate interface of work.

B. Protection:

1. The Contractor shall verify and protect existing landscaping, asphalt area, concrete walkways, and other site improvements to remain on the site before proceeding with the Work.
2. Prior to starting Work, hose bibbs, utility lines, etc., to be abandoned and removed within the construction area shall be stubbed off outside the limits of construction.
3. Verify and protect utilities to remain within the construction area and provide special construction for their protection.

3.3 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.

3.4 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 011000 "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.

C. Isolation of Work Areas in Occupied Facilities: Prevent dust, fumes, and odors from entering occupied areas.

1. Prior to commencing work, isolate the HVAC system in area where work is to be performed in accordance with coordination drawings.
    a. Disconnect supply and return ductwork in work area from HVAC systems servicing occupied areas.
    b. Maintain negative air pressure within work area, using HEPA-equipped air-filtration units, starting with commencement of temporary partition construction, and continuing until removal of temporary partitions is complete.
2. Maintain dust partitions during the Work. Use vacuum collection attachments on dust-producing equipment. Isolate limited work within occupied areas using portable dust-containment devices.
3. Perform daily construction cleanup and final cleanup using approved, HEPA-filter-equipped vacuum equipment.

3.5 IMPLEMENTATION

A. General:

1. Perform Work and provide and maintain Temporary Utilities and Temporary Facilities in accordance with the requirements of all regulatory authorities having jurisdiction.
2. Contractors shall cooperate with other contractors and the Owner in the use of the site, Temporary Utilities, Temporary Facilities and shall adjust their operations to maintain harmonious relations and uninterrupted progress of the Work.
3. The Contractor shall assume all responsibility for the provision and maintenance of these Temporary Utilities and Temporary Facilities and for the provisions of public safety where the operations under this Contract interface with public areas.
4. Relocate and modify Temporary Utilities and Temporary Facilities, as required by progress of the Work.
5. Remove Temporary Utilities and Temporary Facilities upon completion of the Project.
6. Temporary Utilities and Temporary Facilities are to be provided and maintained from commencement of Work until final acceptance.
    a. The Contractor shall pay all charges required of him for the duration of the project, including a 3 month period following the date of the Notice of Substantial Completion.

3.6 TEMPORARY UTILITY INSTALLATION

A. General: Install temporary service or connect to existing service.

B. Arrange with utility company, Owner, and existing users for time when service can be interrupted, if necessary, to make connections for temporary services.
1. Install temporary service or connect to existing service.

C. Sewers: Provide temporary service to remove effluent lawfully.

D. Storm Drainage: Provide temporary service as necessary to remove storm water. Work shall be performed in accordance with the requirements of the Storm Water Pollution Prevention Plan (SWPPP), if any. If no SWPPP is required, then follow local authorities having jurisdiction requirements.

E. Water:

1. The Contractor will arrange and pay for all water supply for all purposes of construction at a location to be designated at the site. Extensions within the site shall be provided by the Contractor and maintained in a safe and efficient manner.
2. The Owner will pay for all water supply for all purposes of construction at a location to be designated at the site. Extensions within the site shall be provided by the Contractor and maintained in a safe and efficient manner.

F. Electrical:

1. The Contractor shall provide and pay for all electrical facilities and services for all purposes of power and lighting for construction at a location to be designated at the site. Extensions within the site shall be provided by the Contractor and maintained in a safe and efficient manner.
    a. The Contractor shall pay for cost of electrical energy required in connection with the testing of such equipment as generators, transformers, power machinery, and similar equipment installed in the work.
2. The Owner will pay and the Contractor shall provide for all electrical facilities and services for all purposes of power and lighting for construction at a location to be designated at the site. Extensions within the site shall be provided by the Contractor and maintained in a safe and efficient manner.
    a. The Contractor shall pay for cost of electrical energy required in connection with the testing of such equipment as generators, transformers, power machinery, and similar equipment installed in the work.
3. The Contractor will provide electrical energy to all subcontractors as required on or about the premises.
4. The Contractor will provide power outlets having adequate electrical characteristics and lighting of adequate intensity for the use of other contractors within reasonable distances from their needs and within a reasonable period of time after the other contractors have requested them.

G. Telephone:
1. The Contractor shall provide and pay for all telephone service and telephone equipment in the Field Offices until completion of the Work.
    a. Provide an additional dedicated phone line for modem/network connection in the Project Inspector's Field Office for use by the Architect's representative.

H. Heating:
1. Provide temporary heat required by construction activities, for curing or drying of completed installations or protection of installed construction from adverse effects of low temperatures or high humidity.
2. Select UL or FM approved equipment that will not have a harmful effect on completed installations or elements being installed.
    a. Except where use of the permanent heating system is authorized, provide temporary units that do not introduce moisture into the newly constructed building spaces.
    b. Use of gasoline-burning space heaters, open flame, or salamander type heating units is prohibited.
3. Coordinate ventilation requirements to produce the ambient condition required and minimize consumption of energy.

3.7 SUPPORT FACILITIES INSTALLATION

A. Offices and Storage:
1. Provide temporary offices and storage facilities located within the construction area.
2. Protect materials, construction work and their operations from weather, vandalism, and theft.

B. Sanitary Facilities:
1. Provide adequate, self-contained toilets as required for all persons employed on the Project.
2. In no case shall the permanent plumbing fixtures of the Project be used for this purpose.

C. Temporary Roads and Paved Areas:
1. Construct and maintain temporary roads and paved areas adequate for construction operations and fire protection during construction.

D. Traffic Controls:
1. Implement procedures and measures outlined in the local jurisdiction’s approved Traffic Control Plan.
2. Maintain access for fire-fighting equipment and access to fire hydrants.

3. Conduct work and comply with applicable building codes and regulations regarding the use of public streets and sidewalks and the proper barricading and lighting of public thoroughfares surrounding the construction activities.
4. Provide and maintain access as required to perform work.
5. Repair all damage as a result of work performed on the project to adjacent roads, streets, drives and walks. Restore to condition as good as existed at commencement of the Work.

E. Project Sign:
1. Install project sign as submitted and approved.
2. No other signs will be allowed on the project.

F. Existing Elevator Use:
1. Use of Owner's existing elevators will be permitted, provided elevators are cleaned and maintained in a condition acceptable to the Owner.
2. Do not load elevators beyond their rated weight capacity.

G. Existing Stair Use:
1. Use of Owner's existing stairs will be permitted, provided stairs are cleaned and maintained in a condition acceptable to the Owner.

3.8 SECURITY AND PROTECTION FACILITIES INSTALLATION

A. Existing Facilities:
1. Protect existing vegetation, equipment, structures, utilities, and other improvements at project site and on adjacent properties, except those indicated to be removed or altered. Damage occurring during the course of construction shall be repaired to condition at the start of the Work.

B. Environmental:
1. 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.

C. Project Enclosure:
1. Implement procedures and measures outlined in Temporary Project Enclosure Plan.
2. Project enclosure shall protect materials, construction work, and operations from vandalism, theft, and to exclude the intrusion of the public into the construction area.
3. Provide floor-to-ceiling dustproof partitions to limit dust and dirt migration and to separate areas occupied by the Owner from fumes and noise.
4. Maintain security by limiting number of keys and restricting distribution to authorized personnel.

D. Barriers: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades.

E. Covered Walkway: Erect protective, covered walkway for passage of individuals through or adjacent to Project site. Coordinate with entrance gates, other facilities, and obstructions. Comply with regulations of authorities having jurisdiction.
1. Provide overhead decking, protective 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.

3.9 CLEANING

A. Clean in accordance with Specification Section – PROJECT CLOSEOUT.
1. At all times, keep the premises free from accumulations of waste materials or rubbish caused by employees or the Work.
2. Clean all soiled surfaces to remain immediately.
3. At the completion of the Work, remove all rubbish from and about the building and all tools, scaffolding, and surplus materials and shall leave the Work "broom clean" or its equivalent.

4. Clean and restore existing parking lots, drive aisles, paved areas, and pavement markings used for construction activities in accordance with Article 3.11.
5. Hydro-flush and video inspect the existing storm drain system in accordance with Article 3.12.
6. Hydro-jet clean and video inspect the plumbing waste lines in accordance with Article 3.14.

3.10 PRE-CONSTRUCTION CONDITION DOCUMENTATION

A. General: Before mobilization, and before beginning any demolition, excavation, staging, or other construction activities, the Contractor shall document the existing condition of the Project site and adjacent areas by video recording and photographs. This documentation will establish the baseline condition of the site at the start of the Work.

B. Areas to be Documented: At a minimum, document the following:

1. Existing parking lots, drive aisles, and other paved areas within, adjacent to, and used for access to the Work, including pavement surfaces, curbs, gutters, sidewalks, striping, pavement markings, accessible parking markings, and signage.
2. Areas the Contractor intends to use for construction access, haul routes, staging, material storage, worker parking, and field offices.
3. Existing buildings, walls, fences, gates, landscaping, irrigation, site furnishings, light standards, utility structures, and other site improvements adjacent to the Work.
4. Existing storm drain system within, adjacent to, and downstream of the area of Work, as specified below.
5. Existing sanitary sewer at and downstream of each point of connection of the Work, in accordance with Article 3.14.

C. Storm Drain CCTV Inspection: Perform a closed-circuit television (CCTV) video inspection of the existing storm drain system, including all pipes, inlets, catch basins, manholes, cleanouts, and drainage structures located within and adjacent to the area of Work, and extending downstream from each point of connection of the Work to the storm drain system to where the storm drain ties into the existing manholes in the existing drive aisle. See Sheet SD/C301.4.

1. The CCTV inspection shall be performed by a firm regularly engaged in pipeline video inspection, using a camera with pan-and-tilt capability, adequate lighting, and an on-screen footage counter.
2. Video shall identify the date, location, upstream and downstream structures, pipe size and material, direction of travel, and distance along the pipe.
3. Provide a written inspection report with a key plan identifying each pipe segment and structure inspected, and noting sediment, debris, standing water, cracks, breaks, offset or separated joints, root intrusion, deformation, and other defects. Identify defects using NASSCO PACP coding or another format acceptable to the Architect.
4. Where existing pipe segments are not accessible or cannot be inspected because of obstructions, notify the Architect in writing before proceeding.

D. Video and Photograph Requirements:

1. Video recordings shall be high-definition digital color video with date and time stamp, and with audio narration identifying the location being recorded.
2. Photographs shall be digital color, date stamped, and keyed to a site plan.
3. Record at a pace and level of detail sufficient to clearly show existing damage, cracking, staining, faded or damaged striping, and other deficiencies.

E. Notification: Notify the Owner, Architect, and Project Inspector not less than forty-eight (48) hours before recording so that their representatives may attend.

F. Submittal: Submit one (1) complete digital copy of all video recordings, photographs, and the CCTV inspection report to the Architect and Owner not less than seven (7) days before the start of site work. Site work shall not begin until this documentation has been submitted.

G. Existing conditions not clearly recorded in the pre-construction documentation will be considered to have been in good, undamaged condition at the start of the Work. Damage to these areas shall be repaired by the Contractor at no additional cost to the Owner.

H. The Contractor shall include all costs for pre-construction condition documentation in the Contract Sum.

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3.11 USE AND RESTORATION OF EXISTING PARKING LOTS AND PAVED AREAS

A. Protection: Where the Contractor uses existing parking lots, drive aisles, or paved areas for construction access, staging, material storage, worker parking, or other construction-related activities, the Contractor shall protect those surfaces from damage and excessive soiling throughout the duration of the Work.

B. Cleaning: At completion of construction, and before final acceptance, the Contractor shall thoroughly clean all affected parking lots and paved areas. Cleaning includes removing construction debris, dirt, dust, mud, tire marks, oil stains, paint overspray, adhesive residue, and other construction-related contaminants. Cleaning methods shall not damage existing pavement surfaces.

C. Pavement Markings: The Contractor shall inspect all existing pavement striping, markings, legends, accessible parking markings, directional arrows, fire lanes, curb markings, and related traffic control markings within areas affected by construction activities. Any striping or markings damaged, faded, obscured, removed, or otherwise adversely affected by construction operations shall be restriped to match existing conditions. Restriping shall use materials and colors consistent with the existing installation and shall comply with applicable code requirements.

D. Cost: The Contractor shall bear all costs of cleaning, repairs, and restriping required as a result of construction activities.

E. Acceptance: Acceptance of the Work is contingent on the Owner's determination that parking lot surfaces and pavement markings have been restored to a clean, safe, and fully functional condition equal to that recorded in the pre-construction condition documentation required by Article 3.10.

3.12 PROTECTION, FLUSHING, AND VIDEO INSPECTION OF EXISTING STORM DRAIN SYSTEM

A. Protection During Construction: Protect the existing storm drain system within, adjacent to, and downstream of the area of Work from sediment, dirt, debris, concrete, slurry, washout water, and other construction-related materials throughout the duration of the Work.

1. Provide and maintain inlet protection at all storm drain inlets and catch basins that may receive runoff from the area of Work, in accordance with the Storm Water Pollution Prevention Plan (SWPPP), if any, and the requirements of authorities having jurisdiction.
2. Inspect inlet protection after each rain event and remove accumulated sediment and debris. Repair or replace damaged inlet protection immediately.
3. Do not wash or discharge concrete, mortar, plaster, paint, slurry, or other construction materials into the storm drain system.
4. On a monthly basis throughout construction, open the storm drain manholes in the existing drive aisle at the downstream limit indicated on Sheet SD/C301.4, and clean out any dirt, sediment, and debris that has entered the storm drain system. Notify the Project Inspector at least forty-eight (48) hours before each cleanout, and record the date and findings of each cleanout in the daily construction log.

B. Hydro-Flushing: At completion of construction, and before final acceptance, clean the existing storm drain system within, adjacent to, and downstream of the area of Work, to the same limits documented under Article 3.10.

1. Hydro-flush all storm drain pipes using high-pressure water jetting equipment, and remove all dirt, sediment, and debris from pipes, inlets, catch basins, manholes, and drainage structures.
2. Capture all flushed water, sediment, and debris at the downstream structure using a vacuum truck or other approved method. Do not allow flushed material to discharge to downstream storm drain systems, the public storm drain system, or receiving waters.
3. Remove and legally dispose of all collected materials off the Owner's property.
4. Cleaning methods shall not damage existing pipes, joints, or structures.

C. Post-Construction CCTV Inspection: After hydro-flushing is complete, perform a CCTV video inspection of the same storm drain pipes and structures documented under Article 3.10, using the same equipment, procedures, and report format, so that the results can be compared directly with the pre-construction inspection.

D. Review with Owner: Submit the post-construction video recordings and inspection report to the Architect and Owner. The Contractor shall meet with the Owner and Architect to review the results and compare them with the pre-construction inspection.
   1. Where the video shows remaining dirt, sediment, or debris, re-flush the affected pipes and structures and repeat the CCTV inspection.
   2. Where the video shows damage not recorded in the pre-construction inspection, including cracks, breaks, offset or separated joints, deformation, or damaged structures, repair or replace the damaged pipe or structure as directed by the Architect, and repeat the CCTV inspection of the repaired segments.
   3. Repeat the above until the Owner accepts the condition of the storm drain system.

E. Cost: The Contractor shall bear all costs of protection, hydro-flushing, CCTV inspection, re-cleaning, repairs, and re-inspection required by this Article.

F. Acceptance: Acceptance of the Work is contingent on the Owner's acceptance of the post-construction CCTV inspection of the storm drain system.

3.13 HYDRO-EXCAVATION AT EXISTING UTILITIES

A. General: Use hydro-excavation (vacuum excavation using pressurized water and a vacuum system) for the following:
   1. Potholing to locate and verify the location, depth, size, and material of existing utilities.
   2. Trench excavation where new trenches cross existing utilities, or come within the tolerance zone of existing utilities as defined in California Government Code Section 4216 (24 inches on each side of the outside edge of the utility).

B. Do not use mechanical excavation equipment within the tolerance zone of an existing utility until that utility has been fully exposed by hydro-excavation.

C. Utility Locating: Before excavation, contact Underground Service Alert (USA North 811) and have existing utilities marked as required by California Government Code Section 4216. Locate on-site private utilities not marked by USA North 811 using a private utility locating service.

D. Operating Requirements:
   1. Use water pressure and nozzle types that will excavate without damaging existing pipe, conduit, coatings, tracer wire, or encasement.
   2. Collect all excavated slurry in a vacuum truck and legally dispose of it off the Owner's property. Do not discharge slurry to the storm drain system, landscape areas, or paved surfaces.
   3. Backfill and compact pothole and trench excavations in accordance with the Division 31 Earthwork sections, and restore paving and other surfaces to match existing.

E. Pothole Log: Record the location, depth to top, size, material, and condition of each existing utility exposed, with locations tied to permanent site features, and record this information on the Project Record Drawings. Submit the pothole log to the Architect before installing new utilities that cross or connect to existing utilities.

F. Conflicts: Where an existing utility conflicts with the Work, notify the Architect in writing immediately and do not proceed in the affected area until directed.

G. Damage: Existing utilities damaged by the Contractor's operations shall be reported immediately to the Owner and the utility owner, and repaired at no additional cost to the Owner.

H. Cost: The Contractor shall include all costs of utility locating, hydro-excavation, slurry disposal, backfill, and surface restoration in the Contract Sum.

3.14 CLEANING AND VIDEO INSPECTION OF PLUMBING WASTE LINES

A. General: Clean and perform closed-circuit television (CCTV) video inspections of the plumbing waste lines serving the Work, including the following:
   1. All new below-slab and below-grade sanitary waste piping, building drains, and building sewers, from the most upstream cleanout of each branch to the point of connection to the existing site sanitary sewer system.
   2. The existing site sanitary sewer from each point of connection of the Work downstream to and including the first existing downstream manhole.

3. Coordinate with the Division 22 Plumbing sections and the Civil Drawings. Where this Article and other sections differ, the more stringent requirement shall govern.

B. Inspection Firm, Equipment, and Report: CCTV inspections shall comply with the firm, equipment, video, and report requirements of Article 3.10, Paragraphs C and D, and the following:
   1. Use a camera head sized for the pipe being inspected, with self-leveling or pan-and-tilt capability, adequate lighting, and an on-screen footage counter.
   2. Identify defects using NASSCO PACP and LACP coding, or another format acceptable to the Architect.
   3. Perform inspections from cleanouts and manholes. Do not cut into piping for camera access without the Architect's written approval.

C. Pre-Construction Inspection of Existing Sanitary Sewer: Before beginning site work, perform a CCTV video inspection of the existing sanitary sewer described in Paragraph A.2, and submit it with the Pre-Construction Condition Documentation required by Article 3.10.

D. Protection During Construction:
   1. Keep open ends of waste piping, cleanouts, floor drains, floor sinks, and fixture connections capped or plugged at all times, except when actively being worked on.
   2. Do not wash out or discharge concrete, mortar, grout, plaster, drywall joint compound, paint, slurry, adhesives, or other construction materials into fixtures, floor drains, floor sinks, mop sinks, cleanouts, or other openings in the waste piping system.
   3. Remove construction materials and debris that enter the waste piping immediately upon discovery.

E. Rough-In Inspection of Below-Slab Waste Lines: After below-slab and below-grade waste piping has been installed, tested as required by the California Plumbing Code (CPC), backfilled, and compacted, and before placing the vapor retarder and concrete slab-on-grade, perform a CCTV video inspection of all below-slab and below-grade waste piping.
   1. Notify the Architect and Project Inspector not less than forty-eight (48) hours before the inspection so that their representatives may attend.
   2. Submit the video recordings and inspection report to the Architect, and obtain the Architect's review, before placing concrete over the piping.
   3. Correct deficiencies listed in Paragraph H, and repeat the CCTV inspection of the corrected segments, before placing concrete.

F. Final Cleaning: At completion of construction, after fixtures, floor drains, and equipment have been installed and connected, and before final review, clean all waste lines described in Paragraph A.
   1. Hydro-jet all waste piping using high-pressure water jetting equipment, with nozzles and pressures appropriate for the pipe material and size, and remove all dirt, sediment, construction debris, and foreign material. Do not use mechanical cutters, chain flails, or root cutters without the Architect's written approval.
   2. Capture all flushed water and debris at the downstream manhole using a vacuum truck or other approved method. Do not allow debris to pass into the sanitary sewer beyond the limit described in Paragraph A.2, and do not discharge flushed material to the storm drain system.
   3. Remove and legally dispose of all collected materials off the Owner's property.
   4. Cleaning methods shall not damage existing or new pipes, joints, fittings, cleanouts, or structures.

G. Post-Construction CCTV Inspection: After final cleaning is complete, perform a CCTV video inspection of all waste lines described in Paragraph A, using the same equipment, procedures, and report format as the pre-construction and rough-in inspections, so that the results can be compared directly.

H. Deficiencies: The following conditions will be considered deficient and shall be corrected:
   1. Remaining dirt, sediment, debris, concrete, grout, or other construction materials.
   2. Sags or bellies that retain standing water, or piping installed at less than the slope required by the CPC and the Drawings.
   3. Cracks, breaks, holes, deformation, or out-of-round pipe.
   4. Offset, separated, or improperly made joints and connections.

5. Fittings installed contrary to the CPC, the Drawings, or the Division 22 Plumbing sections, including improper change-of-direction fittings.
6. Damage to the existing sanitary sewer not recorded in the pre-construction inspection.

I. Review with Owner: Submit the post-construction video recordings and inspection report to the Architect and Owner. The Contractor shall meet with the Owner and Architect to review the results and compare them with the pre-construction and rough-in inspections.
   1. Where the video shows remaining dirt, sediment, or debris, re-clean the affected piping and repeat the CCTV inspection.
   2. Where the video shows deficiencies, repair or replace the affected piping as directed by the Architect, including removal and restoration of slabs, finishes, paving, landscaping, and other work as required to access the piping, and repeat the CCTV inspection of the repaired segments.
   3. Repeat the above until the Owner accepts the condition of the plumbing waste lines.

J. Cost: The Contractor shall bear all costs of protection, hydro-jetting, CCTV inspections, re-cleaning, repairs, restoration, and re-inspection required by this Article.

K. Acceptance: Acceptance of the Work is contingent on the Owner’s acceptance of the post-construction CCTV inspection of the plumbing waste lines.

END OF SECTION

SECTION 017720 – PROJECT CLOSEOUT

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:
1. Provide all material, labor, equipment and services necessary to completely install all materials, accessories and other related items necessary to complete the Project as indicated by the Contract Documents.

B. Related Sections: The following Project Manual Sections contain requirements that relate to this section:
1. ALL DIVISION 00 SPECIFICATION SECTIONS.
2. ALL DIVISION 01 SPECIFICATION SECTIONS.
3. ALL SPECIFICATION SECTIONS IN THE FACILITY CONSTRUCTION SUBGROUP.
4. ALL SPECIFICATION SECTIONS IN THE FACILITY SERVICES SUBGROUP.
5. ALL SPECIFICATION SECTIONS IN THE SITE AND INFRASTRUCTURE SUBGROUP.

C. Work Included:
1. Project cleanup and coordination of all cleaning work required under all sections of this specification.
2. Collection of and processing for delivery to the Architect of all Project Record Drawings required under this and other various Sections of the Specifications.
3. Compile and assemble all required documents, operation data, maintenance manuals, and parts lists for all equipment items provided for this project.
4. Start-up of all mechanical, electrical, and miscellaneous equipment items; and adjustment required for the performance specified.
5. Compile and assemble all guarantees, warranties, or other written documentation to establish the requirements outlined under all sections of this specification.
6. Repair and touch-up on all items damaged during the construction and handling processes.
7. Furnish maintenance material and spare parts as specified within DIVISIONS 02 through 49 of these specifications.
8. Deliver to the Architect all assembled copies of those items required in Articles 1 through 6 above for presentation to the Owner.
9. Cleaning and restoration of existing parking lots and paved areas, and hydro-flushing and post-construction video inspection of the existing storm drain system, in accordance with Specification Section - TEMPORARY FACILITIES AND CONTROLS.
10. Hydro-jet cleaning and rough-in and post-construction video inspection of the plumbing waste lines and of the existing sanitary sewer at the point of connection, in accordance with Specification Section - TEMPORARY FACILITIES AND CONTROLS.

D. It shall be the responsibility of the Contractor to provide all labor and materials necessary to achieve completion of the items listed under Paragraph A, B and C above, although certain items may be specified under the work of other trades. Periodic removal of debris, cleaning,

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repair, and testing of items in various areas of the construction site shall be carried out under the direction of the Contractor.

1.2 SUBMITTALS

A. Submit in accordance with Specification Section - SUBMITTAL PROCEDURES:
1. Quality Assurance/Control Submittals:
   a. Design Data.
      1) All design data as required by the Contract Documents.
   b. Test Reports:
      1) Submit one (1) digital copy of reports.
      2) Submit one (1) digital copy of reports required by regulatory requirements.
      3) Submit one (1) digital copy of ICC Evaluation Service Report.
      4) Submit one (1) digital copy of Testing Laboratory's report.
      5) All other Test Reports as required by the Contract Documents.
   c. Certificates:
      1) Submit one (1) digital copy of certificates.
   d. Manufacturer's Instructions:
      1) Submit one (1) digital copy of manufacturer's instructions.
   e. Manufacturer's Field Reports:
      1) Submit one (1) digital copy of manufacturer's field reports.
   f. Engineering Calculations:
      1) Submit one (1) digital copy of engineering calculations computed and signed by a registered Civil or Structural Engineer in the State of California.
2. Closeout Submittals in accordance with Specification Sections in Division One:
   a. Maintenance Data in accordance with Specification Section - PROJECT CLOSEOUT.
   b. Operation Data in accordance with Specification Section - PROJECT CLOSEOUT.
   c. Warranty in accordance with Specification Section - WARRANTIES.
   d. Post-construction storm drain CCTV inspection video and report in accordance with Specification Section - TEMPORARY FACILITIES AND CONTROLS.
   e. Post-construction plumbing waste line CCTV inspection video and report in accordance with Specification Section - TEMPORARY FACILITIES AND CONTROLS.
3. Project Record Documents:
   a. Various Sections of the detailed specifications require Project Record Drawings to be prepared by the Contractor(s). These drawings shall be collected by the Contractor, checked for conformance to the specific requirements, and when completed, delivered to the Architect. The Contractor shall also be responsible for collecting bound operating and maintenance manuals required of all trades supplying equipment, and for delivering them to the Architect.

1.3 QUALITY ASSURANCE:

A. Safety, Fire and Environmental Protection, and Insurance standards shall be strictly adhered to in all phases of the construction work. It shall be the responsibility of the Contractor to determine the standards applicable to this project as set forth in all codes, regulations, and ordinances having jurisdiction, and as set forth elsewhere in the Specifications.

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B. All specific requirements stipulated in, or required by code references included under all sections of DIVISIONS 02 through 49 inclusive of this specification, and as detailed under Article 3.4 of this Section, shall be required under this Contract.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Cleaning Materials:
1. Use only those specified materials or types of materials recommended and approved by the manufacturer of the item to be cleaned.

B. Touch-Up Materials:
1. Use only those materials furnished by or as recommended and approved by the manufacturer of the item to be touched up. Colors and finish characteristics shall exactly match the base material and extra materials, labor, and services required to achieve this result shall be provided by the Contractor(s).

C. Replacement Materials:
1. Materials that are damaged and not repairable, or materials that are destroyed shall be replaced with equal and identical materials of the same manufacture and shall function in conjunction with the remaining portions of that material. Items no longer manufactured or available shall be replaced with comparable materials as approved by the Architect and at no additional cost to the Owner.
2. Materials that are required for maintenance replacement by the owner after the guarantee period has expired, or by the contractor during the guarantee period shall exactly match those materials installed as to make, style, color lot, etc., under this contract, and shall be delivered to the owner in marked, identified containers.

D. Extra Materials:
1. Carefully examine the requirements of the applicable Sections of all DIVISIONS and specifically of DIVISION 09 and deliver the materials required to the Owner.

PART 3 - EXECUTION

3.1 REPAIR AND RESTORATION

A. All damaged items shall be repaired and replaced as directed using proper materials and craftsmen skilled in that particular trade. Materials shall be as follows:
1. All repair or replacement parts shall be of the same quality and manufacturer as the item being repaired.
2. All touch-up paint shall be as provided by the item manufacturer for that purpose and shall exactly match the original color and finish.

3.2 FIELD QUALITY CONTROL

A. Final Reviews:

1. In addition to all items covered under those Sections of Divisions 02 through 49 inclusive, the Contractor shall comply with the requirements stated herein.
    a. The Contractor shall request in writing a final review (see Contractor's Request for Final Review form at the end of this Specification Section).
        1) The Contractor shall allow a forty-eight (48) hour time period of advance notification prior to the requested date and time indicated on the Review Request form.
        2) The Contractor represents that the work has been carefully inspected by the Contractor to determine that the work is complete and in compliance with all requirements set forth.
    b. The Contractor shall prepare and shall submit the initial Contractor's Punch List identifying the items that remain uncompleted forty-eight (48) hours prior to the scheduled final review by the Architect.
    c. Under no circumstances shall the Contractor ask the Architect or his representative to make these determinations for him.
2. The Architect shall review the initial Contractor's Punch List along with the Owner's Project Inspector, and determine together whether or not the Project is ready for final review. If approved, the Architect or its representative will make the final review on the date and time requested in the Contractor's Request for Final Review form, except under the following conditions:
    a. Upon reviewing a portion of the Project and finding quantities of work incomplete or not in compliance, the review shall cease, and the Architect will notify the Contractor.
    b. If the Contractor has assured the Architect of the completeness and/or accuracy of the work, and the review does not bear this contention out.
3. The above conditions will be adhered to rigidly to prevent the Architect from being required to act as a supervisory agent of the Contractor by being asked to determine the degree of completion.
    a. When the Contractor requests additional reviews, he shall reimburse the Architect for all time and expense incurred as indicated on the Contractor's Request for Final Review form at the end of this Specification Section.
    b. The Architect is herein defined as any of those firms or individuals listed by references on the drawings, including all consultants identified herein.
    c. All requests for Project Final Review (and re-review) shall be made in writing on the form provided at the end of this Specification Section.
4. When the Architect does approve of the degree of readiness for the Project based on the initial Contractor's Punch List and the readiness of the Project, the Architect will make his final review, adding to the Contractor's Punch List any other items that require further completion.
5. The Contractor shall take the initial Contractor's Punch List, together with the Architect's Punch List, and initial and date each item on each list as to when it was completed.
6. Once both lists are completed and signed by the Project Inspector, the Contractor shall submit to the Architect the completed lists for final review and approval prior to filing for Substantial Completion.
7. Final review will not be scheduled until existing parking lots and paved areas used for construction have been cleaned and restored, and the post-construction storm drain

CCTV inspection has been reviewed with the Owner, in accordance with Specification Section - TEMPORARY FACILITIES AND CONTROLS.

8. Final review will not be scheduled until the plumbing waste lines have been hydro-jet cleaned and the post-construction CCTV inspection of the waste lines has been reviewed with the Owner, in accordance with Specification Section - TEMPORARY FACILITIES AND CONTROLS.

3.3 CLEANING

A. During Construction:
1. Oversee cleaning and ensure that building and grounds are maintained free from accumulations of waste materials and rubbish.
2. Sprinkle dusty debris with water.
3. At reasonable intervals during progress of work, clean up site and access and dispose of waste materials, rubbish, and debris.
4. Provide suitable containers and locate on site for collection of waste materials, rubbish, and debris.
5. Do not allow waste materials, rubbish and debris to accumulate and become an unsightly or hazardous condition.
6. Remove waste materials, rubbish and debris from the site and legally dispose of at public or private dumping areas off the Owner's property.
7. Vacuum clean interior building areas when ready to receive finish painting and continue vacuum cleaning on an as-needed basis until building is ready for acceptance or occupancy.
8. Lower waste materials in a controlled manner with as little handling as possible; do not drop or throw materials from heights.
9. Schedule cleaning operations so that dust and other contaminants resulting from cleaning process will not fall on wet, newly painted surfaces.
10. Protect existing storm drain inlets and catch basins from sediment and construction debris, and open and clean out the downstream storm drain manholes on a monthly basis, in accordance with Specification Section - TEMPORARY FACILITIES AND CONTROLS.
11. Keep open ends of plumbing waste piping capped, and do not discharge concrete, grout, plaster, drywall joint compound, paint, or other construction materials into fixtures, floor drains, mop sinks, or other openings in the waste piping system, in accordance with Specification Section - TEMPORARY FACILITIES AND CONTROLS.

B. Final Cleaning:
1. Use experienced professional cleaners for final cleaning.
2. At completion of construction and just prior to acceptance or occupancy, conduct a final review of exposed interior and exterior surfaces.
3. Remove grease, dust, dirt, stains, labels, fingerprints, and other foreign materials from interior and exterior surfaces.
4. Repair, patch, and touch-up marred surfaces to match adjacent finishes.
5. Broom clean paved surfaces; rake clean other surfaces of grounds.
6. Replace air conditioning filters if units were operated during construction.
7. Clean ducts, blowers, and coils if air conditioning units were operated during construction.
8. Maintain cleaning until the building, or portion thereof, is accepted by the Owner.

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9. Clean existing parking lots, drive aisles, and paved areas used for construction activities, and restripe damaged pavement markings, in accordance with Specification Section - TEMPORARY FACILITIES AND CONTROLS.
10. Hydro-flush the existing storm drain system within, adjacent to, and downstream of the area of Work, remove all dirt and debris, perform a post-construction CCTV video inspection, and review the results with the Owner, in accordance with Specification Section - TEMPORARY FACILITIES AND CONTROLS.
11. Hydro-jet clean the plumbing waste lines, building sewers, and existing sanitary sewer to the first downstream manhole, remove all debris, perform a post-construction CCTV video inspection, and review the results with the Owner, in accordance with Specification Section - TEMPORARY FACILITIES AND CONTROLS.

3.4 DEMONSTRATION

A. During Construction and as each piece of equipment is installed, provide the following tests:
   1. Verify that all external service connections have been properly completed, and that piping and/or wiring is properly sized, and contain all necessary safety devices.
   2. Verify that the equipment is free of shipping materials, tie downs, or other internal obstructions.
   3. Conduct tests employing the manufacturer's operating instructions as a sequential guide.
   4. Verify that all portions of the equipment function properly and that the total performance criteria are satisfied.
   5. Make adjustments, replacements, or repairs necessary to achieve full operational capability and repeat tests until performance is achieved and approval obtained.

B. Prior to acceptance, verify that all conditions specified in the Article titled FIELD QUALITY CONTROL, Final Review, have been satisfied and that equipment is ready for continuous use. Provide the following services preparatory to acceptance:
   1. Clean or replace all filters and/or strainers.
   2. Adjust all belts and drive mechanisms.
   3. Lubricate all moving parts as required by manufacturer's operating instructions.
   4. Demonstrate to the Owner's representative and the Architect or Engineer the method and sequence of operation, and provide testing devices and/or data to verify that performance equals that specified.
   5. Provide operating instructions in bound form along with manufacturer's parts list and written warranties.

3.5 SCHEDULES

A. See next page for Request for Final Review from the Contractor(s):

(The rest of this page is left intentionally blank)

CONTRACTOR'S REQUEST
FOR
FINAL REVIEW FORM

PROJECT:_____
(Name of Project and DA Project Number)

TO: **DARDEN ARCHITECTS, INC.**
6790 N. West Avenue
FRESNO, CA 93711

FROM:_____
(Contractor)

_____
(Address)

WE HEREBY request Final Review on _____ and _____.
(Date) (Time)

WE HEREBY, request and certify:

1. The project is ready for Final Review.
2. The undersigned will compensate the Architect at a rate of $176.00 an hour for further review, investigation and comments if it is determined that the Project is not ready for final review as indicated earlier within this Specification Section. The Architect is herein defined as any of those firms or individuals listed by reference on the Drawings, including all Consultants identified herein.

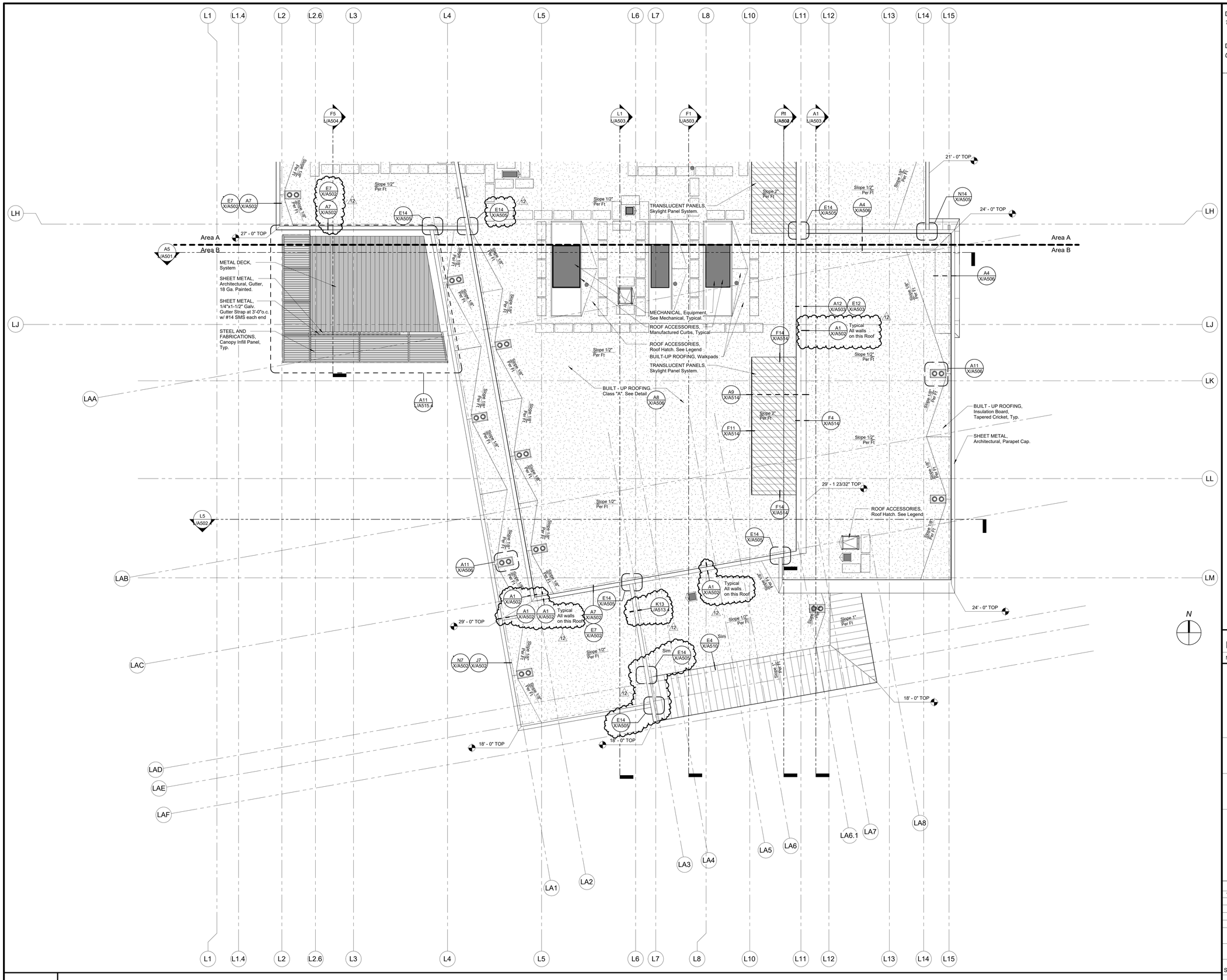
Submitted By (Contractor)

Signature_____
Firm_____
Address_____
Date_____
Telephone_____

Below is for Use by Design Consultant only

___ Conditions for Final Review Accepted
___ Final Review Accepted as Noted
___ Final Review Not Accepted
By_____
Date_____
Remarks_____
_____
_____
_____

END OF SECTION



DSA File No.:
10-H15

DSA Application No.:
02-120779

Agency Approval

SYMBOLS

- PLUMBING, Roof Drain and Overflow — A11 X/A506, A1 X/A509
- ROOF ACCESSORIES, Roof Hatch 30 inch x 36 inch with Hatch Railing System & STEEL AND FABRICATIONS, Ladder — A1 X/A506, E7 X/A605
- BUILT-UP ROOFING, See Details Class 'A' (Buildings L & M) — A8 X/A506, A7 X/A102, J14 X/A515
- BUILT-UP ROOFING, Walkpads
- SINGLE-PLY ROOFING, See Details Class 'A' (Bulding Q only) — J4 X/A506, A7 X/A102, J14 X/A515
- SINGLE-PLY ROOFING, Walkpads
- METAL PANELS, Flat Sloped Roof Panel , See Details — J8 X/A507
- SHEET METAL, Architectural Roof Cap, with Drive Cleat construction. — N14 X/A507, A8 X/A507
- Roof Equipment. ERRC, deferred submittal. Provide ROOF ACCESSORIES, Manufactured Curbs. Refer to Details. Provide Deck-Tite watertight flashing boots at all penetrations — N4 X/A506, N8 X/A506, N1 X/A506, J1 X/A506
- Roof Equipment. See Mechanical and Electrical Drawings. Provide ROOF ACCESSORIES, Manufactured Curbs. Refer to Details. Provide Deck-Tite watertight flashing boots at all penetrations — N8 X/A506, N11 X/A506, N14 X/A506; K1 X/A506, E1 X/A506
- TRANSLUCENT PANELS, Skylight Panel System, See Detail — A9 X/A514, F4 X/A514, F11 X/A514, F14 X/A514, L14 X/A514
- METAL DECK, System
- PLUMBING, Roof Penetration. See Plumbing for all locations. See Notes below — J8 X/A506, J11 X/A506, J14 X/A506
- +14'-6" TOP — Elevation above finish floor
- Slope (DN) — Direction of slope
- Line of Wall below
- Reference Point

ABBREVIATIONS

TOP	Top of Parapet Framing	DS	Downspout
FO Frmg.	Face of Framing	FOS	Face of Stud
OD	PLUMBING, Overflow Drain	TOR	Top of Roof
TOB	Top of Parapet Brace Framing	TOS	Top of Steel
TOF	Top of Framing	Sim.	Similar
RD	PLUMBING, Roof Drain	Typ.	Typical
TOM	Top of Masonry	PV	Plumbing Vent
OH	Opposite Hand	CD	Condensate Drain

NOTES

1. Refer to Plumbing, Mechanical, Telecommunications, Food Service, and Electrical for all roof penetrations and roof mounted equipment. For appropriate details, Refer to Unless Otherwise Noted. — J14 X/A506, J11 X/A506, J8 X/A506
2. SHEET METAL, Counter Flashing Boots shall be installed at all intersecting parapets that have different parapet heights. for conditions requiring such boots, refer to Details — A14 X/A505, E14 X/A505, J14 X/A505, N14 X/A505
3. When indicated, SHEET METAL, Reglet and Counter Flashing occurs at the Back Side and/or the Front Side of Parapet Walls. At each roof level such Reglet elevations shall be determined based upon the details of construction, and be installed at the same horizontal level.
4. Roof Slope and Crickets shall be constructed with tapered insulation to achieve slope as required.
5. All roof penetrations shall be flashed as indicated on Drawing X/A506.

F18 — Roof Plan Legend
No Scale

Area B Key Plan - Building L

SANGER EDUCATION COMPLEX - PHASE 3
Sanger Unified School District
1760 S Fowler Ave, Fresno CA 93727
Project

BUILDING L
ROOF PLAN - AREA B
Drawing

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LICENSED ARCHITECT — ROBERT K. FERRO — No. C23724 — Exp. 4-30-24 — STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date
12	ADDENDUM 9	10-02-2026

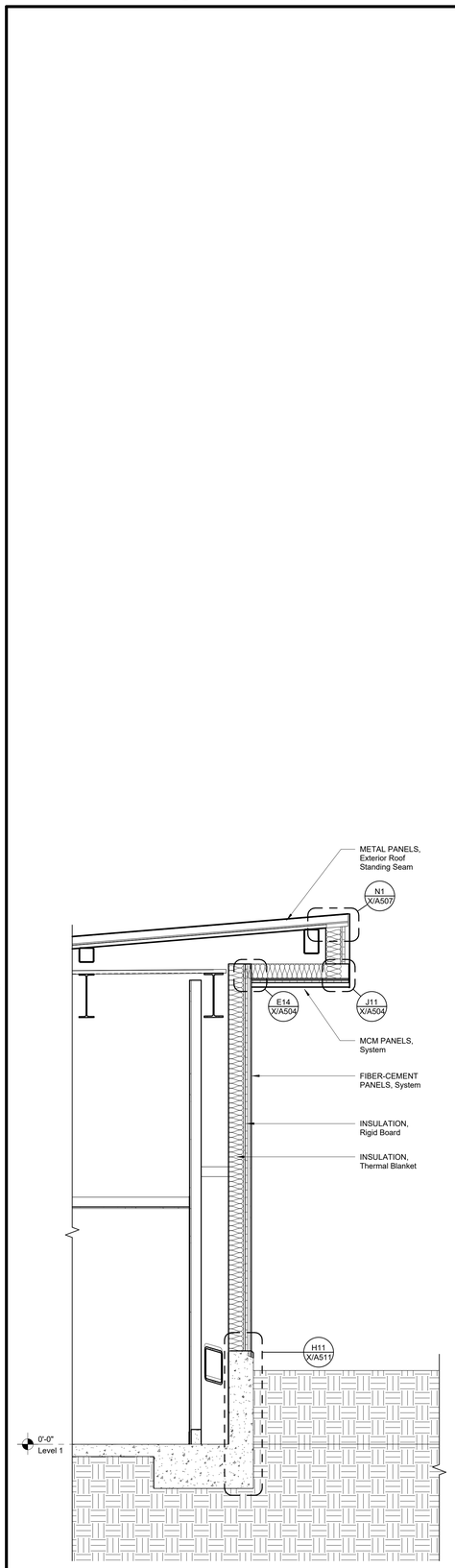
Revision

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		Designed By: -	
Scale:	As indicated	Drawn By: -	*L/A303.4*
Project Number:	2171	Checked By: MF	
Date:	12/22/22	Reviewed By: MF	Sheet: _____ of: _____

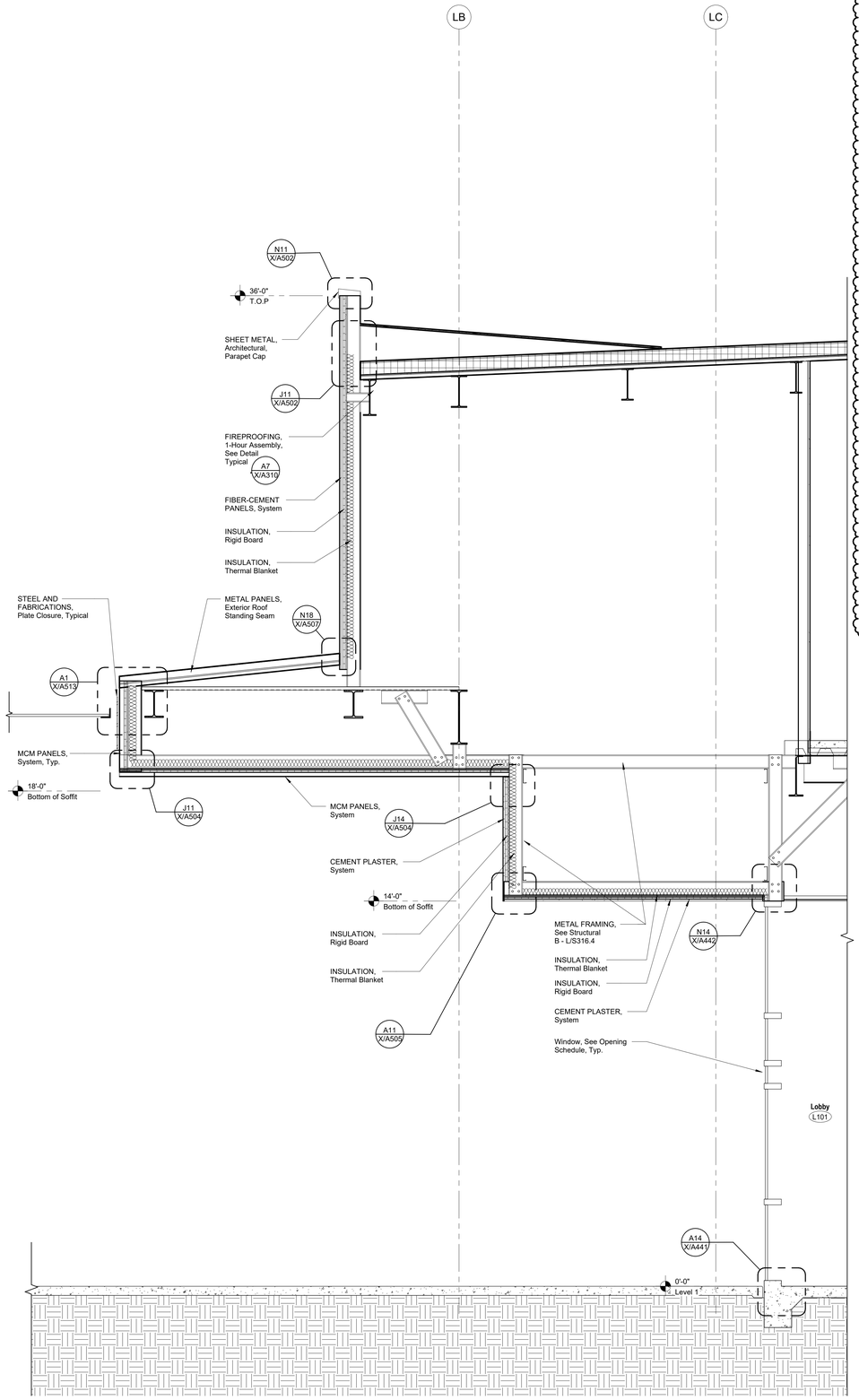
A1 — Roof Plan- Area B
1/8" = 1'-0"

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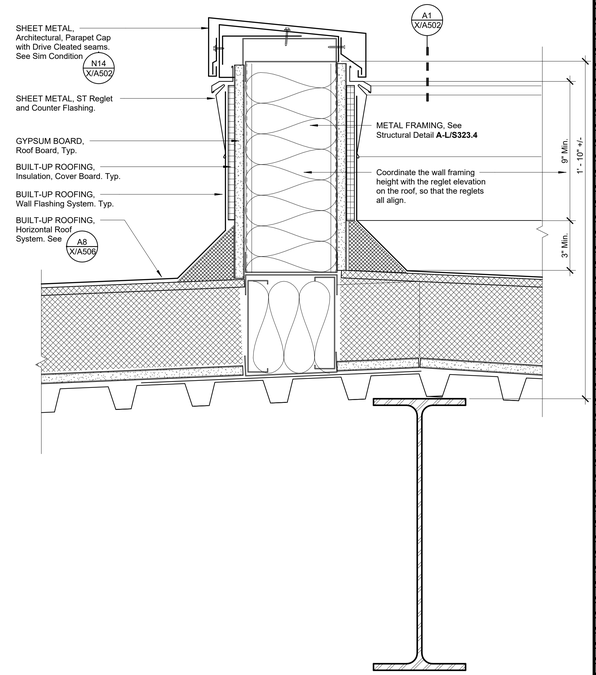
A1 — Wall Secton

1/2" = 1'-0"



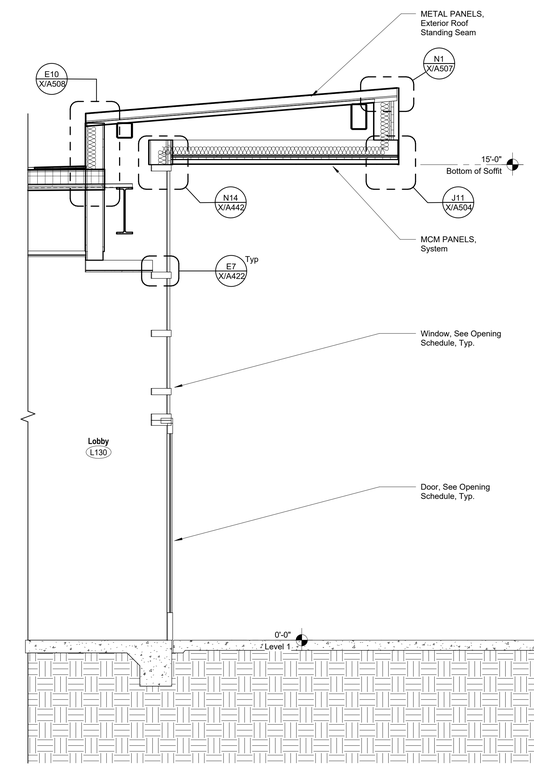
A5 — Wall Secton

1/2" = 1'-0"



K13 — METAL FRAMING, Pony Wall Detail

3" = 1'-0"



A13 — Wall Secton

1/2" = 1'-0"

DSA File No.:
10-H15

DSA Application No.:
02-120779

Agency Approval

SYMBOLS:

Refer to the Floor Plan Legends for additional symbols

INSULATION, Thermal Blanket

ABBREVIATIONS

AFF	Above Finished Floor
BO	Bottom of
CJ	Control Joint
DS	Downspout
EJ	Expansion Joint
FF	Face of Finish
OH	Opposite Hand
Sim.	Similar
TO	Top of
TOM	Top of Masonry
TOP	Top of Parapet Framing
TOF	Top of Framing
TOR	Top of Roof
TOS	Top of Steel
TPL	Top of Plate
Typ.	Typical
UNO	Unless Noted Otherwise

NOTES

1. CEMENT PLASTER, Cement Plaster System, Accessories, Refer to Detail A11 X/A505
2. PLUMBING, Rain Water Leader Overflow, Refer to A1 X/A505 or E1 X/A505 See Plumbing Drawings for Location.
3. FIBER CEMENT PANELS, For typical Wall attachment, See A1 X/A504
4. MCM PANELS, For Typical Wall attachment, See, A11 X/A504
5. Refer to Specifications Section Appendix "C" Exterior Color Schedule.
6. Refer to Exterior Finish Schedule on Sheet X/A205.
7. Contractor to verify all exterior colors prior to commencement of work. Colored elevations available upon request

8. FIRE RESISTIVE ASSEMBLIES:
a. All Through Penetrations and Wall Membrane Penetrations through Walls of Fire Resistive Construction shall be protected in accordance with their Fire Resistive Ratings.

b. All Walls of Fire and/or Smoke Resistive Construction Shall Be Permanently Identified with Signs or Stenciling in lettering not less than 3 inches (76 mm) in. height with a minimum 3/8 inch (9.5 mm) stroke in a contrasting color incorporating the following wording: FIRE AND/OR SMOKE BARRIER "#" HOUR RATED, PROTECT ALL OPENINGS, Signs or Stenciling shall be located above ceilings on both sides of the wall, located 15'-0" from ends of wall and at intervals not to exceed 30'-0" horizontally along the wall or partition. Note: "#" indicates the hourly rating of the wall or partition.

9. Refer to the following details for Rated Fire Wall to Floor or Roof Deck K4 X/A102 K7 X/A102

10. FIRE RESISTIVE CONSTUCTION: Refer to X/A101 through X/A105 for Typical Details. Refer to to the Regulatory Floor Plans for the Rated Horizontal Assembly location(s). When items penetrate a Rated Fire Wall or Floor, all openings and gaps shall be protected with a UL system design suitable for each condition. Refer to Specification FIRESTOPPING

11. FIREPROOFING. For requirements, see Detail A7 X/A102

12. See Structural for information on metal framing.

H18 — Section Legend

No Scale

SANGER EDUCATION COMPLEX - PHASE 3
Sanger Unified School District
1760 S Fowler Ave, Fresno CA 93727
Project

BUILDING L
WALL SECTIONS
Drawing

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LICENSED ARCHITECT REGISTERED K. F. FENNOY No. C23724 Exp. 4-30-27 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date
12	ADDENDUM 9	10-02-2026

Revision

Designed By: -
Drawn By: -
Checked By: MF
Reviewed By: MF

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Scale: As indicated
Project Number: 2171
Date: 12/22/22

L/A513.4
Sheet: _____ of: _____

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OMIT - FROM PREVIOUS PHASE

9

PUMP SCHEDULE

DESIGNATION	P L1 / P L2	P L3 / P L4	P L5 / P L6	P L7 / P L8	P M1	P M2	P M3	P M4	P M5	P M6	P Q1	P Q2	P Q3	P Q4
HP/BHP	5 / 2.28	3 / 1.38	7.5 / 4.4	5 / 2.1	3 / 1.96	3 / 1.96	15 / 8.53	15 / 8.53	25 / 21.3	25 / 21.3	10 / 5.63	10 / 5.63	15 / 9.93	15 / 9.93
VOLTS/PHASE	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460 / 3	460 / 3	460 / 3	460 / 3
RPM	1519	1494	1117	1091	1750	1750	1603	1603	1739	1739	1589	1589	1667	1667
GPM/TDH (FT.)	75 / 70	55 / 55	155 / 70	80 / 55	192 / 30	192 / 30	380 / 70	380 / 70	710 / 90	710 / 90	180 / 80	180 / 80	360 / 80	360 / 80
EFFICIENCY (%)	58.4	54.8	61.4	53.9	73.5	73.5	78.5	78.5	75.6	75.6	64	64	72.9	72.9
IMPELLER DIAMETER (IN.)	9.375	8.75	13.375	11.75	7	7	9.5	9.5	13.5	13.5	11	11	11	11
NPSH (FT)	3.49	4.6	2.69	2.56	6.57	6.57	4.92	4.92	9.81	9.81	5.04	5.04	3.97	3.97
FLUID TEMP. (°F)	45	140	45	120	120	120	140	140	45	45	140	140	45	45
SYSTEM	CHILLED WATER	HOT WATER	CHILLED WATER	HOT WATER	HOT WATER	HOT WATER	HOT WATER	HOT WATER	CHILLED WATER	CHILLED WATER	HOT WATER	HOT WATER	CHILLED WATER	CHILLED WATER
SUCTION SIZE (IN.)	2	1.5	3	2.5	3	3	4	4	6	6	3	3	11	11
MOTOR ENCLOSURE	ODP	ODP	TEFC	TEFC	TEFC	TEFC	ODP	ODP	ODP	ODP	ODP	ODP	ODP	ODP
MANUFACTURER	BELL AND GOSSETT	BELL AND GOSSETT	BELL AND GOSSETT	BELL AND GOSSETT	BELL AND GOSSETT	BELL AND GOSSETT	BELL AND GOSSETT	BELL AND GOSSETT	BELL AND GOSSETT	BELL AND GOSSETT	BELL AND GOSSETT	BELL AND GOSSETT	BELL AND GOSSETT	BELL AND GOSSETT
TYPE	SPLIT COUPLED	SPLIT COUPLED	SPLIT COUPLED	SPLIT COUPLED	SPLIT COUPLED	SPLIT COUPLED	SPLIT COUPLED	SPLIT COUPLED	SPLIT COUPLED	SPLIT COUPLED	SPLIT COUPLED	SPLIT COUPLED	SPLIT COUPLED	SPLIT COUPLED
MODEL NUMBER	80SC 2x2x9.5C	80SC 1.5x1.5x9.5B	80SC 3x3x13.5	80SC 3x3x13.5	80SC 3x3x7C	80SC 3x3x7C	80SC 4x43x9.5B	80SC 4x43x9.5B	80SC 5x5x13.5	80SC 5x5x13.5	80SC 3x3x11B	80SC 3x3x11B	80SC 4x4x11B	80SC 4x4x11B
LOCATION	MECHANICAL L127	MECHANICAL L127	BLDG. L ROOF	BLDG. L ROOF	BUILDING M ROOF	BUILDING M ROOF	BUILDING M	BUILDING M	BUILDING M	BUILDING M	BUILDING Q	BUILDING Q	BUILDING Q	BUILDING Q
OPER. WT. (LBS)	350	300	450	350	300	300	650	650	725	725	450	450	675	675
ACCESSORIES	1,2,3,4	1,2,3,4	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3,4	1,2,3,4	1,2,3,4	1,2,3,4

1. PROVIDE WITH VFD AND VFD CAPABLE MOTOR AND TRIPLE DUTY VALVE.
2. PROVIDE WITH FLOW SENSOR, PRESSURE SENSOR, BACNET INTEGRATION CAPABLE.
3. PROVIDE WITH FLANGED VIBRATION ISOLATION BASE.
4. PROVIDE WITH SUCTION DIFFUSER

OMIT - FROM PREVIOUS PHASE

9

BOILER SCHEDULE

DESIGNATION	B M1	B M2	
CAPACITY (MBH)	1,900	1,900	
INPUT (CFH)	1,999	1,999	
FUEL	NAT. GAS	NAT. GAS	
NOX EMISSION (PPM)*	<20	<20	
BLOWER POWER (WATTS)	1700	1700	
VOLTS/ PHASE	120/1	120/1	
NAMEPLATE AMPS	13.5	13.5	
MOCP (AMPS)	20	20	
GPM	192	192	
PD (FT.)	1	1	
EWT (°F)	120	120	
LWT (°F)	140	140	
MANUFACTURER	CLEAVER BROOKS	CLEAVER BROOKS	
TYPE	CLEARFIRE	CLEARFIRE	
MODEL NUMBER	CFC-E 2000	CFC-E 2000	
LOCATION	BLDG M ROOF	BLDG M ROOF	
OPER. WT. (LBS)	2,900	2,900	

*CORRECTED TO 3% OXYGEN

1. PROVIDE WITH OUTDOOR WEATHER PACKAGE, EMS INTERFACE FOR BACNET PROTOCOL, CALIFORNIA CODE GAS TRAIN, COMBUSTION AIR FILTER NEUTRALIZATION TANK ASSEMBLY, CALIFORNIA CODE BOILER TRIM, BOILER STACK FOR OUTDOOR APPLICATION, SEISMIC ANCHORING BRACKETS.

OMIT - FROM PREVIOUS PHASE

HEAT PUMP WATER CHILLER SCHEDULE

	DESIGNATION	WC M1	WC M2	WC M3	WC L1	WC L2	
GENERAL	CAPACITY (TONS - COOLING)	148.2	148.2	148.2	55.5	55.5	
	CAPACITY (MBH - HEATING)	1,560.4	1,560.4	1,560.4	593.0	593.0	
	AMBIENT (°F COOLING/HEATING)	105 / 30	105 / 30	105 / 30	105 / 30	105 / 30	
	SOUND POWER AT 30FT. (dBA)				84.7	84.7	
	VOLTS/PHASE	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	
	FLA	349	349	349	149.5	149.5	
	MCA / MOP (AMPS)	367 / 450	367 / 450	367 / 450	160 / 200	160 / 200	
	EER / IPLV (COOLING)	8.5 / 16.3	8.5 / 16.3	8.5 / 16.3	8.45 / -	8.45 / -	
	COP (HEATING)	2.22	2.22	2.22	1.95	1.95	
COMPRESSOR	QUANTITY	6	6	6	4	4	
	SYSTEM POWER (kW - TOTAL)	208.6	208.6	208.6	89.1	89.1	
	REFRIGERANT	R 454 B	R 454 B	R 454 B	R 454 B	R 454 B	
	REFRIGERANT VOLUME (LBS.)				40.0	40.0	
	SCALE FACTOR	0.0001	0.0001	0.0001	0.0001	0.0001	
	CAPACITY CONTROL (%)	16.6% STAGES	16.6% STAGES	16.6% STAGES	25% STAGES	25% STAGES	
EVAPORATOR	GPM (COOLING)	354.0	354.0	354.0	131.3	131.3	
	MIN / MAX FLOW (GPM)	235.0	235.0	235.0	-	-	
	PD (FT. H2O)	10.6	10.6	10.6	7.6	7.6	
	EWT / LWT (°F)	55 / 44	55 / 44	55 / 44	55 / 44	55 / 44	
	GPM (HEATING)	216.0	216.0	216.0	65.8	65.8	
	MIN / MAX FLOW (GPM)	-	-	-	-	-	
	PD (FT. H2O)	2.0	2.0	2.0	3.2	3.2	
	EWT / LWT (°F)	110 / 125	110 / 125	110 / 125	120 / 140	120 / 140	
	FLUID	WATER	WATER	WATER	WATER	WATER	
	CONNECTION (IN.)	4	4	4	3	3	
MANUFACTURER		TRANE	TRANE	TRANE	TRANE	TRANE	
TYPE		ASCEND ACS	ASCEND ACS	ASCEND ACS	MODULAR	MODULAR	
MODEL NUMBER		ACXA1802EUA	ACXA1802EUA	ACXA1802EUA	AXM030	AXM030	
LOCATION		BLDG. M	BLDG. M	BLDG. M	BLDG. L	BLDG. L	
OPER. WT (LBS)		15,500	15,500	15,500	6,000	6,000	
ACCESSORIES		1	1	1	1	1	

1. PROVIDE WITH REDUNDANT REFRIGERANT SYSTEM, SOLID STATE CONTROLS WITH EMS INTERFACE, SINGLE POINT POWER WITH FUSED DISCONNECT, POWER MONITOR. INLET STRAINER.
2. THE FLOW RATE MUST CHANGE AT A RATE OF LESS THAN 10% PER MINUTE TO MAINTAIN +/- 2 DEGREES, AND LESS THAN 30% TO REMAIN ON LINE.
3. STARTUP SHALL BE PEFORMED BY A FACTORY-TRAINED TECHNICIAN FROM THE ORIGINAL EQUIPMENT MANUFACTURER (OEM).
4. CHILLER SHALL BE MADE IN THE USA.
5. CHILLER SHALL HAVE NEXT GENERATION REFRIGERANT WITH GWP < 600.
6. CHILLER SHALL HAVE DEFROST FAULT PROTECTION.
7. CHILLER SHALL HAVE 7" COLOR TOUCHSCREEN DISPLAY CONTROLLER USER INTERFACE.
8. MODULAR CHILLERS TO INCLUDED VAPOR INJECTIONS COMPRESSORS (WC-L1 & WC-L2).
9. MODULAR CHILLERS STRAINER SHALL BE FACTORY INSTALLED BETWEEN THE HEADER SYSTEM AND EACH EVAPORATOR AND CONDENSER INLET (WC-L1 & WC-L2).
10. MODULAR CHILLERS SHALL HAVE INDEPENDENT REFRIGERANT CIRCUITS PER MODULE FOR REDUNDANCY (WC-L1 & WC-L2).
11. MODULAR CHILLERS SHALL HAVE FACTORY INSTALLED DRAIN PANS (WC-L1 & WC-L2).

9

OMIT - FROM PREVIOUS PHASE

9

INDOOR UNIT SCHEDULE

	DESIGNATION	IDU M1	IDU M2	IDU M3	IDU M4	IDU M5	IDU M6	IDU Q1	IDU Q2	IDU L1	IDU L2
BLOWER	SUPPLY AIR (CFM)	375	700	700	375	375	375	375	375	700	700
	EXT. SP (IN WC)	0	0	0	0	0	0	0	0	0	0
	MIN OSA (CFM)	0	0	0	0	0	0	0	0	0	0
	MOCP	POWER FROM ODU	POWER FROM ODU	POWER FROM ODU	POWER FROM ODU	POWER FROM ODU	POWER FROM ODU	POWER FROM ODU	POWER FROM ODU	POWER FROM ODU	POWER FROM ODU
	MCA / FLA (AMPS)	1 / 0.19	1 / 0.36	1 / 0.36	1 / 0.19	1 / 0.19	1 / 0.19	1 / 0.19	1 / 0.19	1 / 0.36	1 / 0.36
	VOLTS / PHASE	.	.	.	.	.	.	.	.	.	.
	SEER / EER	21.0 / 13.3	21.4 / 12.2	21.4 / 12.2	21.0 / 13.3	21.0 / 13.3	21.0 / 13.3	21.0 / 13.3	21.0 / 13.3	21.4 / 12.2	21.4 / 12.2
COOLING	SENSIBLE (MBH)	-	-	-	-	-	-	-	-	-	-
	TOTAL (MBH)	11.6	23.3	23.3	11.6	11.6	11.6	11.6	11.6	23.3	23.3
	EADB/EAWB (F)	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67
	REFRIGERANT	.	.	.	.	.	.	.	.	.	.
FILTERS	QUANTITY/SIZE	1 / FACTORY	1 / FACTORY	1 / FACTORY	1 / FACTORY	1 / FACTORY	1 / FACTORY	1 / FACTORY	1 / FACTORY	1 / FACTORY	1 / FACTORY
	TYPE	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY
	PD (IN WC)	.	.	.	.	.	.	.	.	.	.
MANUFACTURER		MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI
TYPE		HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
MODEL NUMBER		TPKAOA0121LA	TPKAOA0241KA	TPKAOA0241KA	TPKAOA0121LA	TPKAOA0121LA	TPKAOA0121LA	TPKAOA0121LA	TPKAOA0121LA	TPKAOA0241KA	TPKAOA0241KA
CONDENSING UNIT		ODU-M1	ODU-M2	ODU-M3	ODU-M4	ODU-M5	ODU-M6	ODU-Q1	ODU-Q2	ODU-L1	ODU-L1
LOCATION		M210A AMP. ROOM	M210 BROADCAST	M107 ELEV. EQUIP.	M150 ELEV. EQUIP.	M163 IDF/AV	M116 IDF	Q101C ELEV. EQUIP	Q101B ELEV. EQUIP	L122 ELEV. EQUIP.	L122 ELEV. EQUIP.
OPER WT (LBS)		33	50	50	33	33	33	33	33	50	50
ACCESSORIES		1	1	1	1	1	1	1	1	1	1

1. PROVIDE WITH CONDENSATE LIFT PUMP AND HARD WIRED REMOTE CONTROLLER.

5

OMIT - FROM PREVIOUS PHASE

9

OUTDOOR UNIT SCHEDULE

DESIGNATION	ODU M1	ODU M2	ODU M3	ODU M4	ODU M5	ODU M6	ODU Q1	ODU Q2	ODU L1	ODU L2
COOLING CAPACITY (MBH)	11.6	23.3	23.3	11.6	11.6	11.6	11.6	11.6	23.3	23.3
VOLTS/PHASE	208 / 1	208 / 1	208 / 1	208 / 1	208 / 1	208 / 1	208 / 1	208 / 1	208 / 1	208 / 1
FLA	-	-	-	-	-	-	-	-	-	-
MCA / MOCP	11 / 28	19 / 26	19 / 26	11 / 28	11 / 28	11 / 28	11 / 28	11 / 28	19 / 26	19 / 26
SEER / EER	21.0 / 13.3	21.4 / 12.2	21.4 / 12.2	21.0 / 13.3	21.0 / 13.3	21.0 / 13.3	21.0 / 13.3	21.0 / 13.3	21.4 / 12.2	21.4 / 12.2
AMBIENT (°F)	105	105	105	105	105	105	105	105	105	105
REFRIG LINE SIZE	.	.	.	.	.	.	.	.	.	.
LIQUID (IN. OD)	1/4	3/8	3/8	1/4	1/4	1/4	1/4	1/4	3/8	3/8
SUCTION (IN OD)	1/2	5/8	5/8	1/2	1/2	1/2	1/2	1/2	5/8	5/8
REFRIGERANT	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
MANUFACTURER	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI
TYPE	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
MODEL NUMBER	TRUZAOP21KA7ONA	TRUYA0241HA7ONA	TRUYA0241HA7ONA	TRUZAOP21KA7ONA	TRUZAOP21KA7ONA	TRUZAOP21KA7ONA	TRUZAOP21KA7ONA	TRUZAOP21KA7ONA	TRUYA0241HA7ONA	TRUYA0241HA7ONA
SERVICE	IDU-M1	IDU-M2	IDU-M3	IDU-M4	IDU-M5	IDU-M6	IDU-Q1	IDU-Q2	IDU-L1	IDU-L1
OPER WT (LBS)	110	160	160	110	110	110	110	110	160	160
ACCESSORIES	1	1	1	1	1	1	1	1	1	1

1. PROVIDE WITH LIQUID LINE FILTER SUCTION LINE FILTER AND SITE GLASS.
2. UNIT SHALL PROVIDE 24/7 100% COOLING AT 23F AMBIENT WITHOUT DE-RATE AND DESIGNED FOR PROCESS (NON-COMFORT) APPLICATIONS.

5

DSA File No.:
10-H15

DSA Application No.:
02-120779

Agency Approval

General Notes

LAWRENCE ENGINEERING GROUP
4910 E. Clinton Way, Suite 101 Fresno, CA 93727
(559) 431-0181 22040 FAX (559) 431-1342

Consultant

SANGER EDUCATION COMPLEX - PHASE 3
Sanger Unified School District
1760 S Fowler Ave, Fresno CA 93727

Project

TYPICAL INFORMATION
MECHANICAL SCHEDULES

Drawing

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Architect

No.	Revision/Submission	Date
5	Addendum #5	12/13/23
6	RFI 005	03/28/24
9	DSA ADDENDUM 9	10/01/26

Revision

Designed By:
Drawn By: LEG
Checked By:
Reviewed By:

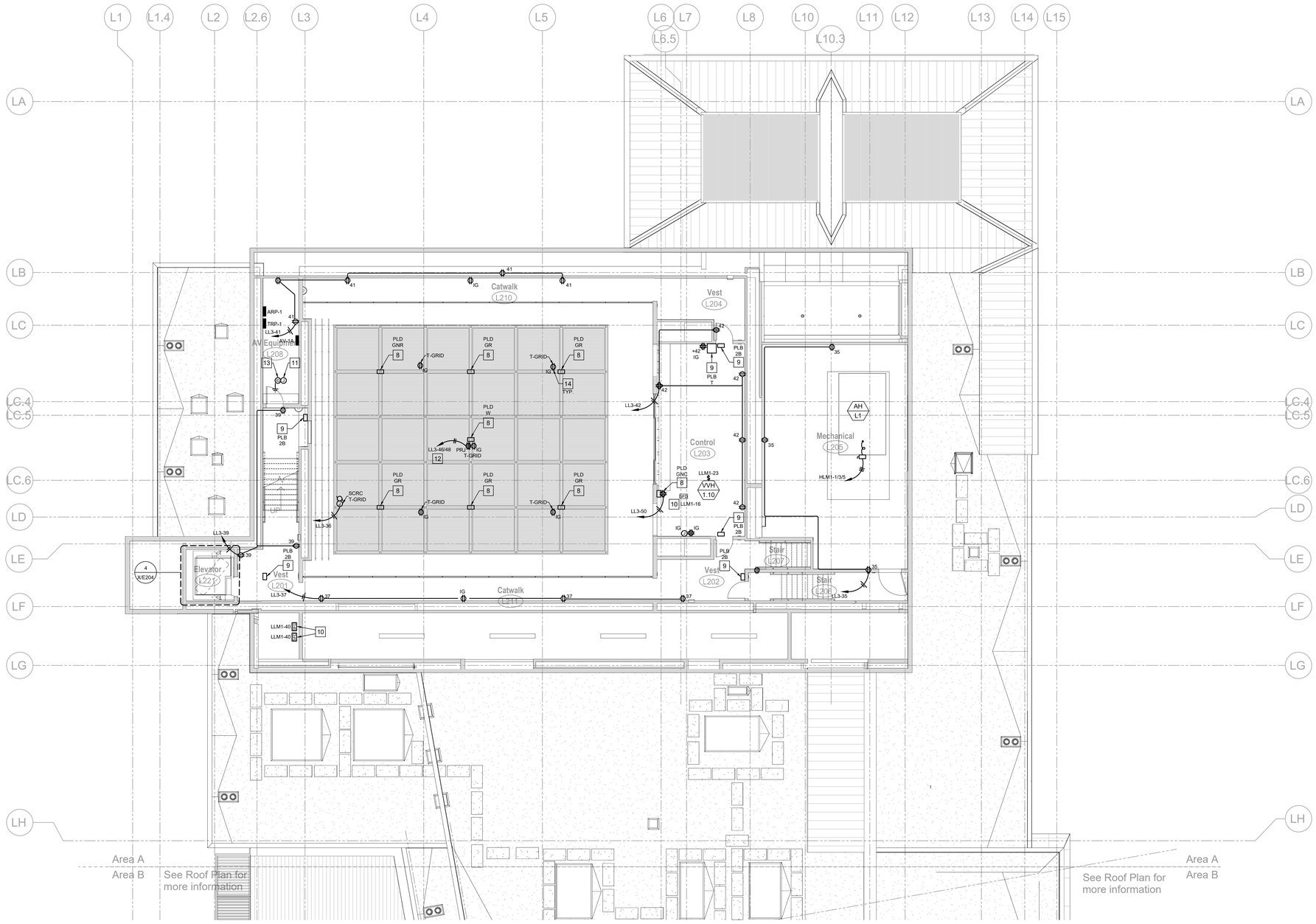
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Scale:
Project Number: 2171
Date: 08/11/23

X/M203

AD9

15 September 2026 10:45 AM P:\2022\22040 Sanger USD Ed Center Phase 2\Lt-Drawings\4 MEP\M203 - SCHEDULES.dwg david s



BUILDING L SECOND FLOOR ELECTRICAL PLAN AREA A

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

NORTH

NOTE:
FOR CLARIFICATION, SOME HOMERUNS HAVE NOT BEEN SHOWN ON THIS SHEET. CONTRACTOR TO PROVIDE ALL REQUIRED HOMERUNS. REFER TO PANEL SCHEDULES FOR CONDUCTORS SIZES

DSA File No.:
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DSA Application No.:
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APP: 02-120779 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 11/6/2023

Agency Approval

☐ Sheet Reference Notes

1. ELECTRICAL PANEL, SEE SINGLE LINE DIAGRAM AND REFER TO PANEL SCHEDULES.
2. LOCATIONS FOR FUTURE PHOTOVOLTAIC SYSTEM DISCONNECT SWITCHES.
3. PROVIDE 120V CONNECTION TO FIRE SPRINKLER BELL AS PER FIRE PROTECTION DRAWINGS.
4. PROVIDE 120V CONNECTION TO AUTOMATIC DOOR OPENER CONTROLLER AND LOW VOLTAGE CONTROLS ROUGH-IN AT BOLLARD (AS APPLICABLE) AS PER ARCHITECTURAL PLANS AND DOOR MANUFACTURERS RECOMMENDATIONS.
5. PROVIDE 120V CONNECTION TO AUTOMATIC DOOR OPENER AND ROUGH-IN FOR LOW VOLTAGE CONTROLS AND LOW VOLTAGE WIRING AS PER MANUFACTURER'S INSTRUCTIONS.
6. BRANCH CIRCUIT UP TO LIGHTING CONTROLS, SEE LIGHTING CONTROL PLANS.
7. NOT USED.
8. PRODUCTION LIGHTING DEVICE REFER TO PRODUCTION LIGHTING SHEETS FOR MORE INFORMATION.
9. PRODUCTION LIGHTING PUSHBUTTON DEVICE REFER TO PRODUCTION LIGHTING SHEETS FOR MORE INFORMATION.
10. PROVIDE 120V CONNECTION TO SMOKE FIRE DAMPER AS PER MECHANICAL PLANS.
11. PROVIDE (6) 20A ISOLATED GROUND DEDICATED CIRCUITS TO AV EQUIPMENT RACKS. CONNECT RACEWAY USING NON-CONDUCTIVE CONDUIT TO MAINTAIN ISOLATED GROUND.
12. PROVIDE (1) DEDICATED 208V 30A L6-30R CONFIGURATION FOR VIDEO PROJECTOR.
13. PROVIDE #3/0 AWG CABLE FOR CONNECTION TO AV EQUIPMENT RACKS TO ISOLATED GROUND. BRING INTO RACK USING NON-CONDUCTIVE CONDUIT TO COPPER IG BUS.
14. REFER TO PRODUCTION LIGHTING DRAWINGS FOR SPECIFIC REQUIREMENTS FOR ALL "IG" TYPE RECEPTACLES.

General Notes

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STATE OF CALIFORNIA

EXPIRES: 06/30/25

Consultant THOMA #22-8060

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Sanger Unified School District
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Project

BUILDING L SECOND FLOOR ELECTRICAL PLAN AREA A

Drawing

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LICENSED ARCHITECT
RODNEY K. FENNO
No. C23724
Exp. 4-30-25
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Architect

No.	Revision/Submission	Date

Revision

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Scale: As indicated	Drawn By:	*L/E203.4*
Project Number: 2171	Checked By:	
Date: 10/16/23	Reviewed By:	

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SECTION 00 31 19 – EXISTING CONDITION INFORMATION

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:
   1. Identification of record (as-built) documents of existing facilities made available to proposers and the Contractor for information.
   2. Requirements for field verification of existing conditions, including potholing of existing utilities by hydro-excavation (vacuum excavation).

B. Related Sections: The following Project Manual Sections contain requirements that relate to this section:
   1. ALL DIVISION 00 SPECIFICATION SECTIONS.
   2. ALL DIVISION 01 SPECIFICATION SECTIONS.
   3. Specification Section 01 50 00 – TEMPORARY FACILITIES AND CONTROLS, Article 3.10, Pre-Construction Condition Documentation, and Article 3.13, Hydro-Excavation at Existing Utilities.

1.2 EXISTING CONDITION INFORMATION

A. The following record (as-built) documents of existing facilities are made available to proposers and the Contractor for information only:
   1. Sanger Education Complex – Phase 3, Site Development Electrical Drawings, prepared by Darden Architects, Inc. (Project No. 2171) with Thoma Electric, Inc., Electrical Engineer, DSA Application No. 02-120779, approved by DSA November 6, 2023, and revised by Addenda No. 3 and No. 4 (DSA approved January 17, 2024), with as-built (record) information by Wild Electric. The record set consists of the following forty-eight (48) sheets:
      a. Site Lighting Plans: SD/E100 – Overall Site Lighting Plan; SD/E101, SD/E102, SD/E106, SD/E107, SD/E108, SD/E111, SD/E112, SD/E113, SD/E116, SD/E117, SD/E118, SD/E119, SD/E123, SD/E124, SD/E128, SD/E129 – Partial Site Lighting Plans.
      b. Site Electrical Plans: SD/E200 – Overall Site Electrical Plan; SD/E201, SD/E202, SD/E206, SD/E207, SD/E208, SD/E211, SD/E212, SD/E216, SD/E217, SD/E218, SD/E219, SD/E223, SD/E224, SD/E228 – Partial Site Electrical Plans.
      c. Site Communications Plans: SD/T100 – Overall Site Communications Plan; SD/T101, SD/T102, SD/T106, SD/T107, SD/T108, SD/T111, SD/T112, SD/T113, SD/T116, SD/T117, SD/T118, SD/T119, SD/T123, SD/T124, SD/T128 – Partial Site Communications Plans.
   2. The record set is a partial selection of the Phase 3 site electrical drawings. Sheets not listed above are not included.

B. The record documents listed above are attached to Addendum No. 9.

1.3 STATUS OF INFORMATION

A. The record documents listed in this Section are not part of the Contract Documents.

B. The record documents are existing information made available from the Owner's records in accordance with General Conditions Section 2.2.5. The Contractor may not rely on the accuracy of this information, except as provided in the General Conditions.

C. The Owner and Architect make no representation or warranty as to the accuracy or completeness of the record documents, or that existing conditions are as shown. Record documents may not reflect changes made during or after the original construction.

D. The record documents are provided solely for the convenience of the Contractor and are not a substitute for the Contractor's own investigation, interpretation, and judgment. The Contractor is responsible for any conclusions it draws from this information.

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E. Refer to General Conditions Section 2.2.6 regarding existing utility lines, and Section 4.5.8 regarding concealed or unknown conditions.

1.4 SUBMITTALS

A. Submit in accordance with Specification Section - SUBMITTAL PROCEDURES:
   1. Pothole Log: Record of existing utilities exposed by hydro-excavation, in accordance with Specification Section 01 50 00 – TEMPORARY FACILITIES AND CONTROLS, Article 3.13.
   2. Notice of Discrepancy: Written notice of each discrepancy between the record documents and the existing conditions encountered, in accordance with Article 3.3 of this Section.

PART 2 - PRODUCTS

2.1 NOT USED

PART 3 - EXECUTION

3.1 FIELD VERIFICATION

A. Before beginning the affected Work, the Contractor shall field-verify all existing conditions, including the locations, sizes, depths, inverts, and materials of existing utilities, and existing building elements and site improvements affected by the Work.

B. Verify the location, elevation, invert, size, and material of each existing utility at each point of connection before ordering materials for, or beginning installation of, the new utility that connects to it.

3.2 POTHOLING OF EXISTING UTILITIES

A. The Contractor shall pothole all existing utilities by hydro-excavation (vacuum excavation) to verify their location, depth, size, and material before excavating near them or connecting to them, in accordance with Specification Section 01 50 00 – TEMPORARY FACILITIES AND CONTROLS, Article 3.13.

B. At a minimum, pothole existing utilities at the following locations:
   1. Each point of connection of new Work to an existing utility.
   2. Each location where new Work crosses an existing utility.
   3. Along existing utilities that parallel new Work within the tolerance zone defined in California Government Code Section 4216, at intervals sufficient to establish the alignment and depth of the existing utility.

C. Perform potholing far enough in advance of the affected Work to allow conflicts to be identified and resolved without delay to the Work.

D. Record the results of each pothole in the pothole log, and on the Project Record Drawings, in accordance with Specification Section 01 50 00 – TEMPORARY FACILITIES AND CONTROLS, Article 3.13.

3.3 DISCREPANCIES AND CONFLICTS

A. Where existing conditions differ from the record documents, or an existing utility conflicts with the Work, notify the Architect and Owner in writing immediately. Do not proceed with the Work in the affected area until directed by the Architect.

B. Where the Contractor discovers utility facilities not identified in the Contract Documents, notify the Owner and the utility in writing immediately, in accordance with General Conditions Section 2.2.6.3.

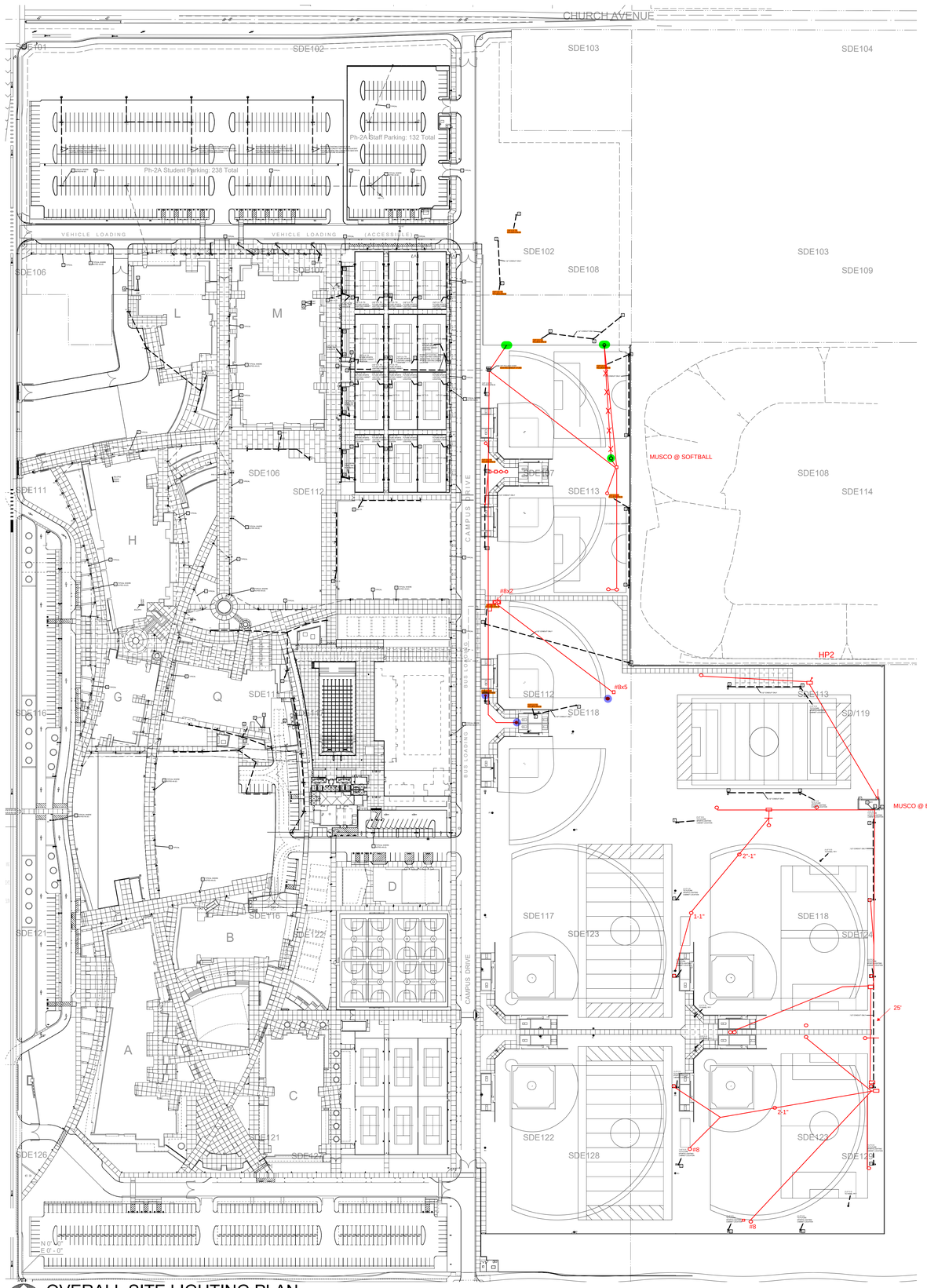
C. Existing utilities and improvements damaged by the Contractor’s operations shall be reported immediately to the Owner and the utility owner, and repaired at no additional cost to the Owner.

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3.4 COST

A. The Contractor shall include all costs of field verification, potholing by hydro-excavation, pothole logs, and recording of existing conditions on the Project Record Drawings in the Contract Sum.

END OF SECTION



NORTH

OVERALL SITE LIGHTING PLAN

SCALE: 1"=20'-0"

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☐ Sheet Reference Notes

SL1-15 3 POLE CIRCUITS

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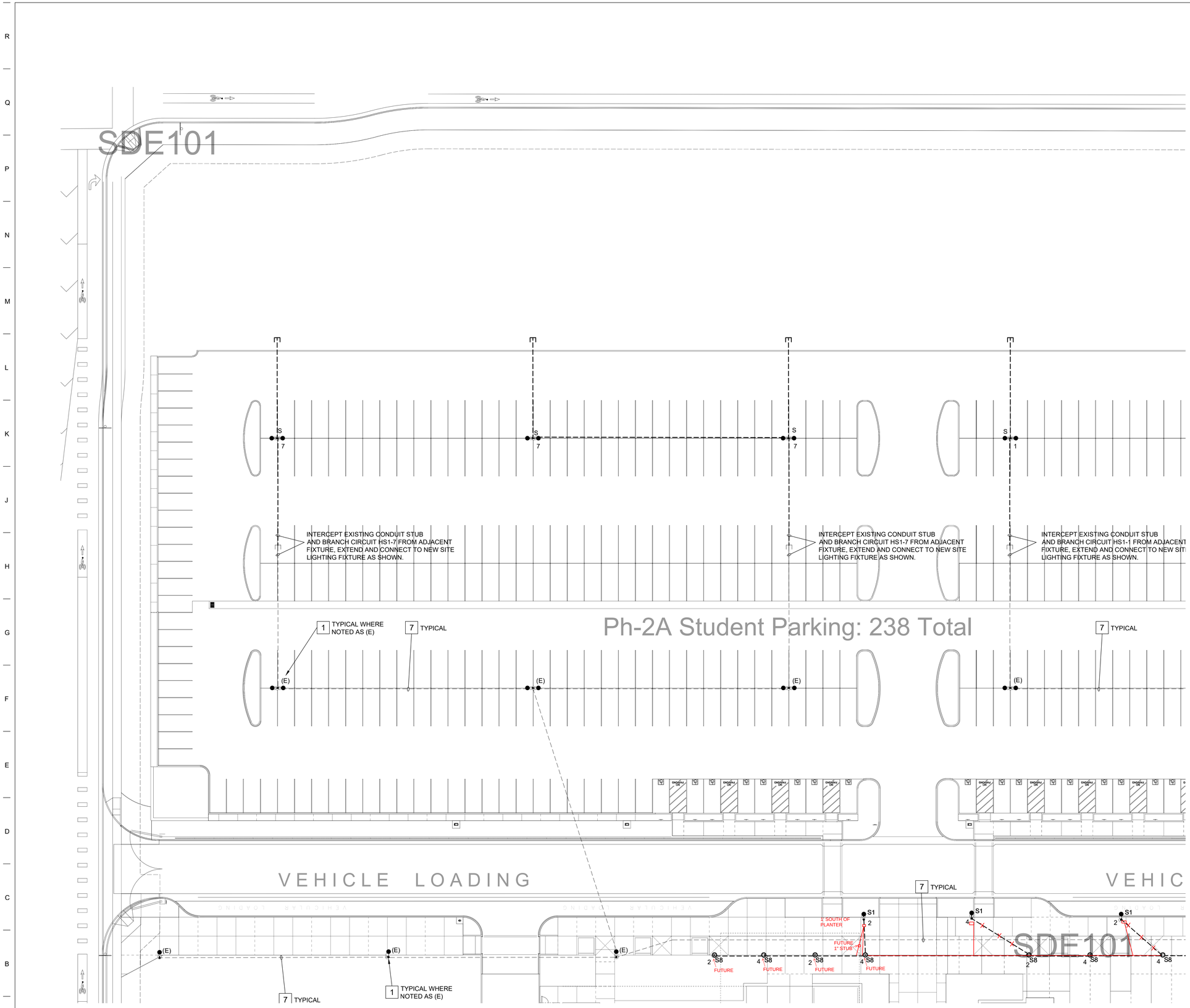
Architect

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Revision

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Scale: As indicated	Drawn By:	
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PARTIAL SITE LIGHTING PLAN

SCALE: 1"=20'-0"

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ASB BY WILD ELECTRIC

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SEE SHEET X/E105 FOR LIGHTING FIXTURE SCHEDULE.

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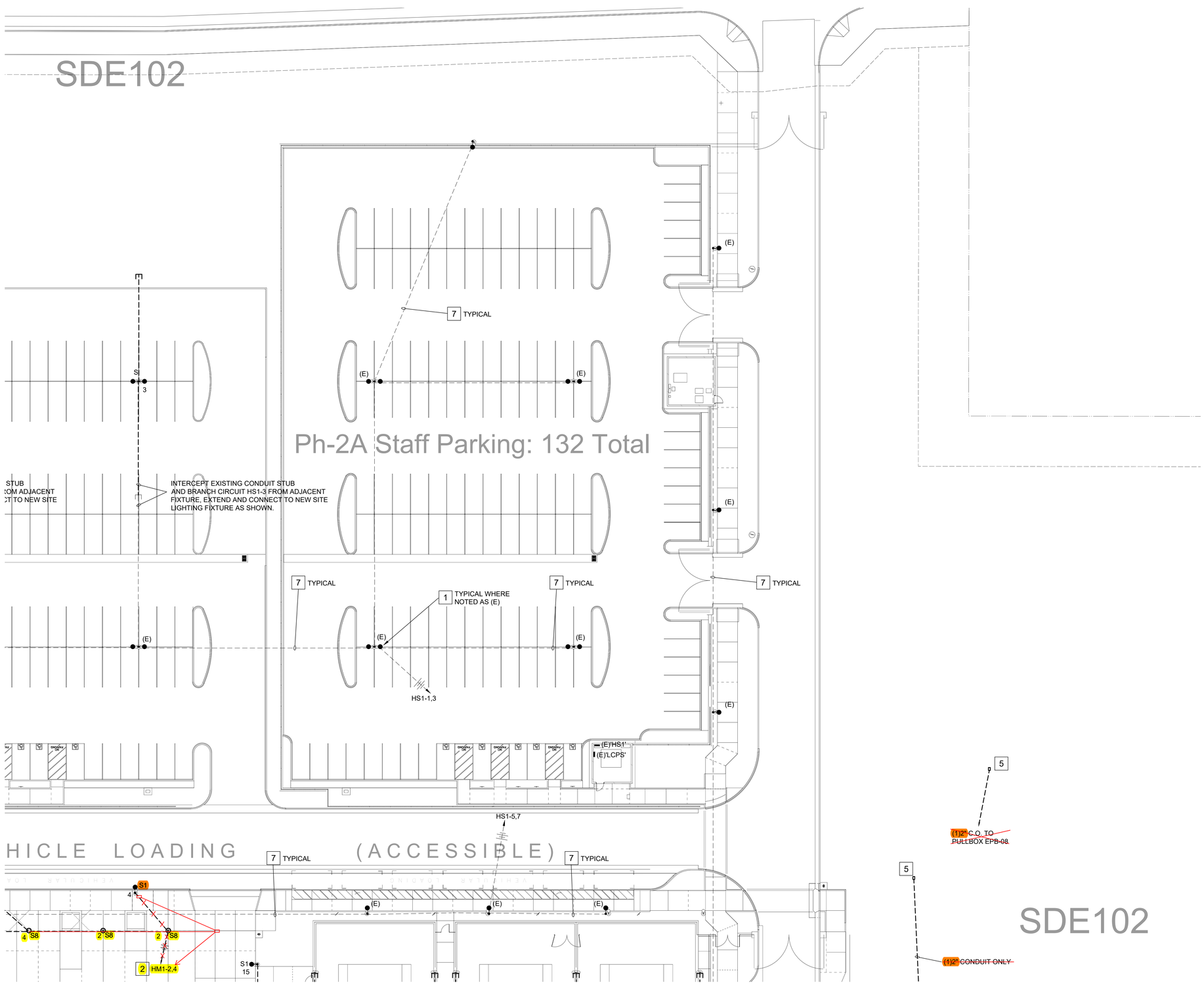
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Project Number: 2171	Checked By:	
Date: 10/16/23	Reviewed By:	

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PARTIAL SITE LIGHTING PLAN

SCALE: 1"=20'-0"

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PARTIAL SITE LIGHTING PLAN

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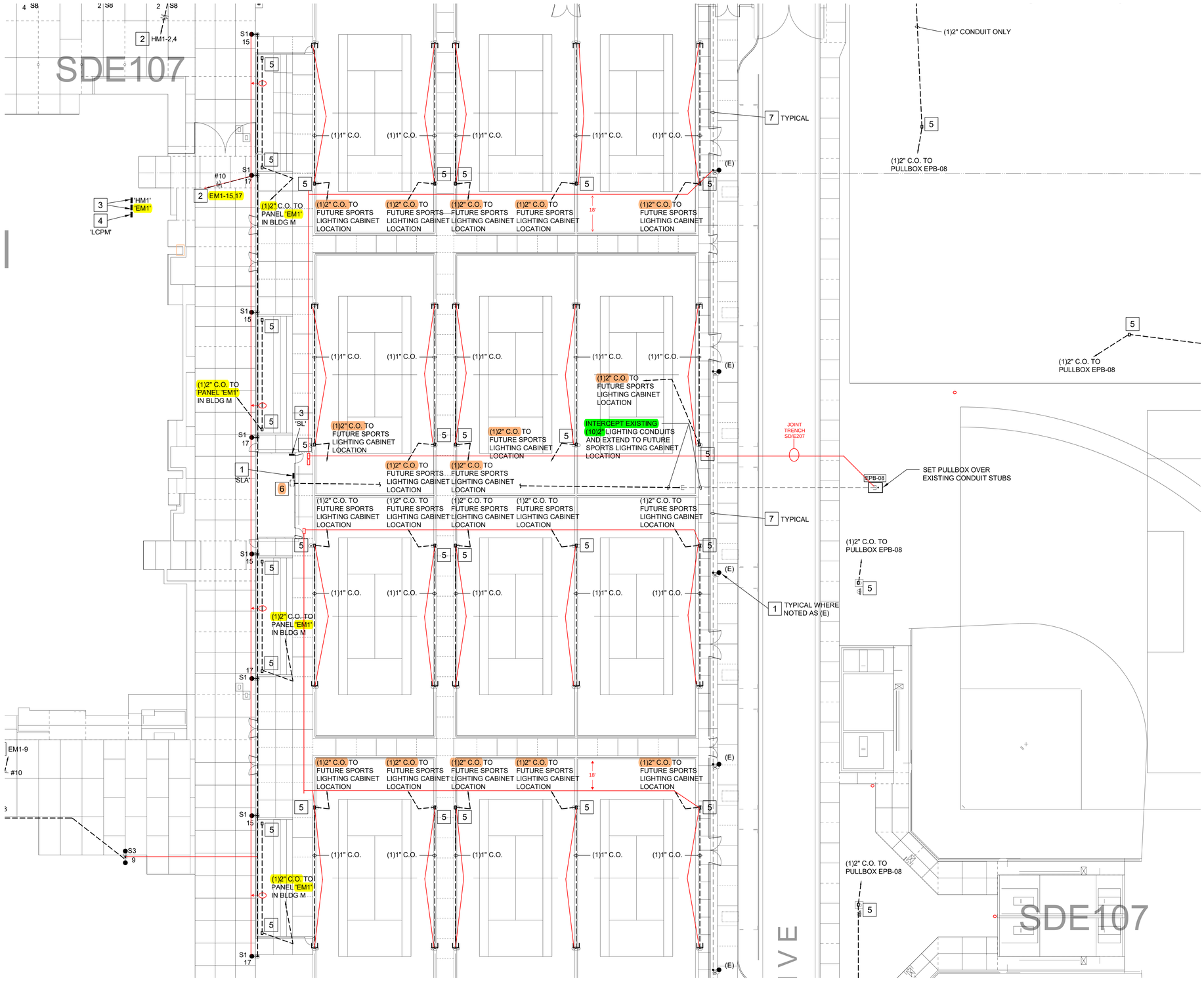
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PARTIAL SITE LIGHTING PLAN

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SS ☑ FLS ☑ ACS ☑
DATE: 11/6/2023

Agency Approval

Sheet Reference Notes

1. EXISTING SITE LIGHTING FIXTURE TO REMAIN, PROTECT IN PLACE.
2. ROUTE BRANCH CIRCUIT(S) THROUGH LIGHTING CONTROL PANEL, SEE LIGHTING CONTROL DIAGRAM ON SHEET X/E301.
3. ELECTRICAL / LIGHTING PANELBOARD, SEE SINGLE LINE DIAGRAM SHEETS X/E101, X/E102, X/E103, AND X/E104, AND PANEL SCHEDULE SHEETS.
4. LIGHTING CONTROL PANEL, SEE LIGHTING CONTROL DIAGRAM ON SHEET X/E301.
5. 11" X 17" PULLBOX AT FUTURE SPORTS LIGHTING FIXTURE LOCATION. RELOCATED PER RFI
6. FUTURE SPORTS LIGHTING CABINET LOCATION.
7. EXISTING SITE LIGHTING CONDUITS TO REMAIN, CONTRACTOR TO CONFIRM EXACT LOCATION AND PROTECT IN PLACE.

ASB BY WILD ELECTRIC

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PROVIDE CONCRETE MOW STRIP AROUND ALL SITE UTILITY ITEMS, SEE DETAIL L6-SD/A309 FOR THE ARCHITECTURAL MOW STRIP DETAIL.

SEE SHEET X/E105 FOR LIGHTING FIXTURE SCHEDULE.

REFER TO SHEET X/E201 FOR CONDUIT IN TRENCH DETAIL AND TYPICAL SITE DETAILS.

REFER TO SHEET X/E202 FOR POLE MOUNTED FIXTURE CONCRETE BASE DETAILS.

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EXPIRES: 06/30/25

Consultant THOMA #22-8060

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Drawing

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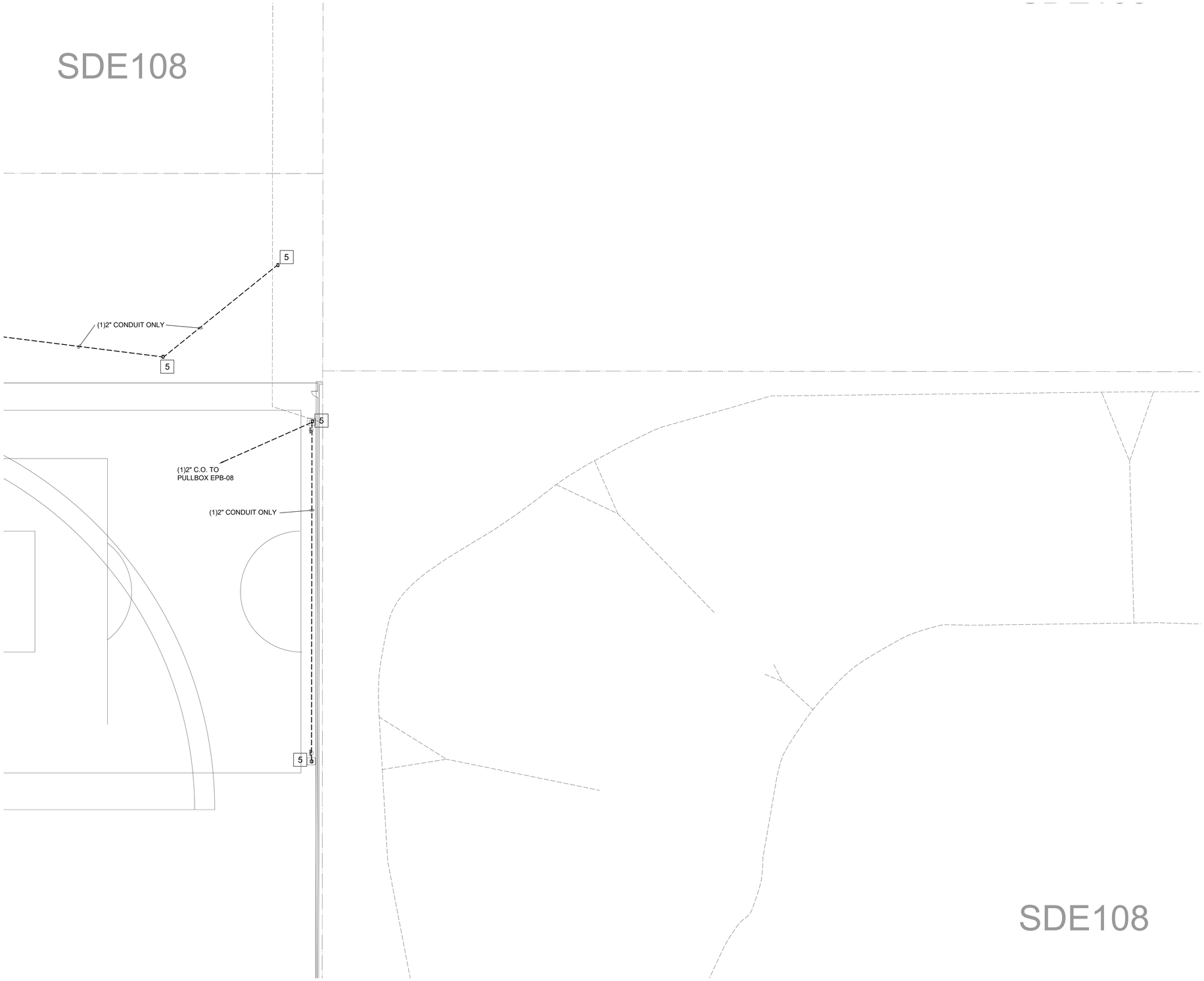
LICENSED ARCHITECT JAMES K. FEREDAY No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By:	Copyright 2021 Darden Architects
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Project Number: 2171	Checked By:	
Date: 10/16/23	Reviewed By:	



PARTIAL SITE LIGHTING PLAN

SCALE: 1"=20'-0"

NORTH

DSA File No.:
DSA File

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APP: 02-120779 INC:
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DATE: 11/6/2023

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Consultant THOMA #22-8060

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LICENSED ARCHITECT REGISTERED K. TSUTSUI No. C23724 REN. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

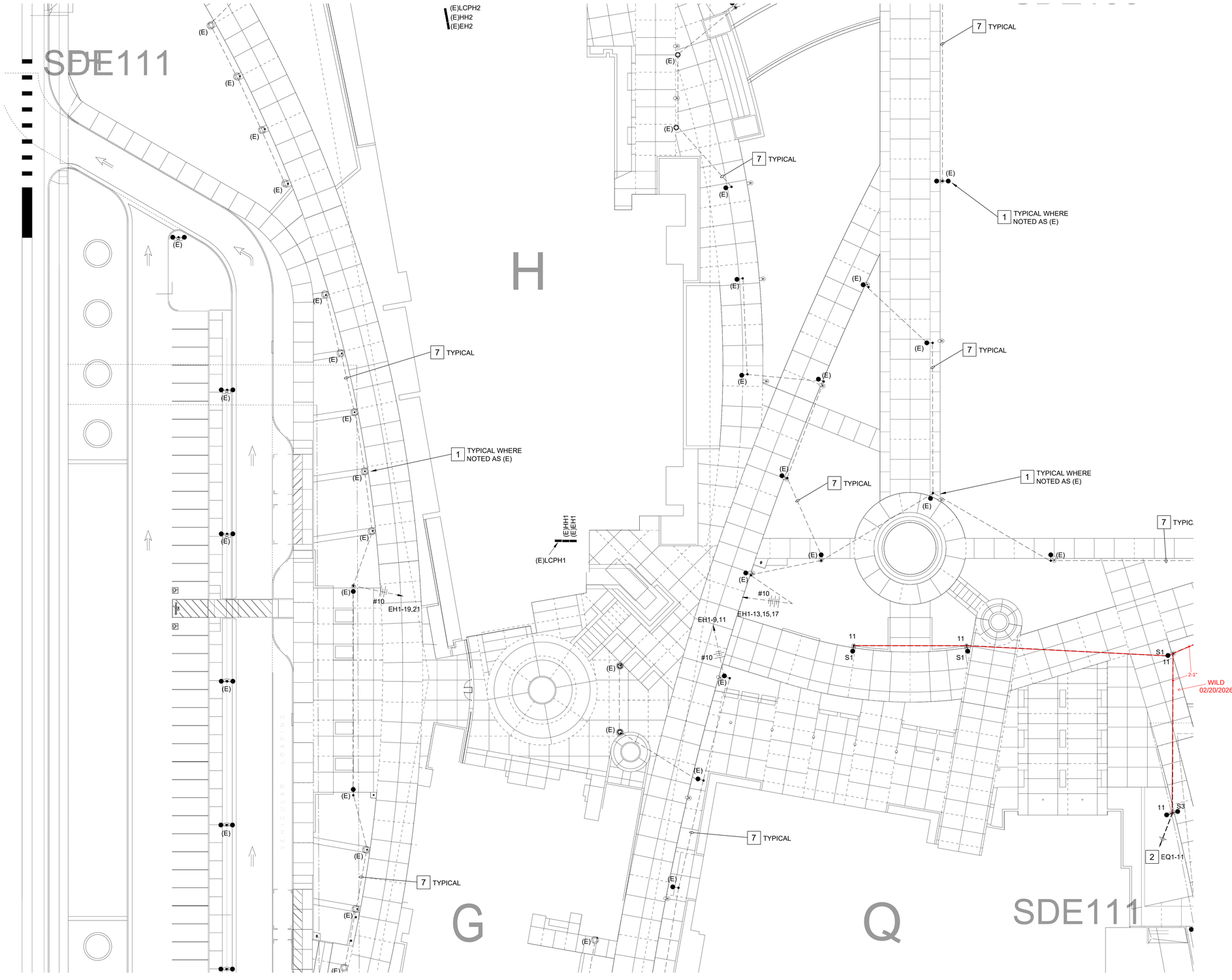
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Project Number: 2171
Date: 10/16/23

SD/E108



NORTH

PARTIAL SITE LIGHTING PLAN

SCALE: 1"=20'-0"

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Consultant THOMA #22-8060

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LICENSED ARCHITECT
RICHARD K. FERRO
No. C23724
EXP. 4-30-25
STATE OF CALIFORNIA

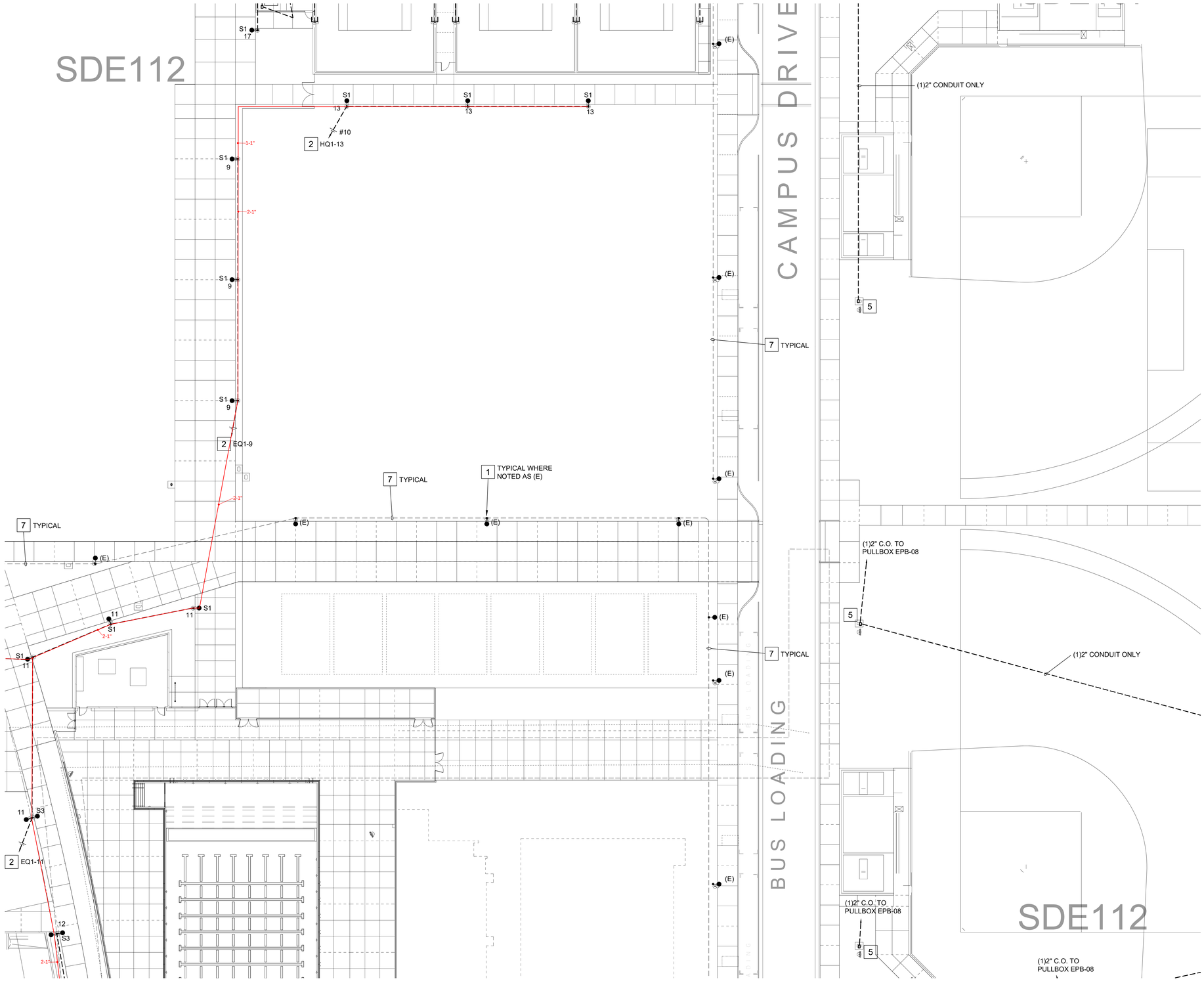
Architect

No.	Revision/Submission	Date

Revision

	Designed By:	Copyright 2021 Darden Architects
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Project Number: 2171	Checked By:	
Date: 10/16/23	Reviewed By:	

K:\ENG\2022\22-8060\22-8060_SDE100-SDE129_PARTIAL SITE LTG PLN.dwg - avillanueva - Oct 16, 2023 - 3:47pm



PARTIAL SITE LIGHTING PLAN

SCALE: 1"=20'-0"

NORTH

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EXPIRES: 06/30/25
Consultant THOMA #22-8060

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LICENSED ARCHITECT MICHAEL K. DARDEN No. C23724 REN. 4-30-25 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

Designed By:
Drawn By:
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Scale: As indicated
Project Number: 2171
Date: 10/16/23

SD/E112



PARTIAL SITE LIGHTING PLAN

SCALE: 1"=20'-0"

NORTH

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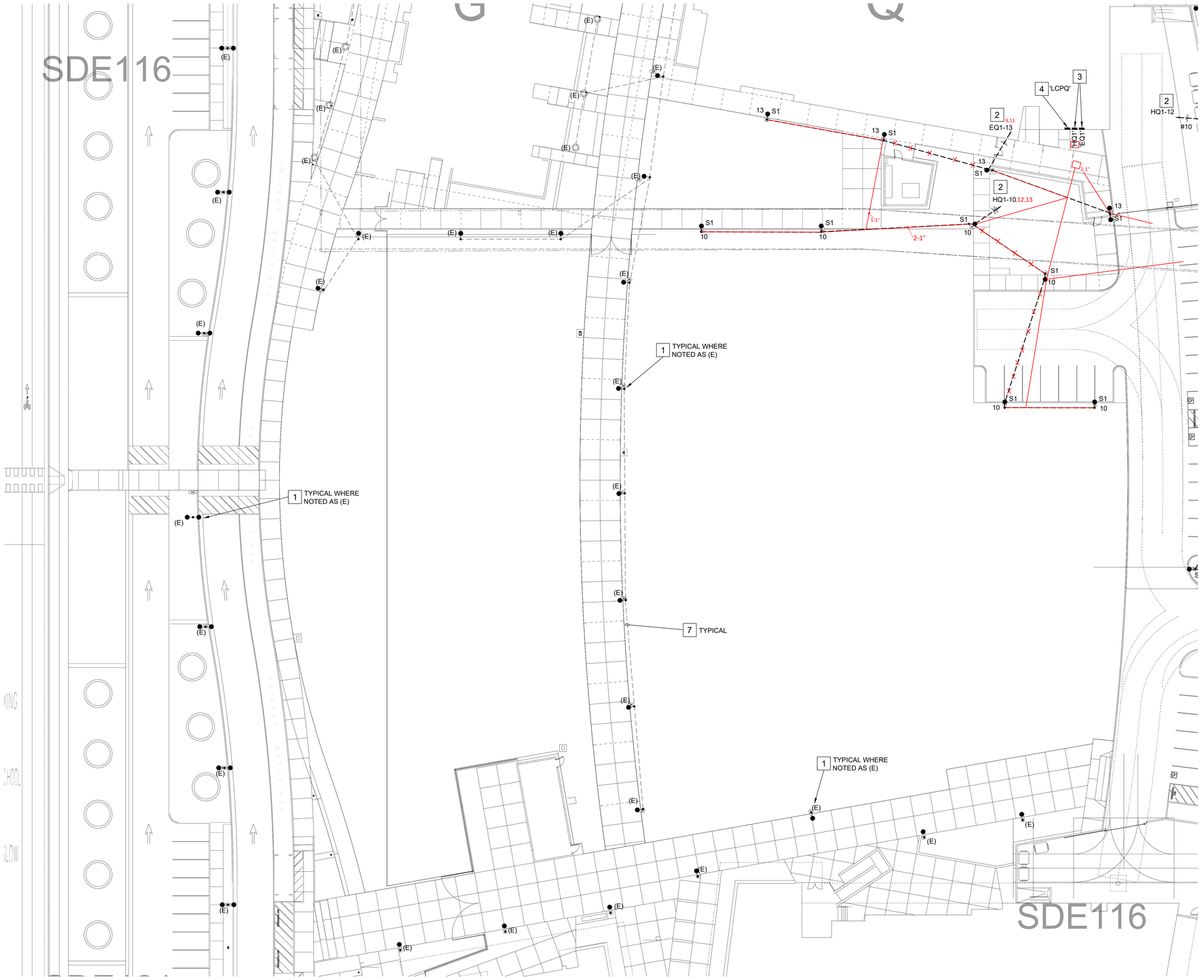
LICENSED ARCHITECT RODNEY K. FENWICK No. C23724 EXP. 4-30-25 STATE OF CALIFORNIA
Architect

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PARTIAL SITE LIGHTING PLAN

SCALE: 1"=20'-0"

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P.O. Box 1167 - 3562 Empleo St.
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REGISTERED PROFESSIONAL ENGINEER WILLIAM A. THOMA ELECTRICAL STATE OF CALIFORNIA

EXPIRES: 06/30/25

Consultant THOMA #22-8060

SANGER EDUCATION COMPLEX-PHASE 3
Sanger Unified School District
1760 S Fowler Ave, Fresno CA 93727
Project

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Drawing

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LICENSED ARCHITECT RICHARD K. FEDOR No. C23724 EXP. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

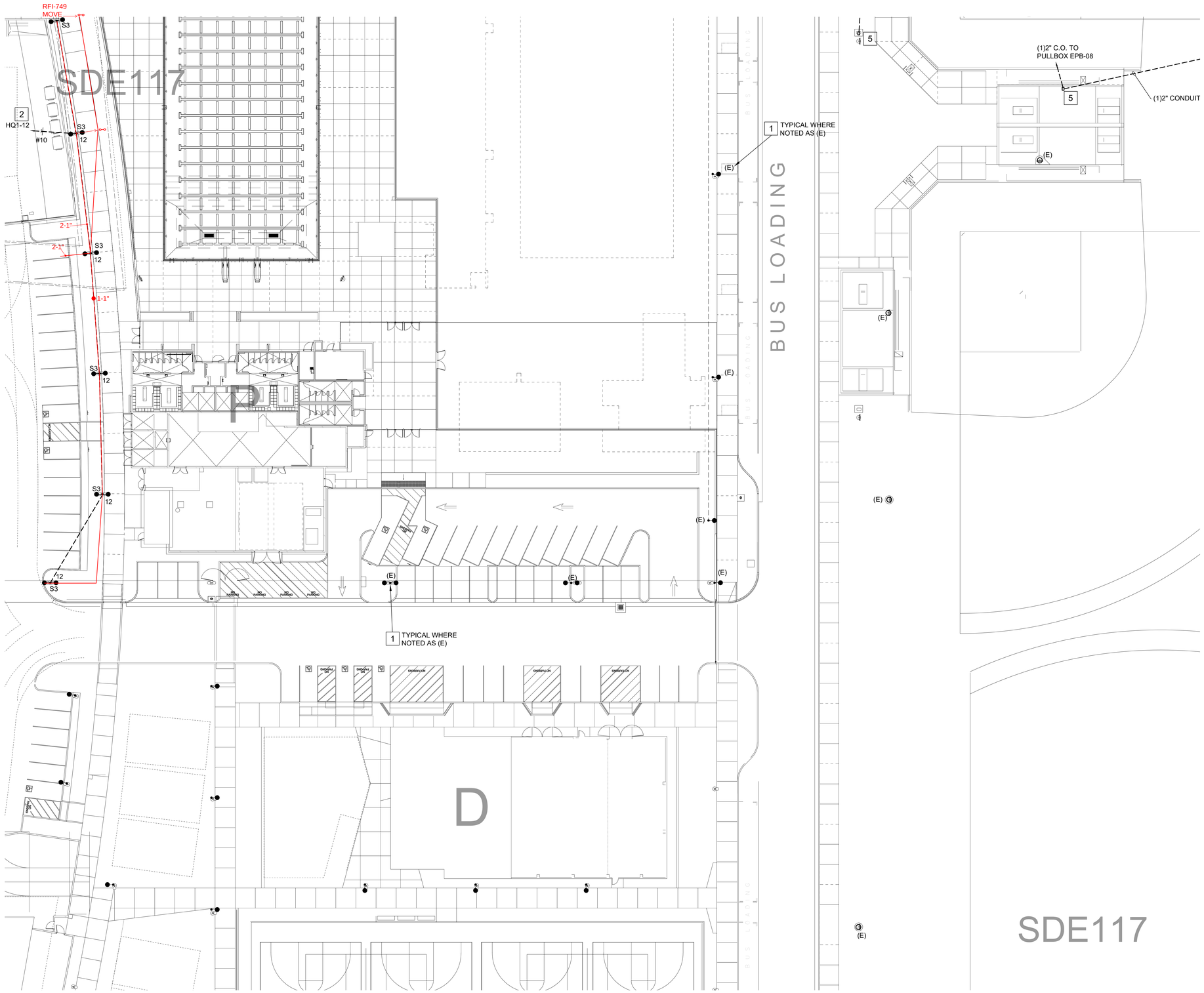
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Drawn By:
Project Number: 2171
Checked By:
Date: 10/16/23
Reviewed By:

SD/E116



PARTIAL SITE LIGHTING PLAN

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NORTH

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APP: 02-120779 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 11/6/2023

Agency Approval

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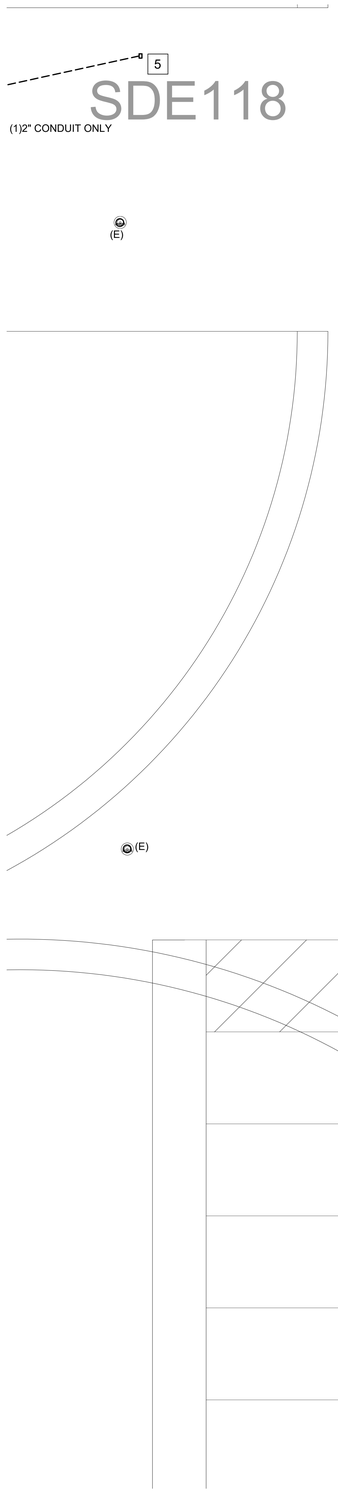
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No.	Revision/Submission	Date

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Scale: As indicated	Drawn By:	*SD/E117*
Project Number: 2171	Checked By:	
Date: 10/16/23	Reviewed By:	

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PARTIAL SITE LIGHTING PLAN

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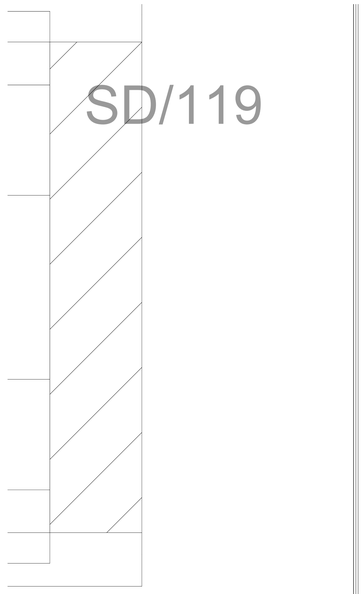
LICENSED ARCHITECT GEORGE K. FERRATO No. C23724 STATE OF CALIFORNIA

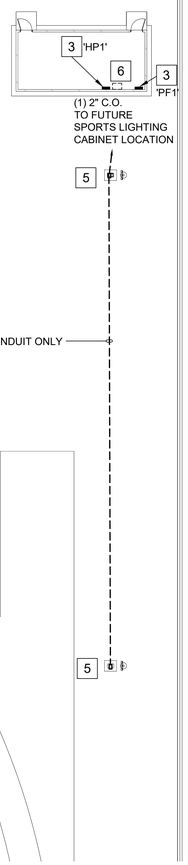
Architect

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Project Number: 2171	Checked By:	
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PARTIAL SITE LIGHTING PLAN

SCALE: 1"=20'-0"

NORTH

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STATE OF CALIFORNIA
EXPIRES: 06/30/25

Consultant THOMA #22-8060

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LICENSED ARCHITECT
ROBERT K. FEENAEY
No. C23724
REN. 4-30-25
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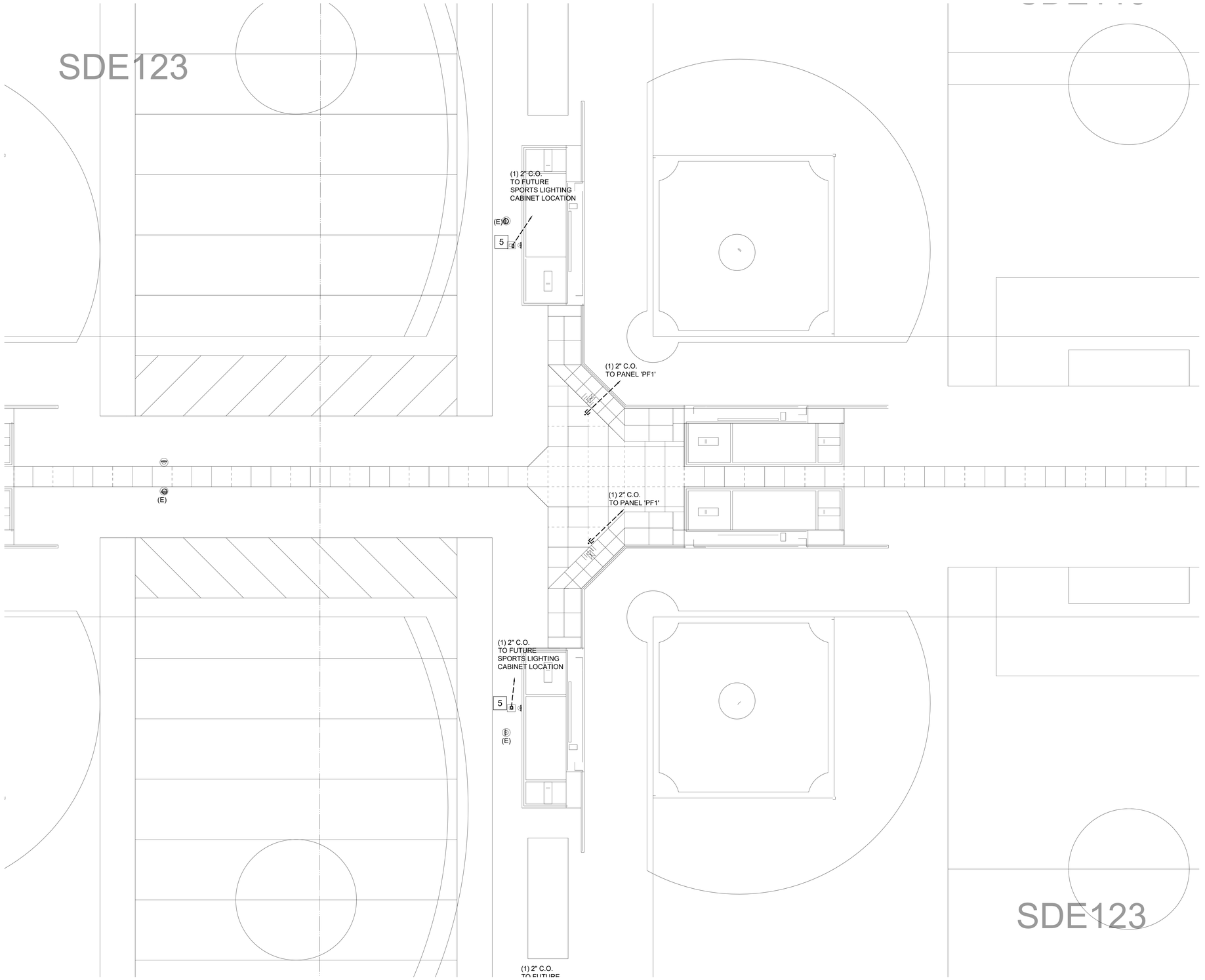
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Revision

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Project Number: 2171	Checked By:	
Date: 10/16/23	Reviewed By:	

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PARTIAL SITE LIGHTING PLAN

SCALE: 1"=20'-0"

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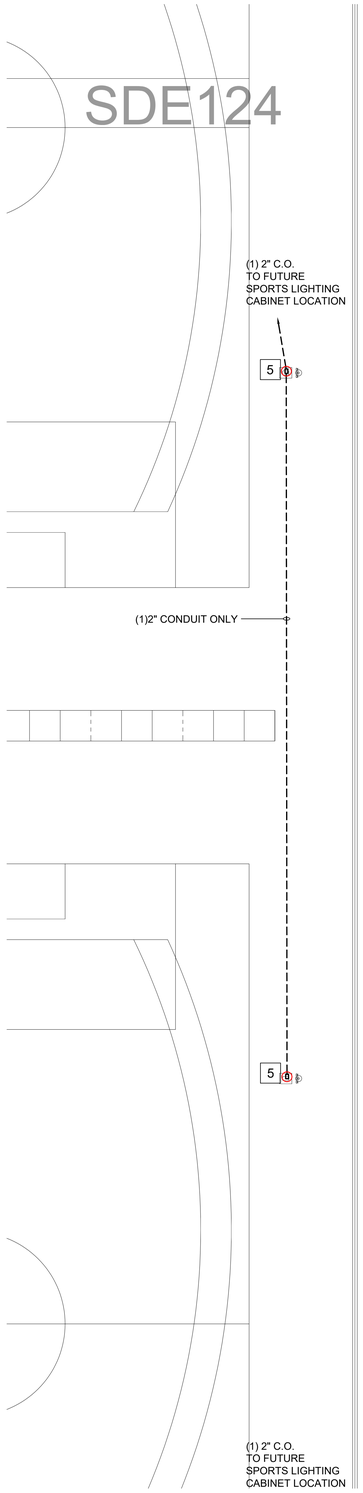
LICENSED ARCHITECT RODNEY K. FENWICK No. C23724 REN. 4-30-25 STATE OF CALIFORNIA
Architect

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PARTIAL SITE LIGHTING PLAN

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SANGER EDUCATION COMPLEX-PHASE 3
Sanger Unified School District
1760 S Fowler Ave, Fresno CA 93727
Project

SITE DEVELOPMENT

PARTIAL SITE LIGHTING PLAN
Drawing

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LICENSED ARCHITECT
ROBERT K. FENSKO
No. C23724
Exp. 4-30-25
STATE OF CALIFORNIA

Architect

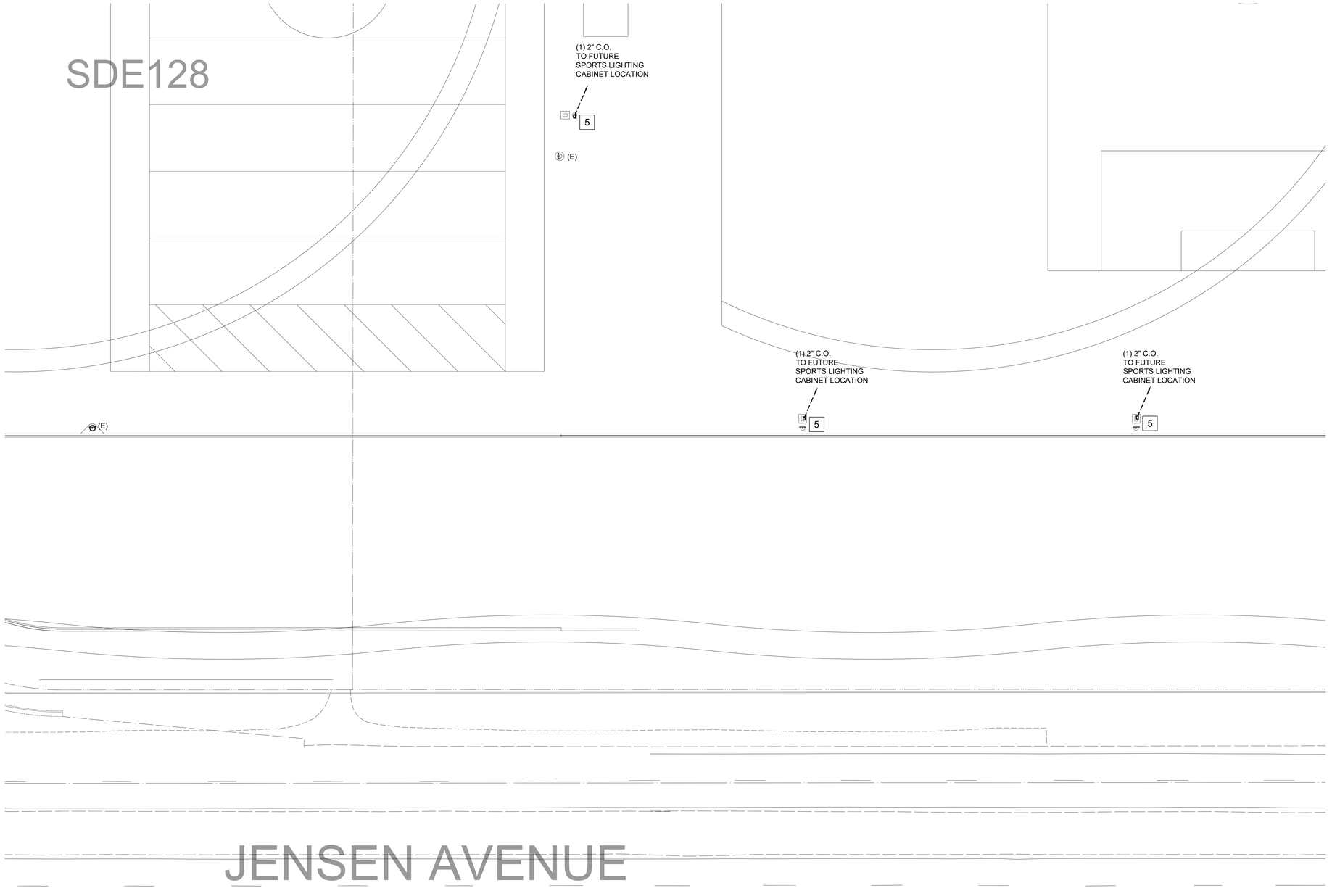
No.	Revision/Submission	Date

Revision

	Designed By:	Copyright 2021 Darden Architects
Scale: As indicated	Drawn By:	
Project Number: 2171	Checked By:	
Date: 10/16/23	Reviewed By:	

SD/E124

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PARTIAL SITE LIGHTING PLAN

SCALE: 1"=20'-0"

NORTH

DSA File No.:
DSA File

DSA Application No.:
DSA App

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120779 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 11/6/2023

Agency Approval

☐ Sheet Reference Notes

1. EXISTING SITE LIGHTING FIXTURE TO REMAIN, PROTECT IN PLACE.
2. ROUTE BRANCH CIRCUIT(S) THROUGH LIGHTING CONTROL PANEL, SEE LIGHTING CONTROL DIAGRAM ON SHEET X/E301.
3. ELECTRICAL / LIGHTING PANELBOARD, SEE SINGLE LINE DIAGRAM SHEETS X/E101, X/E102, X/E103, AND X/E104, AND PANEL SCHEDULE SHEETS.
4. LIGHTING CONTROL PANEL, SEE LIGHTING CONTROL DIAGRAM ON SHEET X/E301.
5. 11" X 17" PULLBOX AT FUTURE SPORTS LIGHTING FIXTURE LOCATION.
6. FUTURE SPORTS LIGHTING CABINET LOCATION.
7. EXISTING SITE LIGHTING CONDUITS TO REMAIN, CONTRACTOR TO CONFIRM EXACT LOCATION AND PROTECT IN PLACE.

ASB BY WILD ELECTRIC

NOTES:
CONTRACTOR SHALL NOT ROUTE CONDUITS THROUGH ANY AREAS PLANNED FOR BUILDINGS / OR FLATWORK INDICATED AS BID ALTERNATES, REFER TO ARCHITECTURAL PLANS FOR EXACT LIMITS OF WORK BOUNDARIES ASSOCIATED WITH EACH BID ALTERNATE. PROVIDE ROUTING OF CONDUITS AS REQUIRED TO CLEAR AREAS DESIGNATED AND ASSOCIATED WITH EACH BID ALTERNATE AND FUTURE BUILDING FOOTPRINTS.
CONTRACTOR TO PROVIDE SHOP DRAWING OF ALL PROPOSED CONDUIT ROUTING ON SITE, FOR ARCHITECT AND ENGINEER REVIEW PRIOR TO INSTALLATION OF ANY WORK.

PROVIDE CONCRETE MOW STRIP AROUND ALL SITE UTILITY ITEMS, SEE DETAIL L6-SD/A309 FOR THE ARCHITECTURAL MOW STRIP DETAIL.

SEE SHEET X/E105 FOR LIGHTING FIXTURE SCHEDULE.

REFER TO SHEET X/E201 FOR CONDUIT IN TRENCH DETAIL AND TYPICAL SITE DETAILS.

REFER TO SHEET X/E202 FOR POLE MOUNTED FIXTURE CONCRETE BASE DETAILS.

THE EXACT QUANTITY, LOCATION AND DEPTHS OF EXISTING UNDERGROUND PIPING AND CONDUITS IS UNKNOWN. VERIFY AND MAINTAIN EXISTING UTILITIES IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION AND EXCAVATION OPERATIONS.

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General Notes

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San Luis Obispo, CA 93406
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Fax: (805) 543-3829
cad@thomaelec.com

REGISTERED PROFESSIONAL ENGINEER
WILLIAM A. THOMA
ELECTRICAL
STATE OF CALIFORNIA

EXPIRES: 06/30/25

Consultant THOMA #22-8060

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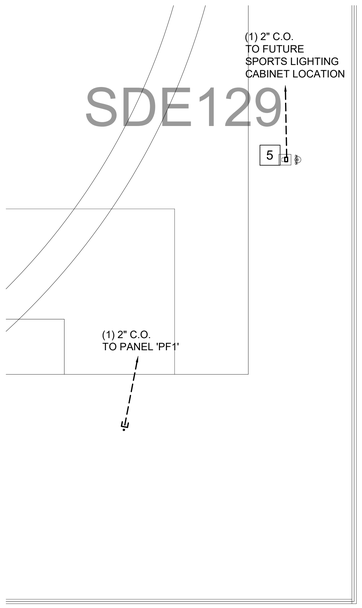
Architect

No.	Revision/Submission	Date

Revision

	Designed By:	Copyright 2021 Darden Architects
Scale: As indicated	Drawn By:	SD/E128
Project Number: 2171	Checked By:	
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PARTIAL SITE LIGHTING PLAN

SCALE: 1"=20'-0"

NORTH

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APP: 02-120779 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 11/6/2023

Agency Approval

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ASB BY WILD ELECTRIC

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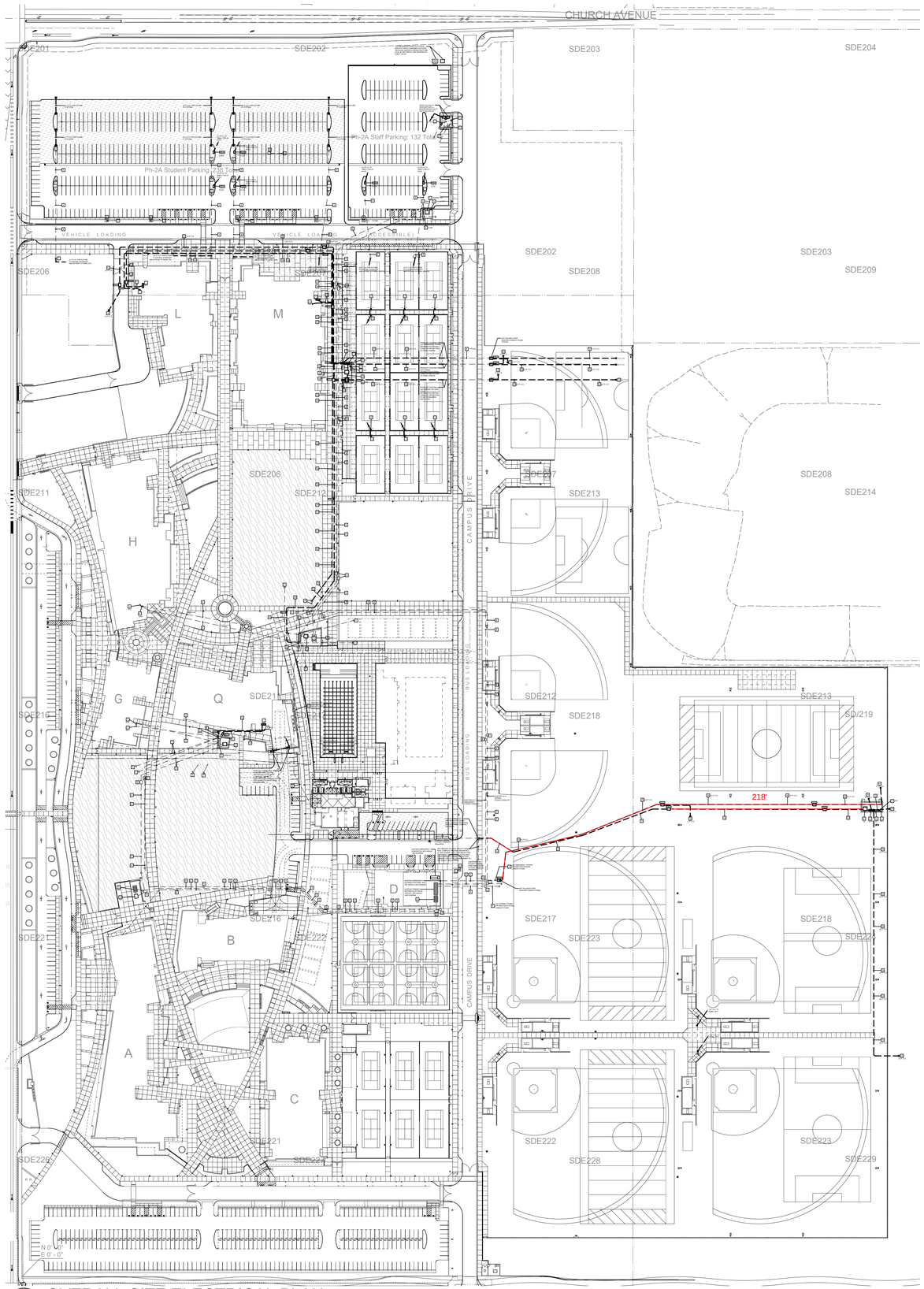
LICENSED ARCHITECT
RICHARD K. DARDEN
No. C23724
REN. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By:	Copyright 2021 Darden Architects
Scale: As indicated	Drawn By:	*SD/E129*
Project Number: 2171	Checked By:	
Date: 10/16/23	Reviewed By:	



OVERALL SITE ELECTRICAL PLAN

SCALE: 1"=100'-0"

NORTH

DSA File No.:
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APP: 02-120779 INC:
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☐ Sheet Reference Notes

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STATE OF CALIFORNIA
EXPIRES: 06/30/25

Consultant THOMA #22-8060

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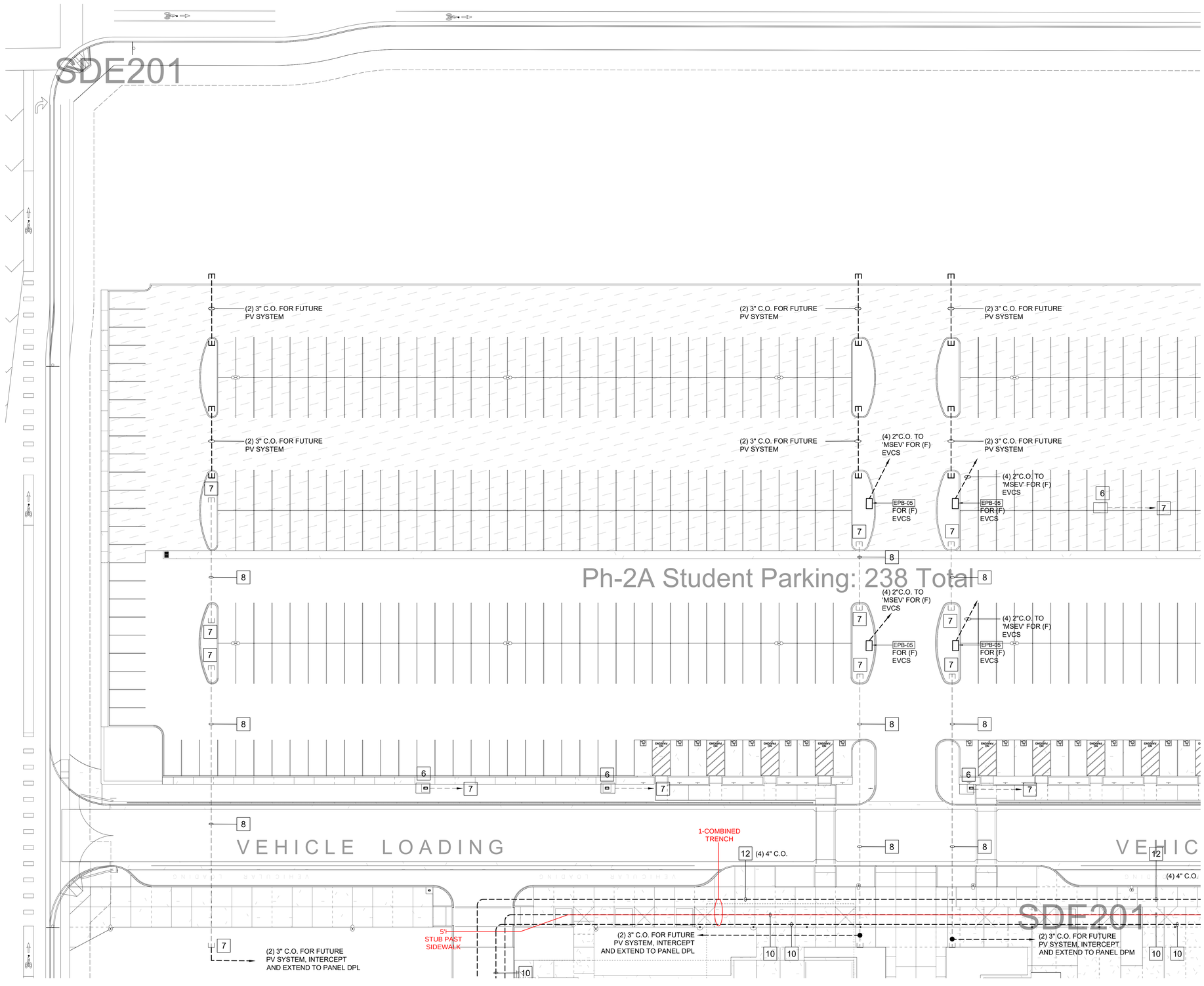
Architect

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Scale: As indicated	Drawn By:	SD/E200
Project Number: 2171	Checked By:	
Date: 10/16/23	Reviewed By:	

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PARTIAL SITE ELECTRICAL PLAN

SCALE: 1"=20'-0"

NORTH

DSA File No.: *DSA File*

DSA Application No.: *DSA App*

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APP: 02-120779 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
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Agency Approval

☐ Sheet Reference Notes

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2. PAD MOUNTED TRANSFORMER, SEE SINGLE LINE DIAGRAM SHEETS X/E101, X/E102, X/E103, AND X/E104.
3. UNDERGROUND FEEDER, SEE SINGLE LINE DIAGRAM.
4. PAD MOUNTED MEDIUM VOLTAGE SECTIONALIZING SWITCH, SEE SINGLE LINE DIAGRAM SHEETS X/E101, X/E102 AND REFER TO SPECIFICATIONS.
5. EXISTING ELECTRIC EQUIPMENT TO REMAIN, PROTECT IN PLACE.
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8. EXISTING POWER DISTRIBUTION SYSTEM CONDUITS TO REMAIN, CONTRACTOR TO CONFIRM EXACT LOCATION AND PROTECT IN PLACE.
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10. UNDERGROUND POWER DISTRIBUTION SYSTEM FEEDER / CONDUIT ONLY STUB, SEE SINGLE LINE DIAGRAM.
11. CAST OUTLET BOX WITH GFI RECEPTACLE AND WHILE IN USE CAST TYPE COVER, SEE DETAIL 6-X/E206 FOR MOUNTING.
12. UNDERGROUND MEDIUM VOLTAGE FEEDER / SPARE CONDUITS, SEE SINGLE LINE DIAGRAM.
13. FUTURE SPORTS LIGHTING CABINET LOCATION.

ASB BY WILD ELECTRIC

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REGISTERED PROFESSIONAL ENGINEER WILLIAM A. THOMA ELECTRICAL STATE OF CALIFORNIA
EXPIRES: 06/30/25

Consultant THOMA #22-8060

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LICENSED ARCHITECT RICHARD K. DARDEN No. C23724 REN. 4-30-25 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

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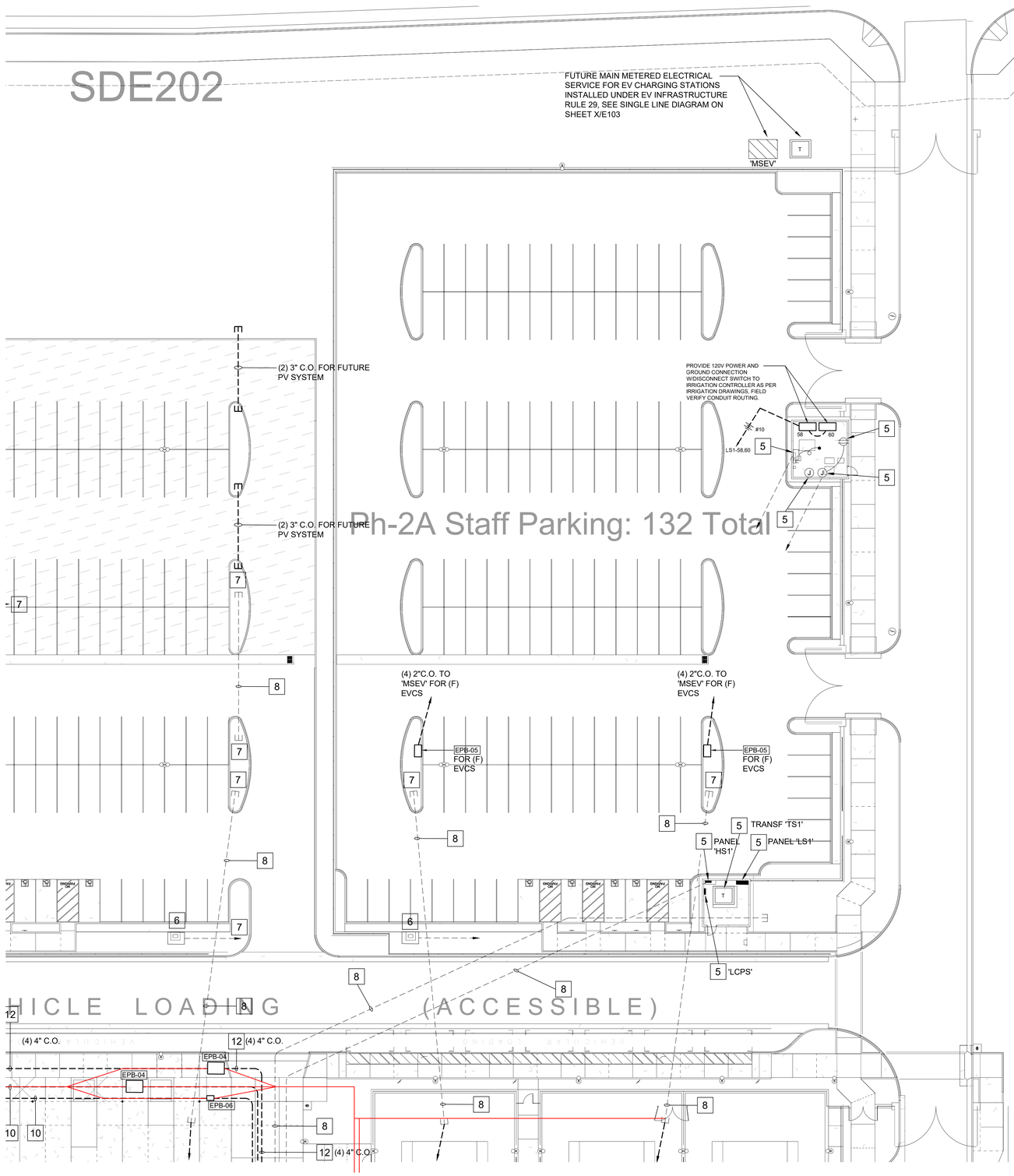
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Project Number: 2171
Checked By:

Date: 10/16/23
Reviewed By:

SD/E201



PARTIAL SITE ELECTRICAL PLAN

SCALE: 1"=20'-0"

NORTH

DSA File No.: *DSA File*

DSA Application No.: *DSA App*

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DIV. OF THE STATE ARCHITECT
APP: 02-120779 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 11/6/2023

Agency Approval

☐ Sheet Reference Notes

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2. PAD MOUNTED TRANSFORMER, SEE SINGLE LINE DIAGRAM SHEETS X/E101, X/E102, X/E103, AND X/E104.
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ASB BY WILD ELECTRIC

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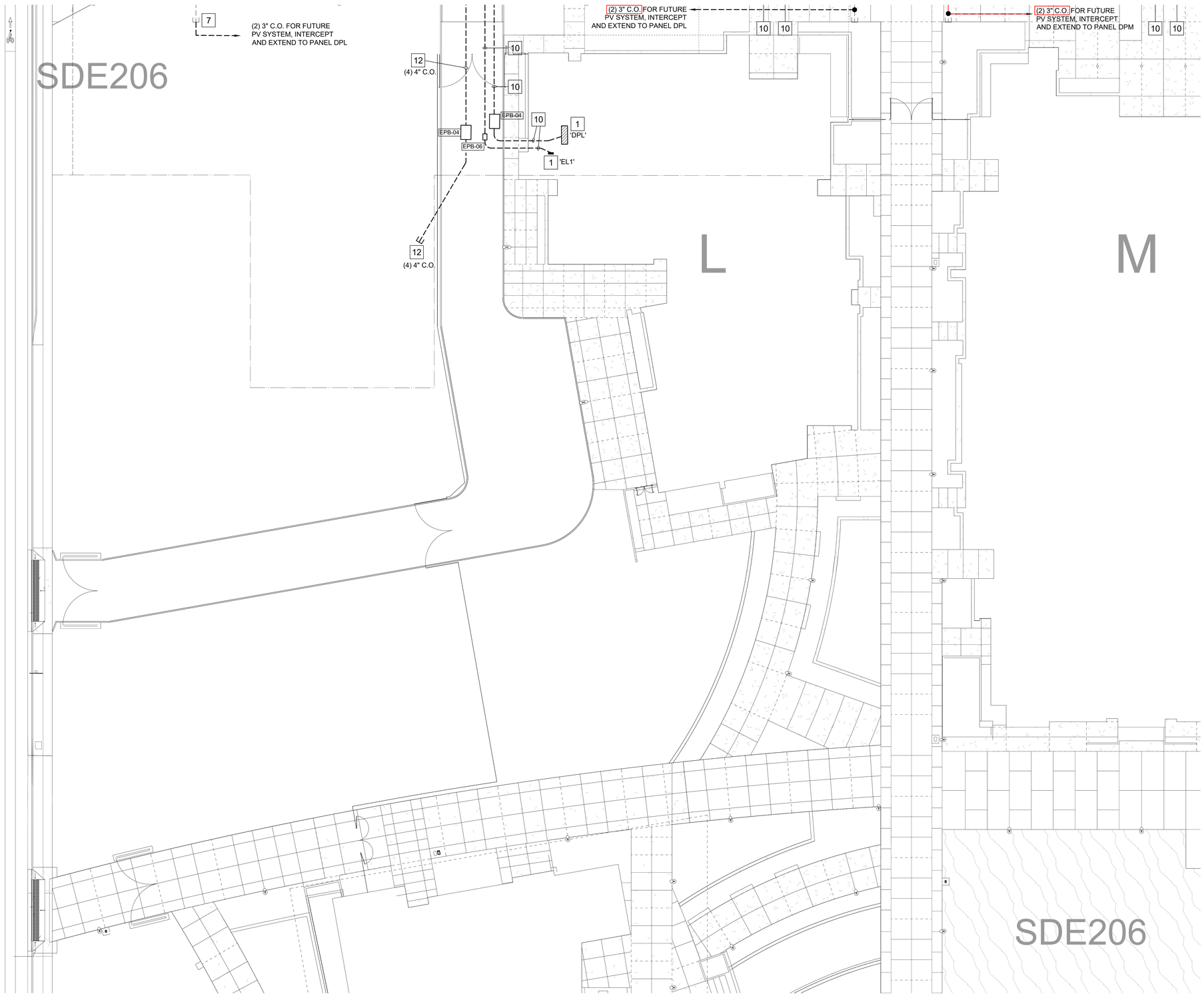
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LICENSED ARCHITECT MICHAEL K. DARDEN No. C23724 EXP. 4-30-25 STATE OF CALIFORNIA
Architect

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EXPIRES: 06/30/25

Consultant THOMA #22-8060

SANGER EDUCATION COMPLEX-PHASE 3
Sanger Unified School District
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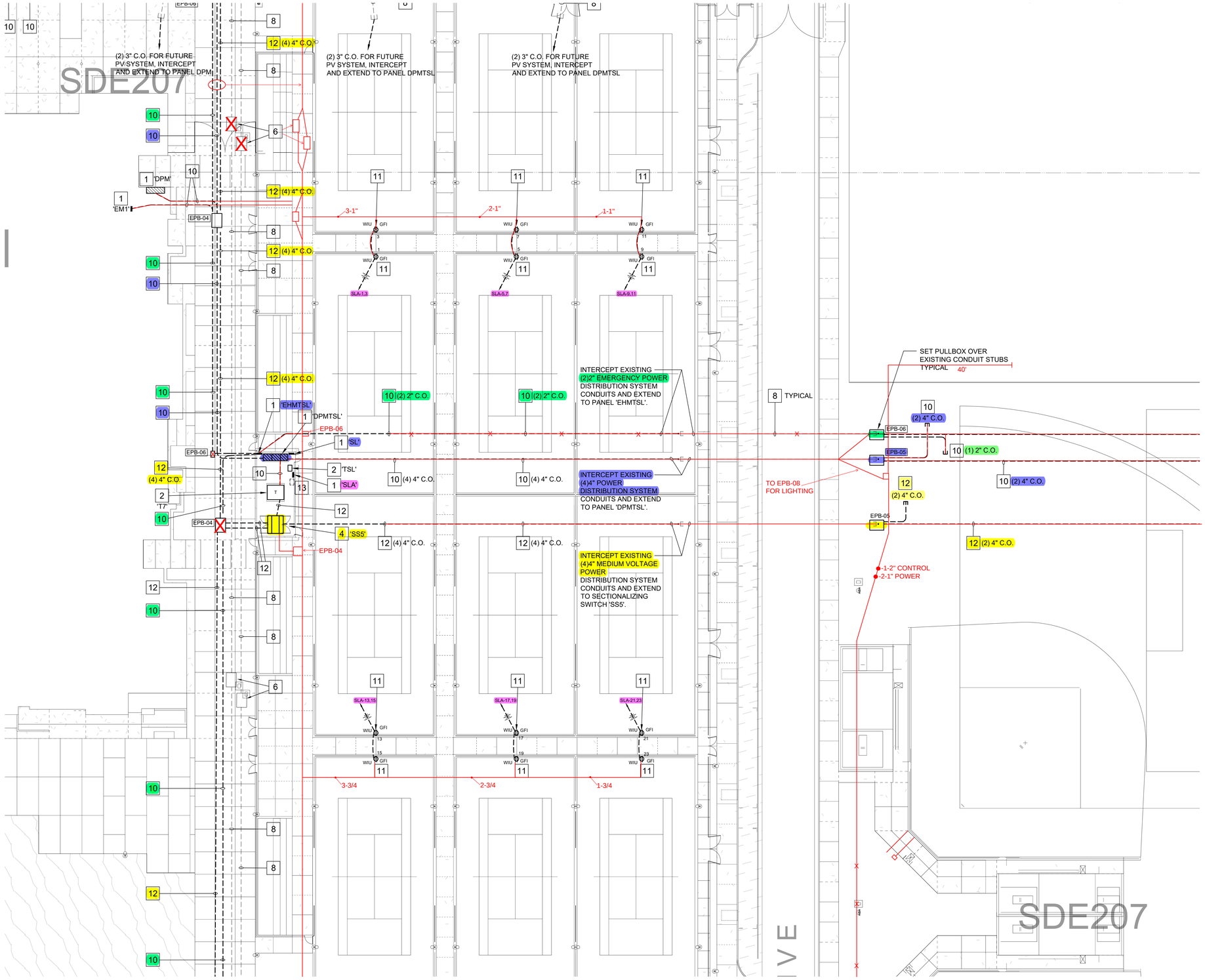
LICENSED ARCHITECT LAUREL K. FERRARO No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By:	Copyright 2021 Darden Architects
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Project Number: 2171	Checked By:	
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PARTIAL SITE ELECTRICAL PLAN

SCALE: 1"=20'-0"

NORTH

DSA File No.: *DSA File*

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APP: 02-120779 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 11/6/2023

Agency Approval

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LICENSED ARCHITECT RICHARD K. DARDEN No. C23724 REN. 4-30-25 STATE OF CALIFORNIA
Architect

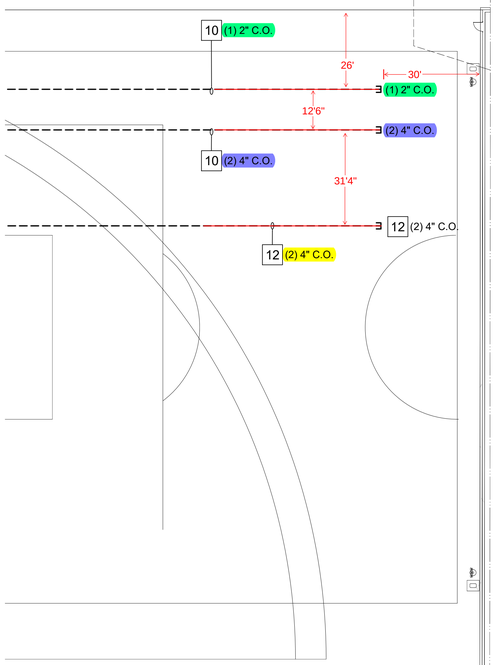
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Scale: As indicated	Drawn By:	*SD/E207*
Project Number: 2171	Checked By:	
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SDE208



SDE208

PARTIAL SITE ELECTRICAL PLAN

SCALE: 1"=20'-0"

NORTH

DSA File No.:
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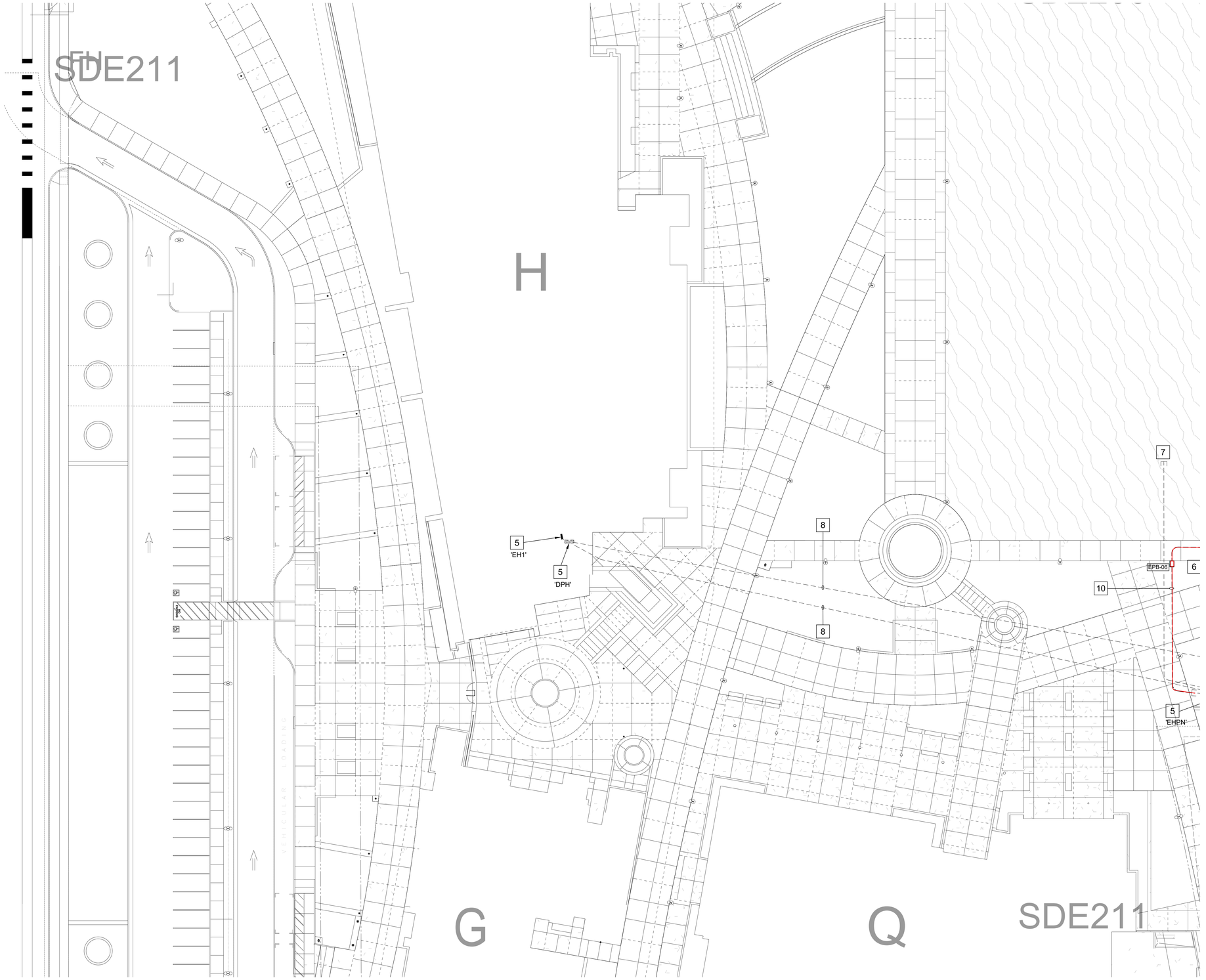
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Architect

No.	Revision/Submission	Date

Revision

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PARTIAL SITE ELECTRICAL PLAN

SCALE: 1"=20'-0"

NORTH

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EXPIRES: 06/30/25

Consultant THOMA #22-8060

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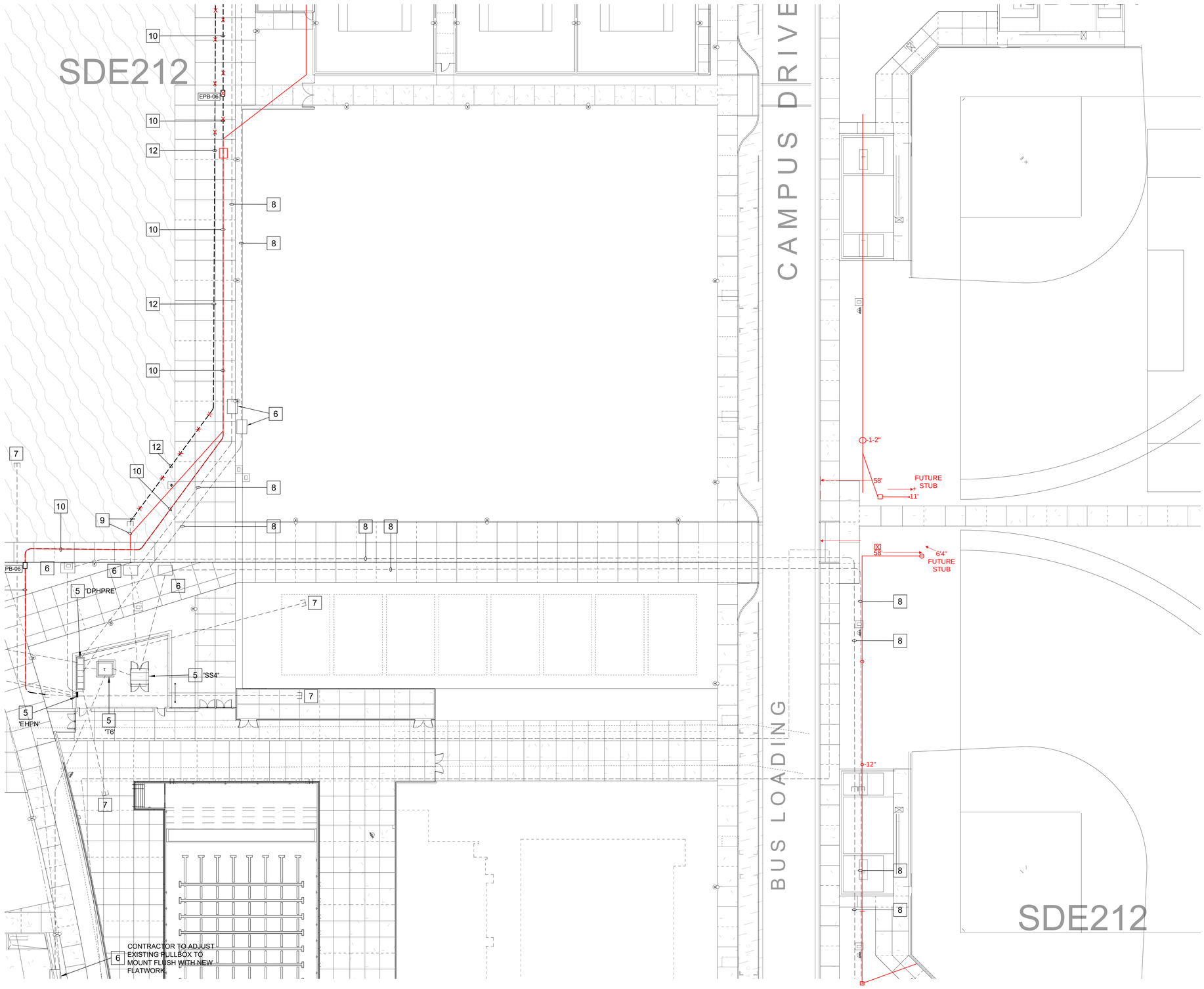
LICENSED ARCHITECT MARGARET K. FERRARO No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By:	Copyright 2021 Darden Architects
Scale: As indicated	Drawn By:	*SD/E211*
Project Number: 2171	Checked By:	
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PARTIAL SITE ELECTRICAL PLAN

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Architect

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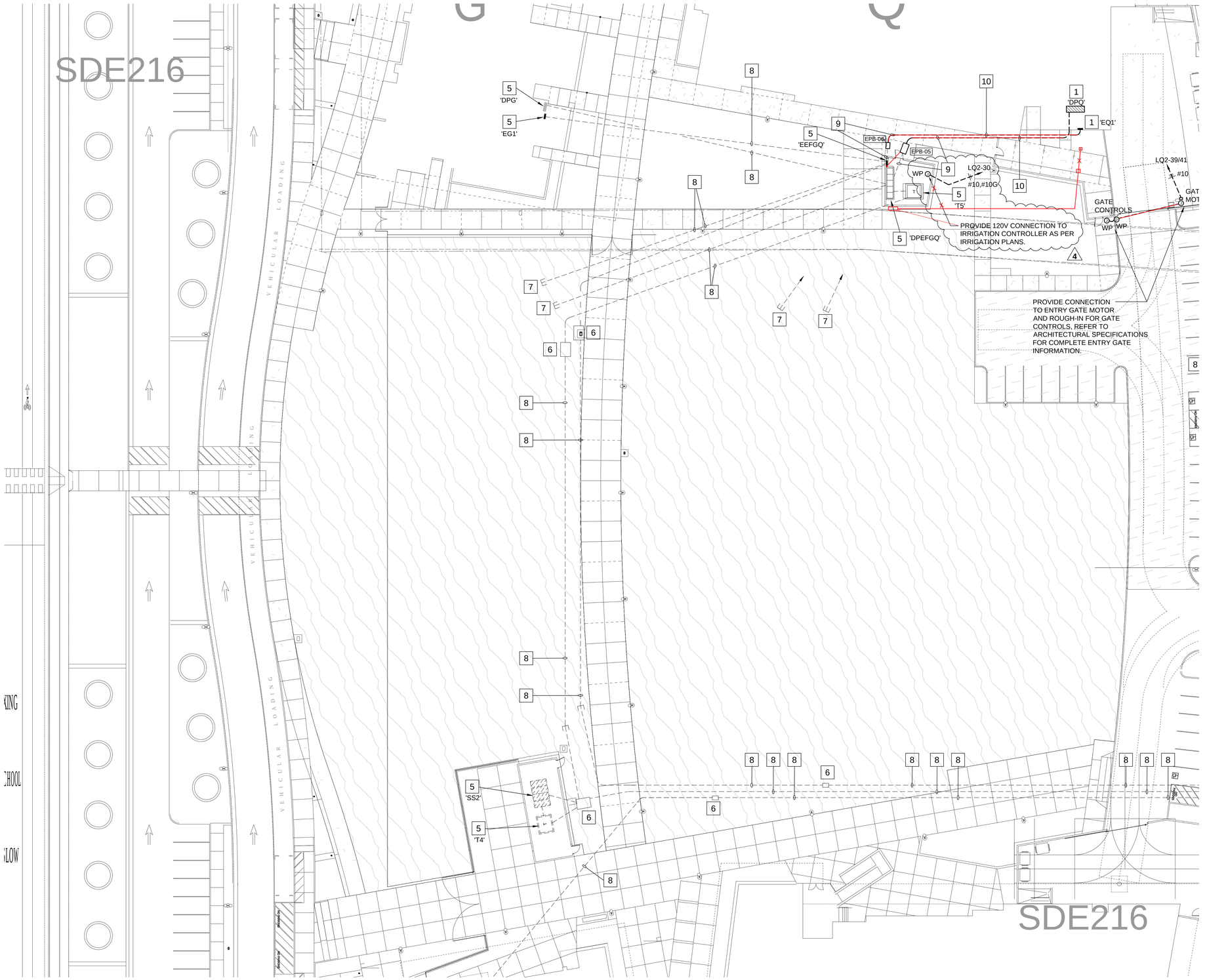
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Scale: As indicated
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PARTIAL SITE ELECTRICAL PLAN

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Consultant THOMA #22-8060

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Sanger Unified School District
1760 S Fowler Ave, Fresno CA 93727
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LICENSED ARCHITECT LAUREL K. FERRARO No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA

Architect

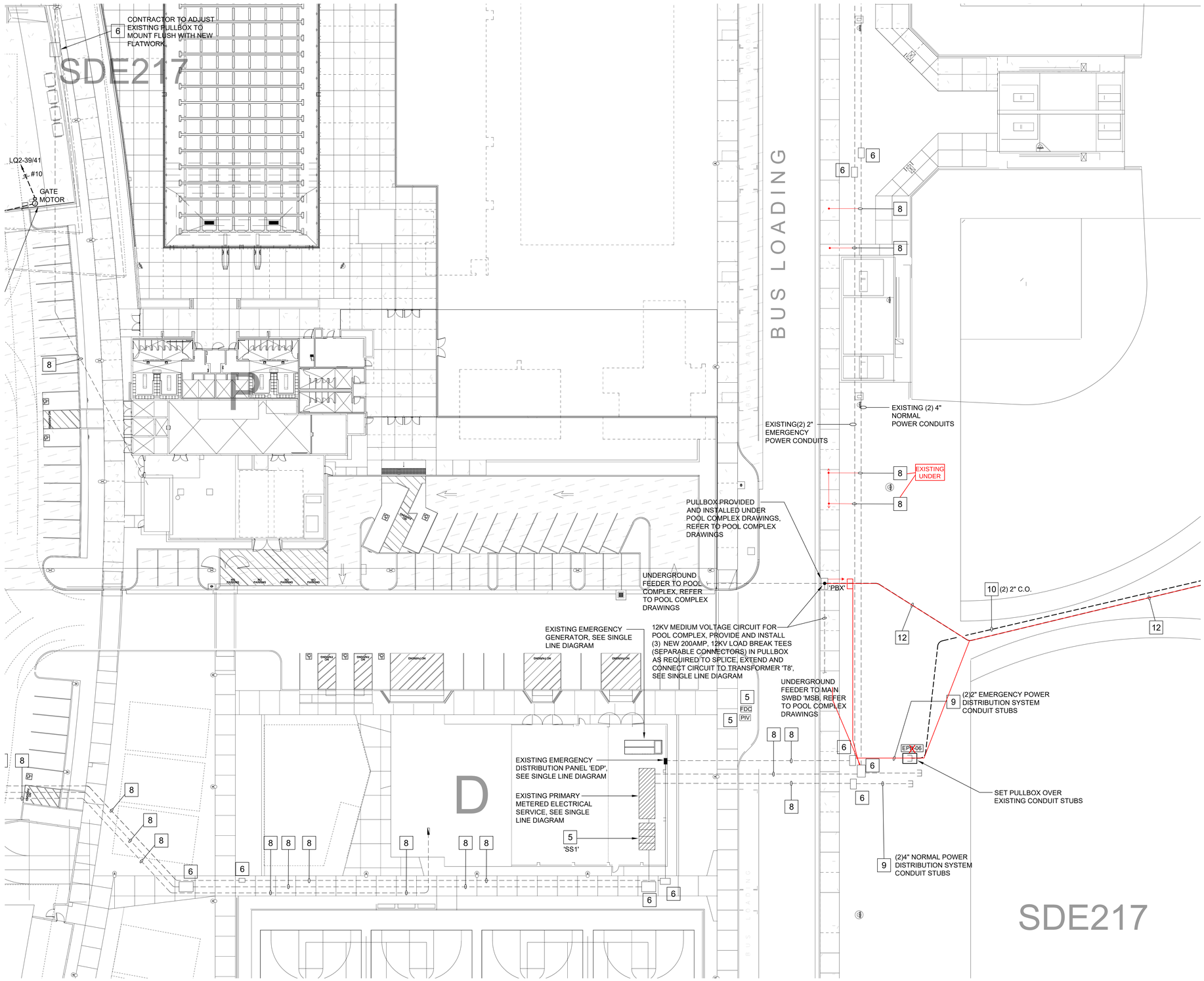
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4	**ADDENDUM #4**	**12/12/23**

Revision

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Scale: As indicated	Drawn By:	
Project Number: 2171	Checked By:	
Date: 10/16/23	Reviewed By:	

SD/E216
AD4

K:\ENG\2022\22-8060\22-8060_SDE200-SDE229_PARTIAL SITE ELEC PLN.dwg - Roger - Dec 07, 2023 - 1:45pm



PARTIAL SITE ELECTRICAL PLAN

SCALE: 1"=20'-0"

NORTH

DSA File No.: *DSA File*

DSA Application No.: *DSA App*

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APP: 02-120779 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 11/6/2023

Agency Approval

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ASB BY WILD ELECTRIC

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Architect

No.	Revision/Submission	Date

Revision

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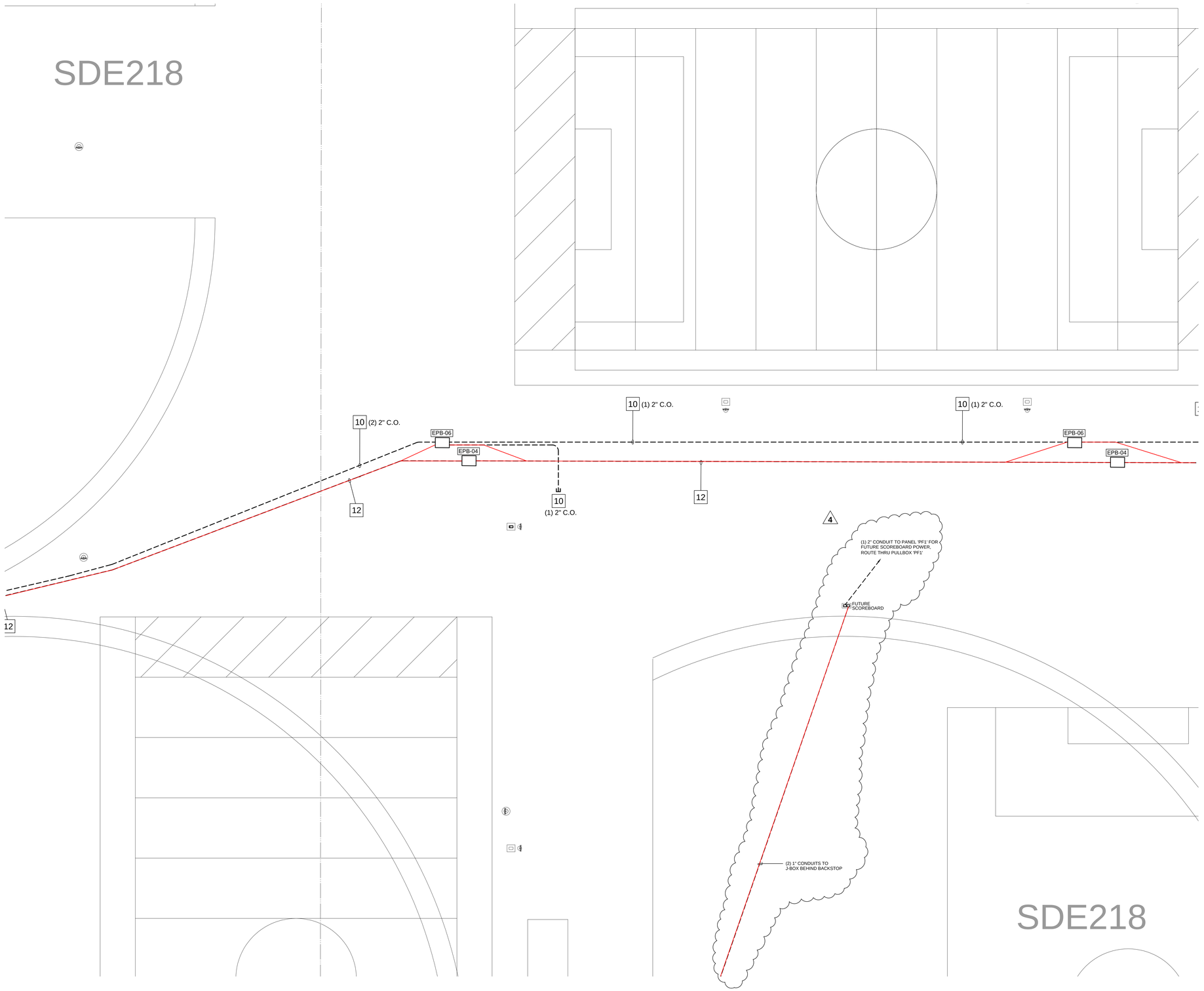
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Project Number: 2171
Date: 10/16/23

SD/E217

K:\ENG\2022\22-8060\22-8060_SDE200-SDE229_PARTIAL SITE ELEC PLN.dwg - avillanueva - Oct 16, 2023 - 3:48pm

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 02-120779 INC.:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/17/2024

SDE218



SDE218

PARTIAL SITE ELECTRICAL PLAN

SCALE: 1"=20'-0"

NORTH

DSA File No.:
DSA File

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EXPIRES: 06/30/25

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LICENSED ARCHITECT
GEORGE K. FENCL
No. C23724
REN. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date
4	**ADDENDUM #4**	**12/12/23**

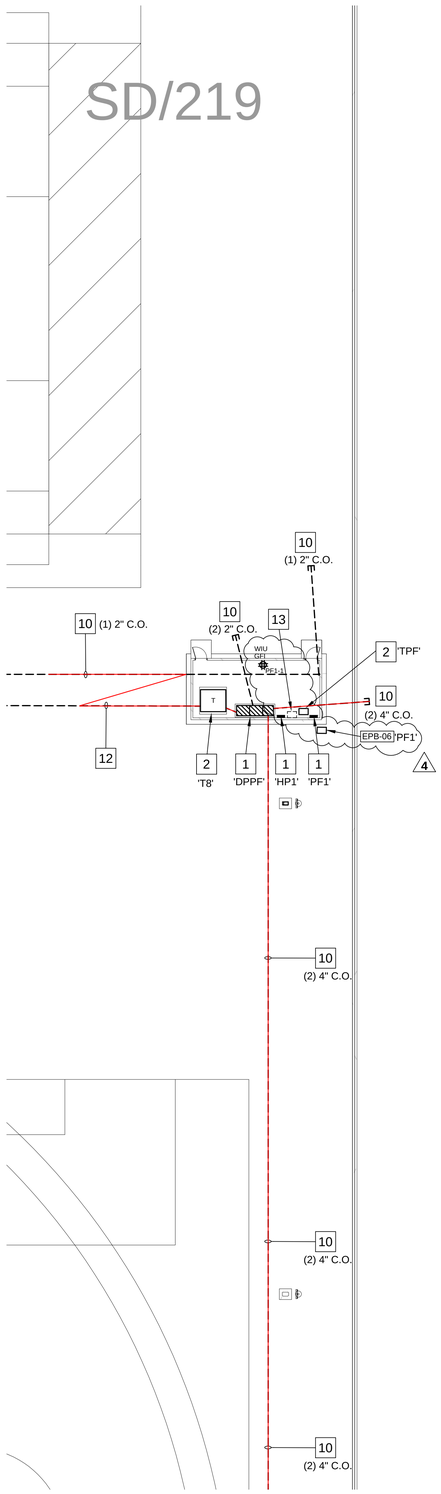
Revision

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Project Number: 2171	Checked By:	
Date: 10/16/23	Reviewed By:	

SD/E218
AD4

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ANY OF THE STATE ARCHITECT
APP: 02-120779 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/17/2024



PARTIAL SITE ELECTRICAL PLAN

SCALE: 1"=20'-0"

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DSA File No.:
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LICENSED ARCHITECT ANDREW K. FONG No. C23724 REN. 4-30-25 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date
4	**ADDENDUM #4**	**12/12/23**

Revision

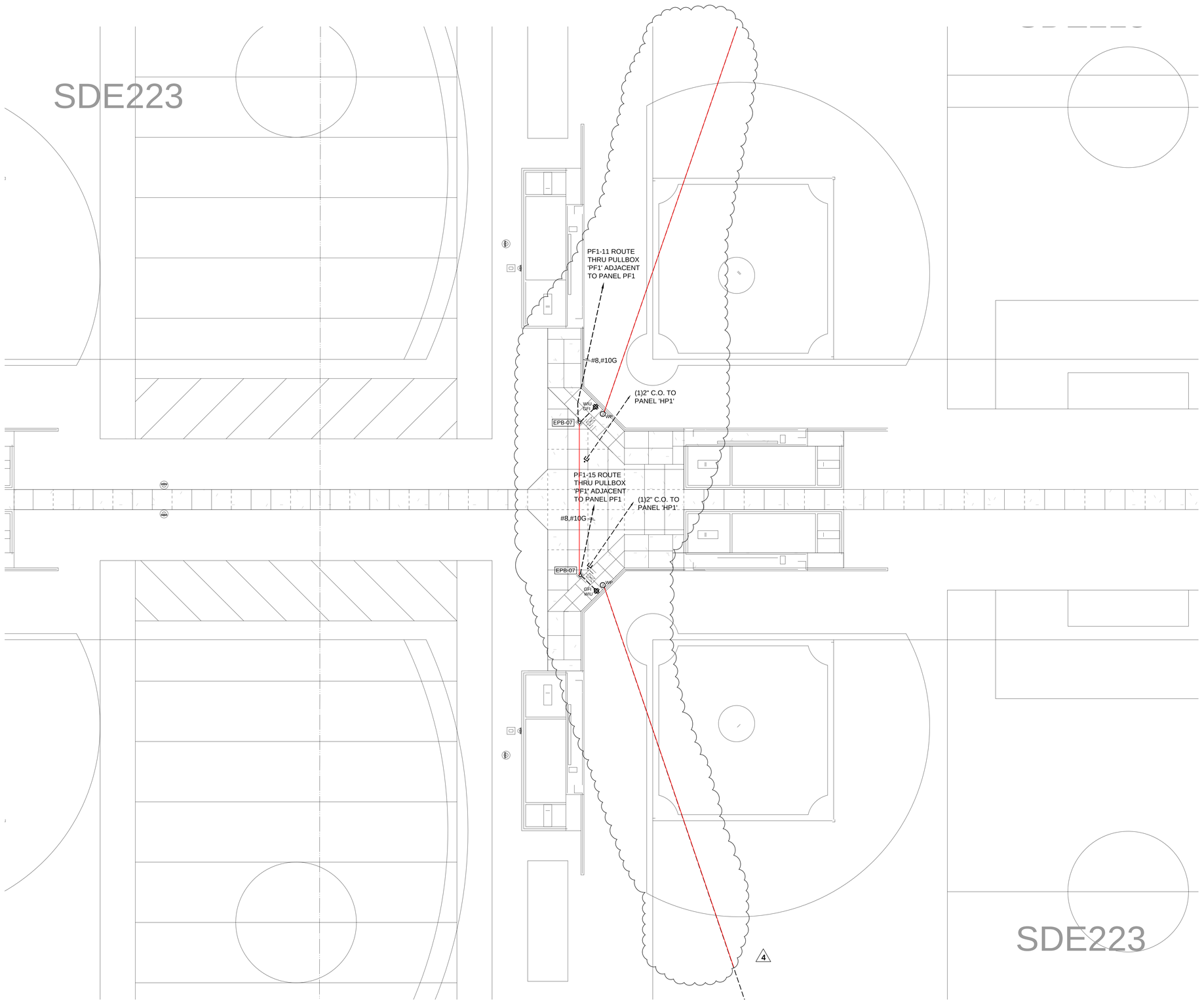
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DATE: 01/17/2024



PARTIAL SITE ELECTRICAL PLAN

SCALE: 1"=20'-0"

NORTH

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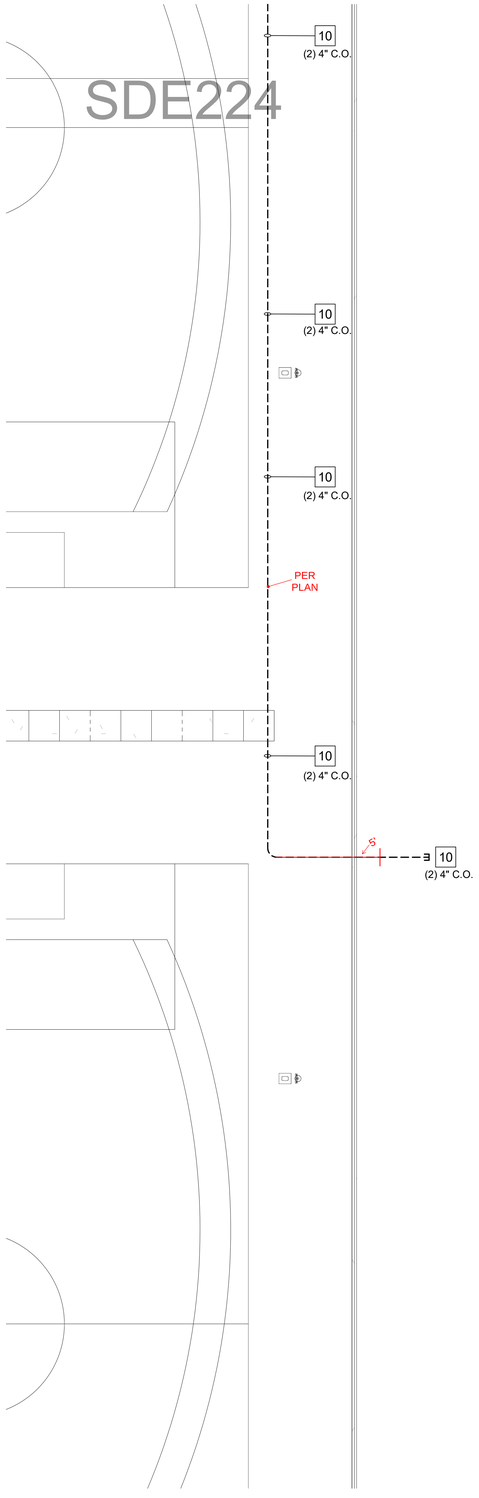
LICENSED ARCHITECT
AUDREE K. FENKELL
No. C23724
EXP. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date
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Revision

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Project Number: 2171	Checked By:	AD4
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SCALE: 1"=20'-0"

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10. UNDERGROUND POWER DISTRIBUTION SYSTEM FEEDER / CONDUIT ONLY STUB, SEE SINGLE LINE DIAGRAM.
11. CAST OUTLET BOX WITH GFI RECEPTACLE AND WHILE IN USE CAST TYPE COVER, SEE DETAIL 6-X/E206 FOR MOUNTING.
12. UNDERGROUND MEDIUM VOLTAGE FEEDER / SPARE CONDUITS, SEE SINGLE LINE DIAGRAM.
13. FUTURE SPORTS LIGHTING CABINET LOCATION.

ASB BY WILD ELECTRIC

NOTES:
CONTRACTOR SHALL NOT ROUTE CONDUITS THROUGH ANY AREAS PLANNED FOR BUILDINGS / OR FLATWORK INDICATED AS BID ALTERNATES. REFER TO ARCHITECTURAL PLANS FOR EXACT LIMITS OF WORK BOUNDARIES ASSOCIATED WITH EACH BID ALTERNATE. PROVIDE ROUTING OF CONDUITS AS REQUIRED TO CLEAR AREAS DESIGNATED AND ASSOCIATED WITH EACH BID ALTERNATE AND FUTURE BUILDING FOOTPRINTS.
CONTRACTOR TO PROVIDE SHOP DRAWING OF ALL PROPOSED CONDUIT ROUTING ON SITE, FOR ARCHITECT AND ENGINEER REVIEW PRIOR TO INSTALLATION OF ANY WORK.

PROVIDE CONCRETE MOW STRIP AROUND ALL SITE UTILITY ITEMS, SEE DETAIL L6-SD/A309 FOR THE ARCHITECTURAL MOW STRIP DETAIL.

THE EXACT QUANTITY, LOCATION AND DEPTHS OF EXISTING UNDERGROUND PIPING AND CONDUITS IS UNKNOWN. VERIFY AND MAINTAIN EXISTING UTILITIES IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION AND EXCAVATION OPERATIONS.

REPAIR AND RECONNECT ALL EXISTING UNDERGROUND PIPING UNCOVERED AND DAMAGED BY NEW WORK AS REQUIRED TO MAINTAIN PROPER SYSTEM FUNCTIONS. RE-TEST ALL SYSTEMS DAMAGED BY NEW WORK.

LOCATIONS OF EXISTING UNDERGROUND (UG) UTILITY SYSTEMS SHALL BE DETERMINED BY CALLING UNDERGROUND SERVICE ALERT (USA). WHEN PLANNING UNDERGROUND WORK, AND BEFORE YOU DIG, CONTACT UNDERGROUND SERVICE ALERT (USA) AT LEAST 48 HOURS PRIOR TO EXCAVATION (WEEKENDS EXCLUDED) FOR THE LOCATION OF UNDERGROUND GAS AND ELECTRIC LINES OR EQUIPMENT.

SAWCUT AND PATCH ALL SURFACES TO MATCH EXISTING SURFACES (CONCRETE, AC PAVING, ETC.) COMPLETE FIELD VERIFICATION OF THIS WORK IS REQUIRED.

General Notes

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EXPIRES: 06/30/25

Consultant THOMA #22-8060

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Sanger Unified School District
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LICENSED ARCHITECT MICHAEL K. DARDEN No. C23724 REN. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

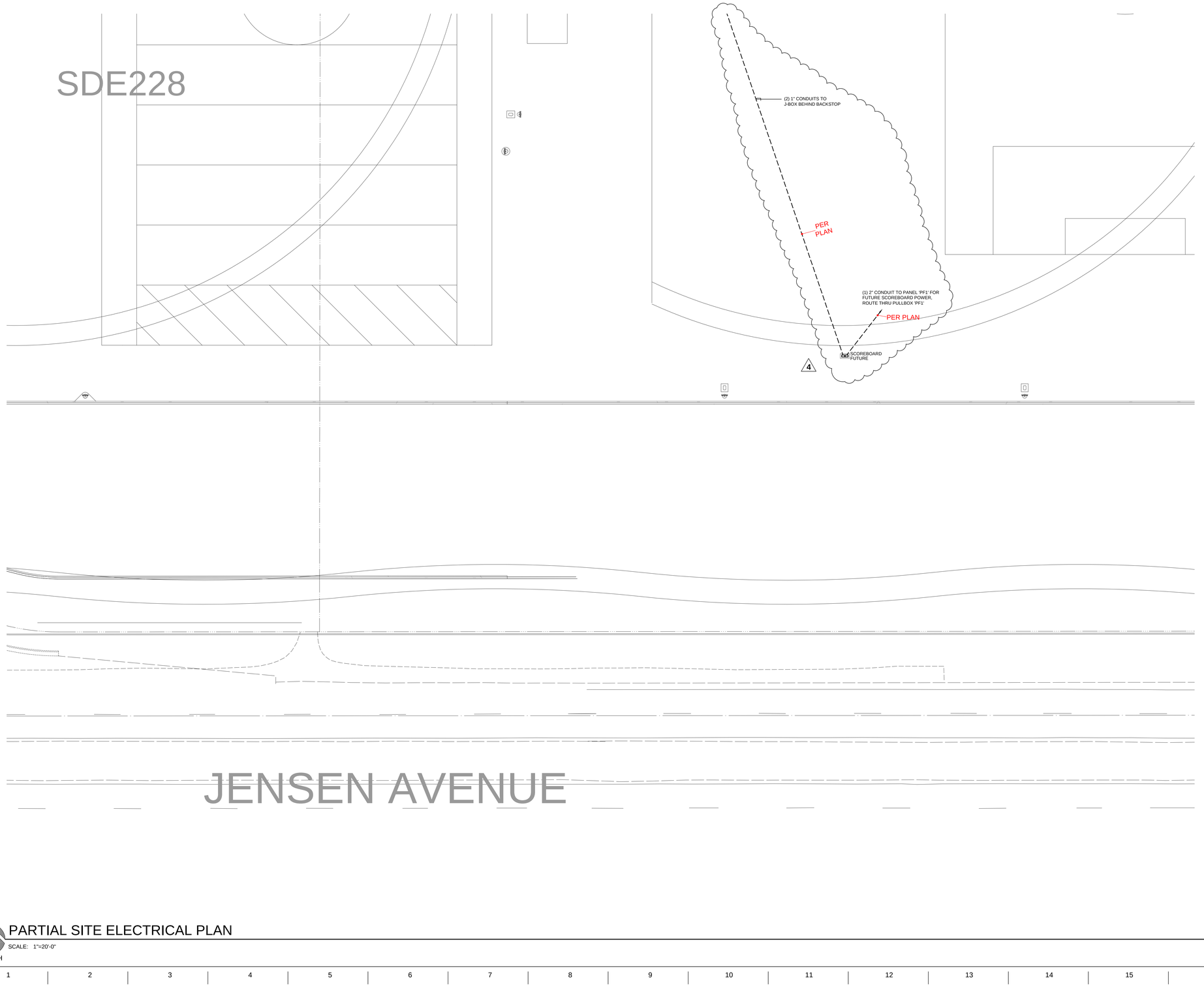
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Date: 10/16/23

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DATE: 01/17/2024



PARTIAL SITE ELECTRICAL PLAN

SCALE: 1"=20'-0"

NORTH

DSA File No.:
DSA File

DSA Application No.:
DSA App

Agency Approval

Sheet Reference Notes

1. ELECTRICAL / DISTRIBUTION PANEL, SEE SINGLE LINE DIAGRAM SHEETS X/E102, X/E103, AND X/E104.
2. PAD MOUNTED TRANSFORMER, SEE SINGLE LINE DIAGRAM SHEETS X/E101, X/E102, X/E103, AND X/E104.
3. UNDERGROUND FEEDER, SEE SINGLE LINE DIAGRAM.
4. PAD MOUNTED MEDIUM VOLTAGE SECTIONALIZING SWITCH, SEE SINGLE LINE DIAGRAM SHEETS X/E101, X/E102 AND REFER TO SPECIFICATIONS.
5. EXISTING ELECTRIC EQUIPMENT TO REMAIN, PROTECT IN PLACE.
6. EXISTING ELECTRICAL PULLBOX TO REMAIN, PROTECT IN PLACE.
7. EXISTING CONDUIT STUB TO REMAIN, CONFIRM LOCATION AND PROTECT IN PLACE.
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ASB BY WILD ELECTRIC

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LICENSED ARCHITECT MICHAEL K. FERNANDO No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date
4	**ADDENDUM #4**	**12/12/23**

Revision

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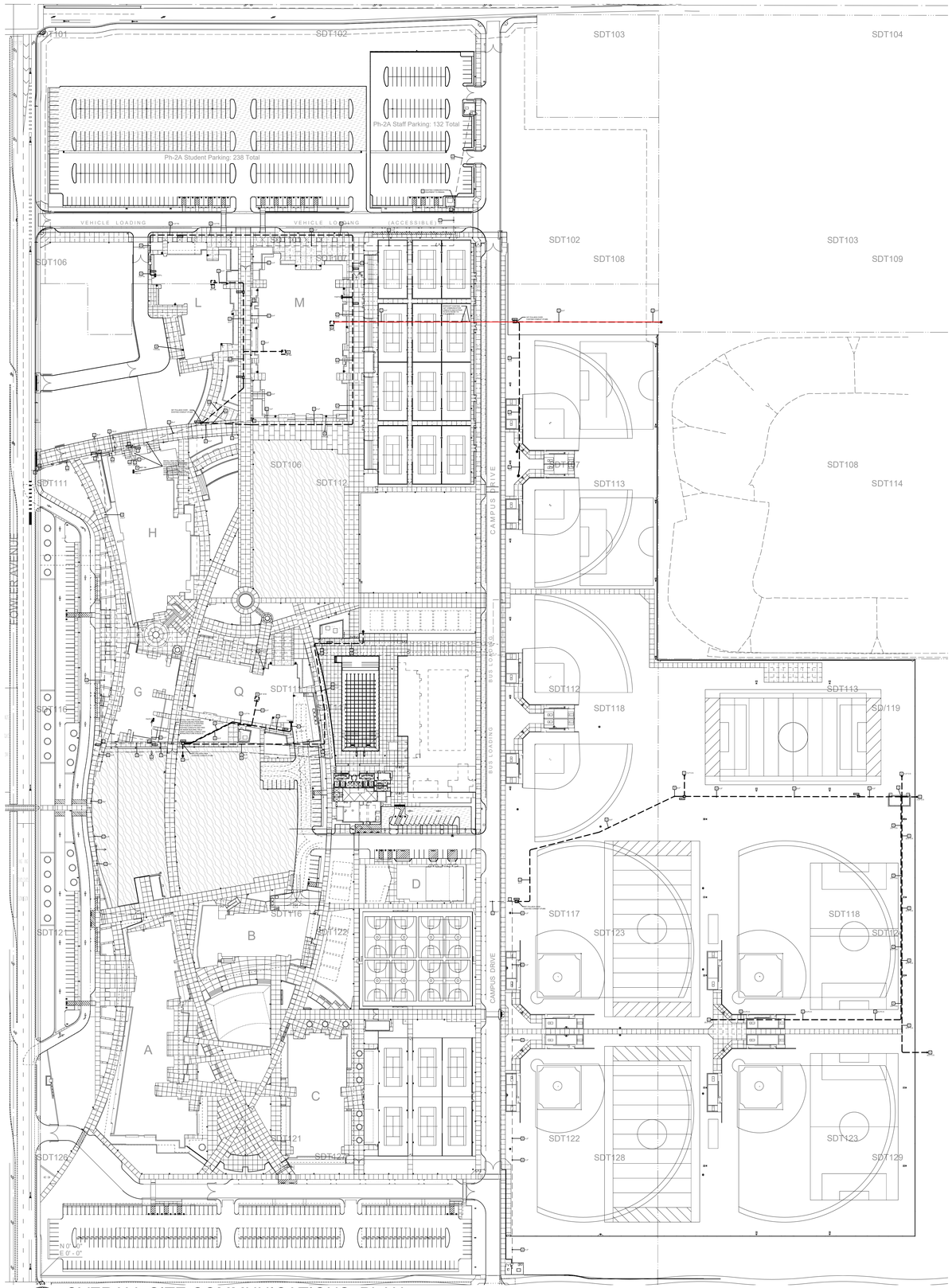
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OVERALL SITE COMMUNICATIONS PLAN

SCALE: 1"=20'-0"

DSA File No.:
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DATE: 11/6/2023

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Consultant THOMA #22-8060

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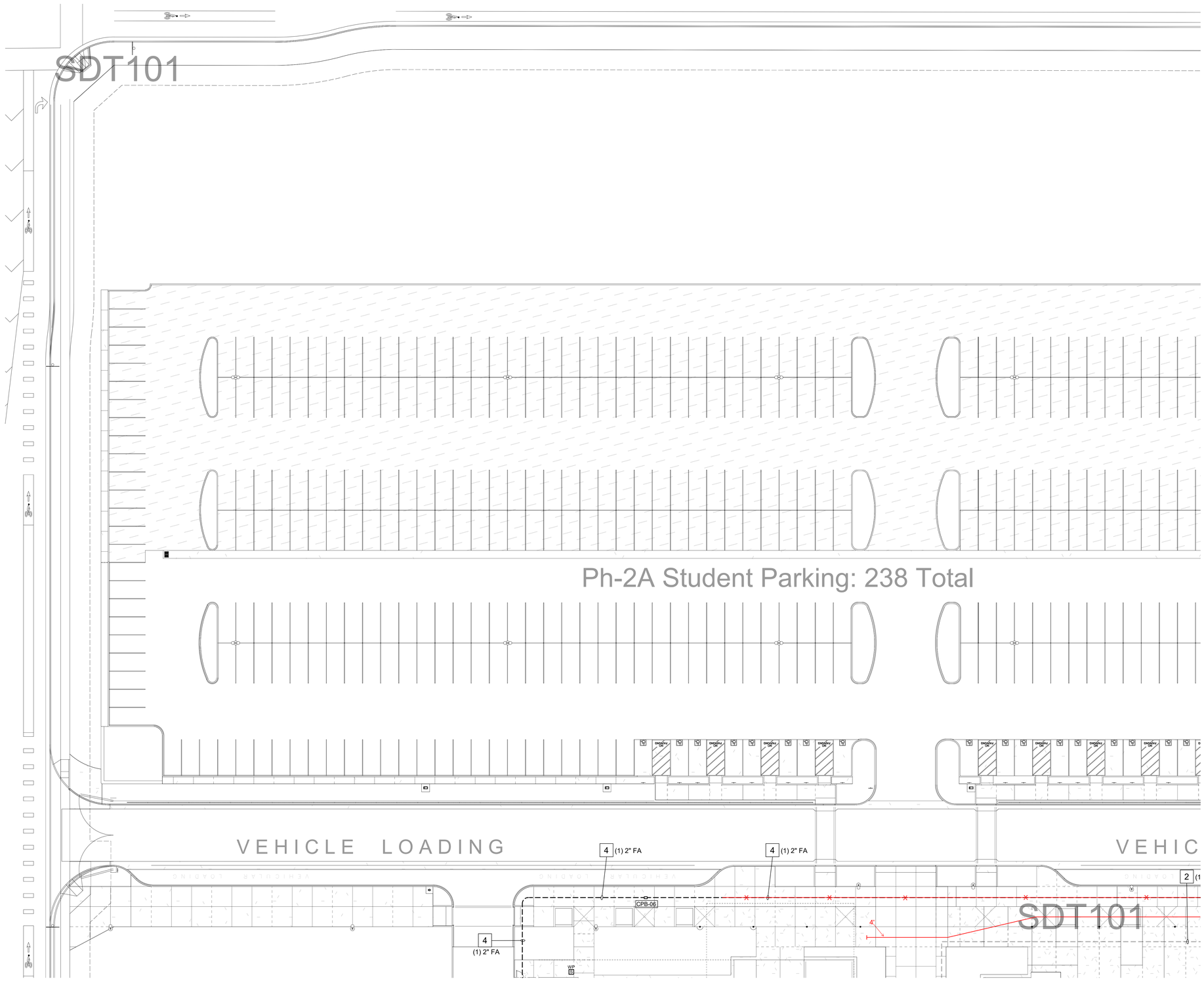
LICENSED ARCHITECT
RICHARD K. FEDRICO
No. C23724
EXP. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

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Project Number: 2171	Checked By:	
Date: 10/16/23	Reviewed By:	



PARTIAL SITE COMMUNICATIONS PLAN

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APP: 02-120779 INC:
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DATE: 11/6/2023

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ASB BY WILD ELECTRIC

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STATE OF CALIFORNIA
EXPIRES: 06/30/25

Consultant THOMA #22-8060

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LICENSED ARCHITECT
RANDALL K. FENNO
No. C23724
Exp. 4-30-25
STATE OF CALIFORNIA

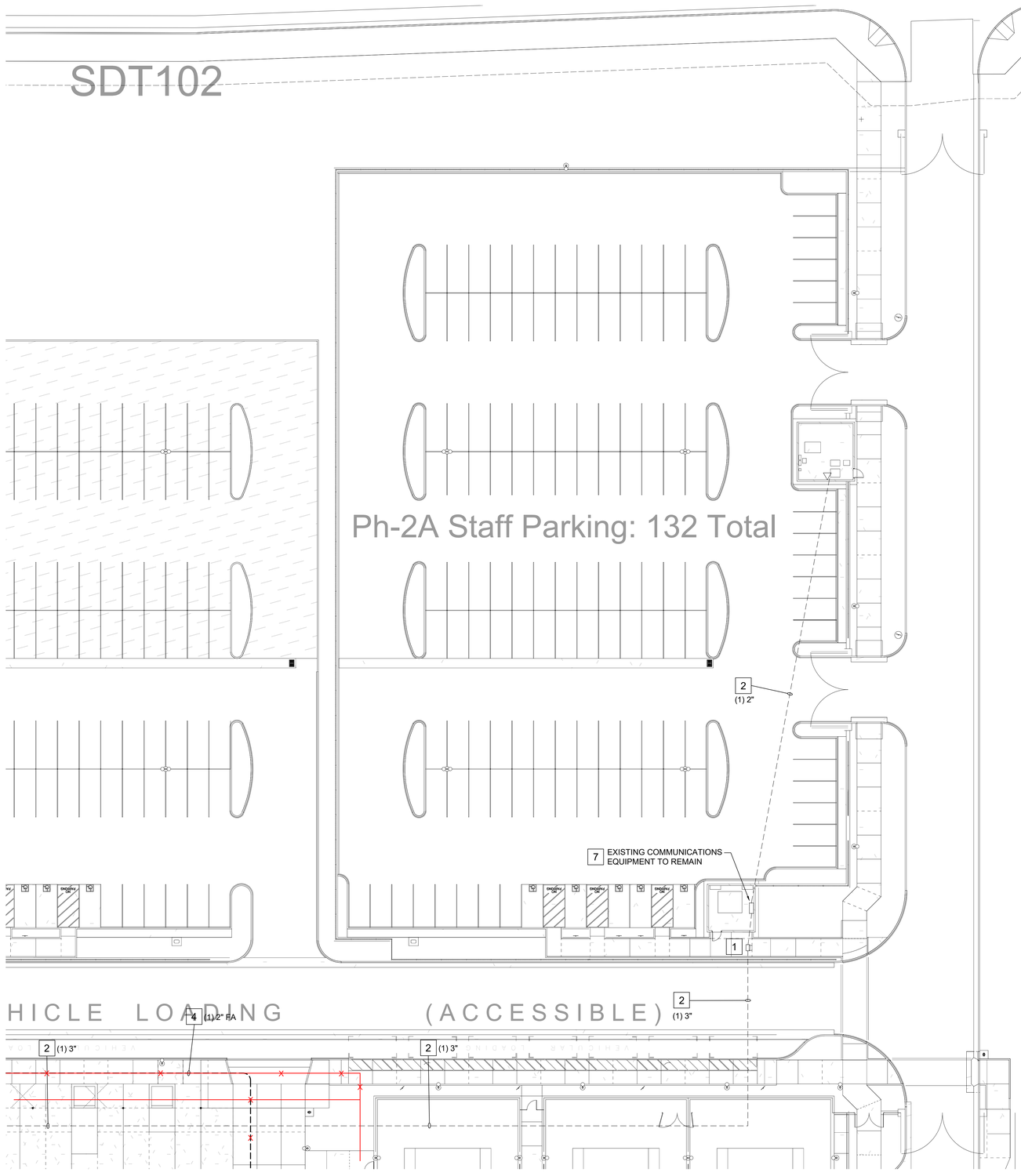
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No.	Revision/Submission	Date

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Project Number: 2171	Checked By:	
Date: 10/16/23	Reviewed By:	

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SDT102

PARTIAL SITE COMMUNICATIONS PLAN

SCALE: 1"=20'-0"

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APP: 02-120779 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 11/6/2023

Agency Approval

☐ Sheet Reference Notes

1. EXISTING COMMUNICATIONS PULLBOX TO REMAIN, PROTECT IN PLACE.
2. EXISTING COMMUNICATION SYSTEMS CONDUITS TO REMAIN, SIZE AND QUANTITY INDICATED, CONTRACTOR TO CONFIRM EXACT LOCATION AND PROTECT IN PLACE.
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7. WEATHERPROOF TELECOM ENCLOSURE FOR ACTIVE NETWORK EQUIPMENT.
8. FIRE ALARM DEVICE ON BUILDING EXTERIOR.

ASB BY WILD ELECTRIC

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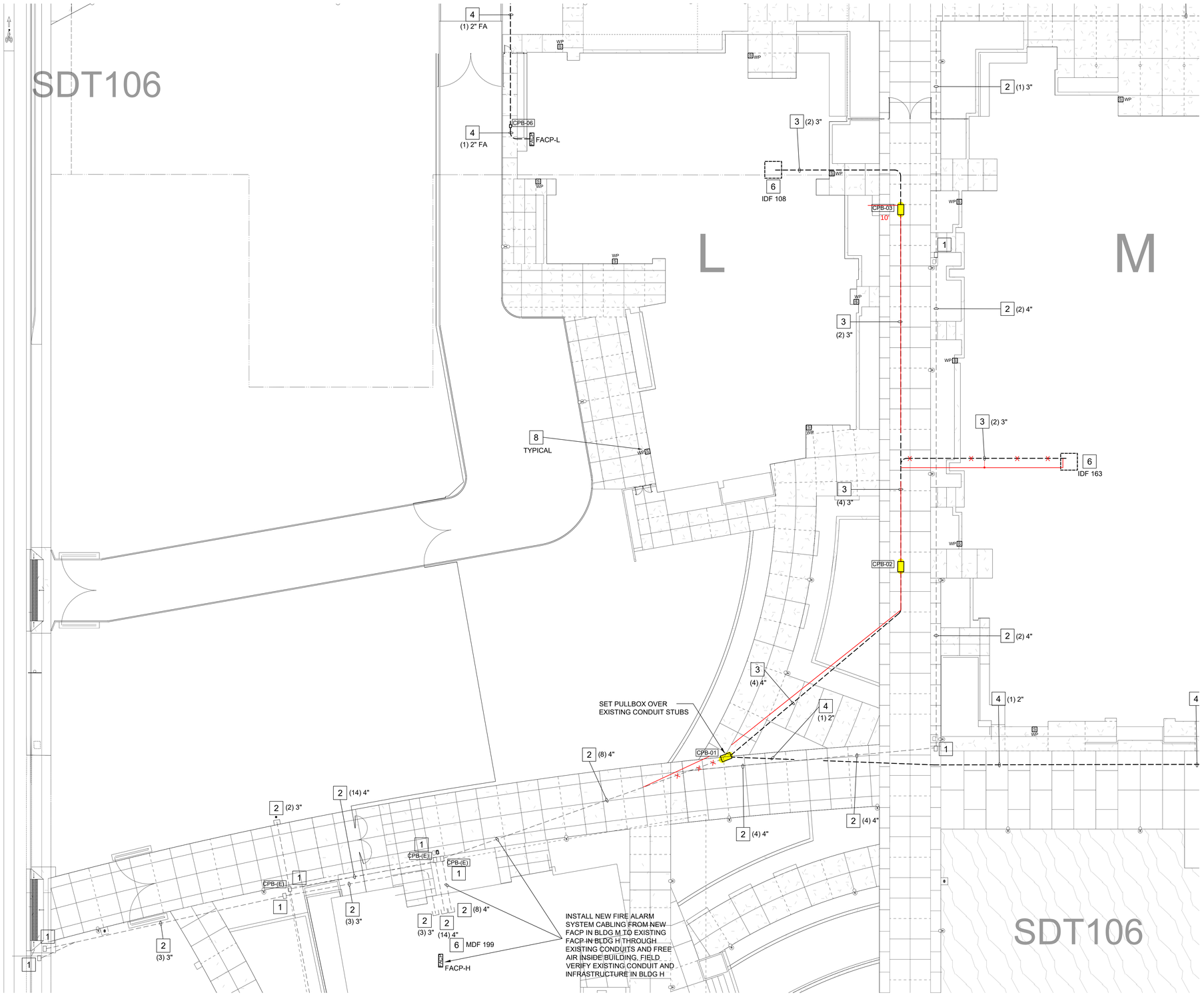
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Architect

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Revision

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PARTIAL SITE COMMUNICATIONS PLAN

SCALE: 1"=20'-0"

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APP: 02-120779 INC:
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Consultant THOMA #22-8060

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LICENSED ARCHITECT
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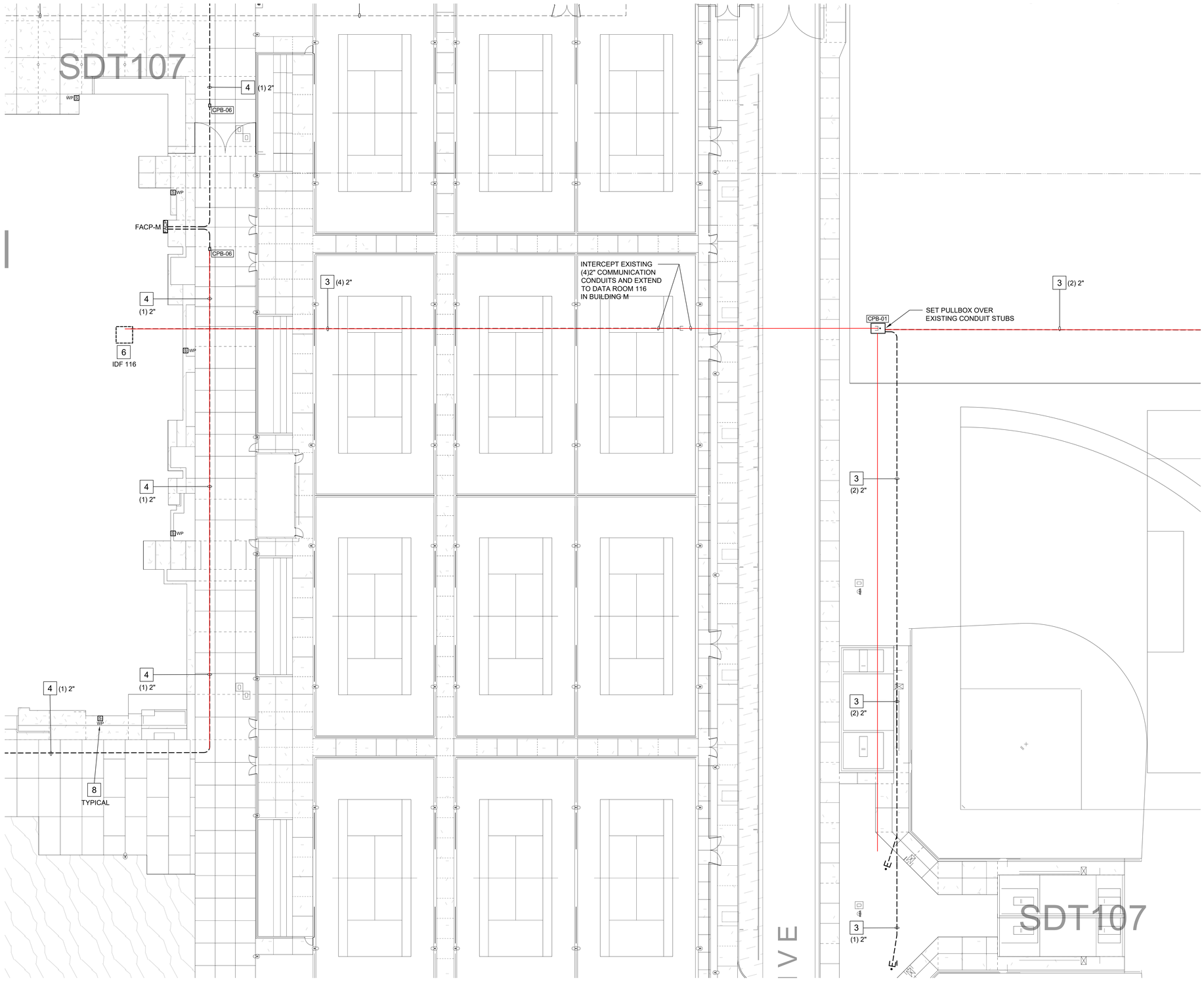
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Project Number: 2171	Checked By:	
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ASB BY WILD ELECTRIC

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General Notes

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EXPIRES: 06/30/25

Consultant THOMA #22-8060

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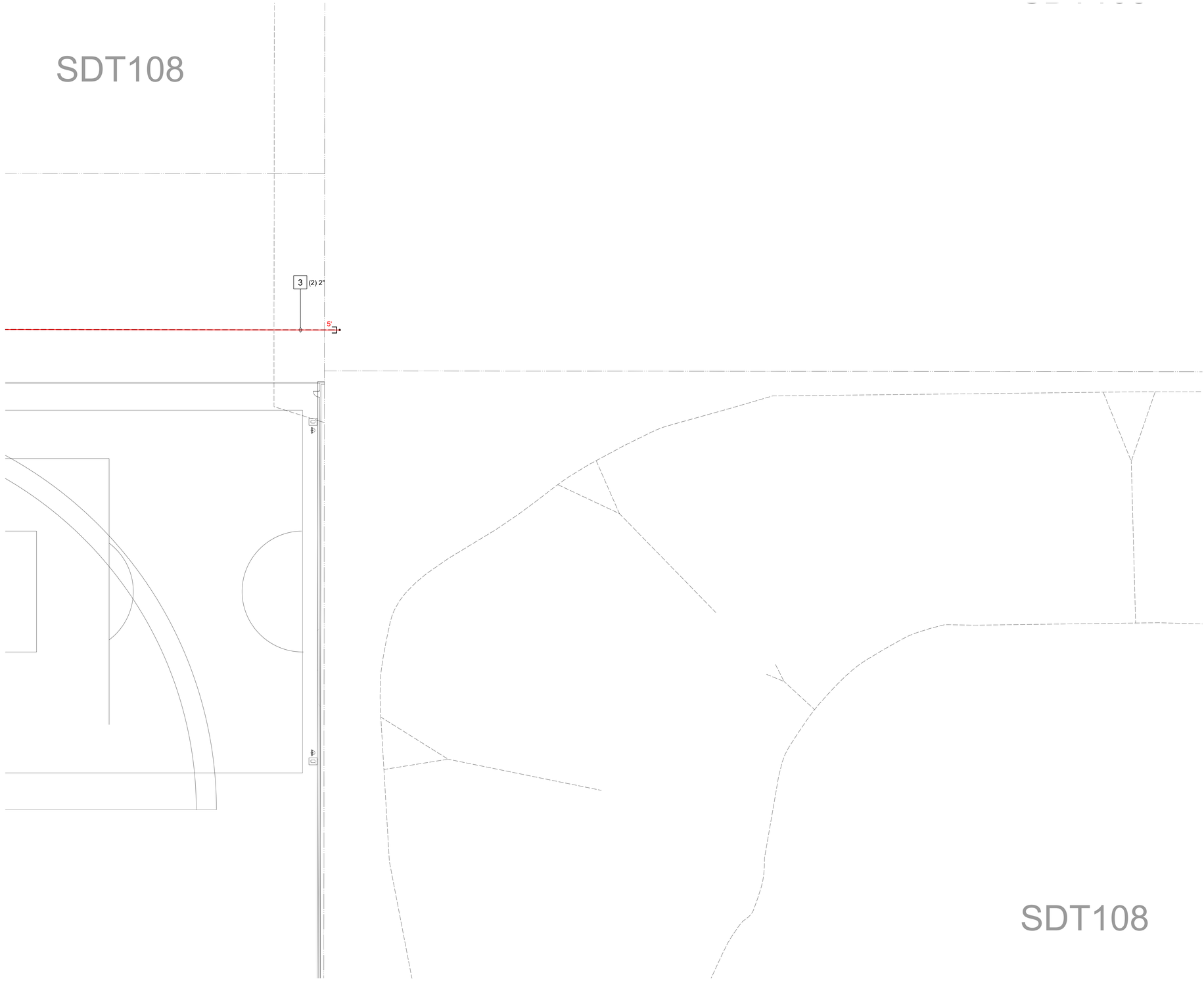
LICENSED ARCHITECT KIMBERLY K. FERGUSON No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

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Scale: As indicated	Drawn By:	*SD/T107*
Project Number: 2171	Checked By:	
Date: 10/16/23	Reviewed By:	



PARTIAL SITE COMMUNICATIONS PLAN

SCALE: 1"=20'-0"

NORTH

DSA File No.:
DSA File

DSA Application No.:
DSA App

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DIV. OF THE STATE ARCHITECT
APP: 02-120779 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 11/6/2023

Agency Approval

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Consultant THOMA #22-8060

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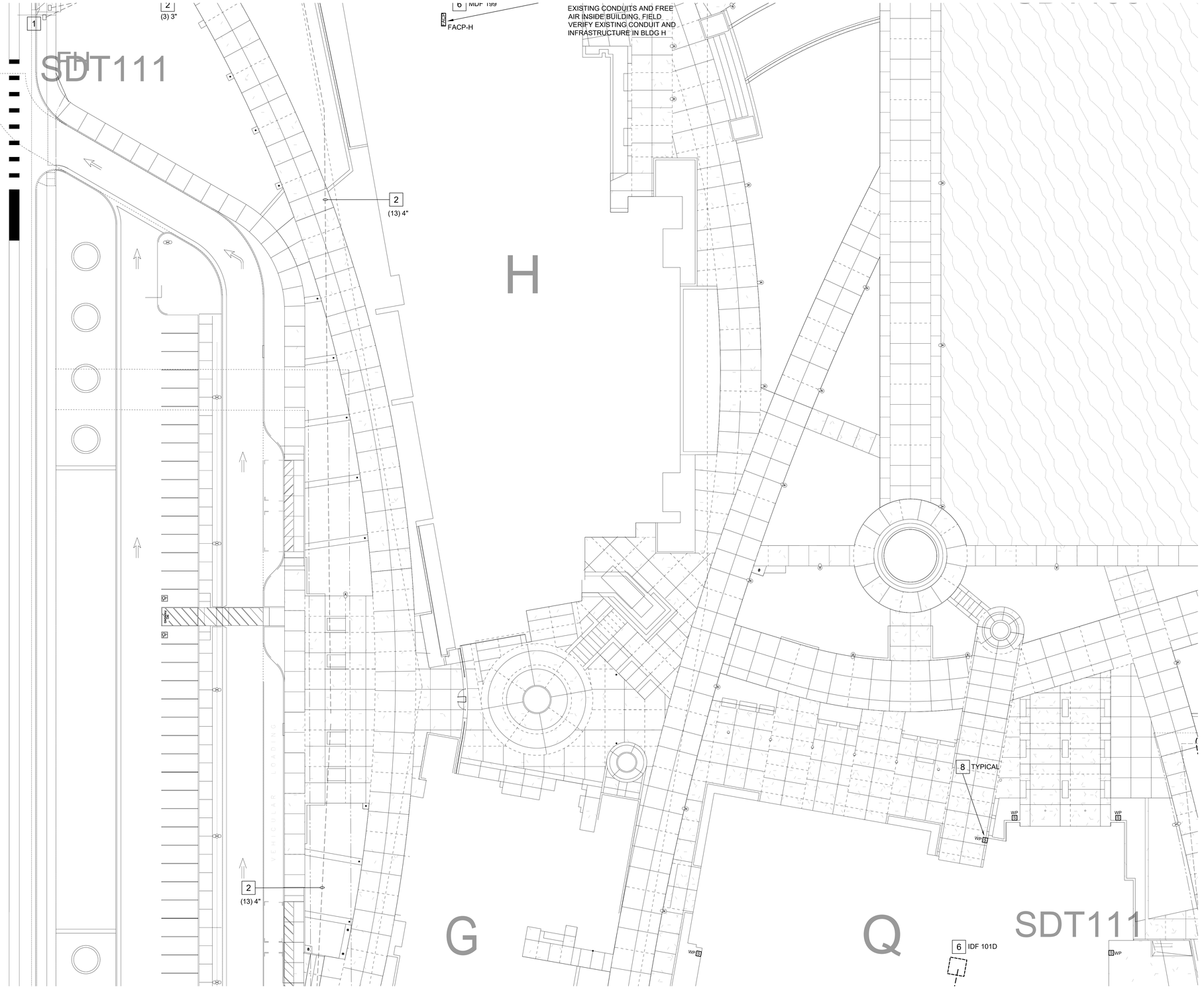
LICENSED ARCHITECT
RICHARD K. FERRO
No. C23724
EXP. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By:	Copyright 2021 Darden Architects
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Project Number: 2171	Checked By:	
Date: 10/16/23	Reviewed By:	



PARTIAL SITE COMMUNICATIONS PLAN

SCALE: 1"=20'-0"

NORTH

DSA File No.:
DSA File

DSA Application No.:
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APP: 02-120779 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 11/6/2023

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REGISTERED PROFESSIONAL ENGINEER WILLIAM A. THOMA ELECTRICAL STATE OF CALIFORNIA
EXPIRES: 06/30/25

Consultant THOMA #22-8060

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LICENSED ARCHITECT LAUREL K. FERRARO No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

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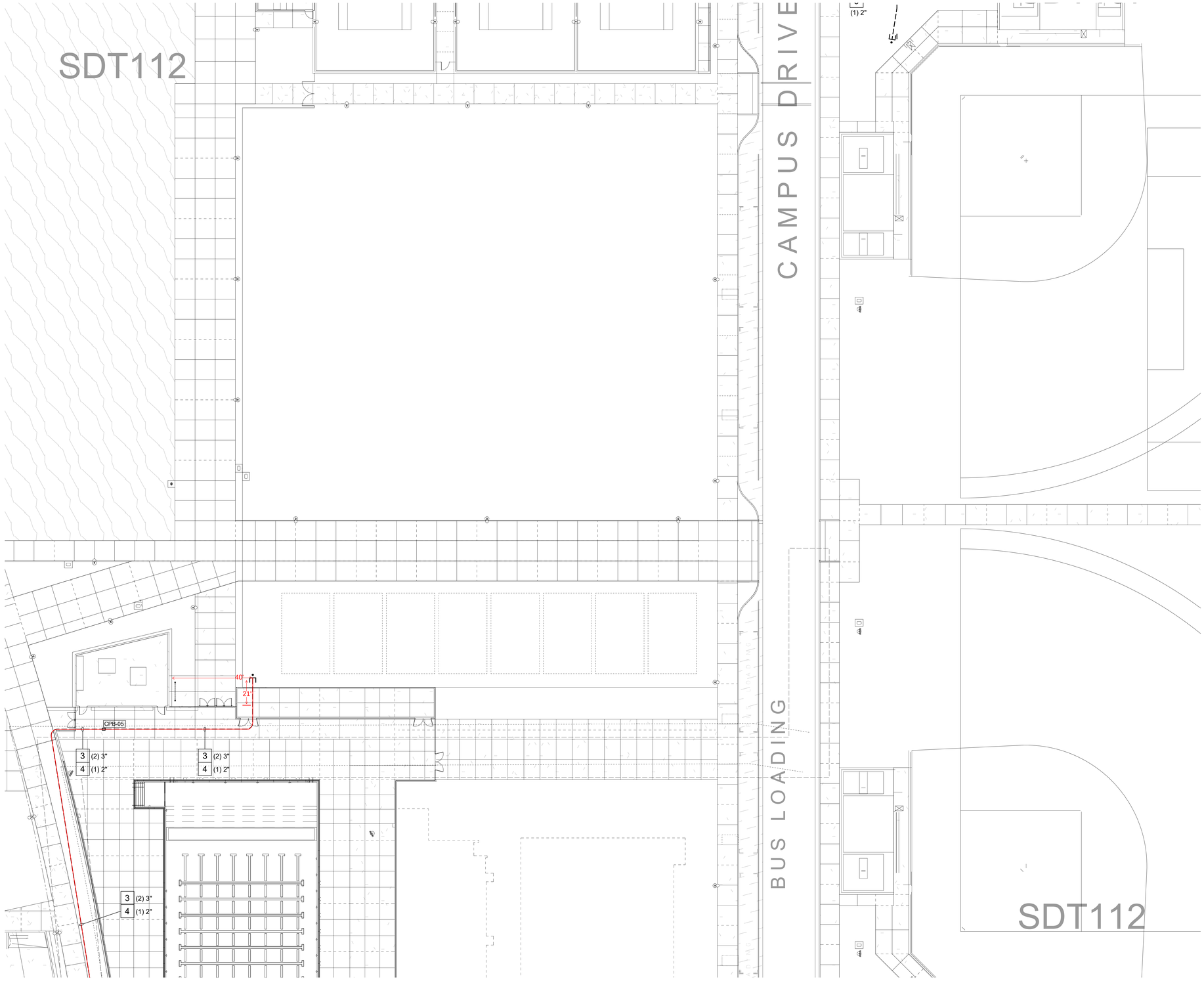
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Drawn By:

Project Number: 2171
Checked By:

Date: 10/16/23
Reviewed By:

SD/T111



PARTIAL SITE COMMUNICATIONS PLAN

SCALE: 1"=20'-0"

NORTH

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APP: 02-120779 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 11/6/2023

Agency Approval

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REGISTERED PROFESSIONAL ENGINEER WILLIAM A. THOMA ELECTRICAL STATE OF CALIFORNIA
EXPIRES: 06/30/25

Consultant THOMA #22-8060

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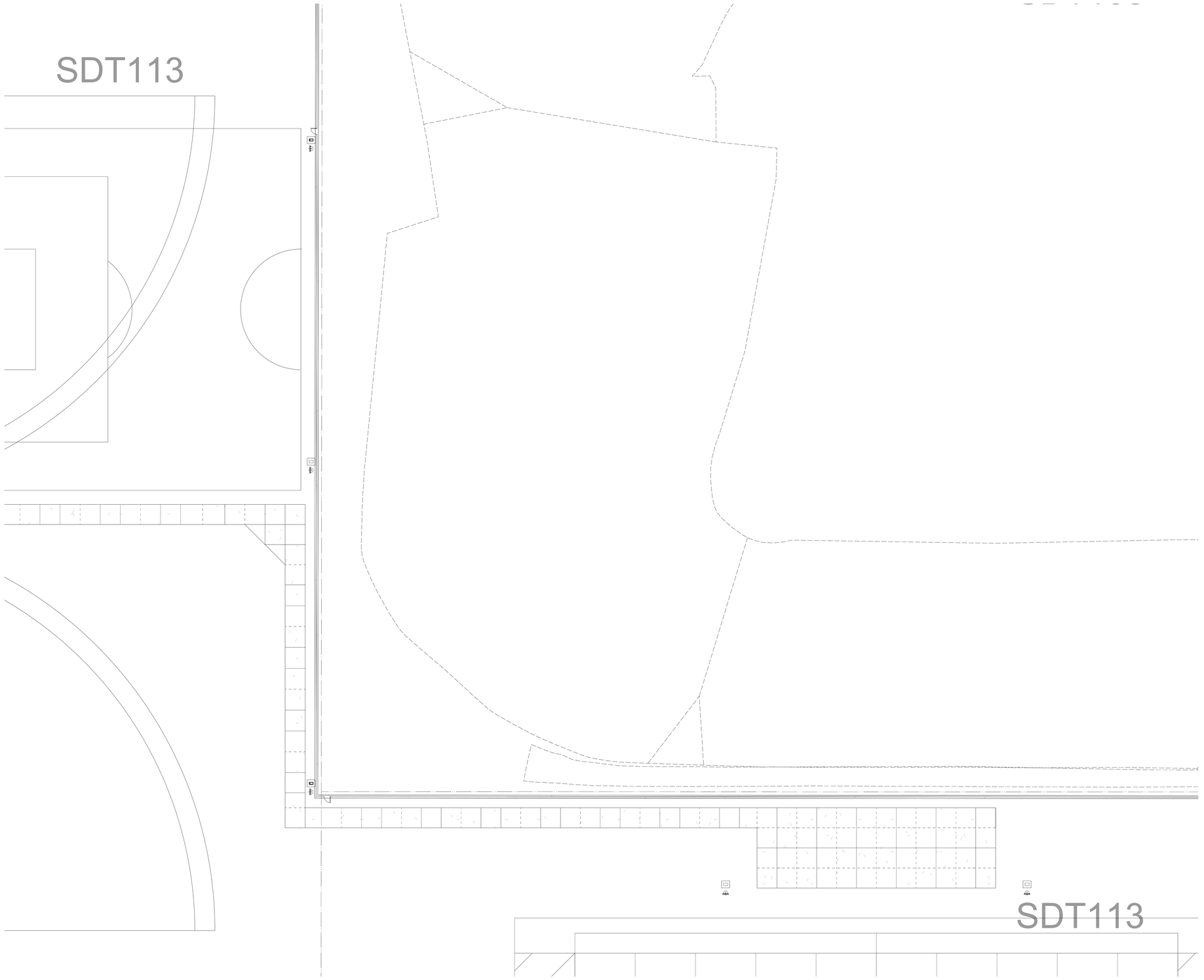
LICENSED ARCHITECT ROBERT K. FERRO No. C23724 REG. 4/30/25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

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Scale: As indicated	Drawn By:	SD/T112
Project Number: 2171	Checked By:	
Date: 10/16/23	Reviewed By:	



PARTIAL SITE COMMUNICATIONS PLAN

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NORTH

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APP: 02-120779 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 11/6/2023

Agency Approval

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EXPIRES: 06/30/25

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LICENSED ARCHITECT
ROBERT K. FEYRAZO
No. C23724
REN. 4-30-25
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Architect

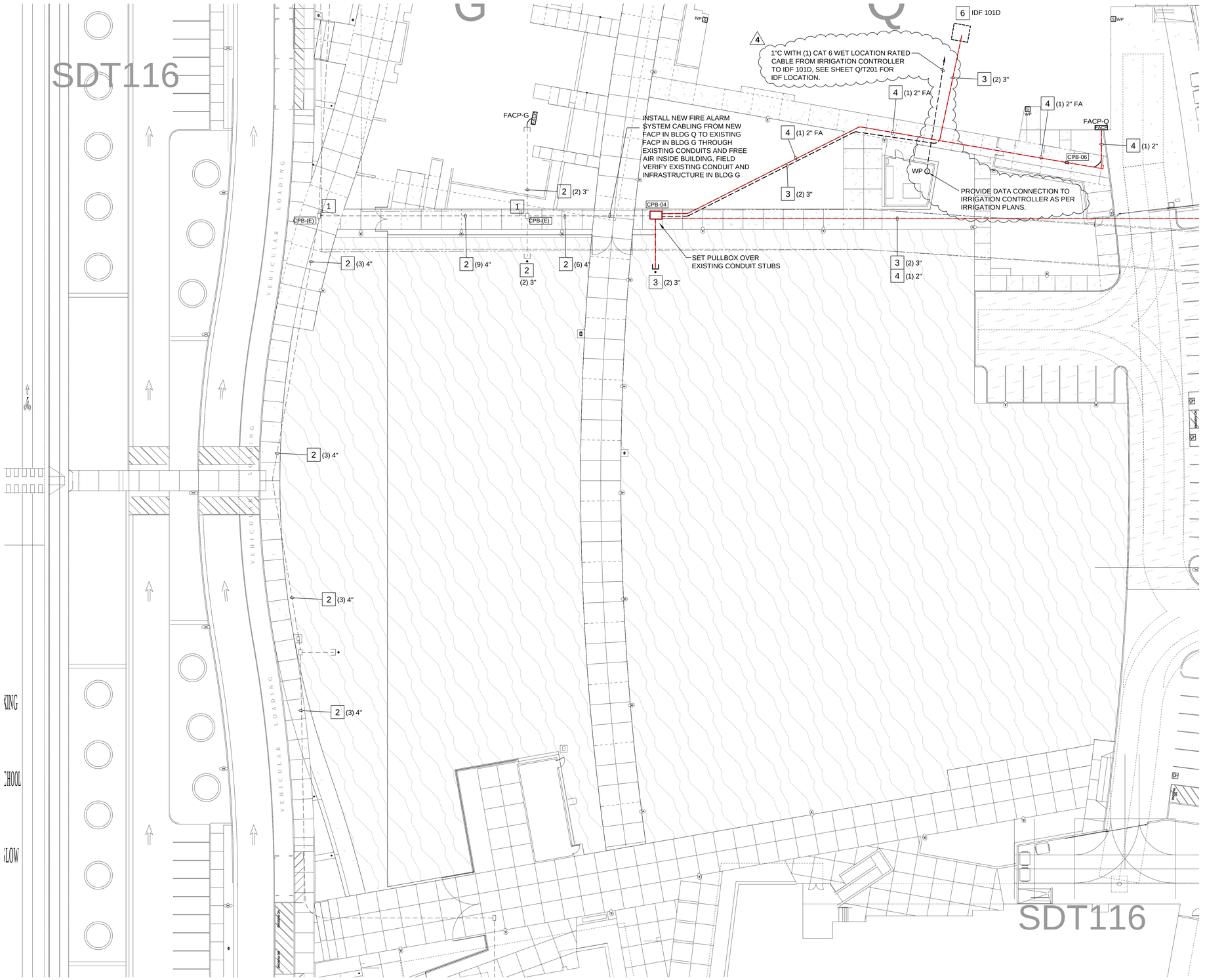
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Project Number: 2171	Checked By:	
Date: 10/16/23	Reviewed By:	

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APPROVED
DIV. OF THE STATE ARCHITECT
APP: 02-120779 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/17/2024



PARTIAL SITE COMMUNICATIONS PLAN

SCALE: 1"=20'-0"

NORTH

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LICENSED ARCHITECT
LAURENCE K. FERNEKO
No. C23724
Exp. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date
4	**ADDENDUM #4**	**12/12/23**

Revision

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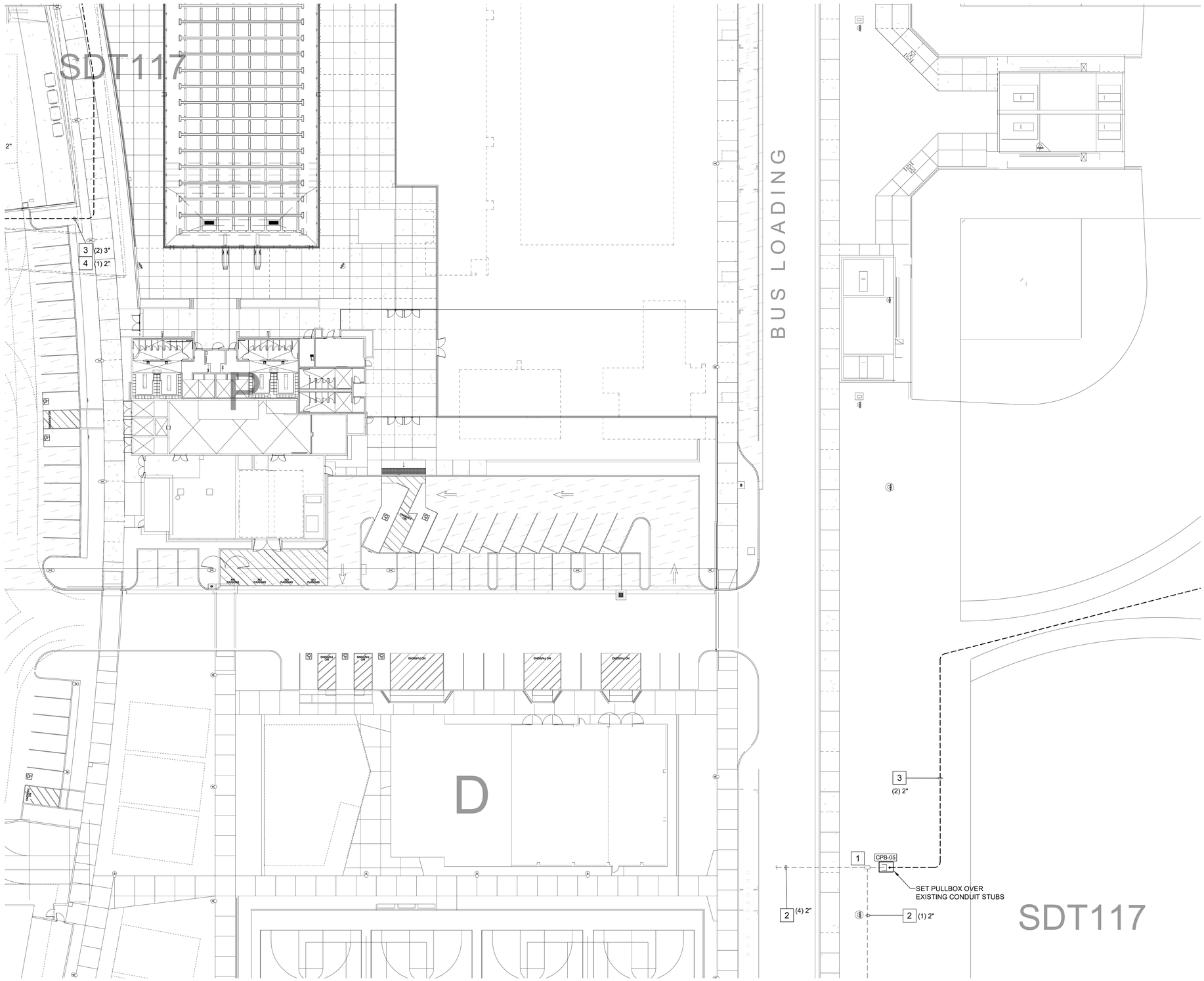
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Project Number: 2171
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Date: 10/16/23
Reviewed By:

SD/T116
AD4



PARTIAL SITE COMMUNICATIONS PLAN

SCALE: 1"=20'-0"

NORTH

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APP: 02-120779 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 11/6/2023

Agency Approval

☐ Sheet Reference Notes

1. EXISTING COMMUNICATIONS PULLBOX TO REMAIN, PROTECT IN PLACE.
2. EXISTING COMMUNICATION SYSTEMS CONDUITS TO REMAIN, SIZE AND QUANTITY INDICATED, CONTRACTOR TO CONFIRM EXACT LOCATION AND PROTECT IN PLACE.
3. NEW COMMUNICATION SYSTEMS CONDUITS, SIZE AND QUANTITY INDICATED.
4. NEW FIRE ALARM SYSTEM CONDUIT(S), SIZE AND QUANTITY INDICATED.
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6. APPROXIMATE LOCATION OF NEW / EXISTING DATA MDF / IDF ROOM, REFER TO COMMUNICATION FLOOR PLANS AND COMMUNICATION RISER DIAGRAM FOR ADDITIONAL INFORMATION.
7. WEATHERPROOF TELECOM ENCLOSURE FOR ACTIVE NETWORK EQUIPMENT.
8. FIRE ALARM DEVICE ON BUILDING EXTERIOR.

ASB BY WILD ELECTRIC

NOTES:
CONTRACTOR SHALL NOT ROUTE CONDUITS THROUGH ANY AREAS PLANNED FOR BUILDINGS / OR FLATWORK INDICATED AS BID ALTERNATES, REFER TO ARCHITECTURAL PLANS FOR EXACT LIMITS OF WORK BOUNDARIES ASSOCIATED WITH EACH BID ALTERNATE. PROVIDE ROUTING OF CONDUITS AS REQUIRED TO CLEAR AREAS DESIGNATED AND ASSOCIATED WITH EACH BID ALTERNATE AND FUTURE BUILDING FOOTPRINTS.
CONTRACTOR TO PROVIDE SHOP DRAWING OF ALL PROPOSED CONDUIT ROUTING ON SITE, FOR ARCHITECT AND ENGINEER REVIEW PRIOR TO INSTALLATION OF ANY WORK.

PROVIDE CONCRETE MOW STRIP AROUND ALL SITE UTILITY ITEMS, SEE DETAIL L6-SD/A309 FOR THE ARCHITECTURAL MOW STRIP DETAIL.

THE EXACT QUANTITY, LOCATION AND DEPTHS OF EXISTING UNDERGROUND PIPING AND CONDUITS IS UNKNOWN. VERIFY AND MAINTAIN EXISTING UTILITIES IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION AND EXCAVATION OPERATIONS.

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SAWCUT AND PATCH ALL SURFACES TO MATCH EXISTING SURFACES (CONCRETE, AC PAVING, ETC.) COMPLETE FIELD VERIFICATION OF THIS WORK IS REQUIRED.

General Notes

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EXPIRES: 06/30/25
Consultant THOMA #22-8060

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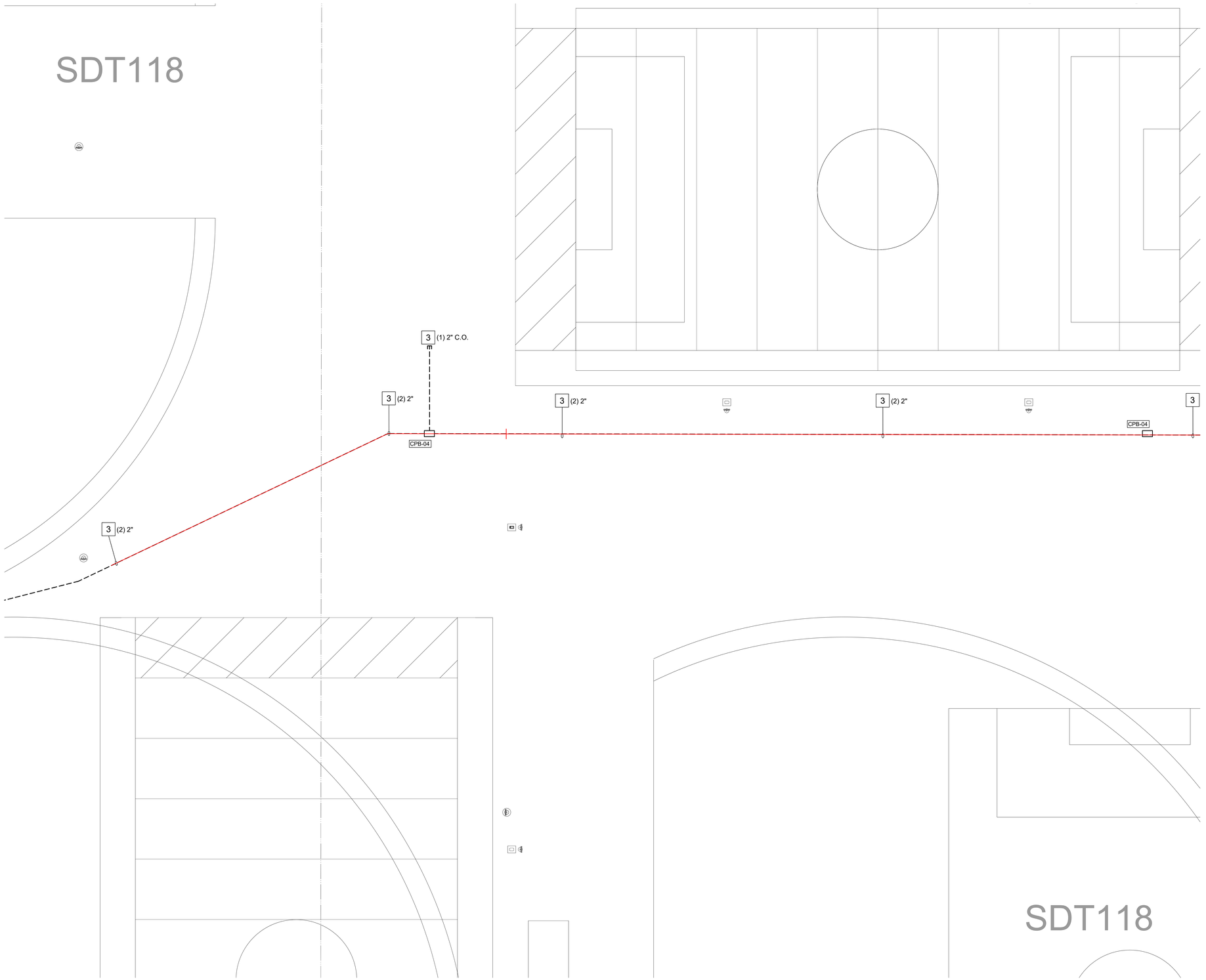
LICENSED ARCHITECT MICHAEL K. FEVRIER No. C23724 Reg. 4-30-25 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

	Designed By:	Copyright 2021 Darden Architects
Scale: As indicated	Drawn By:	*SD/T117*
Project Number: 2171	Checked By:	
Date: 10/16/23	Reviewed By:	

SDT118



SDT118

PARTIAL SITE COMMUNICATIONS PLAN

SCALE: 1"=20'-0"

NORTH

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ASB BY WILD ELECTRIC

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Consultant THOMA #22-8060

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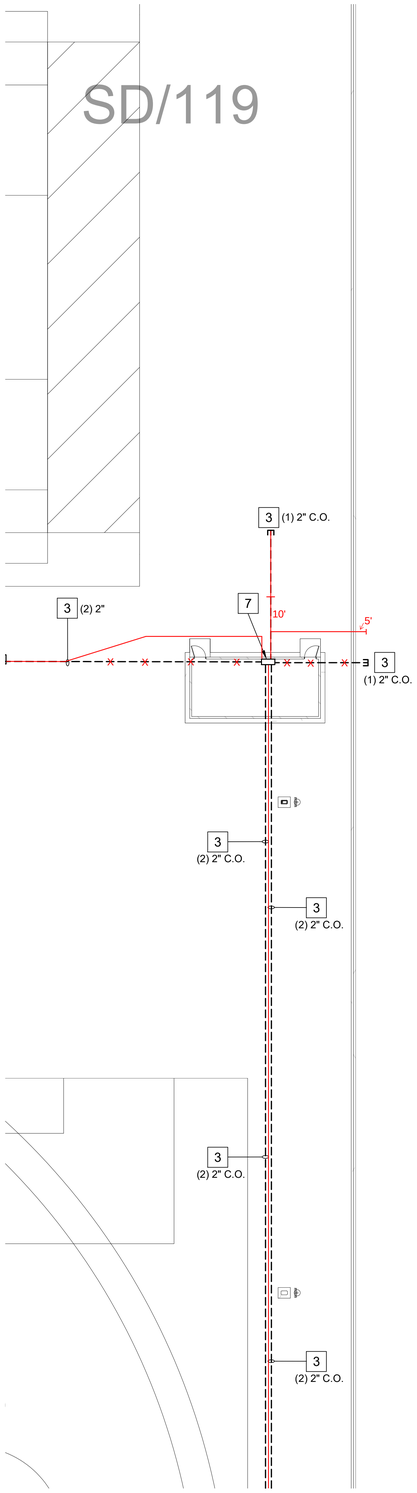
LICENSED ARCHITECT ROBERT K. FEYKO No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

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Project Number: 2171	Checked By:	
Date: 10/16/23	Reviewed By:	



PARTIAL SITE COMMUNICATIONS PLAN

SCALE: 1"=20'-0"

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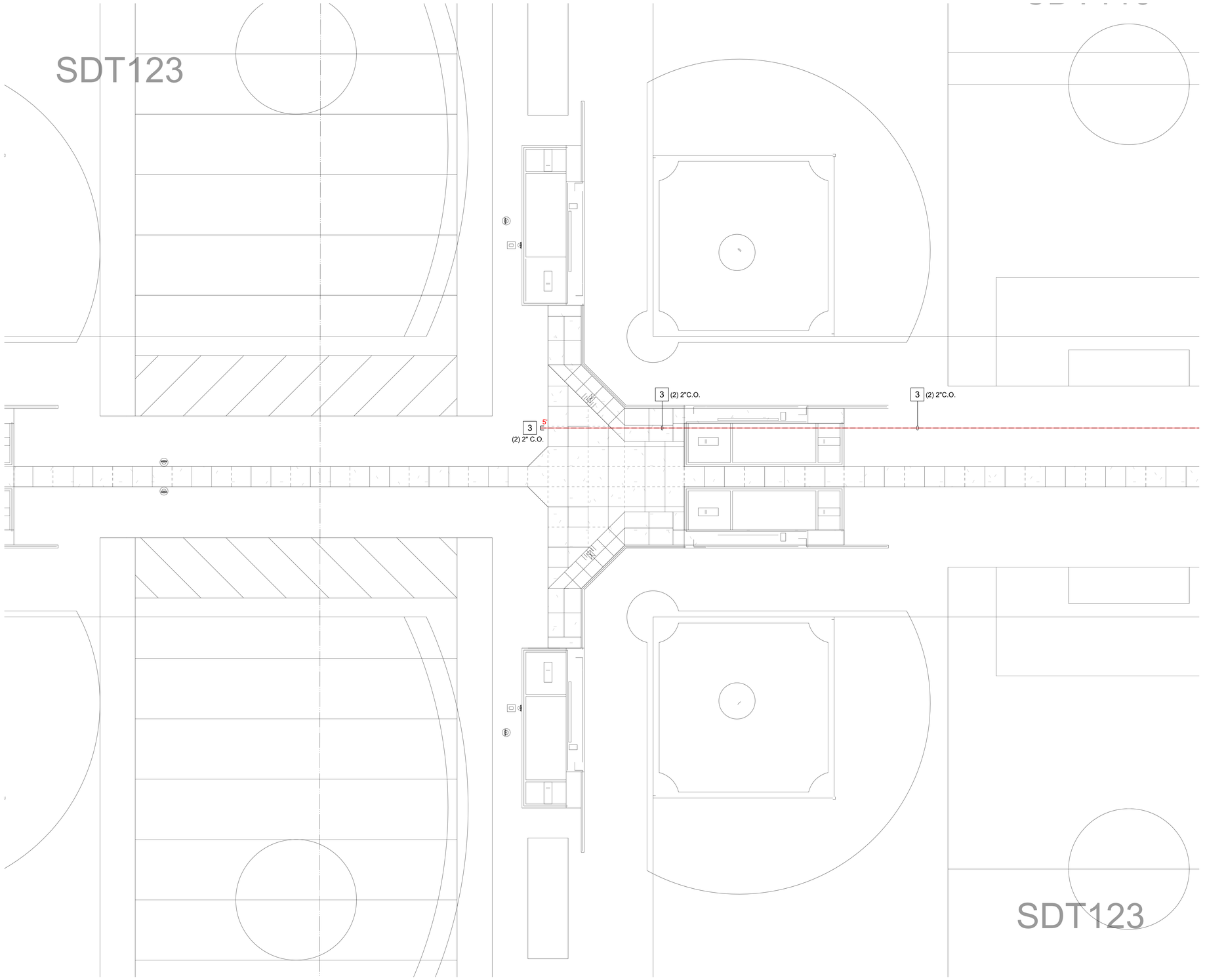
LICENSED ARCHITECT
RICHARD K. DARDEN
No. C23724
REN. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By:	Copyright 2021 Darden Architects
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Project Number: 2171	Checked By:	
Date: 10/16/23	Reviewed By:	



PARTIAL SITE COMMUNICATIONS PLAN

SCALE: 1"=20'-0"

NORTH

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REGISTERED PROFESSIONAL ENGINEER WILLIAM A. THOMA ELECTRICAL STATE OF CALIFORNIA

EXPIRES: 06/30/25

Consultant THOMA #22-8060

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LICENSED ARCHITECT REGISTERED PROFESSIONAL No. C23724 REN. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

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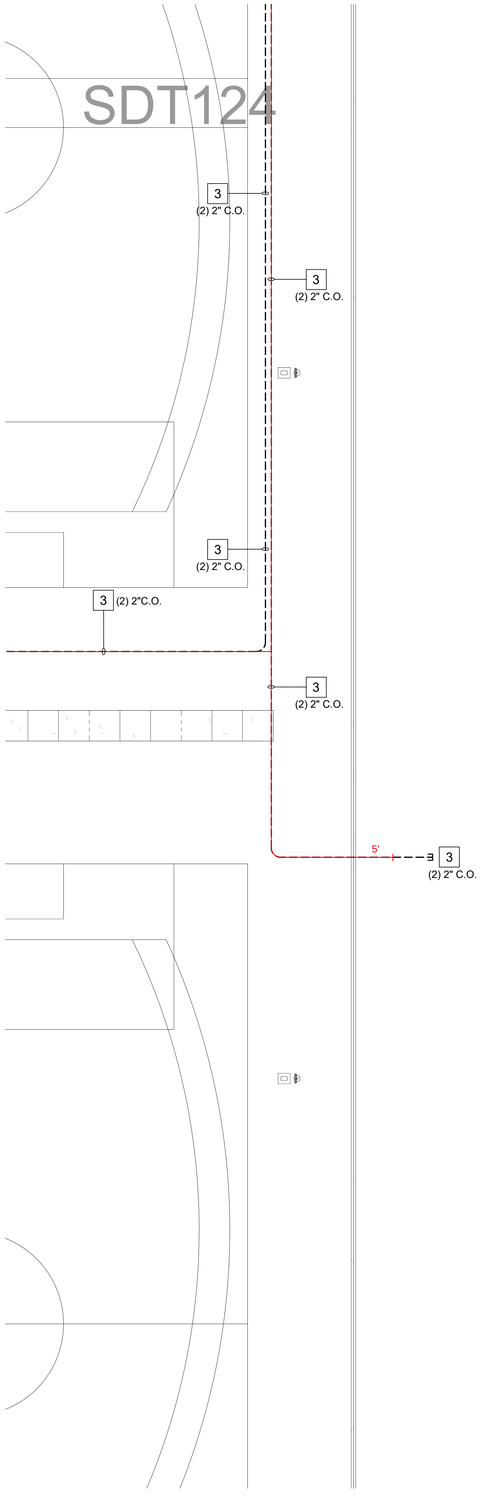
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Scale: As indicated

Project Number: 2171

Date: 10/16/23

SD/T123



PARTIAL SITE COMMUNICATIONS PLAN

SCALE: 1"=20'-0"

NORTH

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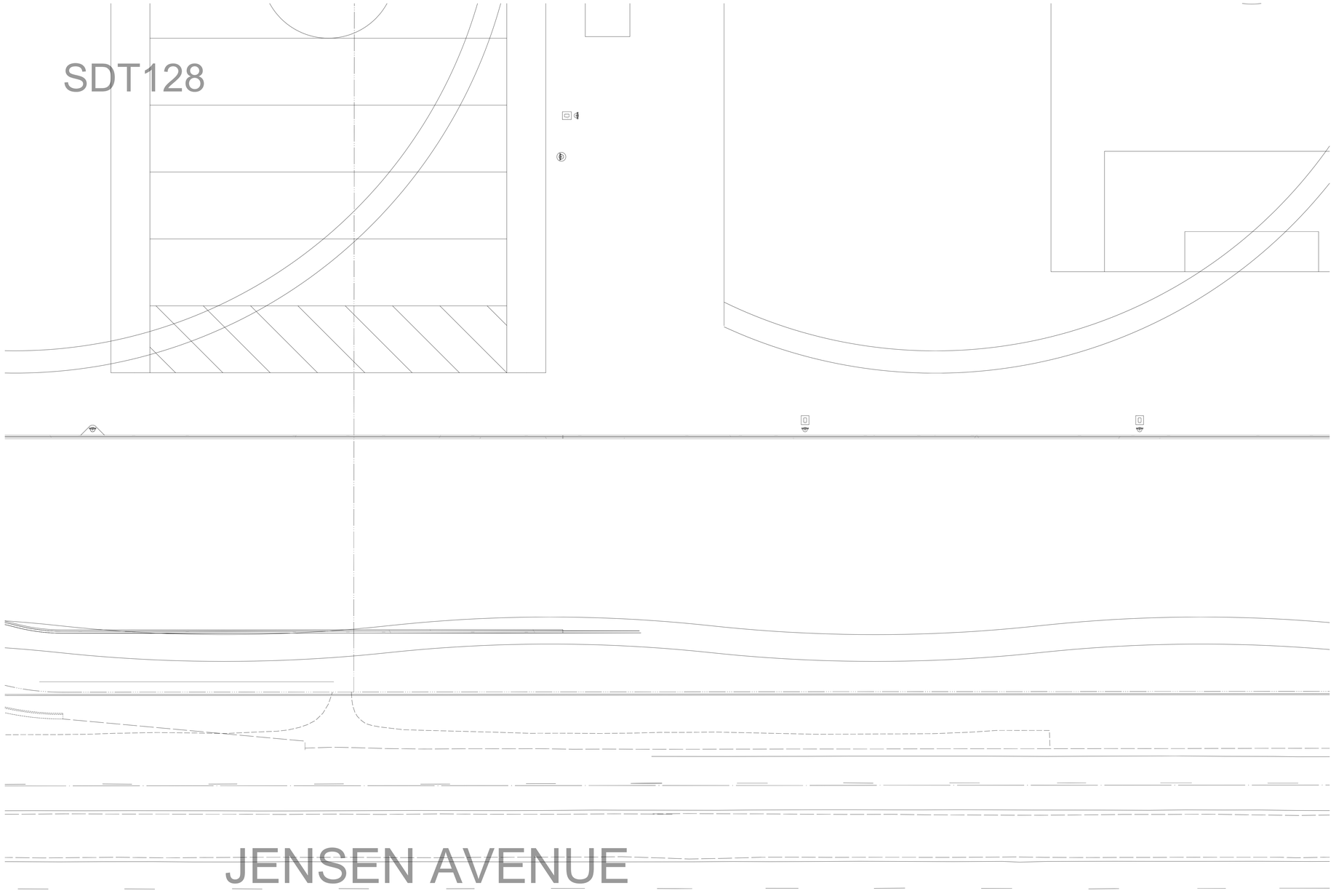
Architect

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Project Number: 2171	Checked By:	
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PARTIAL SITE COMMUNICATIONS PLAN

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PARTIAL SITE COMMUNICATIONS PLAN

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No.	Revision/Submission	Date

Revision

	Designed By:	Copyright 2021 Darden Architects
Scale: As indicated	Drawn By:	*SD/T128*
Project Number: 2171	Checked By:	
Date: 10/16/23	Reviewed By:	

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