Addendum No. 03

August 28, 2025

Memorial Stadium Modernization

Fieldhouse & Stadium

OWNER: Madera Unified School District
1902 Howard Road
Madera, CA 93637

PREPARED BY: PBK Architects, Inc.
7790 N. Palm Avenue
Fresno, California 93711

MADERA UNIFIED BID NO.: 073025
PBK PROJECT NO.: 20-51
DSA APPLICATION NO.: 02-121624 Fieldhouse
02-122784 Stadium

NOTICE TO BIDDERS

A. Receipt of this Addendum shall be acknowledged on the Proposal Form.
B. This Addendum forms part of the Contract Documents for the above-mentioned project and shall be incorporated integrally therewith.
C. Each proposer shall make necessary adjustments and submit their proposal with full knowledge of all modifications, clarifications, and supplemental data included therein. Where provisions of the following supplemental data differ from those of the original Contract Documents, this Addendum shall govern.
D. The description of changes to the documents included below is for the bidder's reference and should not be interpreted as an exhaustive list of every design change in the documents. The design team has put together a list to help bidders quickly assess and quantify the changes that have been incorporated. Design changes on the documents have been clouded, but it is the bidders' responsibility to fully examine the addendum documents and allow for all design changes included in them.

02-121624 FIELDHOUSE - ADDENDUM 03 ITEMS:

SPECIFICATION SECTIONS:

3-01 Remove and replace the following Specifications Sections with the attached revised versions:

a. 08 33 00 - Overhead Coiling Service Doors – Fieldhouse (7 pages)
b. 08 71 00 - Door Hardware – Fieldhouse (16 pages)
c. Replace 09 67 23 with 09 67 23.20 – Resinous Flooring – Fieldhouse (6 pages)
d. 10 80 00 - Toilet and Bath Accessories – Fieldhouse (4 pages)

3-02 Add the following Specifications Section to the Project Manual where indicated:

a. 08 41 13 - Aluminum-Framed Entrances and Storefronts – Fieldhouse (8 pages)
b. 22 11 14 - Athletic Training Ice Bath Tubs - Fieldhouse (3 pages)

Addendum No. 03

August 28, 2025

Memorial Stadium Modernization

Fieldhouse & Stadium

ARCHITECTURAL DRAWINGS:

3-03 Remove and replace the following sheets, revisions have been clouded: (4 Sheets)

a. A1.2 – NOTED FLOOR PLAN
   - Relocated overhead coiling doors to exterior side of concessions.

b. A3.1 – REFLECTED CEILING PLAN
   - Revised ceiling height.

c. A5.1 – EXTERIOR ELEVATIONS
   - Relocated overhead coiling doors to exterior side of concessions.

d. AX3.1 – OPENING DETAILS
   - Revised opening details.

ELECTRICAL DRAWINGS:

3-04 Remove and replace the following sheets, revisions have been clouded: (11 Sheets)

a. ES1.1 - ENLARGED DEMOLITION ELECTRICAL SITE PLAN
   - Modified Keynote 4.

b. ES1.2 - ENLARGED DEMOLITION ELECTRICAL SITE PLAN
   - Modified Keynote 4.

c. ES1.3 - ENLARGED ELECTRICAL SITE PLAN
   - Changed “1”” to “2”” C in Keynote 38.
   - Added PG&E service conductor conduit / Keynote 46.

d. E2.1 - POWER PLAN
   - Changed Wall Mount IDF cabinet to Floor Mount 2-Post rack.
   - Changed receptacle for IDF.
   - Relocated receptacle on west wall of IT Room.
   - Added duplex TV receptacle in Reem Room 128.

e. E3.1 - DATA/COMM PLAN
   - Added AV system in Team Room 128.

f. E4.1 - FIRE ALARM PLAN
   - Added Fire Bell.
   - Changed symbol for riser flow monitoring.

g. EX0.1 - ELECTRICAL GENERAL NOTES & SYMBOLS
   - Modified TV symbol definition.

h. EX2.1 - ELECTRICAL SINGLE LINE DIAGRAM
   - Changed “(E)” to “(N)” on SLD for fire pump disconnect ‘FPD’.
   - Changed “(N)” to “(E)” on SLD for solar disconnect.
   - Changed “(N)” to “(E)” on solar system.
   - Added Key Note 23 regarding existing metering removal.
   - Changed “(N)” to “(E)” for the 800A/3P MCB in Switchboard ‘MSN’.
   - Modified Keynotes 1 & 4 regarding scope of work with PG&E transformer.

i. EX2.2 - PANEL SCHEDULES
   - Added Fire Bell to panel ‘FHA1-34’.
   - Added Team Room 128 TV ‘FHA-33’.

j. EX3.1 - ELECTRICAL LOW VOLTAGE DETAILS
   - Changed Wall Mount IDF cabinet to Floor Mount 2-Post rack.
   - Added detail E7.

k. EX4.1 - FIRE ALARM
   - Changed Fire Alarm to Gamewell E3 System. All Fire Alarm equipment has changed.
   - Changed symbols in riser for input.

- Changed calculations for Gamewell ES System.

02-122784 STADIUM - ADDENDUM 03 ITEMS:

SPECIFICATION SECTIONS:

3-05 Remove and replace the following Specifications Sections with the attached revised versions:

a. 08 33 00 - Overhead Coiling Service Doors – Stadium (7 pages)
b. 08 71 00 - Door Hardware – Stadium (15 pages)
c. 10 80 00 - Toilet and Bath Accessories – Stadium (4 pages)

3-06 Add the following Specifications Section to the Project Manual where indicated:

a. 08 41 13 - Aluminum-Framed Entrances and Storefronts – Stadium (8 pages)
b. 22 11 14 - Athletic Training Ice Bath Tubs - Stadium (3 pages)

CIVIL DRAWINGS:

3-07 Remove and replace the following sheets, revisions have been clouded: (21 Sheets)

a. C2.1 – C2.4 DEMOLITION PLAN (4 pages)
   - Removed ‘PS’ in legend .
   - Included ‘AA’ and ‘RL’ in legend.
   - Revised existing scoreboard to be removed.
   - Revised limits of synthetic turf, shock pad and base removal by contractor.
   - Revised description of hatch removal in legend for track surfacing and underlying concrete removal.
   - Included additional removal of SD pipe.
b. C3.1 – C3.4 SITE PLAN (4 pages)
   - Revised turf “D” end areas with asphaltic concrete pavement for track surfacing.
   - Included concrete header separating field and pavement areas.
   - Included concrete valley gutter with drain inlets and piping.
c. C4.1 – C4.5 HORIZONTAL CONTROL PLAN AND TABLE (5 pages)
   - Included site layout points for concrete valley gutter grates and pole vault boxes.
   - Included additional dimensions.
   - Revised Northing Easting Table.
   - Included ‘AE’ and GR’ in legend.
d. C5.1 – C5.4 GRADING AND DRAINAGE PLAN (4 pages)
   - Revised grading for concrete valley gutter.
   - Included grading for storm drainage system.
   - Included notes 6,7, and 8 in Grading and Drainage Legend.
   - Added detail A/C5.1.
e. C7.1 – TRACK AND FIELD STRIPING PLAN
   - Revised field “D” end areas.
f. CX1.1 – DETAILS
   - Revised detail L/CX1.1.
g. CX1.5 – DETAILS
   - Included concrete finishing note on details A/CX1.5 and L/CX1.5.
   - Revised detail [B/CX1.5] to show track surfacing and pavement section end condition
h. CX1.7 – DETAILS

- Included detail I/CX1.7 “Existing Perforated Storm Drain Pipe”.

ARCHITECTURAL DRAWINGS:

3-08 Remove and replace the following sheets, revisions have been clouded: (22 Sheets)

a. AS.1 – OVERALL SITE PLAN
   - Revised site gates.
b. AA1.1 – FLOOR PLAN - BUILDING A
   - Added countertops at exterior side of Concessions transaction windows.
   - Revised Keynotes.
c. AA5.1 – EXTERIOR ELEVATIONS - BUILDING A
   - Added countertops at exterior side of Concessions transaction windows
   - Relocated overhead coiling doors to exterior side of concessions.
   - Removed CMU control joints.
d. AA6.1 – BUILDING SECTIONS - BUILDING A
   - Revised General Notes.
e. AA7.1 – INTERIOR ELEVATIONS - BUILDING A
   - Revised Concessions interior elevations.
f. AB5.1 – EXTERIOR ELEVATIONS - BUILDING B
   - Removed CMU control joints note on elevations.
g. AB6.1 – BUILDING SECTIONS - BUILDING B
   - Revised General Notes.
h. AC5.1 – EXTERIOR ELEVATIONS - BUILDING C
   - Revised South Elevation.
   - Added elevation 05 and 06.
i. AC6.1 – BUILDING SECTIONS - BUILDING C
   - Revised General Notes.
j. AD3.1 – ENLARGED RCP - BUILDING D
   - Revised Ceiling height and Legend.
k. AD5.1 – ELEVATIONS & SECTIONS - BUILDING D
   - Revised transaction window type.
   - Added mechanical louvers.
   - Added note to elevation.
l. AD7.1 – INTERIOR ELEVATIONS - BUILDING D
   - Revised transaction window type.
   - Added mechanical louvers.
m. AX1.0 – WALL TYPES
   - Revised Wall Types.
n. AX2.0 – SITE DETAILS
   - Revised Flag Pole detail.
o. AX2.1 – EXTERIOR DETAILS
   - Revised details 11; added detail 21.
p. AX2.2 – EXTERIOR DETAILS - RAIN SCREEN
   - Revised Rain Screen details.
q. AX2.3 – EXTERIOR DETAILS – GATES
   - Revised detail 2.
r. AX2.4 – TYPICAL EXTERIOR DETAILS – CMU
   - Removed detail 20.
   - Revised insulation thickness.
s. AX3.1 – OPENING DETAILS
   - Revised opening details.
   - Removed detail 16.

t. AX3.2 – TYPICAL OPENING DETAILS – STOREFRONT
   - Removed z-girts from details 05 and 14.
u. AX4.1 – ROOF DETAILS
   - Revised note on detail 10.
v. AX8.1 – DOOR AND WIDNOW SCHEDULE
   - Revised door types and window types.

ELECTRICAL DRAWINGS:

3-09 Remove and replace the following sheets, revisions have been clouded: (8 Sheets)

a. ES1.2 - ENLARGED ELECTRICAL SITE PLAN
   - Added field level input jacks.
b. EA1.1 - POWER & LOW.VOLT. PLANS BUILDING A
   - Corrected ceiling mounted pa speaker symbol.
   - Removed duplicate PA speaker symbol in classroom A110.
c. EB1.1 - POWER & LOW. VOLT. PLAN BUILDING B
   - Corrected ceiling mounted PA speaker symbol.
d. EC1.1 - ELEC. PLANS BUILDING C
   - Added keynote 23.
   - Added additional electrical circuit and duplex at Stadium audio rack.
   - Changed roof receptacle circuit.
   - Added wireless mic input antennas.
e. EX0.1 - ELECTRICAL GENERAL NOTES & SYMBOLS
   - Modified TV symbol definition.
f. EX2.1 - ELECTRICAL SINGLE LINE DIAGRAM
   - Added the generator and ats reinstallation to the scope outline.
g. EX3.1 - ELECTRICAL LOW VOLTAGE DETAILS
   - Detail G10 corrected where the receptacle and plexiglass labels were pointing to.
   - Detail L5 corrected where the receptacle and plexiglass labels were pointing to.
   - Corrected spelling of Chatsworth.
   - Noted 4 duplex receptacles for audio system.
h. EX3.2 - ELECTRICAL LOW VOLTAGE DETAILS
   - Added sheet with additional details.

RFI RESPONSES:

3-10 PRE-BID RFI's:

a. PRE-BID RFI LOG: Refer to attached log. (9 pages)

GENERAL CLARIFICATIONS:

3-11 DOCEMENT 00300 BID FORM (1 page):

a. See revised new bid form.

END OF ADDENDUM NO. 03

Michael Schöen, Architect

SECTION 08 33 00

OVERHEAD COILING SERVICE DOORS

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Overhead coiling service doors; insulated and non-insulated.

1.02 RELATED SECTIONS

A. Section 05 50 00 - Metal Fabrications

B. Section 06 20 00 - Finish Carpentry

C. Section 08 71 00 - Door Hardware

D. Section 09 91 23 - Painting

E. Division 26 Electrical

1.03 REFERENCES

A. ASTM A 653 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

B. ASTM A 666 - Standard Specification for Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.

C. ASTM A 924 - Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.

D. ASTM B 221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

E. NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum).

F. NEMA MG 1 - Motors and Generators.

1.04 DESIGN / PERFORMANCE REQUIREMENTS

A. Overhead coiling service doors:

1. Wind Loads: Design door assembly to withstand wind/suction load of 20 psf (958 Pa) without damage to door or assembly components.
2. Operation: Design door assembly, including operator, to operate for not less than 20,000 cycles.

B. Single-Source Responsibility: Provide doors, tracks, motors, and accessories from one manufacturer for each type of door. Provide secondary components from source acceptable to manufacturer of primary components.

1.05 SUBMITTALS

A. Submit under provisions of Section 01 33 00 - Submittal Procedures.

B. Product Data: Manufacturer's data sheets on each product to be used, including:

1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Details of construction and fabrication.
4. Installation instructions.

C. Shop Drawings: Include detailed plans, elevations, details of framing members, anchoring methods, required clearances, hardware, and accessories. Include relationship with adjacent construction.

D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.

E. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) long, representing actual product, color, and patterns.

F. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

G. Operation and Maintenance Data: Submit lubrication requirements and frequency, and periodic adjustments required.

1.06 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in performing Work of this section with a minimum of five years experience in the fabrication and installation of security closures.

B. Installer Qualifications: Installer Qualifications: Company specializing in performing Work of this section with minimum three years and approved by manufacturer.

1.07 DELIVERY, STORAGE AND HANDLING

A. Store products in manufacturer's unopened packaging until ready for installation.

B. Protect materials from exposure to moisture. Do not deliver until after wet work is complete and dry.

C. Store materials in a dry, warm, ventilated weathertight location.

1.08 PROJECT CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.09 COORDINATION

A. Coordinate Work with other operations and installation of adjacent materials to avoid damage to installed materials.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Acceptable Manufacturer: Overhead Door Corp., 2501 S. State Hwy. 121, Suite 200, Lewisville, TX 75067. ASD. Tel. Toll Free: (800) 275-3290. Phone: (469) 549-7100. Fax: (972) 906-1499. Web Site: www.overheaddoor.com. E-mail: info@overheaddoor.com.

B. Substitutions: Cookson Company.

C. Requests for substitutions will be considered in accordance with provisions of Section 01 25 00 - Substitution Procedures.

2.02 ROLLING STEEL COUNTER DOORS

A. Light Commercial Doors: Overhead Door Corporation, 658 Series Coil-Away Service Doors.

1. Curtain: Interlocking roll-formed galvanized steel slats, flat crown profile type CAW, 24 gauge. End of each slat shall be locked from lateral movement by a staking lock system. (Galvanized alternate malleable end locks.)
2. Finish:

a. Curtain slats and hood shall be galvanized in accordance with ASTM A 653 and receive rust-inhibitive, roll coating process, including 0.2 mils thick baked-on prime paint, and 0.6 mils thick baked-on polyester top coat.

1) Powder coat: PowderGuard

a) PowderGuard Premium: Weather resistant polyester powder coat color as selected by the Architect Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer.

3. Weatherseals: Vinyl bottom seal.
4. Bottom Bar: Double angle bottom bar (standard).
5. Guides: Roll-formed galvanized steel shapes attached to continuous galvanized steel wall angle.

a. Finish: PowderGuard Zinc Finish for guides, bottom bar and head plate.

6. Brackets: Galvanized steel to support counterbalance and curtain.
7. Counterbalance: Helical torsion spring type housed in a steel tube or pipe barrel and supporting the curtain with deflection limited to 0.03 inch per foot of span. Spring tension shall be adjustable.
8. Hood: 24 gauge galvanized steel with intermediate supports as required.
9. Manual Operation:

   a. Chain hoist for doors over 100 SF.

10. Locking:

    a. Chain keeper locks for chain hoist operation.

11. Wall Mounting Condition: Between jambs mounting installed.

2.03 INSULATED OVERHEAD COILING SERVICE DOORS

A. Overhead Coiling Stormtite Insulated Service Doors: Overhead Door Corporation 625 Series.

1. Curtain: Interlocking roll-formed slats as specified following. Endlocks shall be attached to each end of alternate slats to prevent lateral movement.

   a. Flat profile type F-265i for doors up to 40 feet (12.19 m) wide.
   b. Front slat fabricated of:

      1) 22 gauge galvanized steel.

   c. Back slat fabricated of:

      1) 24 gauge galvanized steel.

   d. Slat cavity filled with CFC-free foamed-in-place, polyurethane insulation.

      1) R-Value: 7.7, U-Value: 0.13.
      2) Sound Rating: STC-21.

2. Finish:

   a. Galvanized Steel: Slats and hood galvanized in accordance with ASTM A 653 and receive rust-inhibitive, roll coating process, including 0.2 mils thick baked-on prime paint, and 0.6 mils thick baked-on polyester top coat.

      1) Powder coat: PowderGuard

         a) PowderGuard Premium: Weather resistant polyester powder coat color as selected by the Architect.

2) Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer.

3. Weatherseals:

   a. Vinyl bottom seal, exterior guide and internal hood seals.
   b. Interior guide weatherseal.
   c. Lintel weatherseal.

4. Bottom Bar:

   a. Two galvanized steel angles minimum thickness 1/8 inch (3 mm) bolted back to back to reinforce curtain in the guides.

5. Guides: Three Structural steel angles.

   a. Finish: PowderGuard Zinc Finish for guides, bottom bar and head plate.

6. Brackets:

   a. Galvanized steel to support counterbalance, curtain and hood.

7. Counterbalance: Helical torsion spring type housed in a steel tube or pipe barrel, supporting the curtain with deflection limited to 0.03 inch per foot of span. Counterbalance is adjustable by means of an adjusting tension wheel.
8. Hood: Provide with internal hood baffle weatherseal.

   a. 24 gauge galvanized steel with intermediate supports as required.

9. Manual Operation:

   a. Chain hoist.

10. Windload Design:

    a. Standard windload shall be 20 PSF.

11. Locking:

    a. Chain keeper locks for chain hoist operation.

12. Wall Mounting Condition:

    a. Between jambs mounting installed.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Verify opening sizes, tolerances and conditions are acceptable.

B. Examine conditions of substrates, supports, and other conditions under which this work is to be performed.

C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.02 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.03 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Use anchorage devices to securely fasten assembly to wall construction and building framing without distortion or stress.

C. Securely and rigidly brace components suspended from structure. Secure guides to structural members only.

D. Fit and align assembly including hardware; level and plumb, to provide smooth operation.

E. Coordinate installation of sealants and backing materials at frame perimeter as specified in Section 07 92 00 - Joint Sealants.

F. Install perimeter trim and closures.

G. Instruct Owner’s personnel in proper operating procedures and maintenance schedule.

3.04 ADJUSTING

A. Test for proper operation and adjust as necessary to provide proper operation without binding or distortion.

B. Adjust hardware and operating assemblies for smooth and noiseless operation.

3.05 CLEANING

A. Clean curtain and components using non-abrasive materials and methods recommended by manufacturer.

B. Remove labels and visible markings.

C. Touch-up, repair or replace damaged products before Substantial Completion.

3.06 PROTECTION

A. Protect installed products until completion of project.

END OF SECTION

SECTION 08 71 00

DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of Contract, including General and Supplementary Conditions of Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes items known commercially as finish or door hardware that are required for swing, sliding, and folding doors, except special types of unique hardware specified in the same sections as the doors and door frames on which they are installed.

B. Related Sections: The following sections are noted as containing requirements that relate to this Section, but may not be limited to this listing.
   1. Division 08: Section - Hollow Metal Doors and Frames.
   2. Division 08: Section - Flush Wood Doors.

1.3 REFERENCES

A. 2022 California Building Code, CCR Title 24, Part 2

B. BHMA - Builders' Hardware Manufacturers Association

C. DHI - Door and Hardware Institute

D. NFPA - National Fire Protection Association.
   1. NFPA 80 - Fire Doors and Other Opening Protectives
   2. NFPA 105 - Smoke and Draft Control Door Assemblies

E. UL - Underwriters Laboratories.
   1. UL 10C - Fire Tests of Door Assemblies
   2. UL 305 - Panic Hardware

F. WHI - Warnock Hersey Incorporated

G. SDI - Steel Door Institute

1.4 SUBMITTALS & SUBSTITUTIONS

A. General: Submit in accordance with Conditions of the Contract and Division 01 Specification sections.

B. Submit product data (catalog cuts) including manufacturers' technical product information for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.

C. Submit electronic PDF copies of schedule organized vertically into “Hardware Sets” with index of doors and headings, indicating complete designations of every item required for each door or opening. Include following information:

1. Include a Cover Sheet with:
   a. Job Name, location, telephone number.
   b. Architects name, location and telephone number.
   c. Contractors name, location, telephone number and job number.
   d. Suppliers name, location, telephone number and job number.
   e. Hardware consultant's name, location and telephone number.

2. Job Index information included:
   a. Numerical door number index including; door number, hardware heading number and page number.
   b. Complete keying information (referred to DHI hand-book "Keying Systems and Nomenclature"). Provision should be made in the schedule to provide keying information when available; if it is not available at the time the preliminary schedule is submitted.
   c. Manufacturers' names and abbreviations for all materials.
   d. Explanation of abbreviations, symbols, and codes used in the schedule.
   e. Mounting locations for hardware.
   f. Clarification statements or questions.
   g. Catalog cuts and manufacturer’s technical data and instructions.

3. Vertical schedule format sample:

Heading Number 1 (Hardware group or set number - HW Group #1)				
(a) 1 Single - Door #101 - Corridor 101 to Exterior			(b) 90°	(c) RH
(d) 3'-0" x 7'-0" x 1-3/4" - Wood Door x Hollow Metal Frame - 20 Minute				
(e) 1.	(f) 3 ea	(g) Hinges - (h) 5BB1 4.5 x 4.5 NRP (i) 1/2 TMS	(j) 630	(k) IVE
2.	1 ea	Lockset - ND80P6D x RHO x RH x 10-025 x JTMS	626	SCH
3.	1 ea	Closer - 4040XP x EDA x TBSRT	689	LCN

(a) Single or pair of doors with opening number and location.
(b) Degree of opening.
(c) Hand of door(s).
(d) Door/frame dimensions and material; Label requirements, if any.
(e) Hardware item line # (Optional).
(f) Quantity.
(g) Product description.
(h) Product part number.
(i) Fastenings and other pertinent information.
(j) Hardware finish codes per ANSI/BHMA A156.18.
(k) Manufacturer abbreviation.

D. Make substitution requests in accordance with Division 01. Substitution requests must be made prior to bid date. Include product data and indicate benefit to the project. Furnish samples of any proposed substitution.

E. Keying Schedule: Submit separate detailed schedule indicating clearly how the Owner's final instructions on keying of locks has been fulfilled.

F. Templates for doors, frames, and other work specified to be factory prepared for the installation of door hardware. Check shop drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.

G. Furnish as-built/as-installed schedule with close-out documents, including keying schedule and transcript, wiring/riser diagrams, manufacturers' installation and adjustment and maintenance information.

H. Fire Door Assembly Testing: Submit a written record of each fire door assembly to the Owner to be made available to the Authority Having Jurisdiction (AHJ) for future building inspections.

I. LEED Certification Points: Submit information and certifications necessary to achieve maximum points for LEED certification; coordinate and cooperate with Owner and Architect in providing information necessary for required LEED rating.

1.5 QUALITY ASSURANCE

A. Obtain each type of hardware (latch and lock sets, hinges, closers, exit devices, etc.) from a single manufacturer.

B. Supplier Qualifications: A recognized architectural door hardware supplier, with warehousing facilities in the project's vicinity, that has a record of successful in-service performance for supplying door hardware similar in quantity, type, and quality to that indicated for this project and that employs an experienced architectural hardware consultant (AHC) who is available to Owner, Architect, and Contractor, at reasonable times during the course of the Work, for consultation.
   1. Responsible for detailing, scheduling and ordering of finish hardware.
   2. Meet with Owner to finalize keying requirements and to obtain final instructions in writing.
   3. Stock parts for products supplied and are capable of repairing and replacing hardware items found defective within warranty periods.

C. Hardware Installer: Company specializing in the installation of commercial door hardware with five years documented experience.

D. Fire-Rated Openings: Provide door hardware for fire-rated openings that complies with NFPA 80 and requirements of authorities having jurisdiction. Provide only items of door hardware that are listed and tested by UL or Warnock Hersey for given type/size opening and degree of label. Provide proper latching hardware, door closers, approved-bearing hinges and seals whether listed in the Hardware Schedule or not.
   1. Where emergency exit devices are required on fire-rated doors, (with supplementary marking on doors' UL labels indicating "Fire Door to be Equipped with Fire Exit Hardware") provide UL label on exit devices indicating "Fire Exit Hardware".

E. Exit Doors: Operable from inside with single motion without the use of a key or special knowledge or effort.

F. Product packaging to be labelled in compliance with CA Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986.

1.6 DELIVERY, STORAGE AND HANDLING

A. Coordinate delivery of packaged hardware items to the appropriate locations (shop or field) for installation.

B. Hardware items shall be individually packaged in manufacturers' original containers, complete with proper fasteners. Clearly mark packages on outside to indicate contents and locations in hardware schedule and in work.

C. Provide locked storage area for hardware, protect from moisture, sunlight, paint, chemicals, etc.

D. Contractor to inventory door hardware jointly with representatives of hardware supplier and hardware installer until each all are satisfied that count is correct.

1.7 WARRANTY

A. Provide warranties of respective manufacturers' regular terms of sale from day of final acceptance as follows:
1. Locksets: Ten (10) years.
2. Exit devices: Three (3) years.
3. Closers: Thirty (30) years.
4. All other hardware: Two (2) years.

1.8 MAINTENANCE

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

1.9 PRE-INSTALLATION CONFERENCE

A. Convene a pre-installation conference at least one week prior to beginning work of this section.

B. Attendance: Architect, Construction Manager, Contractor, Security Contractor, Hardware Supplier, Installer, Key Owner's Personnel, and Project Inspector.

C. Agenda: Review hardware schedule, products, installation procedures and coordination required with related work. Review Owner's keying standards.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

Item	Manufacturer	Acceptable Substitutes
Hinges	Ives	Hager, Stanley, McKinney
Locks, Latches & Cylinders	Schlage	None – District Standard
Exit Devices	Von Duprin	None – District Standard
Closers	LCN	None – District Standard
Push, Pulls & Protection Plates	Ives	Trimco, BBW, DCI
Flush Bolts	Ives	Trimco, BBW, DCI
Coordinators	Ives	Trimco, BBW, DCI
Door Stops	Ives	Trimco, BBW, DCI
Overhead Stops	Glynn-Johnson	Or Approved Equal

Thresholds	Zero	Pemko, National Guard
Seals & Bottoms	Zero	Pemko, National Guard

2.2 MATERIALS

A. Hinges:
1. Provide hinges conforming to ANSI/BHMA A156.1.
2. Hinges shall be sized in accordance with the following:
   a. Height:
      1) Doors up to 42" wide: 4-1/2 inches.
      2) Doors 43" to 48" wide: 5 inches.
   b. Width: Sufficient to clear frame and trim when door swings 180 degrees.
   c. Number of Hinges: Provide 3 hinges per leaf to 7'-5" in height. Add one for each additional 2 feet in height.
3. Exterior out-swinging hinges shall be non-ferrous material and shall have stainless steel hinge pins. All doors to have non-rising pins.
4. Furnish non-removable pins (NRP) at all exterior out-swing doors and interior key lock doors with reverse bevels.

B. Continuous Hinges:
1. Provide aluminum geared continuous hinges fabricated from 6063-T6 aluminum conforming to ANSI/BHMA A156.26, Grade 1.
2. Provide split nylon bearings at each hinge knuckle for quiet, smooth, self-lubricating operation.
3. Provide continuous hinges capable of supporting door weights up to 450 pounds, and successfully tested for 1,500,000 cycles.
4. Provide continuous hinges 1” shorter in length than nominal height of door, unless otherwise noted, with symmetrical hole pattern.
5. Install continuous hinges with fasteners supplied by manufacturer.

C. Heavy Duty Cylindrical Locks and Latches: Schlage "ND" Series as scheduled with "Rhodes" lever design.
1. Provide cylindrical locks conforming to ANSI/BHMA A156.2 Series 4000, Grade 1, and UL Listed for 3 hour fire doors.
2. Provide cylindrical locksets exceeding the ANSI/BHMA A156.2 Grade 1 performance standards for strength, security, and durability in the categories below:
   a. Abusive locked lever torque – minimum 3,100 inch-pounds without gaining access.
   b. Offset lever pull – minimum 1,600 foot pounds without gaining access.
   c. Vertical lever impact – minimum 100 impacts without gaining access.
   d. Cycle Test – tested to minimum 16 million cycles with no visible lever sag; without the use of performance aids such as set screws or spacers.
3. Cylinders: Refer to “KEYING” article, herein.
4. Provide locks with standard 2-3/4” backset, unless noted otherwise, with 1/2” latch throw. Provide proper latch throw for UL listing at pairs.
5. Provide locksets with separate solid steel anti-rotation thru-bolts, and no exposed screws.
6. Provide independently operating levers with two external return spring cassettes mounted under roses to prevent lever sag.
7. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
8. Lever Trim: Solid cast levers without plastic inserts and wrought roses on both sides.
9. Provide levers with vandal resistant technology as scheduled for use at abusive applications.

D. Exit devices: Von Duprin as scheduled.
1. Provide exit devices tested to ANSI/BHMA A156.3 Grade 1 and UL listed for Panic Exit or Fire Exit Hardware.

2. Provide certificate by independent testing laboratory that device has completed over 1,000,000 cycles and can still meet ANSI/BHMA A156.3 standards.
3. Provide touchpad type exit devices, fabricated of brass, bronze, stainless steel, or aluminum, plated to standard architectural finishes to match balance of door hardware.
4. Provide exit devices cut to door width and height. Touchpad must extend a minimum of one half of door width. No plastic inserts are allowed in touchpads.
5. Mount mechanism case flush on face of doors, or provide spacers to fill gaps behind devices. Where glass trim or molding projects off face of door, provide glass bead kits.
6. Provide flush end caps for exit devices.
7. Exit devices shall comply with CBC Section 11B-404.2.7 and shall be mounted between 34" and 44" above the finished floor surface.
8. Provide exit devices UL certified to meet 5 lbs. maximum unlatching force requirements according to the CBC Section 11B-309.4.
9. Cylinders: Refer to “KEYING” article, herein.
10. Provide cylinder dogging as specified at non fire-rated openings. Provide cylinder dogging indicators (CDSI) for visible indication of dogging status as specified.
11. Removable Mullions: Provide type that can be removed by use of a keyed cylinder, which is self-locking when re-installed.
12. Provide factory drilled weep holes for exit devices used in full exterior application, highly corrosive areas, and where noted in hardware sets.
13. Provide exit devices with deadlatching feature for security and for future addition of alarm kits and/or other electrified requirements.
14. Provide exit devices with optional trim designs to match other lever and pull designs used on the project.
15. Provide exit devices with manufacturer’s approved strikes.
16. Panic hardware shall not be provided with “Night Latch” (NL) function for any accessible doors or gates unless the following conditions are met per DSA Interpretation 10-08 DSA/AC. Such conditions must be clearly demonstrated and indicated in the specification:
    a. Panic hardware contains a “dogging” feature and during the time the facility is open the panic hardware shall be “dogged”.
    b. The act of “dogging” a door in the open position shall only be performed by employees as a part of their job function (non-public use).

E. Closers: LCN as scheduled.
1. Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory. ISO 9000 certify closers. Stamp units with date of manufacture code.
2. Provide door closers with fully hydraulic, full rack and pinion action with high strength cast iron cylinder, and full complement bearings at shaft.
3. Provide certificate by independent testing laboratory that door closers have completed over 10,000,000 cycles and can still meet ANSI/BHMA A156.4 standards.
4. Cylinder Body: 1-1/2” diameter with 3/4” diameter double heat-treated pinion journal.
5. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120° F to -30° F.
6. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards.
7. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and backcheck.
8. Provide closers with solid forged steel main arms and factory assembled heavy-duty forged forearms for parallel arm closers.
9. Pressure Relief Valve (PRV) Technology: Not permitted.
10. Provide door closers powder coated to match balance of door hardware. Powder coating finish shall be certified to exceed 100 hours salt spray testing as described in ANSI/BHMA A156.4 and ASTM B117.

11. Provide special rust inhibitor (SRI) in highly corrosive areas, and where noted in hardware sets.
12. Provide special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.

F. Flush Bolts & Dust Proof Strikes:
1. Automatic flush bolts shall be of the low operating force design.
2. Provide top bolt only model for interior doors where applicable and as permitted by testing procedures.
3. Provide dust proof strikes at openings using bottom bolts.
4. Manual flush bolts shall only be permitted on storage or mechanical openings, as scheduled.

G. Door Stops:
1. Unless otherwise noted in hardware sets, provide wall type with appropriate fasteners. Where wall type cannot be used, provide floor type. If neither can be used, provide overhead type.
2. Do not install floor stops more than four (4) inches from the face of the wall or partition (CBC Section 11B-307).
3. Provide backing plate at wall framing behind wall type.
4. Overhead stops shall be made of stainless steel and non-plastic mechanisms and finished metal end caps. Field-changeable hold-open, friction and stop-only functions. Stop-only function shall be provided at fire-rated openings.

H. Protection Plates:
1. Provide kick, mop, and/or armor plates minimum of 0.050” thick, with four beveled edges. Furnish with sheet metal or wood screws, finished to match plates.
2. Kick plates shall be sized 10" high and 2" less door width (LDW) at single doors and 10” high and 1” LDW at pairs or doors.
3. Provide mop and armor plates with sizes as scheduled in hardware sets.

I. Thresholds: As scheduled and per details.
1. Thresholds shall not exceed 1/2" in height, with a beveled surface of 1:2 maximum slope. Thresholds shall comply with CBC Section 11B-404.2.5.
2. Set thresholds in a full bed of butyl-rubber or polyisobutylene mastic sealant complying with requirements in Division 07 “Thermal and Moisture Protection”.
3. Use 1/4” fasteners, red-head flat-head sleeve anchors (SS/FHSL).

J. Seals: Provide silicone gasket at all rated and exterior doors.
1. Smoke & Draft Control Doors: Provide UL10C Classified gasketing that complies with NFPA 80 & NFPA 252 for use on “S” labeled Positive Pressure door assemblies.

K. Silencers: Furnish silencers for interior hollow metal frames, 3 for single doors, 2 for pairs of doors. Omit where sound or light seals occurs, or for fire-resistive-rated door assemblies.

2.3 KEYING

A. Furnish a proprietary Schlage Primus masterkey system as directed by the Madera Unified School District lock shop to match existing key system. Key system to be designated and combinated by the Schlage Master Key Department even if pinned by the Authorized Key Center, Authorized Security Center or a local authorized commercial dealer.

B. A detailed keying schedule is to be prepared by the District lock shop in consultation with a representative of Allegion or an Authorized Key Center or Authorized Security Center. Each

keyed cylinder on every keyed lock is to be listed separately showing the door #, key group (in BHMA terminology), cylinder type, finish and location on the door.

C. Furnish all cylinders in the Schlage Full Size Interchangeable Core (FSIC) format. Pack change keys independently (PKI). Verify Primus keyway with District lock shop.

D. Furnish construction keying for doors requiring locking during construction.

E. Furnish all keys with visual key control.
   1. Stamp key “Do Not Duplicate”.
   2. Stamp (BHMA) key symbol on key.
   3. Stamp unique owner identifier from the key bow.

F. Furnish mechanical keys as follows:
   1. Furnish 2 cut change keys for each different change key code.
   2. Furnish 1 uncut key blank for each change key code.
   3. Furnish 6 cut masterkeys for each different masterkey set.
   4. Furnish 3 uncut key blanks for each masterkey set.
   5. Furnish 2 cut control keys cut to the top masterkey for permanent I/C cylinders.
   6. Furnish 1 cut control key cut to each SKD combination.

G. Furnish Schlage Padlocks and the cylinders to tie them into the masterkey system for gates, storage boxes, utility valve security, roof hatches and roll-up doors keyed as directed in the keying schedule.
   1. Furnish KS43F3200 padlock for use with FSIC Schlage cylinders. Furnish 20-740 Primus core with padlock above.

H. Furnish one Schlage cabinet lock for each cabinet door or drawer so designated on the drawings or keying schedule to match the masterkey system.
   1. Furnish CL777R for use with FSIC Schlage cylinders.

2.4 FINISHES

A. Generally to be satin chrome US26D (626 on bronze and 652 on steel) unless otherwise noted.

B. Furnish push plates, pull plates and kick or armor plates in satin stainless steel US32D (630) unless otherwise noted.

C. Door closers shall be powder-coated to match other hardware, unless otherwise noted.

D. Aluminum items to be finished anodized aluminum except thresholds which can be furnished as standard mill finish.

2.5 FASTENERS

A. Screws for strikes, face plates and similar items shall be flat head, countersunk type, provide machine screws for metal and standard wood screws for wood.

B. Screws for butt hinges shall be flathead, countersunk, full-thread type.

C. Fastening of closer bases or closer shoes to doors shall be by means of sex bolts and spray painted to match closer finish.

D. Provide expansion anchors for attaching hardware items to concrete or masonry.

E. All exposed fasteners shall have a phillips head.

F. Finish of exposed screws to match surface finish of hardware or other adjacent work.

G. All Exit Devices and Lock Protectors shall be fastened to the door by the means of sex bolts or through bolts.

PART 3 - EXECUTION

3.1 INSPECTION

A. Verify that doors and frames are square and plumb and ready to receive work and dimensions are as instructed by the manufacturer.

B. Beginning of installation means acceptance of existing conditions.

3.2 INSTALLATION

A. Install hardware in accordance with manufacturer's instructions and requirements of DHI.

B. Use the templates provided by hardware item manufacturer.

C. Mounting heights for hardware shall be as recommended by DHI. Operating hardware shall be located between 34" and 44" above finish floor to comply with CBC Section 11B-404.2.7.

D. Door Closers:
1. Place door closers inside building, stairs, rooms, etc. Closers shall be installed to permit doors to swing 180 degrees or maximum allowable by conditions.
2. Maximum effort to operate closers shall not exceed 5 lbs., such pull or push effort being applied at right angles to hinged doors.
3. When fire doors are required, the maximum effort to operate the closer may be increased but shall not exceed 15 lbs. when specifically approved by fire marshal.
4. All closers shall be adjusted to operate with the minimum amount of opening force and still close and latch the door. These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door in a closed position.
5. Compensating devices or automatic door operators may be utilized to meet the above standards.
6. Per CBC Section 11B-404.2.8.1, doors shall take minimum of 5 seconds to move from an open position of 90 degrees to 12 degrees to the latch jamb.

E. Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.

F. Drill and countersink units that are not factory-prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.

G. Set thresholds for exterior doors in full bed of butyl-rubber sealant.

H. If hand of door is changed during construction, make necessary changes in hardware at no additional cost.

3.3 ADJUST AND CLEAN

A. Adjust and check each operating item of hardware and each door, to ensure proper operation or function of every unit. Replace units which cannot be adjusted to operate freely and smoothly as intended for the application made.

B. Clean adjacent surface soiled by hardware installation.

C. Final Adjustment: Wherever hardware installation is made more than one month prior to acceptance or occupancy, return to that work area and make final check and adjustment of all hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to compensate for final operation of heating and ventilating equipment.

D. Instruct Owner's Personnel in proper adjustment and maintenance of hardware finishes, during the final adjustment of hardware.

E. Continued Maintenance Service: Approximately six months after the completion of the project, the Contractor accompanied by the Architectural Hardware Consultant, shall return to the project and re-adjust every item of hardware to restore proper functions of doors and hardware. Consult with and instruct Owner's personnel in recommended additions to the maintenance procedures. Replace hardware items which have deteriorated or failed due to faulty design, materials or installation of hardware units. Prepare a written report of current and predictable problems (of substantial nature) in the performance of the hardware.

3.4 HARDWARE LOCATIONS

A. Conform to CCR, Title 24, Part 2; and ADAAG; and the drawings for access-compliant positioning requirements for the disabled.

3.5 FIELD QUALITY CONTROL

A. Contractor is responsible for providing the services of an Architectural Hardware Consultant (AHC) or a proprietary product technician to inspect installation and certify that hardware and its installation have been furnished and installed in accordance with manufacturers' instructions and as specified herein.

3.6 HARDWARE SCHEDULE

A. The items listed in the following schedule shall conform to the requirements of the foregoing specifications.

B. While the hardware schedule is intended to cover all doors, and other movable parts of the building, and establish type and standard of quality, the contractor is responsible for examining the Plans and Specifications and furnishing proper hardware for all openings whether listed or not. If there are any omissions in hardware groups in regard to regular doors they shall be called to the attention of the Architect prior to bid opening for instruction; otherwise, list will be considered Complete. No extras will be allowed for omissions.

C. The Door Schedule on the Drawings indicates which hardware set is used with each door.

MANUFACTURERS ABBREVIATIONS

IVE	=	Ives	Hinges, Flush Bolts, Door Stops, Kick Plates & Silencers
LCN	=	LCN	Door Closers

SCH	=	Schlage Lock	Locks, Latches & Cylinders
VON	=	Von Duprin	Exit Devices
ZER	=	Zero International	Thresholds, Gasketing & Weather-stripping

HW GROUP NO. 01

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY	628	IVE
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-NL	626	VON
1	EA	RIM CYLINDER	20-057 ICX	626	SCH
1	EA	MORTISE CYLINDER	26-091 ICX XQ11-948	626	SCH
2	EA	PRIMUS CORE	20-740	626	SCH
1	EA	SURFACE CLOSER	4040XP EDA TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP/HOLDER	FS43	626	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER

HW GROUP NO. 02

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY	628	IVE
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-NL	626	VON
1	EA	RIM CYLINDER	20-057 ICX	626	SCH
1	EA	MORTISE CYLINDER	26-091 ICX XQ11-948	626	SCH
2	EA	PRIMUS CORE	20-740	626	SCH
1	EA	SURFACE CLOSER	4040XP SHCUSH TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER

HW GROUP NO. 03

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY	628	IVE
1	EA	VANDL CLASSROOM SEC	ND98TD RHO IS-CRS	626	SCH
2	EA	PRIMUS CORE	20-740	626	SCH
1	EA	SURFACE CLOSER	4040XP EDA TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP/HOLDER	FS43	626	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER

HW GROUP NO. 04

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY	628	IVE
1	EA	VANDL CLASSROOM SEC	ND98TD RHO IS-CRS	626	SCH
2	EA	PRIMUS CORE	20-740	626	SCH
1	EA	SURFACE CLOSER	4040XP SHCUSH TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER

HW GROUP NO. 05

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY	628	IVE
1	EA	VANDL CLASSROOM LOCK	ND94TD RHO	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	SURFACE CLOSER	4040XP EDA TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP/HOLDER	FS43	626	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER

HW GROUP NO. 06

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	VANDL STOREROOM LOCK	ND96TD RHO	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	SURFACE CLOSER	4040XP EDA TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS18S	BLK	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER

HW GROUP NO. 07

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	VANDL STOREROOM LOCK	ND96TD RHO	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	SURFACE CLOSER	4040XP SHCUSH TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER

HW GROUP NO. 08

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	FAC RESTRM W/IND CYL	ND85PD RHO	626	SCH
1	EA	PERMANENT CYLINDER	23-000	626	SCH
1	EA	SURFACE CLOSER	4040XP EDA TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS18S	BLK	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER

HW GROUP NO. 09

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	FAC RESTRM W/IND CYL	ND85PD RHO	626	SCH
1	EA	PERMANENT CYLINDER	23-000	626	SCH
1	EA	SURFACE CLOSER	4040XP SCUSH TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER

HW GROUP NO. 10

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	224XY	628	IVE
1	EA	CONST LATCHING BOLT	FB51P	630	IVE
1	EA	DUST PROOF STRIKE	DP1/DP2	626	IVE
1	EA	VANDL STOREROOM LOCK	ND96TD RHO	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	SURFACE CLOSER	4040XP EDA TBSRT (ON ACTIVE LEAF ONLY)	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	FLOOR STOP/HOLDER	FS43	626	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
2	EA	DOOR SWEEP	39A	A	ZER
1	EA	ASTRAGAL	43SP	SP	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER

HW GROUP NO. 11

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	CLASSROOM SECURITY	ND78TD RHO IS-CRS	626	SCH
2	EA	PRIMUS CORE	20-740	626	SCH
1	EA	SURFACE CLOSER	4040XP RW/PA TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP/HOLDER	WS45	626	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER

HW GROUP NO. 12

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	ENTRANCE/OFFICE LOCK	ND50TD RHO	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS436	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

HW GROUP NO. 13

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	PRIVACY LOCK W/ IND	ND40S RHO OS-OCC	626	SCH
1	EA	SURFACE CLOSER	4040XP TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER

HW GROUP NO. 14

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	PRIVACY LOCK W/ IND	ND40S RHO OS-OCC	626	SCH
1	EA	SURFACE CLOSER	4040XP SCUSH TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER

HW GROUP NO. 15

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	ADA STOREROOM LOCK	ND81TD RHO	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS436	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

HW GROUP NO. 16

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	MANUAL FLUSH BOLT	FB358	626	IVE
1	EA	ADA STOREROOM LOCK	ND81TD RHO	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	FLOOR STOP	FS436	626	IVE
2	EA	SILENCER	SR64	GRY	IVE

HW GROUP NO. 17

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	MORTISE/RIM CYLINDER	SCHLAGE TYPE AS REQUIRED		SCH
1	EA	PRIMUS CORE	20-740	626	SCH
			BALANCE OF HARDWARE BY ROLL-UP DOOR MFR		

END OF SECTION 08 71 00

SECTION 09 67 23.20 RESINOUS FLOORING

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes:
   1. High-performance resinous flooring systems.

B. Related Sections:
   1. Division 03 sections.
   2. Division 09 sections.

C. Reference Standards
   1. 2022 California Building Code:
      a. California Building Standards Administrative Code, Part 1, Title 24 CBSC.

1.3 SUBMITTALS

A. Product Data: For each type of product include manufacturer’s technical data, application instructions, and recommendations for each resinous flooring component required.

B. Samples for Initial Selection: For each type of exposed finish required.

C. Samples for Verification: Submit two 6” X 6” samples of each resinous flooring system applied to a rigid backing. Provide sample which is a true representation of proposed field applied finish. Provide sample color and texture for approval from Owner in writing prior to installation.

D. Shop Drawings: Include details of materials, construction and finish. Include relationship with adjacent construction.

E. Installer Certificates: Signed by manufacturer certifying that installers comply with specified requirements.

F. Material Certificates: For each resinous flooring component, from manufacturer.

G. Material Test Reports: For each resinous flooring system, by a qualified testing agency.

H. Maintenance Data: For resinous flooring to include in maintenance manuals.

1.4 PERFORMANCE REQUIREMENTS

A. VOC Content of Liquid-Applied Flooring Components: Not more than 100 g/L when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

B. Low-Emitting Materials: Flooring system shall comply with the testing and product requirements of the California Department of Public Health's (formerly, the California

Department of Health Services') Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers.

C. Flammability: Self-extinguishing according to ASTM D635.

D. System Chemical Resistance:
1. Test specimens of cured resinous flooring system are unaffected when tested according to ASTM D1308 for 50 percent immersion for no fewer than seven (7) days.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: An authorized representative who is trained and approved by manufacturer:
1. Engage an installer who is certified in writing by resinous flooring manufacturer as qualified to apply resinous flooring systems indicated.

B. Mock-Up: Construct a mock-up with actual materials in sufficient time for Architect's review and to not delay construction progress. Locate mock-up as acceptable to Architect and provide temporary foundations and support.
1. Intent of mock-up is to demonstrate quality of workmanship and visual appearance.
2. If mock-up is not acceptable, rebuild mock-up until satisfactory results are achieved.
3. Retain mock-up during construction as a standard for comparison with completed work.
4. Do not alter or remove mock-up until work is completed or removal is authorized.

C. Pre-Installation Meetings:
1. Pre-installation conference: Conduct pre-job conference with representatives of Owner, Contractor, applicator and material manufacturer in attendance:
a. The agenda shall include a review and clarification of this specification, application procedures, quality control, inspection and acceptance criteria, and production schedules.
2. Contractor is not authorized to proceed until this meeting is held or waived by Owner.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in original packages and containers, with seals unbroken, bearing manufacturer's labels indicating brand name and directions for storage and mixing with other components.
1. Maintain containers in clean condition, free of foreign materials and residue.
2. Remove rags and waste from storage areas daily.

1.7 PROJECT CONDITIONS

A. Apply flooring system under the following ambient conditions:
1. Ambient and Concrete Floor Temperatures: Between 65 and 85 degrees F (18 and 29 degrees C).
2. Material Temperature: Between 65 and 85 degrees F (18 and 29 degrees C).
3. Relative Humidity: Maximum 80 percent.
4. Dew Point: Floor temperature more than 5 degrees over dew point.

B. Lighting: Provide permanent lighting or, if permanent lighting is not in place, simulate permanent lighting conditions during resinous flooring application.

C. Close spaces to traffic during resinous flooring application and for not less than 24 hours

after application unless manufacturer recommends a longer period.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Source Limitations: Obtain primary resinous flooring materials, including primers, resins, hardening agents, grouting coats, and topcoats, from single source from single manufacturer. Obtain secondary materials, including patching and fill material, joint sealant, and repair materials, of type and from manufacturer recommended in writing by manufacturer of primary materials.
   1. Basis of design: The Sherwin Williams Company.
      a. Resuflor Performance HTS
   2. Alternative manufacturers subject to compliance with the design requirements.

2.2 RESUFLOR PERFORMANCE HTS

1. Primer Coat: Resuflor MPE Clear, 300 sf a gal.
2. Build Coat: Resuflor MPE, 100 sf a gal with aluminum oxide.
3. Topcoat: Resutile HTS 100, 3 mils.

B. Color: As selected by Architect from manufacturer's full range

C. Location: Locker Rooms.

2.3 SYSTEM PROPERTIES

A. Resuflor Performance HTS
   1. Abrasion Resistance Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 gram load, 1,000 revolutions, ASTM D4060, 18 mg/loss
   2. Adhesion to Concrete, psi (MPa), ASTM D4541, 450 [3.10] (concrete failed)
   3. Adhesion to concrete, psi [MPa], ASTM D7234, 732[4.48] (concrete failed)
   4. Coefficient of Friction-COF, James Friction Tester, ASTM D2047, 0.63
   5. Coefficient of Friction-Wet Static, BOT 3000, ANSI/NFSI B101.1, 0.94
   6. Compressive Strength, psi [MPa], ASTM D695, 13,500 [93.08]
   7. Flammability, mm/min, ASTM D635, 182
   8. König Hardness 93 mil/0.08 mm film), ASTM D4366, 171.3
   9. Resistance to Yellowing as measured using ASTM D2244 after 1000 consecutive hours UV exposure in QUV, ASTM G154, <10 increase of yellow units (CIE Lab Δ) if pigmented topcoat
   10. Shore D Hardness, ASTM D2240, 80-85 @ 0 sec|75-80 @ 15 sec
   11. Tensile Strength, psi [MPa], ASTM D2370, 6,250 [43.09]
   12. Percent Elongation, ASTM D2370, 6%
   13. Volatile Organic Compound, VOC lb./gal [g/l], ASTM D3960, Resuflor MPE A+B=0.41 [49] Resutile HTS 100 A+B=0.05 [6]
   14. Water Absorption, 24- hour immersion, ASTM C413, 0.2% weight increase

2.4 PRODUCT PROPERTIES

A. Resuflor MPE: A neutral, two-component, high solids epoxy.
   1. Percent Solids, by weight (by volume), ASTM D1475, A + B: 95.45 (94.56).
   2. Volatile Organic Compound-VOC, ASTM D3960, Mixed A + B: 0.41 lb./gal (49 g/L).
   3. Abrasion Resistance, mg loss, Taber Abraser, C-17 Taber Abrasion Wheel, 1,000 gram load, 1,000 revolutions, ASTM D4060: 83.1.

4. Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.59-0.62.
5. Adhesion to Concrete, ASTM D5441: 732 psi (4.48 MPa) concrete failed.
6. Adhesion to Concrete, ASTM D7234: 450 psi (3.10 MPa) concrete failed.
7. Compressive Strength, ASTM D695: 13,500 psi (93.079 MPa).
8. Tensile Strength, ASTM D2370: 8,000 psi (55.158 MPa).
9. Percent Elongation, ASTM D2370: 5.
10. Shor D Hardness, ASTM D2240: 80-85 at 0 sec, 75-80 at 15 sec.

B. Resutile HTS 100: A clear high solids, three-component, satin finish, aliphatic, moisture-cure urethane.
1. Percent Solids, by weight (by volume), ASTM D2369, A + B + C: 94.02 (92.57).
2. Volatile Organic Compound-VOC, ASTM D3960, Mixed A + B + C: 0.05 lb/gal (6 g/L).
3. Abrasion Resistance, mg loss, Taber Abraser, C-17 Taber Abrasion Wheel, 1,000 gram load, 1,000 revolutions, ASTM D4060: 18.
4. Coefficient of Friction-COF, James Friction Tester, ASTM D2047: 0.63.
5. Wet Static Coefficient of Friction, BOT 3000, ANSI/NFSI B101.1: 0.94.
6. Flammability, ASTM G154: 182 mm/min.
7. Resistance to Yellowing as measured using ASTM D2244 after 1000 consecutive hours UV exposure in QUV, ASTM G154, Less than 10 increase of yellow units (CIE Lab Δb)
8. Tensile Strength, (resin only), ASTM D2370: 6,250 psi (43,092 MPa).
9. Percent Elongation, (resin only), ASTM D2370: 6.
10. König Hardness, (3 mil/76.2 micron film), ASTM D4366: 171.3.

PART 3 EXECUTION

3.1 FIELD CONDITIONS

A. Examine concrete surfaces to receive flooring system. Verify concrete is structurally sound.

B. Moisture Testing of Concrete: Perform at least one of the following two tests to determine moisture in concrete. Type of test and frequence as recommended by manufacturer and installer.
1. In-situ Probe Test:
1) Measure relative humidity in concrete in accordance with ASTM F 2170.
2) Application of flooring system shall start only if test results are below 75 percent relative concrete humidity.
3) If test results are above limits, notify Architect and flooring manufacturer in writing.

C. Do not begin preparation or installation until satisfactory moisture test results are achieved. Provide flooring manufacturer's recommended moisture vapor control coating if required.

3.2 PREPARATION

A. Prepare and clean substrates according to resinous flooring manufacturer's written instructions for substrate indicated. Provide clean, dry substrate for resinous flooring application.

B. Concrete Substrates:
1. Provide sound concrete surfaces free of laitance, glaze, efflorescence, curing compounds, form-release agents, dust, dirt, grease, oil, and other contaminants incompatible with resinous flooring.
2. Roughen concrete substrates as follows:

a. Shot-blast surfaces with an apparatus that abrades the concrete surface, contains the dispensed shot within the apparatus, and recirculates the shot by vacuum pickup.
b. Comply with manufacturer's written instructions.

3. Repair damaged and deteriorated concrete according to resinous flooring manufacturer's written instructions.
4. Verify that concrete substrates are dry and moisture-vapor emissions are within acceptable levels according to manufacturer's written instructions. Provide moisture vapor resistant primer when test results are above minimum requirements:
   a. Anhydrous calcium chloride test: ASTM F 1869. Proceed with application of resinous flooring only after substrates have maximum moisture-vapor-emission rate of three (3) pounds of water per 1,000 square feet of slab area in 24 hours.
   b. Relative humidity test: Use in situ probes, ASTM F2170. Proceed with installation only after substrates have a maximum 75 percent relative humidity level measurement.
   c. Alkalinity and adhesion testing: Verify that concrete substrates have pH within acceptable range. Perform tests recommended by manufacturer. Proceed with application only after substrates pass testing.

C. Patching and Filling:
1. Use patching and fill material to fill holes and depressions in substrates according to manufacturer's written instructions:
   a. Control joint treatment: Treat control joints and other nonmoving substrate cracks to prevent cracks from reflecting through resinous flooring according to manufacturer's written instructions.

D. Resinous Materials: Mix components and prepare materials according to resinous flooring manufacturer's written instructions.

3.3 APPLICATION

A. Install flooring system in accordance with manufacturer’s instructions and approved submittals at locations indicated on the Drawings.

B. Ensure concrete is dry, clean, and prepared in accordance with manufacturer’s instructions.

C. Allow concrete to cure a minimum of 7 days before applying flooring system.

D. Mixing:
1. Mix material components together in accordance with manufacturer’s instructions.
2. Mix only enough material that can be applied within working time.
3. Add and mix colorants with materials in accordance with manufacturer’s instructions to achieve uniform color.

E. Apply flooring system materials to obtain consistent mil thickness and smooth, uniform appearance and texture.

F. Overlay: Apply overlay in accordance with manufacturer’s instructions. Apply overlay to prepared concrete surface.

G. Traction Aggregate: Broadcast traction aggregate in accordance with manufacturer’s instructions. Broadcast traction aggregate into wet overlay.

H. Cove:

1. Apply cove primer and cove in accordance with manufacturer's instructions at locations indicated on the Drawings.
2. Apply cove to height and shape as indicated on the Drawings.
3. Apply cove to create seamless, smooth transition between flooring and walls.

I. Seal Coat:
1. Apply seal coat in accordance with manufacturer's instructions.
2. Apply seal coat over traction aggregate.

J.

3.4 FIELD QUALITY CONTROL

A. Material Sampling:
1. Owner may, at any time and any number of times during resinous flooring application, require material samples for testing for compliance with requirements:
   a. Owner will engage an independent testing agency to take samples of materials being used. Material samples will be taken, identified, sealed, and certified in presence of Contractor.
   b. Testing agency will test samples for compliance with requirements, using applicable referenced testing procedures or, if not referenced, using testing procedures listed in manufacturer's product data.
   c. If test results show applied materials do not comply with specified requirements, pay for testing, remove noncomplying materials, prepare surfaces coated with unacceptable materials, and reapply flooring materials to comply with requirements.

B. Core Sampling: At the direction of Owner and at locations designated by Owner, take one (1) core sample per 1,000 square feet (92.9 sq. m.) of resinous flooring, or portion of, to verify thickness. For each sample that fails to comply with requirements, take two (2) additional samples. Repair damage caused by coring. Correct deficiencies in installed flooring as indicated by testing.

3.5 PROTECTION

A. Protect resinous flooring from damage and wear during the remainder of construction period. Use protective methods and materials, including temporary covering, recommended in writing by resinous flooring manufacturer.

B. Allow flooring system to dry a minimum of 1 week before cleaning by mechanical means.

C. Protect completed flooring system from damage during construction

END OF SECTION

SECTION 10 80 00

TOILET AND BATH ACCESSORIES

PART 1 - GENERAL

1.01 REFERENCE

A. Requirements in Addenda, Alternates, Conditions, and Division 01 collectively apply to this work.

1.02 DESCRIPTION

A. Principal Work Items Are.

1. Grab bars.
2. Mirrors.
3. Toilet paper dispensers.
4. Toilet seat cover dispensers.
5. Paper towel dispensers.
6. Soap dispensers.
7. Sanitary napkin-tampon vendors and disposal.
8. Shower seats.
9. Baby changing station

B. Related Work Specified Elsewhere:

1. Section 10 28 13.13 – Electric Hand Dryers
2. Division 22 - Plumbing

1.03 SUBSTITUTIONS

A. Only written approval of the District will permit substitutions for materials specified. Refer to Section 01 25 00 – Substitution Procedures.

1.04 QUALITY ASSURANCE

A. Requirements of Regulatory Agencies: Conform to State Handicapped Regulations.

1.05 JOB CONDITIONS

A. Sequencing, Scheduling: Coordinate work with related work of other Sections. Verify types of backing prior to installation of items.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Acceptable Manufacturers and Products:

1. Bobrick Washroom Equipment, Inc., as a standard of quality.
2. Other Manufacturers:

a. American Dispenser Company.
b. Accessory Specialties.
c. Bradley. D. Hallmack.
d. Parker.
e. Watrous.
f. Georgia Pacific.
g. BayWest.
h. Saniflow Corp.

B. Retain "Manufacturers" Paragraph and list of manufacturers below to require products from manufacturers listed or a comparable product from other manufacturers.

2.02 ITEMS

1. Soap Dispenser: District Supplied, Contractor to install
2. Paper Towel Dispenser: Bobrick B-9262
3. Toilet Paper Dispenser: Bobrick B-2888
4. Seat Cover Dispenser: Bobrick B-221

5a. Grab bars: Bobrick B-490 x 42" (1 -1 /4" diameter).
5b. Grab bars: Bobrick B490 x 36" (1 -1 /4" diameter).
5c. Grab bars: Bobrick B-68137 (showers only).
6a. Mirrors: Bobrick B-1658 (Staff & Faculty restrooms only).
6b. Mirrors: Bobrick B-1556 1830.
7a. Recessed sanitary napkin-tampon vendor: Bobrick B-3706.
7b. Surface-mounted sanitary napkin-tampon vendor: Bobrick B-2706.

8. Folding shower seat: Bobrick B-5181 or B-5191 (as required).
9. Shower curtain rod: Bobrick B-6047 (length as required).
10. Mop and broom holder: Bobrick B-223 x 36" (four holders).
11. Electric hand dryers, refer to Spec Section 10 28 13.13 for staff
12. Electric hand dryers, student restrooms B-7128 110v
13. Baby changing station: Koala KB200 Horizontal Surface Mounted
14. Special needs changing table: Max-Ability Pressalit Care 3000. 75” length - Model #R8528021 Fixed height w/ safety rail
15. Heavy Duty Soap Dish and Bar: Bobrick B-4290

16a. Partition-mounted sanitary napkin disposal: Bobrick B-354.
16b. Surface-mounted sanitary napkin disposal: Bobrick B-270.

2.03 PLACEMENT LOCATIONS

A. At sink locations in the Concession and P.T. Room.

1. Soap dispensers:-#1

2. Paper towel dispensers-#2

B. Coaches Restrooms

1. Room 103, 126:

a. Grab bars-#5a & #5b.
b. Mirrors-#6a.
c. Toilet tissue dispenser-#3
d. Soap dispensers-#1
e. Toilet seat cover dispenser-#4
f. Hand dryer-#11

2. Single Stall Restrooms: 112, 113, 106

a. Grab bars-#5a & #5b. (1 at each H.C. Stall)
b. Mirrors-#6a. (1 at each sink)
c. Toilet tissue dispenser-#3 (1 at each toilet)
d. Soap dispensers-#1 (1 at each sink)
e. Toilet seat cover dispenser-#4 (1 at each toilet)
f. Hand dryer #11 (1)
g. Sanitary napkin disposal #16a or 16b (one (1) per stall).
h. Sanitary napkin-tampon vendor #7a or 7b. (1)

C. Team Restrooms

1. Men: 115

a. Grab bars-#5a & #5b. (1 at each H.C. Stall)
b. Mirrors-#6a. (1 at each sink)
c. Paper towel dispenser-#2 (2 in each restroom)
d. Toilet tissue dispenser-#3 (1 at each toilet)
e. Soap dispensers-#1 (1 at each sink)
f. Toilet seat cover dispenser-#4 (1 at each toilet)

2. Women: 117, 127

a. Grab bars-#5a & #5b. (1 at each H.C. stall)
b. Mirrors-#6a. (1 at each sink)
c. Paper towel dispenser-#2. (2 at each restroom)
d. Toilet tissue dispenser-#3 (1 at each toilet)
e. Soap dispensers-#1 (1 at each sink)
f. Toilet seat cover dispenser-#4 (1 at each toilet)
g. Sanitary napkin disposal #16a or 16b (one at each toilet).
h. Sanitary napkin-tampon vendor #7a or 7b. (1 per restroom)

D. Janitor Rooms

1. Mop and broom holder #10.

E. Various Locations per drawings

1. Baby changing station #13: Room 112 & 113

F. Shower Areas

1. Folding shower seat #8. (1 at each H.C. shower)
2. Grab bars #4c. (1 at each H.C. stall)
3. Shower curtain rod #9. (1 at each shower)
4. Recessed soap dish #15 (1 at each shower)

PART 3 - EXECUTION

3.01 INSTALLATION

A. General:

1. Anchorage: Securely anchor all items into solid backing with manufacturer recommended suitable attachments, Phillips-head typical.
2. Mounting Heights: Conform to handicapped requirements for each particular items installed in areas serving the handicapped. Refer to construction drawing.

B. Toilet Accessory Schedule (refer to drawings):

1. Install scheduled items at locations indicated on drawings. Use manufacturer recommended anchor plates.
2. At toilet partitions, use Bobrick 258 Series anchor plates for single grab bar installations.

C. Adjust toilet accessories for proper operation and verify that mechanisms function smoothly. Replace damaged or defective items.

D. Clean and polish all exposed surfaces strictly according to manufacturer's recommendations after removing temporary labels and protective coatings.

END OF SECTION

SECTION 08 41 13 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes requirements including but not limited to:
   1. Exterior and interior storefront framing.
   2. Exterior and interior manual swing entrance doors.
   3. Accessories necessary for a complete installation.

B. Related Sections:
   1. Section 05 12 00: Structural Steel Framing.
   2. Section 05 40 00: Cold-Formed Metal Framing.
   3. Section 05 50 00: Metal Fabrications.
   4. Section 07 62 00: Sheet Metal Flashing and Trim.
   5. Section 07 92 00: Joint Sealants.

1.3 SUBMITTALS

A. Product Data: Technical data for each type of product indicated including construction details, material descriptions, dimensions of individual components and profiles, and finishes for aluminum framed systems.

B. Shop Drawings:
   1. Submit aluminum storefront framing and entrances shop drawings including plans, elevations, sections, full size details, and attachments to other work:
      a. Include details of provisions for system expansion and contraction and for drainage of moisture in the system to the exterior.
      b. For entrance doors, include hardware schedule and indicate operating hardware types, functions, quantities, and locations.

C. Entrance Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of entrance door hardware, as well as procedures and diagrams. Coordinate final entrance door hardware schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of entrance door hardware.

D. Engineer’s calculations of performance requirements.

E. Maintenance Data: For aluminum framed systems to include in maintenance manuals.

1.4 PERFORMANCE REQUIREMENTS

A. Aluminum framed systems shall withstand the effects of specified performance requirements without exceeding performance criteria or fail due to defective manufacture, fabrication, installation, or other defects in construction:
   1. Movements of supporting structure indicated on Drawings including, but not limited to, story drift and deflection from uniformly distributed and concentrated live loads.

2. Dimensional tolerances of building frame and other adjacent construction.
3. Failure includes the following:
   a. Deflection exceeding specified limits.
   b. Thermal stresses transferring to building structure.
   c. Framing members transferring stresses, including those caused by thermal and structural movements to glazing.
   d. Noise or vibration created by wind and by thermal and structural movements.
   e. Loosening or weakening of fasteners, attachments, and other components.
   f. Sealant failure.
   g. Failure of operating units.

B. Structural Loads:
   1. Wind loads: Ultimate wind speed gust 115 mph; exposure D.

C. Deflection of Framing Members:
   1. Deflection normal to wall plane: Limited to edge of glass in a direction perpendicular to glass plane shall not exceed L/175 of the glass edge length for each individual glazing lite or an amount that restricts edge deflection of individual glazing lites to 3/4 inch (19 mm), whichever is less.
   2. Deflection parallel to glazing plane: Limited to L/360 of clear span or 1/8 inch (3.2 mm), whichever is smaller.

D. Structural Test Performance - Provide aluminum framed systems tested according to ASTM E330 as follows:
   1. When tested at positive and negative wind load design pressures, systems do not evidence deflection exceeding specified limits.
   2. When tested at 150 percent of positive and negative wind load design pressures, systems, including anchorage, do not evidence material failures, structural distress, and permanent deformation of main framing members exceeding 0.2 percent of span.
   3. Test durations: As required by design wind velocity, but not fewer than ten (10) seconds.

E. Air Infiltration: Provide aluminum-framed systems with maximum air leakage through fixed glazing and framing areas of 0.06 cfm/sq. ft.0.03 L/s per sq. m of fixed wall area when tested according to ASTM E283 at a minimum static-air-pressure difference of 6.24 lbf/sq. ft. (300 Pa.)

F. Water Penetration under Static Pressure: Provide aluminum-framed systems that do not evidence water penetration through fixed glazing and framing areas when tested according to ASTM E331 at a minimum static-air-pressure difference of 20 percent of positive wind-load design pressure, but not less than 6.24 lbf/sq. ft. (300 Pa.

G. Windborne Debris Impact Resistance:
   1. Pass missile impact and cyclic pressure tests when tested according to ASTM E1886 and testing information in ASTM E1996 for Wind Zone 4:
      a. Large missile test: For glazed openings located within 30 feet (9.1 m) of grade.

H. Thermal Movements:
   1. Provide aluminum-framed systems that allow for thermal movements resulting from the following maximum change (range) in ambient and surface temperatures. Base engineering calculation on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss:
      a. Temperature change (range): 120 degrees F (67 degrees C, ambient; 180 degrees F, 100 degrees C, material surfaces.
      b. Interior ambient-air temperature: 75 degrees F (24 degrees C).

I. Condensation Resistance: Provide aluminum framed systems with fixed glazing and framing areas having condensation-resistance factor (CRF) of not less than 45 when tested according to AAMA 1503.

J. Thermal Conductance: Provide aluminum framed systems with fixed glazing and framing areas having an average U-factor of not more than 0.57 Btu/sq. ft. x h x degrees F3.23 W/sq. m x K when tested according to AAMA 1503.

1.5 QUALITY ASSURANCE

A. Regulatory Requirements:
   1. Accessibility requirements:
      a. 2019 California Building Code: Section 11B-404.3 accessible route.
      b. 2019 California Building Code: Section 11B-309.4 operable parts interior usage.
      c. U.S. Architectural and Transportation Barriers Compliance Board Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities (ADAAG).
      d. ICC/ANSI A117.1 Accessible and Useable Building and Facilities.

B. Installer Qualifications: Installer having minimum ten (10) years' documented experience who is an authorized representative of the manufacturer and is trained and approved for installation of units required.

C. Engineering Responsibility: Prepare data for aluminum framed systems, including shop drawings, based on testing and engineering analysis of manufacturer's standard units in systems similar to those indicated.

D. Product Options:
   1. Information on Drawings and in Specifications establishes requirements for systems' aesthetic effects and performance characteristics. Aesthetic effects are indicated by dimensions, arrangements, alignment, and profiles of components and assemblies as they relate to sightlines, to one another, and to adjoining construction. Performance characteristics are indicated by criteria subject to verification by one or more methods including preconstruction testing, field testing, and in service performance:
      a. Do not revise intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If revisions are proposed, submit comprehensive explanatory data to Architect for review.

E. Source Limitations: Obtain aluminum framed entrances from single source from single manufacturer.

F. Pre-Installation Conference: Conduct conference at site.

1.6 WARRANTY

A. Written warranty signed by manufacturer, Contractor, and installer in which manufacturer agrees to repair or replace components of aluminum framed systems that do not comply with requirements or that fail in materials or workmanship within specified warranty period.
   1. Failures include, but are not limited to, the following:
      a. Structural failures including, but not limited to, excessive deflection.
      b. Noise or vibration caused by thermal movements.
      c. Water leakage through fixed glazing and framing areas.
      d. Failure of operating components.
   2. Warranty period: Two (2) years from date of Substantial Completion.

B. Written warranty signed by manufacturer in which manufacturer agrees to repair or replace

components on which finishes do not comply with requirements or that fail in materials or workmanship within specified warranty period. Warranty does not include normal weathering:

1. Warranty period: Ten (10) years from date of Substantial Completion.

PART 2 PRODUCTS

2.1 MATERIALS

A. Basis of Design:
   1. **Kawneer Trifab 451/451T** (Product Evaluation CWSF-34), And/or the **Trifab 601/601T**, impact resistant system, maximum design pressure +/- 45 psf. Refer to Drawings for frame size and locations. Subject to compliance with requirements, provide comparable storefront system by one of the following:
      a. Tubelite, Inc.
      b. US Aluminum Corporation.
      c. Vistawall.
      d. YKK America AP, Inc.

B. Aluminum:
   1. Alloy and temper recommended by manufacturer for type of use and finish indicated:
      a. Sheet and plate: ASTM B209ASTM B209M.
      b. Extruded bars, rods, profiles, and tubes: ASTM B221ASTM B221M.
      c. Extruded structural pipe and tubes: ASTM B429.

C. Framing Members:
   1. Extruded aluminum framing members of thickness required and reinforced necessary to support imposed loads:
      a. Construction: Nonthermal/thermal.
      b. Glazing system: Retained mechanically with gaskets on four sides.
      c. Glazing plane: Center.

D. Accessories:
   1. Brackets and reinforcements: High strength aluminum with nonstaining, nonferrous shims for aligning system components.
   2. Fasteners and accessories:
      a. Corrosion resistant, nonstaining, nonbleeding fasteners and accessories compatible with adjacent materials:
         1) Use self-locking devices where fasteners are subject to loosening or turning out from thermal and structural movements, wind loads, or vibration.
         2) Reinforce members as required to receive fastener threads.
   3. Concrete and masonry inserts: Hot dip galvanized cast iron, malleable iron, or steel inserts, complying with ASTM A123/A123M or ASTM A153/A153M.
   4. Concealed flashing: Corrosion resistant, nonstaining, nonbleeding flashing compatible with adjacent materials.
   5. Framing system gaskets and sealants: Recommended by manufacturer for joint type.

E. Glazing:
   1. Refer to Section 08 80 00: Glazing for impact resistant laminated insulating glass with low-e coating on Number 2 surface:
      a. Glazing gaskets: Compression types; replaceable, molded or extruded, of profile and hardness required to maintain watertight seal.
      b. Spacers and setting blocks: Elastomeric type.

F. Entrance Doors:

1. Glazed entrance doors for manual swing operation:
   a. Door construction: 1-3/4-inch (44.5 mm) overall thickness, with minimum 0.125-inch (3.2 mm) thick, extruded aluminum tubular rail and stile members. Mechanically fasten corners with reinforcing brackets that are deeply penetrated and fillet welded or that incorporate concealed tie rods.
   b. Door design:
      1) Wide stile; 5-1/2-inch (88.9 mm) nominal width:
         a) Accessible doors: Smooth surfaced for width of door in area within ten inches (255 mm) above floor or ground plane.
   c. Glazing stops and gaskets: Square, snap on, extruded aluminum stops and preformed gaskets.

G. Entrance Door Hardware:
1. Refer to Section 08 71 00: Door Hardware for aluminum entrance hardware sets:
   a. Provide entrance door hardware and entrance door hardware sets indicated in door and frame schedule for each entrance door to comply with requirements in this Section:
      1) Opening-force requirements: CBC Section 11B-404.2.9:
         a) Exterior/interior hinged doors, sliding doors, or folding doors: Five (5) pounds square foot maximum.
         b) Required fire doors: The minimum opening force allowable by DSA not to exceed 15 pounds square foot (these forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door in a closed position).
         c) Accessible interior doors: Maximum five (5) pounds foot to fully open door.
      2) Weather stripping: Standard replaceable components to match existing.
      3) Weather sweeps: Standard exterior door bottom sweep with exposed fasteners on mounting strip to match existing.

H. Accessories:
1. Joint sealants: For installation at perimeter of aluminum framed systems, refer to Section 07 92 00: Joint Sealants.
2. Bituminous paint: Cold applied, asphalt mastic paint complying with SSPC-Paint 12 requirements except containing no asbestos; formulated for 30 mil 0.762 mm thickness per coat.

2.2 FABRICATION

A. Form or extrude aluminum shapes before finishing.

B. Framing Members:
1. Fabricate components that, when assembled, have specified characteristics:
   a. Profiles that are sharp, straight, and free of defects or deformations.
   b. Accurately fitted joints with ends coped or mitered.
   c. Means to drain water passing joints, condensation within framing members, and moisture migrating within the system to exterior.
   d. Physical and thermal isolation of glazing from framing members.
   e. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.
   f. Provisions for field replacement of glazing from interior for vision glass and exterior for spandrel glazing or metal panels.
   g. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.
   h. Provide sill receptors with end dams at all sill conditions.

C. Mechanically Glazed Framing Members: Fabricate for flush glazing without projecting stops.

D. Storefront Framing: Fabricate components for assembly using screw spline system.

E. Entrance Door Frames:
   1. Reinforce as required to support loads imposed by door operation and for installing entrance door hardware:
      a. At exterior doors, provide weather stripping at fixed stops.
      b. At interior doors, provide weather stripping at stops to prevent metal to metal contact.

F. Entrance Doors:
   1. Reinforce doors as required for installing entrance door hardware:
      a. At pairs of exterior doors, provide compression type weather stripping retained in adjustable strip and mortised into door edge.
      b. At exterior doors, provide weather sweeps applied to door bottoms.

G. After fabrication, clearly mark components to identify their locations in Project according to shop drawings.

2.3 ALUMINUM FINISHES

A. Class I, Clear Anodic Finish (#14): AA-M10C21A41 / AA-M45C22A41, 0.018 mm or thicker.

PART 3 EXECUTION

3.1 PROJECT CONDITIONS

A. Field Measurements: Verify actual locations of structural supports for aluminum framed systems by field measurements before fabrication and indicate measurements on shop drawings.

3.2 EXAMINATION

A. Examine areas and conditions for compliance with requirements for installation tolerances and conditions affecting performance of the work. Proceed with installation after correcting unsatisfactory conditions.

3.3 INSTALLATION

A. Comply with aluminum framed storefront manufacturer recommended installation instructions. Coordinate installation with curtain wall work:
   1. Do not install damaged components.
   2. Fit joints to produce hairline joints free of burrs and distortion.
   3. Rigidly secure nonmovement joints.
   4. Install anchors with separators and isolators to prevent metal corrosion and electrolytic deterioration.
   5. Seal joints watertight unless otherwise indicated.
   6. Min anchorage #8 with two-inch (2”) minimum embedment; minimum two inches (2”) from edges. Refer to shop drawings.

B. Metal Protection:
   1. Where aluminum will contact dissimilar metals, protect against galvanic action by painting contact surfaces with primer or applying sealant or tape, or by installing nonconductive spacers as recommended by manufacturer for this purpose.

2. Where aluminum will contact concrete or masonry, protect against corrosion by painting contact surfaces with bituminous paint.

C. Install components to drain water passing joints, condensation occurring within framing members, and moisture migrating within the system to exterior.

D. Set continuous sill members and flashing in full sealant bed as specified in Section 07 92 00: Joint Sealants to produce weathertight installation.

E. Install components plumb and true in alignment with established lines and grades, and without warp or rack.

F. Install glazing specified in Section 08 80 00: Glazing.

G. Entrance Doors and Hardware:
1. Install doors to produce smooth operation and tight fit at contact points:
a. Exterior doors: Install to produce weathertight enclosure and tight fit at weather stripping.
b. Field installed entrance door hardware: Install surface mounted entrance door hardware according to entrance door hardware manufacturers' written instructions using concealed fasteners to greatest extent possible.

H. Install perimeter joint sealants as specified in Section 07 92 00: Joint Sealants to produce weathertight installation.

3.4 ERECTION TOLERANCES

A. Install aluminum framed systems to comply with the following maximum erection tolerances:
1. Location and plane: Limit variation from true location and plane to 1/8 inch in 12 feet (3 mm in 3.7 m); 1/4 inch (6 mm) over total length.
2. Alignment:
a. Where surfaces abut in line, limit offset from true alignment to 1/16 inch (1.5 mm).
b. Where surfaces meet at corners, limit offset from true alignment to 1/32 inch (0.8 mm).

B. Diagonal Measurements: Limit difference between diagonal measurements to 1/8 inch (3 mm).

3.5 ADJUSTING

A. Adjust operating entrance door hardware to function smoothly as recommended by manufacturer:
1. For entrance doors accessible to people with disabilities, adjust closers to provide a three (3) second closer sweep period for doors to move from a 70-degree open position to three inches (75 mm) from the latch, measured to the leading door edge.

3.6 MAINTENANCE SERVICE

A. Entrance Door Hardware:
1. Maintenance tools and instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of entrance door hardware.
2. Initial maintenance service: Beginning at Substantial Completion, provide six (6) months full maintenance by skilled employees of entrance door hardware installer.

Include quarterly preventive maintenance, repair, or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper entrance door hardware operation at rated speed and capacity. Provide parts and supplies the same as those used in the manufacture and installation of original equipment.

END OF SECTION 08 41 13

SECTION 22 11 14 ATHLETIC TRAINING ICE BATH TUBS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes requirements including but not limited to:
   1. Provide factory-fabricated, commercial-grade cold plunge tubs for athletic training and cold therapy.
   2. Complete with integrated chiller.
   3. Filtration system.
   4. Automatic water-chemical control.
   5. Controls and accessories.
   6. Accessories necessary for a complete installation.

B. Related Sections:
   1. Section 22 30 00: Plumbing Equipment.

1.3 DEFINITIONS

A. Comparable Product: Product demonstrated and approved through submittal process, or where indicated as a produce substitution, to have the indicated qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics that equal or exceed those of specified product.

1.4 REFERENCE

A. NSF/ANSI 50 – Equipment for Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (filtering and sanitization compliance)

B. UL – Certification for refrigeration and electrical safety (e.g., chiller compressor)

C. ADA Standards for Accessible Design (clearances and controls where applicable)

D. EPA – Clean water filtration standards for natural purification systems

1.5 SUBMITTALS

A. Product Data: Manufacturer’s catalog cuts, technical specifications, and installation instructions.

B. Shop Drawings: Indicate dimensions, required clearances, mounting, and connection interfaces

C. Operation & Maintenance Data: Cleaning procedures, filter replacement intervals, controller functions.

D. Performance Data: Chilling rate, temperature range, filtration capacity

E. Warranty Information

1.6 WARRANTY

A. Provide manufacturer's standard warranty, minimum 1 year for tub, chiller, and controls (unless extended coverage offered) .

B. Colderatti Vessel+ (alternative): Provide Commercial Care+ coverage – 4 years warranty, damage protection, and tech support.

C. Other: Submit warranty

1.7 DELIVERY, STORAGE, AND HANDLING

A. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

B. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by manufacturer.

C. Exercise exceptional care to prevent edge damage to equipment.

PART 2 PRODUCTS

2.1 MATERIALS

A. Basis of Design: Whitehall Manufacturing, model WHS-110-M.
   1. Dimensions & Capacity: 56"L x 24"W x 33"H; 110 gallon water capacity.
   2. Materials & Construction: Heavy-duty Type 304 stainless steel.
   3. Performance:
      a) Turbine Assembly: ½ HP motor, variable speed, 120V GFCI protected.
      b) Adjustable turbine ejector: 360° rotation; aerates and agitates water.
      c) Thermometer with protective guard.
      d) Drain assembly with strainer and valve.
      e) Operation: Designed for use with cold or hot water fill; can be converted to ice bath with added ice; no integrated refrigeration.
      f) Electrical: 120V, 15A, GFCI required.

B. Approved Alternate: Plunge All-In Commercial Max
   1. Dimensions & Capacity: 77"L x 31.5"W x 29"H; 100 gallon water capacity.
   2. Materials & Construction: Heavy-duty commercial materials, modern design, secure functional cover included
   3. Performance:
      a) Operating temperature range: 37 °F to ambient (~104 °F max).
      b) Cooling capacity: Able to cool a full tub (~100 gal) to 37 °F within 6 hours maximum.
      c) Temperature stability: Maintain setpoint within ±1 °F during continuous operation.
      d) Filtration: NSF 50 certified; minimum 20 gpm turnover; replaceable cartridge filter.
      e) Water treatment: Automated pH and chlorine dosing system with sensor feedback.
      f) Circulation: Continuous low-flow circulation pump to maintain uniform temperature.
      g) Controls: Digital interface with Wi-Fi connectivity, app control, and remote

monitoring.
h) Safety: GFCI protection, integrated skimmer with removable debris catch.

C. Approved Alternative: Colderatti Vessel+
1. Dimensions & Capacity: 74” L × 30” W × 28” H; 90 gallons water capacity
2. Materials & Construction: Insulated, aerospace-grade stainless steel
3. Performance:
a) Operating temperature range: 32 °F to 107 °F.
b) Cooling/heating capacity: HyperChiller™ capable of 15,000 BTU/hr equivalent; cool from 70 °F to 39 °F in under 4 hours.
c) Temperature stability: Maintain setpoint within ±1 °F.
d) Filtration: Dual-stage with ozone purification; minimum 20 gpm turnover.
e) Water treatment: All-natural, chemical-free ozone sanitation system.
f) Controls: Digital control panel and mobile app with scheduling.
g) Environmental rating: Freeze-protection to –10 °F ambient.
h) Load capacity: Support 700 lb user load.

D. Common Requirements:
1. Drain assembly with strainer and shutoff.
2. Anti-slip entry platform or step.
3. Insulated lockable cover included.

PART 3 EXECUTION

3.1 INSTALLATION

A. Coordinate glazing channel dimensions to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses with reasonable tolerances.

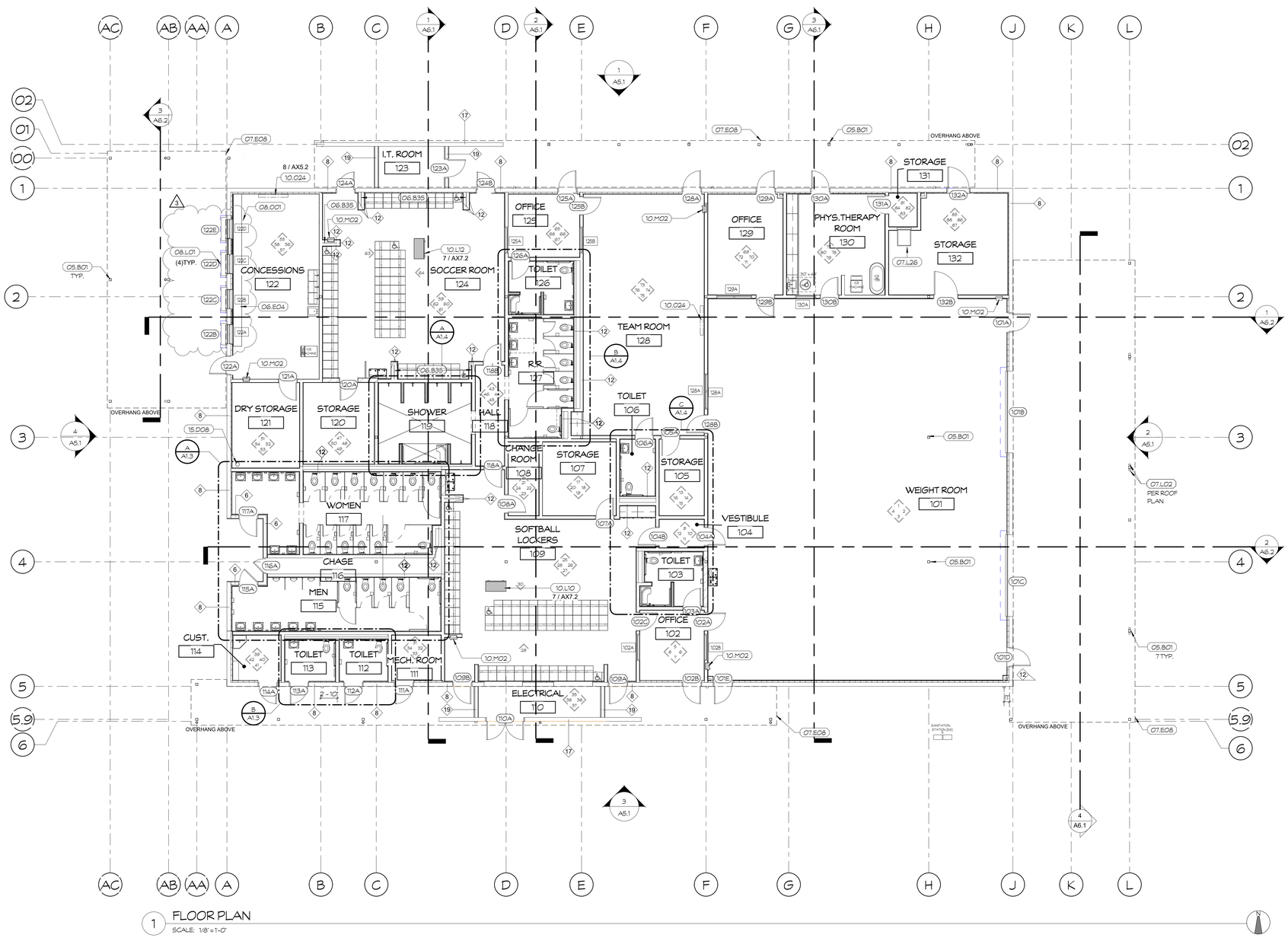
3.2 FIELD QUALIY CONTROL

A. Start-up:
1. Verify controls, Wi-Fi interfaces, and remote access functionality.
2. Confirm chiller can achieve lowest operating temperature (37 °F Plunge; 32 °F for Colderatti) within performance specs.
3. Demonstrate automatic water chemistry control (Plunge) or self-cleaning filtration (Colderatti).
4. Verify water temperature throughout tub maintains within ±1 °F of setpoint.
5. Install per manufacturer's installation instructions.

3.3 DEMONSTRATION

A. Train Owner’s staff on:
1. Filling/draining procedures.
2. Water chemistry monitoring/maintenance.
3. Filter replacement.
4. Scheduling via digital control/app.
5. Cleaning Process

END OF SECTION 22 11 14



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

KEYNOTES (XX-XX)

05.B01	EXPOSED TUBE STEEL COLUMN
06.B35	1/2" AIR SPACE BETWEEN WOOD STUDS
06.E04	COUNTERTOP
07.E08	DASHED LINE INDICATES ROOF ABOVE
07.L02	ROOF DRAIN & OVERFLOW
07.L26	ROOF HATCH AND GUARD ASSEMBLY
08.L01	OVERHEAD COILING DOOR, SEE DOOR SCHEDULE
08.001	OVERHEAD COILING SERVICE DOOR
10.L10	LOCKER BENCH
10.L12	ACCESSIBLE LOCKER BENCH
10.M02	2A10BC MIN RATED FIRE EXTINGUISHER W/ SEMI-RECESSED CABINET
10.024	FLAT SCREEN MONITOR
15.D08	ADD ALTERNATE #1: FIRE RISER, REFER TO CIVIL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

WALL LEGEND

- 8" CMU WALL
- 8" WOOD STUD WALL
- 6" WOOD STUD WALL
- 4" WOOD STUD WALL
- WALL TYPE — DETAIL REFERENCE SEE SHEET AX5.1
- * EXTERIOR WALL TYPE U.O.N. — 16 IS TYPICAL,
- * INTERIOR WALL TYPE U.O.N. — 11 IS TYPICAL,
- SYMBOL INDICATES ACCESSIBILITY ITEM. SEE DETAIL 16/AX7.1 FOR TYPICAL ACCESSIBILITY STANDARDS, CLEARANCES AND MOUNTING HEIGHTS & LOCATIONS
- INTERIOR ELEVATION MARK, SEE INTERIOR ELEVATIONS SHEETS A.7X

FLOOR PLAN NOTES

1. REFER TO SHEET AT.2 FOR ADDITIONAL SYMBOLS NOT SHOWN.
2. ALL DIMENSIONS ARE AS FOLLOWS UNLESS OTHERWISE NOTED:
   A. FACE OF STUD (OR CMU WHERE APPLICABLE) TO FACE OF STUD ;
   B. COLUMN LINE TO FACE OF STUD (OR CMU WHERE APPLICABLE) UNLESS OTHERWISE NOTED.
3. REFERENCE ENLARGED PLANS FOR DIMENSIONS OF ENLARGED PLAN AREAS.
4. DOORS ARE 4" CLR. FROM FROM THE FACE OF FINISH TO ROUGH OPENING OF JAMB UNLESS OTHERWISE NOTED.
5. SEE SHEET AX5.1 FOR WALL ASSEMBLIES.
6. SEE STRUCT. FOR METAL STUD SIZES AND CONNECTIONS.
7. NON RATED INTERIOR WALLS TO EXTEND FROM FLOOR TO ROOF DECK. OTHER INTERIOR NON-RATED WALLS MAY EXTEND FROM FLOOR TO CEILING FRAMING OR 6" ABOVE ACOUSTICAL CEILING GRID.
8. ALL WALLS SHALL HAVE FRAMING, FINISHES, INSULATION, AND SUBSTRATES FROM FLOOR TO STRUCTURAL DECK. UNLESS OTHERWIS NOTED.
9. FOR PLAN DIMENSIONS, REFERENCE DIMENSIONED PLAN ON SHEET A1.1

PBK

ARCHITECT PBK Architects, Inc.
FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL FIELDHOUSE

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

MADERA 19 66 UNIFIED SCHOOL DISTRICT

PROFESSIONAL SEAL

LICENSED ARCHITECT — MICHAEL R. SCHOEN — No. C-18195 — RENEWAL DATE FEB 28, 2027 — STATE OF CALIFORNIA

PROJECT NUMBER 20-51
DATE 01/22/2025
DSA APPLICATION NO. 02-121624
FILE NO. 20-H3
PTN NO. 65243-153
DRAWN BY Author

REVISIONS

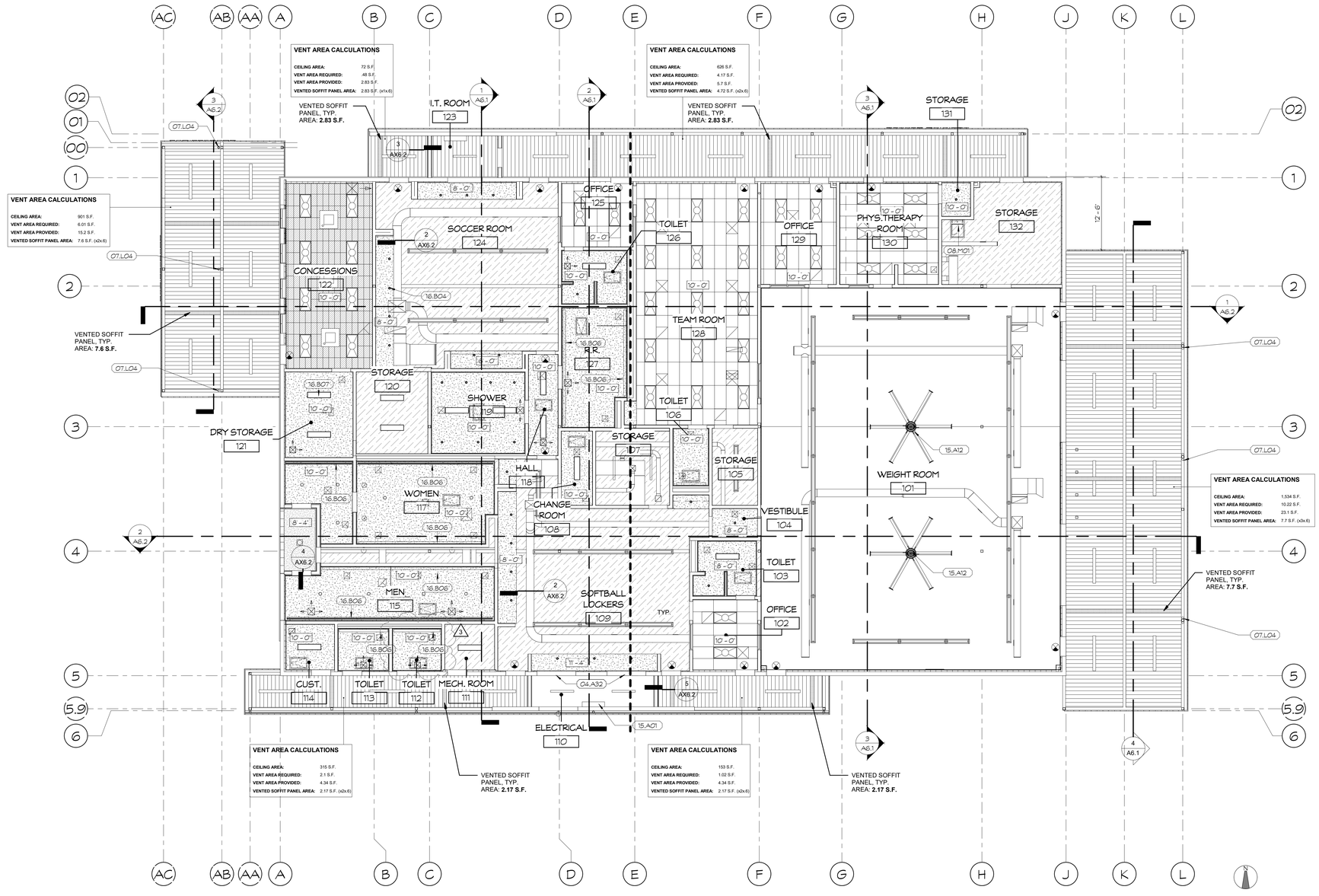
#	DESCRIPTION	DATE
3	ADDENDUM 03	08/27/2025

CONSTRUCTION DOCUMENTS

NOTED FLOOR PLAN

A1.2

BIM 360://Madera USD_20-51_MHS Field House/20-51_MHS FIELDHOUSE_V21.rvt
8/27/2025 6:33:32 PM



1 REFLECTED CEILING PLAN

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

KEYNOTES (XX-XX)

04.A32	CMU WALL OPENING
07.L04	METAL DOWNSPOUT SEE DETAIL 9/AX4.1
08.M01	ROOF ACCESS HATCH SEE DETAIL 14/AX4.1
15.A01	MECHANICAL UNIT, SEE MECHANICAL PLANS
15.A12	CEILING FAN, TO BE SECURED BY SOLID BEAM MOUNTING KIT PER MANUFACTURER - SEE L/M5.1 ON MECHANICAL PLANS
16.B04	LIGHTING FIXTURE, SEE ELECTRICAL PLANS
16.B06	LIGHT TROUGH ABOVE CEILING SHELF, SEE ELECTRICAL PLANS
16.B07	CEILING MOUNTED LIGHT FIXTURE, SEE ELECTRICAL PLAN

CEILING LEGEND

- 24" x 48" SUSPENDED ACOUSTICAL CEILING SYSTEM SEE SHEET AX6.1 FOR TYPICAL DETAILS — ACT-1
- FLUSH SEAM METAL SOFFIT PANELS SEE DETAIL 28/AX2.1 — MP-3
- 24" x 48" SUSPENDED ACOUSTICAL CEILING SYSTEM SEE SHEET AX6.1 FOR TYPICAL DETAILS — ACT-2
- CEMENT PLASTER SEE DTL. 15 / AX6.1
- HARD LID GYPSUM BOARD CEILING PAINTED — P-1
- POLYTHENE SHEETS TO COVER EXPOSED INSULATION AT UNDERSIDE OF ROOF DECK
- LIGHT FIXTURE(S), REFER TO ELECTRICAL DRAWINGS
- 9' - 0" — CEILING HEIGHT ABOVE FINISH FLOOR
- MECHANICAL GRILLES, REFER TO MECHANICAL DRAWINGS
- CEILING ACCESS PANEL, SEE DETAIL 14 / AX6.1
- ILLUMINATED EXIT SIGNS, REFER TO ELECTRICAL FOR FIXTURE TYPE AND LOCATION.

GENERAL NOTES

1. REFER TO SHEET AT.2 FOR ADDITIONAL SYMBOLS NOT SHOWN.
2. ALL DIMENSIONS ARE AS FOLLOWS UNLESS OTHERWISE NOTED:
   A. FACE OF STUD (OR CMU WHERE APPLICABLE) TO FACE OF STUD ;
   B. COLUMN LINE TO FACE OF STUD (OR CMU WHERE APPLICABLE) UNLESS OTHERWISE NOTED.
3. DOORS ARE 4" CLR. FROM FROM THE FACE OF FINISH TO ROUGH OPENING OF JAMB UNLESS OTHERWISE NOTED.
4. SEE SHEET AX5.1 FOR WALL ASSEMBLIES.
5. SEE STRUCT. FOR METAL STUD SIZES AND CONNECTIONS.
6. INTERIOR NON-RATED WALLS MAY EXTEND FROM FLOOR TO CEILING FRAMING OR 6" ABOVE ACOUSTICAL CEILING GRID.
7. ALL WALLS SHALL HAVE FRAMING, FINISHES, INSULATION AND SUBSTRATES FROM FLOOR TO STRUCTURAL DECK, UNLESS OTHERWISE NOTED.
8. ALL EXPOSED CONDUITS AND PIPING UNDER THE CANOPIES ARE TO BE PAINTED TO MATCH THE SURROUNDING AREAS.

PBK

ARCHITECT PBK Architects, Inc.
FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL FIELDHOUSE

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

MADERA UNIFIED SCHOOL DISTRICT 19 66

PROFESSIONAL SEAL

LICENSED ARCHITECT — MICHAEL R. SCHOEN — No. C-28395 — RENEWAL DATE 10.31.2027 — STATE OF CALIFORNIA

PROJECT NUMBER 20-51
DATE 01/22/2025
DSA APPLICATION NO. 02-121624
FILE NO. 20-H3
PTN NO. 65243-153
DRAWN BY Author

REVISIONS

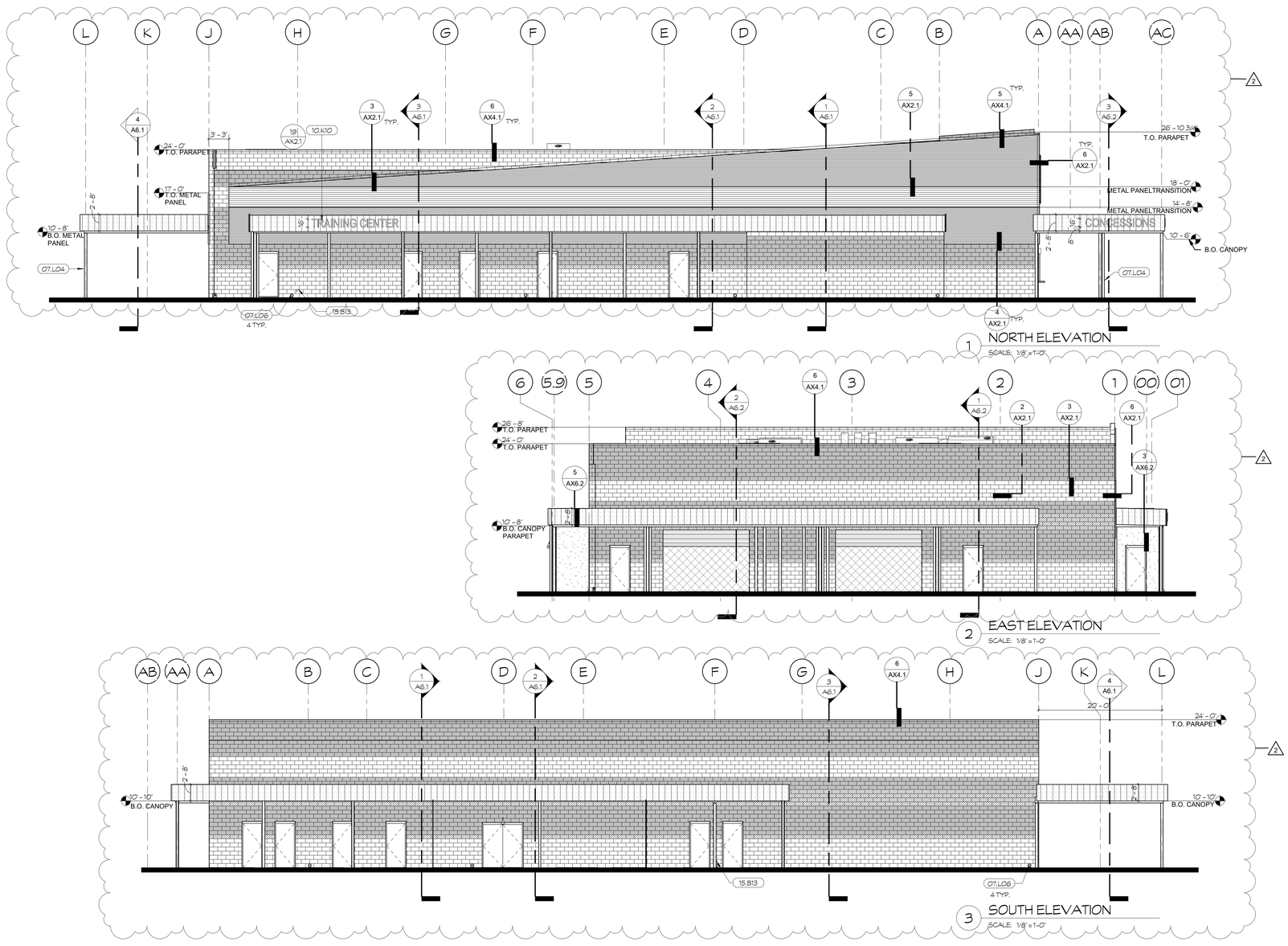
#	DESCRIPTION	DATE
3	ADDENDUM 03	08/27/2025

CONSTRUCTION DOCUMENTS

REFLECTED CEILING PLAN

A3.1

BIM 360://Madera USD_20-51_MHS Field House/20-51_MHS FIELDHOUSE_V21.rvt
8/27/2025 6:33:33 PM



KEYNOTES (XX-XX)

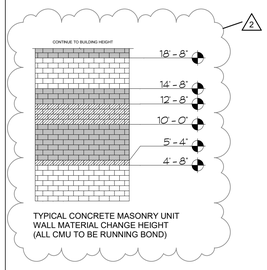
07.L04	METAL DOWNSPOUT SEE DETAIL 9/AX4.1
07.L06	ROOF DRAIN OVERFLOW DAYLIGHT - REFERENCE DETAIL 12/AX4.1
10.K10	CAST ALUMINUM LETTERS
10.K11	VINYL WRAP AROUND CAST ALUMINUM BACK PLATE
15.B13	HOSE BIB, SEE PLUMBING PLANS

GENERAL NOTES

1. CONTRACTOR TO PROVIDE ALL ACCESSORIES REQ'D TO PROVIDE WEATHER TIGHT CONSTRUCTION, COORDINATE w/ MANUFACTURER.
2. ALL EXPOSED EXTERIOR STRUCTURAL STEEL, METAL DECK, CONDUITS, AND PIPING TO BE PAINTED, VERIFY COLOR WITH ARCHITECT.

EXTERIOR ELEVATION LEGEND

- CONCRETE MASONRY UNIT, PRECISION COLOR 1 — CMU-1
- CONCRETE MASONRY UNIT, PRECISION COLOR 2 — CMU-2
- CONCRETE MASONRY UNIT, SPLIT FACE COLOR 2 — CMU-3
- CEMENT PLASTER — P-1
- HORIZONTALLY ORIENTED CORRUGATED METAL WALL PANELS SEE DETAIL MP-1 — 27 / AX2.1
- HORIZONTALLY ORIENTED CORRUGATED METAL WALL PANELS SEE DETAIL MP-2 — 26 / AX2.1
- VERTICALLY ORIENTED FLUSH SEAM METAL WALL PANELS SEE DETAIL MP-3 — 28 / AX2.1



TYPICAL CONCRETE MASONRY UNIT WALL MATERIAL CHANGE HEIGHT (ALL CMU TO BE RUNNING BOND)

PBK

ARCHITECT PBK Architects, Inc.
FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL FIELDHOUSE

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

MADERA 19 66 UNIFIED SCHOOL DISTRICT

PROFESSIONAL SEAL

LICENSED ARCHITECT — MICHAEL R. SCHOEN — No. C-28395 — RENEWAL DATE 08.28.2027 — STATE OF CALIFORNIA

PROJECT NUMBER 20-51

DATE 01/22/2025

DSA APPLICATION NO. 02-121624

FILE NO. 20-H3

PTN NO. 65243-153

DRAWN BY Author

REVISIONS

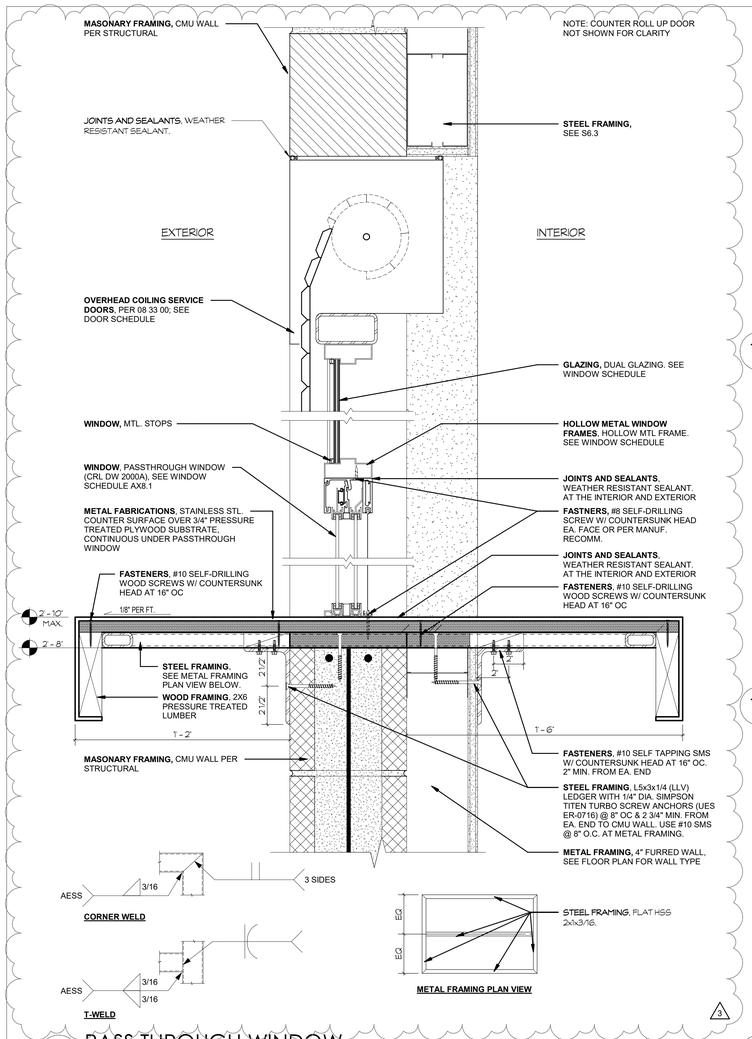
#	DESCRIPTION	DATE
2	ADDENDUM 02	08/22/2025
3	ADDENDUM 03	08/27/2025

CONSTRUCTION DOCUMENTS

EXTERIOR ELEVATIONS

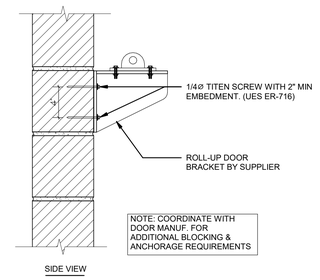
A5.1

BIM 360://Madera USD_20-51_MHS Field House/20-51_MHS FIELDHOUSE_V21.rvt
8/27/2025 6:37:19 PM



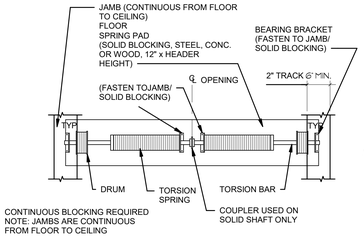
24 PASS THROUGH WINDOW

SCALE: 3" = 1'-0"



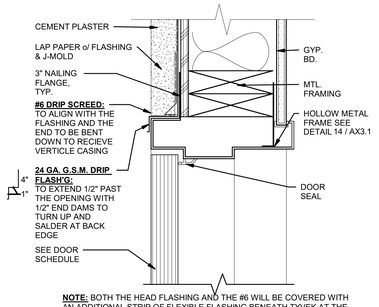
16 OVERHEAD DOOR - BRACKET

SCALE: 1 1/2" = 1'-0"



17 OVERHEAD DOOR - COIL

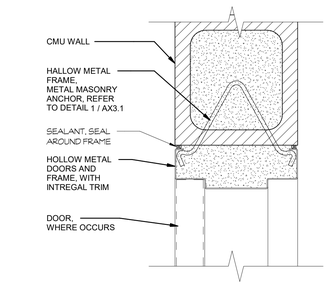
SCALE: 3/4" = 1'-0"



NOTE: BOTH THE HEAD FLASHING AND THE #6 WILL BE COVERED WITH AN ADDITIONAL STRIP OF FLEXIBLE FLASHING BENEATH TYVEK AT THE

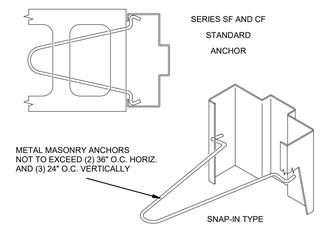
12 DOOR HEAD @ CMU PLANT ON

SCALE: 3" = 1'-0"



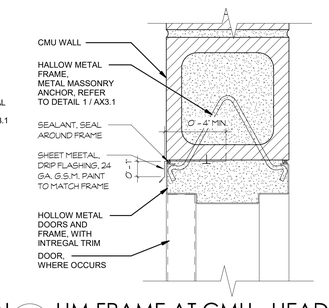
6 HM DOOR FRAME - JAMB

SCALE: 3" = 1'-0"



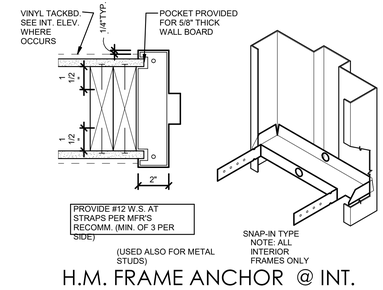
1 WIRE MASONRY ANCHOR

SCALE: 1" = 1'-0"



7 HM FRAME AT CMU - HEAD

SCALE: 3" = 1'-0"



2 H.M. FRAME ANCHOR @ INT. FRAME

(AT INTERIOR FRAMES ONLY)

SCALE: 3" = 1'-0"

18 OVERHEAD DOOR - HEAD

SCALE: 1 1/2" = 1'-0"

13 DOOR JAMB @ CMU PLANT ON

SCALE: 3" = 1'-0"

COUNTER ROLL UP DOOR - JAMB

SCALE: 1 1/2" = 1'-0"

3 DOOR THRESHOLD

SCALE: 12" = 1'-0"

25 COUNTER ROLLUP DOOR - BRACKET

SCALE: 1 1/2" = 1'-0"

19 OVERHEAD DOOR - JAMB

SCALE: 1 1/2" = 1'-0"

14 H.M. FRAME ANCHOR @ EXT. FRAME

SCALE: 3" = 1'-0"

9 INTERIOR DOOR HEAD & JAMB

SCALE: 3" = 1'-0"

4 FLOORING TRANSITIONS

SCALE: 3" = 1'-0"

26 COUNTER ROLL UP DOOR - HEAD

SCALE: 1 1/2" = 1'-0"

20 HM WINDOW FRAME @ CMU - JAMB

SCALE: 3" = 1'-0"

15 HM PASS-THROUGH WINDOW FRAME - JAMB

SCALE: 3" = 1'-0"

5 INT. WINDOW JAMB - HEAD/ SILL SIM.

SCALE: 3" = 1'-0"

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL FIELDHOUSE

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

LICENSED ARCHITECT
MICHAEL R. SCHOEN
No. C-32585
RENEWAL DATE FEB 28, 2027
STATE OF CALIFORNIA

PROJECT NUMBER 20-51

DATE 01/22/2025

DSA APPLICATION NO. 02-121624

FILE NO. 20-H3

PTN NO. 65243-153

DRAWN BY Author

REVISIONS

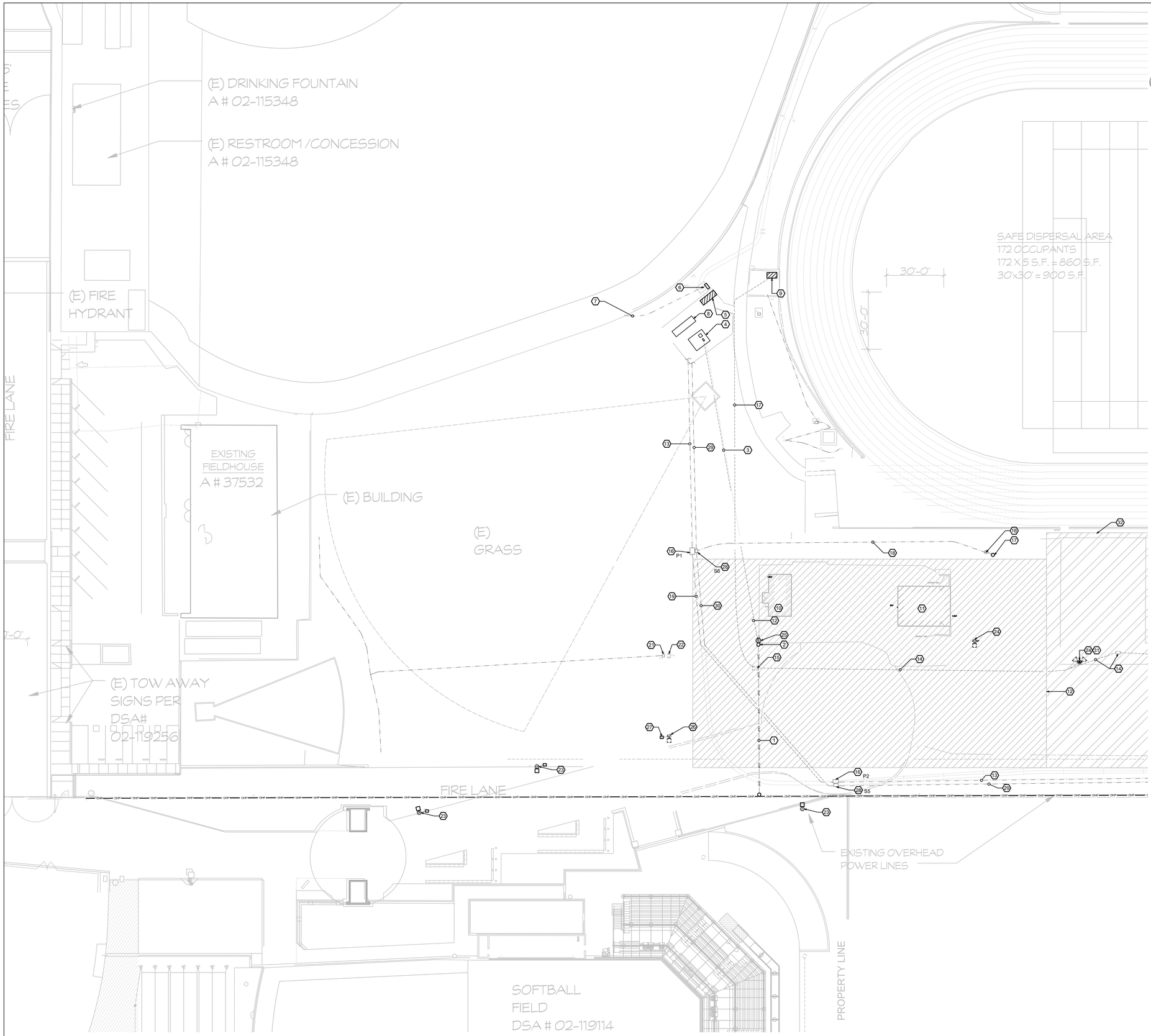
#	DESCRIPTION	DATE
3	ADDENDUM 03	08/27/2025

CONSTRUCTION DOCUMENTS

OPENING DETAILS

AX3.1

BIM 360://Madera USD_20-51_MHS Field House/20-51_MHS FIELDHOUSE_V21.rvt
8/27/2025 6:33:36 PM



DEMOLITION KEYNOTES

1. (E) P.G.&E. PRIMARY OVERHEAD CONDUCTORS TO BE REMOVED BY P.G.&E.
2. (E) P.G.&E. RISER POLE TO BE REMOVED BY CONTRACTOR AFTER P.G.&E. REMOVES PRIMARY CONDUCTORS.
3. (E) P.G.&E. PRIMARY UNDERGROUND FEEDER TO BE RELOCATED BY P.G.&E. ACCESSIBLE OR EXPOSED CONDUIT TO BE REMOVED BY CONTRACTOR.
4. (E) PAD MOUNTED P.G.&E. PAD MOUNTED TRANSFORMER ON CONCRETE PAD. P.G.&E. TO REMOVE TRANSFORMER. CONTRACTOR TO REMOVE EXISTING CONCRETE TRANSFORMER PAD AND ACCESSIBLE CONDUIT AS REQUIRED.
5. (E) PAD MOUNTED MAIN SWITCHBOARD 'MSB'. P.G.&E. TO DISCONNECT AND REMOVE EXISTING SERVICE CONDUCTORS AND METER. CONTRACTOR TO CONNECT EXISTING 'MSB' TO NEW MAIN SWITCHBOARD 'MSB' PER FEEDER SCHEDULE.
6. (E) SOLAR DISCONNECT TO REMAIN. DSA #02-119114. PROVIDE THE FOLLOWING RENEWABLES LABELS IF NOT CURRENTLY PRESENT: 2, 5, 8 & 11. SEE SHEETS EX2.9 & EX2.10.
7. APPROXIMATE LOCATION OF EXISTING UNDERGROUND PATHWAY FOR EXISTING SOLAR SYSTEM LOCATED AT PARKING LOT ON COYOTE LANE. EXERCISE CAUTION WHEN DIGGING IN THIS AREA AND LOCATE CONDUITS PRIOR TO EXCAVATING. OTHER UNDERGROUND PATHWAYS FOR SPORTS LIGHTING, LANDSCAPING, ETC. MAY BE PRESENT IN THIS AREA.
8. (E) STAND-BY GENERATOR TO REMAIN.
9. (E) DISTRBUTION BOARD 'MDB' TO REMAIN.
10. DEMO EXISTING SNACK BAR (NOT SHOWN) ELECTRICAL CONNECTIONS BACK TO SOURCE. ALL CONDUIT EXPOSED DURING CONSTRUCTION SHALL BE REMOVED.
11. DEMO EXISTING REST ROOM BUILDING (NOT SHOWN) ELECTRICAL CONNECTIONS BACK TO SOURCE. ALL CONDUIT EXPOSED DURING CONSTRUCTION SHALL BE REMOVED.
12. REMOVE ANY ELECTRICAL INFRASTRUCTURE (CONDUIT, CONDUCTORS, ETC CONTAINED UNDER THE FOOTPRINT OF THE BUILDING , PLUS 4' OR WITHIN ANY AREA OF REPOSE WHEN EXPOSED BY EXCAVATION.
13. (E) SPORTS LIGHTING CONDUIT AND EMERGENCY SPORTS LIGHTING CONDUIT TO REMAIN. REMOVE EXISTING CONDUCTORS. NEW FEEDERS TO BE PROVIDED UNDER STADIUM PROJECT.
14. DEMO (E) PRESS BOX FEEDER AND EMERGENCY LIGHTING CIRCUIT. REMOVE EXISTING CONDUCTORS AND EXPOSED CONDUIT.
15. (E) POWER PULL BOX AND CONDUIT TO BE REMOVED.
16. (E) SPORTS LIGHTING PULL BOX TO REMAIN.
17. (E) SPORTS LIGHTING POLE TO REMAIN.
18. (E) SPORTS LIGHTING FEEDER TO BE REMOVED. IDENTIFY EXACT CONDUIT LOCATION IN FIELD AND COORDINATE WITH NEW LANDSCAPING. REROUTE CONDUIT AROUND NEW LANDSCAPING IF REQUIRED. NEW SPORTS LIGHTING FEEDER TO BE PROVIDED UNDER STADIUM PROJECT.
19. (E) SPORTS LIGHTING AND EMERGENCY SPORTS LIGHTING CONDUITS TO BE REROUTED. REMOVE ALL CONDUIT EXPOSED DURING CONSTRUCTION.
20. EXISTING PULL BOX TO REMAIN. VERIFY CONDUITS AND CONDUCTORS. DOCUMENT ON AS-BUILT DRAWINGS.
21. REPLACE EXISTING PULL BOX WITH NEW H20-RATED PULL BOX (B1017BOX (BOX), B1017X12 (EXTENSION) & B1017-51JHG (LID, MARKED "SIGNAL") PER DETAIL L13/EX2.3.
22. REPLACE EXISTING PULL BOX WITH NEW H20-RATED PULL BOX (B1324BOX (BOX), B1324X12 (EXTENSION) & B1324-51JHG (LID, MARKED "ELECTRIC") PER DETAIL L13/EX2.3.
23. EXISTING SITE LIGHTING POLE TO REMAIN.
24. EXISTING LIGHT FIXTURE, POLE, ETC TO BE REMOVED. REMOVE EXISTING CONDUCTORS AND EXPOSED CONDUIT BACK TO SOURCE.
25. EXISTING DUPLEX RECEPTACLE MOUNTED TO PG&E RISER POLE TO BE REMOVED. REMOVE EXISTING CONDUCTORS AND EXPOSED CONDUIT BACK TO SOURCE.
26. DISCONNECT EXISTING LIGHT POLE AND FIXTURE TO BE RELOCATED. PROTECT FIXTURE FROM DAMAGE DURING CONSTRUCTION. DEMOLISH EXISTING BASE.
27. REPLACE EXISTING PULL BOX WITH NEW H20-RATED PULL BOX (B1017BOX (BOX), B1017X12 (EXTENSION) & B1017-51JHG (LID, MARKED "ELECTRIC") PER DETAIL L13/EX2.3. INTERCEPT EXISTING CONDUCTORS AND EXTEND TO NEW POLE LOCATION. PROVIDE SUBMERSIBLE RATED SPLICES.
28. (E) SOUND SYSTEM PULL BOX TO REMAIN.
29. (E) SOUND SYSTEM CONDUIT TO REMAIN. REMOVE EXISTING CONDUCTORS. NEW CONDUCTORS TO BE PROVIDED UNDER STADIUM PROJECT.
30. (E) SOUND SYSTEM CONDUIT AND CABLING TO BE REROUTED. REMOVE EXISTING CONDUCTORS AND EXPOSED CONDUIT.
31. (E) SOUND SYSTEM SPEAKER, POLE, OR OTHER COMPONENTS TO BE REMOVED. DISCONNECT EXISTING CONDUCTORS AND REMOVE EXPOSED CONDUIT.
32. REMOVE ANY ELECTRICAL INFRASTRUCTURE (CONDUIT, CONDUCTORS, ETC CONTAINED UNDER THE FOOTPRINT OF THE BLEACHER BERM WHETHER SHOWN ON THE THESE PLANS OR NOT. NOT ALL HISTORICAL INFRASTRUCTURE IS KNOWN. EXISTING SPORTS LIGHTING POLES AND CONDUITS TO REMAIN. PROTECT FROM DAMAGE DURING DEMOLITION AND CONSTRUCTION.
33. REMOVE EXISTING SOUND SYSTEM CONDUCTORS AND CONDUIT.
34. DISCONNECT AND REMOVE EXISTING ELECTRICAL INFRASTRUCTURE AT PRESS BOX. DELIVER ANY SOUND SYSTEM, ELECTRONICS, ETC. TO DISTRICT AS DIRECTED BY THE DISTRICT REPRESENTATIVE. PROPERLY DISCARD OF ALL EQUIPMENT NOT TO BE RETAINED BY THE DISTRICT.
35. DISCONNECT AND REMOVE EXISTING ELECTRICAL INFRASTRUCTURE AT TICKET BOOTH. DELIVER ANY SOUND SYSTEM, ELECTRONICS, ETC. TO DISTRICT AS DIRECTED BY THE DISTRICT REPRESENTATIVE. PROPERLY DISCARD OF ALL EQUIPMENT NOT TO BE RETAINED BY THE DISTRICT.

1 ENLARGED DEMOLITION ELECTRICAL SITE PLAN
SCALE: 1"=20'-0"

PBK
ARCHITECT PBK Architects, Inc.
FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL FIELDHOUSE

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

MADERA 19 66 UNIFIED SCHOOL DISTRICT

PROFESSIONAL SEAL

LICENSED ARCHITECT — MICHAEL R. SCHOEN — No. C-35165 — RENEWAL DATE FEB 28, 2025 — STATE OF CALIFORNIA

PROJECT NUMBER	20-51
DATE	08/22/2023
DSA APPLICATION NO.	02 - 121624
FILE NO.	20-H3
PTN NO.	65243-153
DRAWN BY	HDE

REVISIONS

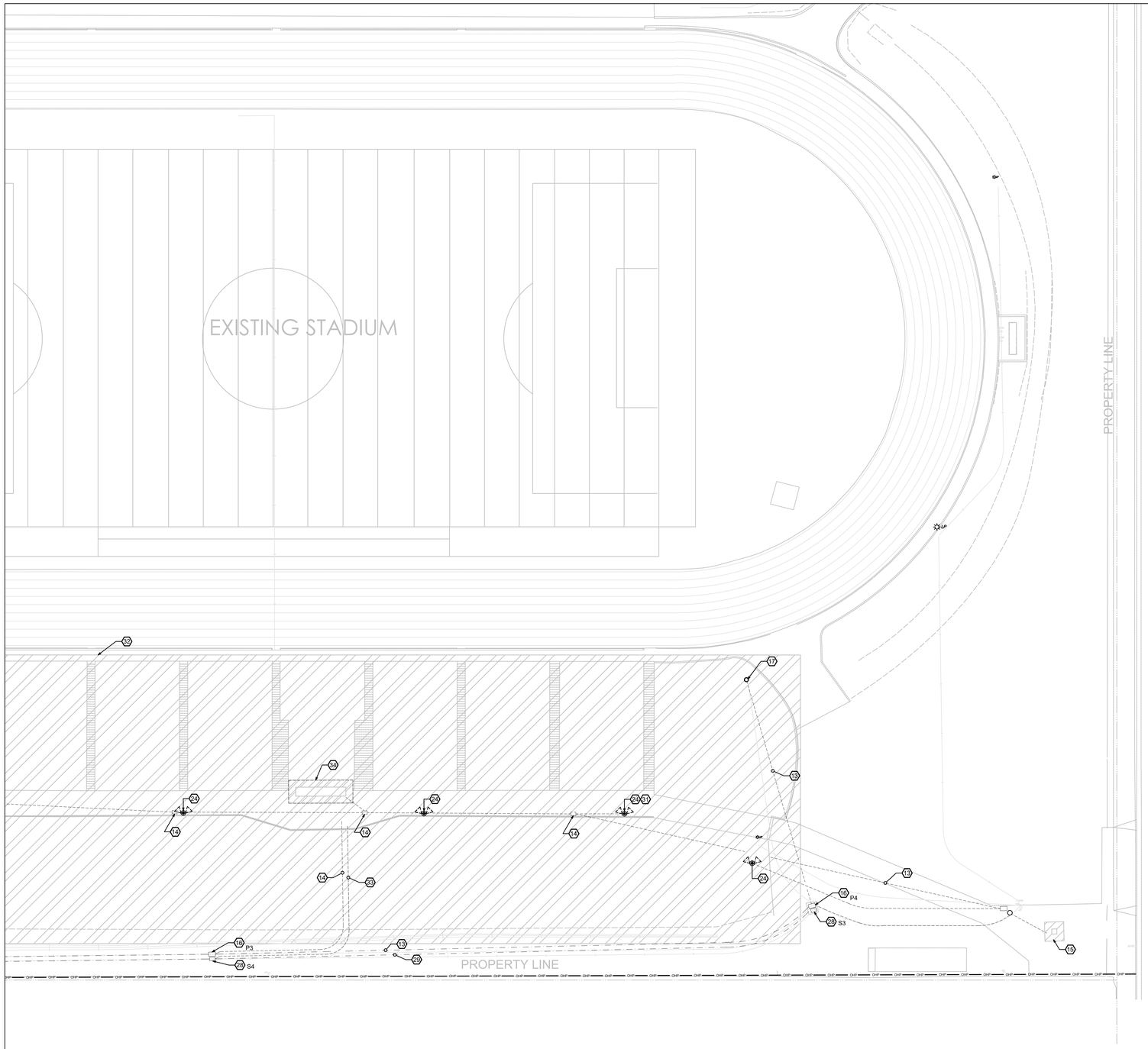
#	DESCRIPTION	DATE
3	ADDENDUM 3	08/23/2025

ENLARGED DEMOLITION ELECTRICAL SITE PLAN

ES1.1

REGISTERED PROFESSIONAL ENGINEER — R. J. HARDIN — No. 9125 — ELECTRICAL — STATE OF CALIFORNIA

Hardin-Davidson Engineering
356 Pollasky Ave, Suite 200
Clovis, CA 93612
559.323.4995 tel
559.323.4928 fax



DEMOLITION KEYNOTES

1. (E) P.G.&E. PRIMARY OVERHEAD CONDUCTORS TO BE REMOVED BY P.G.&E.
2. (E) P.G.&E. RISER POLE TO BE REMOVED BY CONTRACTOR AFTER P.G.&E. REMOVES PRIMARY CONDUCTORS.
3. (E) P.G.&E. PRIMARY UNDERGROUND FEEDER TO BE RELOCATED BY P.G.&E. ACCESSIBLE OR EXPOSED CONDUIT TO BE REMOVED BY CONTRACTOR.
4. (E) PAD MOUNTED P.G.&E. PAD MOUNTED TRANSFORMER ON CONCRETE PAD. P.G.&E. TO REMOVE TRANSFORMER. CONTRACTOR TO REMOVE EXISTING CONCRETE TRANSFORMER PAD AND ACCESSIBLE CONDUIT AS REQUIRED. (3)
5. (E) PAD MOUNTED MAIN SWITCHBOARD 'MSB'. P.G.&E. TO DISCONNECT AND REMOVE EXISTING SERVICE CONDUCTORS AND METER. CONTRACTOR TO CONNECT EXISTING 'MSB' TO NEW MAIN SWITCHBOARD 'MSB' PER FEEDER SCHEDULE.
6. (E) SOLAR DISCONNECT TO REMAIN. DSA #02-119114. PROVIDE THE FOLLOWING RENEWABLES LABELS IF NOT CURRENTLY PRESENT: 2, 5, 8 & 11. SEE SHEETS EX2.9 & EX2.10.
7. APPROXIMATE LOCATION OF EXISTING UNDERGROUND PATHWAY FOR EXISTING SOLAR SYSTEM LOCATED AT PARKING LOT ON COYOTE LANE. EXERCISE CAUTION WHEN DIGGING IN THIS AREA AND LOCATE CONDUITS PRIOR TO EXCAVATING. OTHER UNDERGROUND PATHWAYS FOR SPORTS LIGHTING, LANDSCAPING, ETC. MAY BE PRESENT IN THIS AREA.
8. (E) STAND-BY GENERATOR TO REMAIN.
9. (E) DISTRBUTION BOARD 'MDB' TO REMAIN.
10. DEMO EXISTING SNACK BAR (NOT SHOWN) ELECTRICAL CONNECTIONS BACK TO SOURCE. ALL CONDUIT EXPOSED DURING CONSTRUCTION SHALL BE REMOVED.
11. DEMO EXISTING REST ROOM BUILDING (NOT SHOWN) ELECTRICAL CONNECTIONS BACK TO SOURCE. ALL CONDUIT EXPOSED DURING CONSTRUCTION SHALL BE REMOVED.
12. REMOVE ANY ELECTRICAL INFRASTRUCTURE (CONDUIT, CONDUCTORS, ETC CONTAINED UNDER THE FOOTPRINT OF THE BUILDING , PLUS 4' OR WITHIN ANY AREA OF REPOSE WHEN EXPOSED BY EXCAVATION.
13. (E) SPORTS LIGHTING CONDUIT AND EMERGENCY SPORTS LIGHTING CONDUIT TO REMAIN. REMOVE EXISTING CONDUCTORS. NEW FEEDERS TO BE PROVIDED UNDER STADIUM PROJECT.
14. DEMO (E) PRESS BOX FEEDER AND EMERGENCY LIGHTING CIRCUIT. REMOVE EXISTING CONDUCTORS AND EXPOSED CONDUIT.
15. (E) POWER PULL BOX AND CONDUIT TO BE REMOVED.
16. (E) SPORTS LIGHTING PULL BOX TO REMAIN.
17. (E) SPORTS LIGHTING POLE TO REMAIN.
18. (E) SPORTS LIGHTING FEEDER TO BE REMOVED. IDENTIFY EXACT CONDUIT LOCATION IN FIELD AND COORDINATE WITH NEW LANDSCAPING. REROUTE CONDUIT AROUND NEW LANDSCAPING IF REQUIRED. NEW SPORTS LIGHTING FEEDER TO BE PROVIDED UNDER STADIUM PROJECT.
19. (E) SPORTS LIGHTING AND EMERGENCY SPORTS LIGHTING CONDUITS TO BE REROUTED. REMOVE ALL CONDUIT EXPOSED DURING CONSTRUCTION.
20. EXISTING PULL BOX TO REMAIN. VERIFY CONDUITS AND CONDUCTORS. DOCUMENT ON AS-BUILT DRAWINGS.
21. REPLACE EXISTING PULL BOX WITH NEW H20-RATED PULL BOX (B1017BOX (BOX), B1017X12 (EXTENSION) & B1017-51JHG (LID, MARKED "SIGNAL") PER DETAIL L13/EX2.3.
22. REPLACE EXISTING PULL BOX WITH NEW H20-RATED PULL BOX (B1324BOX (BOX), B1324X12 (EXTENSION) & B1324-51JHG (LID, MARKED "ELECTRIC") PER DETAIL L13/EX2.3.
23. EXISTING SITE LIGHTING POLE TO REMAIN.
24. EXISTING LIGHT FIXTURE, POLE, ETC TO BE REMOVED. REMOVE EXISTING CONDUCTORS AND EXPOSED CONDUIT BACK TO SOURCE.
25. EXISTING DUPLEX RECEPTACLE MOUNTED TO PG&E RISER POLE TO BE REMOVED. REMOVE EXISTING CONDUCTORS AND EXPOSED CONDUIT BACK TO SOURCE.
26. DISCONNECT EXISTING LIGHT POLE AND FIXTURE TO BE RELOCATED. PROTECT FIXTURE FROM DAMAGE DURING CONSTRUCTION. DEMOLISH EXISTING BASE.
27. REPLACE EXISTING PULL BOX WITH NEW H20-RATED PULL BOX (B1017BOX (BOX), B1017X12 (EXTENSION) & B1017-51JHG (LID, MARKED "ELECTRIC") PER DETAIL L13/EX2.3. INTERCEPT EXISTING CONDUCTORS AND EXTEND TO NEW POLE LOCATION. PROVIDE SUBMERSIBLE RATED SPLICES.
28. (E) SOUND SYSTEM PULL BOX TO REMAIN.
29. (E) SOUND SYSTEM CONDUIT TO REMAIN. REMOVE EXISTING CONDUCTORS. NEW CONDUCTORS TO BE PROVIDED UNDER STADIUM PROJECT.
30. (E) SOUND SYSTEM CONDUIT AND CABLING TO BE REROUTED. REMOVE EXISTING CONDUCTORS AND EXPOSED CONDUIT.
31. (E) SOUND SYSTEM SPEAKER, POLE, OR OTHER COMPONENTS TO BE REMOVED. DISCONNECT EXISTING CONDUCTORS AND REMOVE EXPOSED CONDUIT.
32. REMOVE ANY ELECTRICAL INFRASTRUCTURE (CONDUIT, CONDUCTORS, ETC CONTAINED UNDER THE FOOTPRINT OF THE BLEACHER BERM WHETHER SHOWN ON THE THESE PLANS OR NOT. NOT ALL HISTORICAL INFRASTRUCTURE IS KNOWN. EXISTING SPORTS LIGHTING POLES AND CONDUITS TO REMAIN. PROTECT FROM DAMAGE DURING DEMOLITION AND CONSTRUCTION.
33. REMOVE EXISTING SOUND SYSTEM CONDUCTORS AND CONDUIT.
34. DISCONNECT AND REMOVE EXISTING ELECTRICAL INFRASTRUCTURE AT PRESS BOX. DELIVER ANY SOUND SYSTEM, ELECTRONICS, ETC. TO DISTRICT AS DIRECTED BY THE DISTRICT REPRESENTATIVE. PROPERLY DISCARD OF ALL EQUIPMENT NOT TO BE RETAINED BY THE DISTRICT.
35. DISCONNECT AND REMOVE EXISTING ELECTRICAL INFRASTRUCTURE AT TICKET BOOTH. DELIVER ANY SOUND SYSTEM, ELECTRONICS, ETC. TO DISTRICT AS DIRECTED BY THE DISTRICT REPRESENTATIVE. PROPERLY DISCARD OF ALL EQUIPMENT NOT TO BE RETAINED BY THE DISTRICT.

1 ENLARGED DEMOLITION ELECTRICAL SITE PLAN
SCALE: 1"=20'-0"

PBK
ARCHITECT PBK Architects, Inc.
FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL FIELDHOUSE

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

MADERA 19 66 UNIFIED SCHOOL DISTRICT

PROFESSIONAL SEAL

LICENSED ARCHITECT — MICHAEL R. SCHOEN — No. C-35165 — RENEWAL DATE: FEB 28, 2025 — STATE OF CALIFORNIA

PROJECT NUMBER
20-51

DATE
08/22/2023

DSA APPLICATION NO.
02 - 121624

FILE NO.
20-H3

PTN NO.
65243-153

DRAWN BY
HDE

REVISIONS

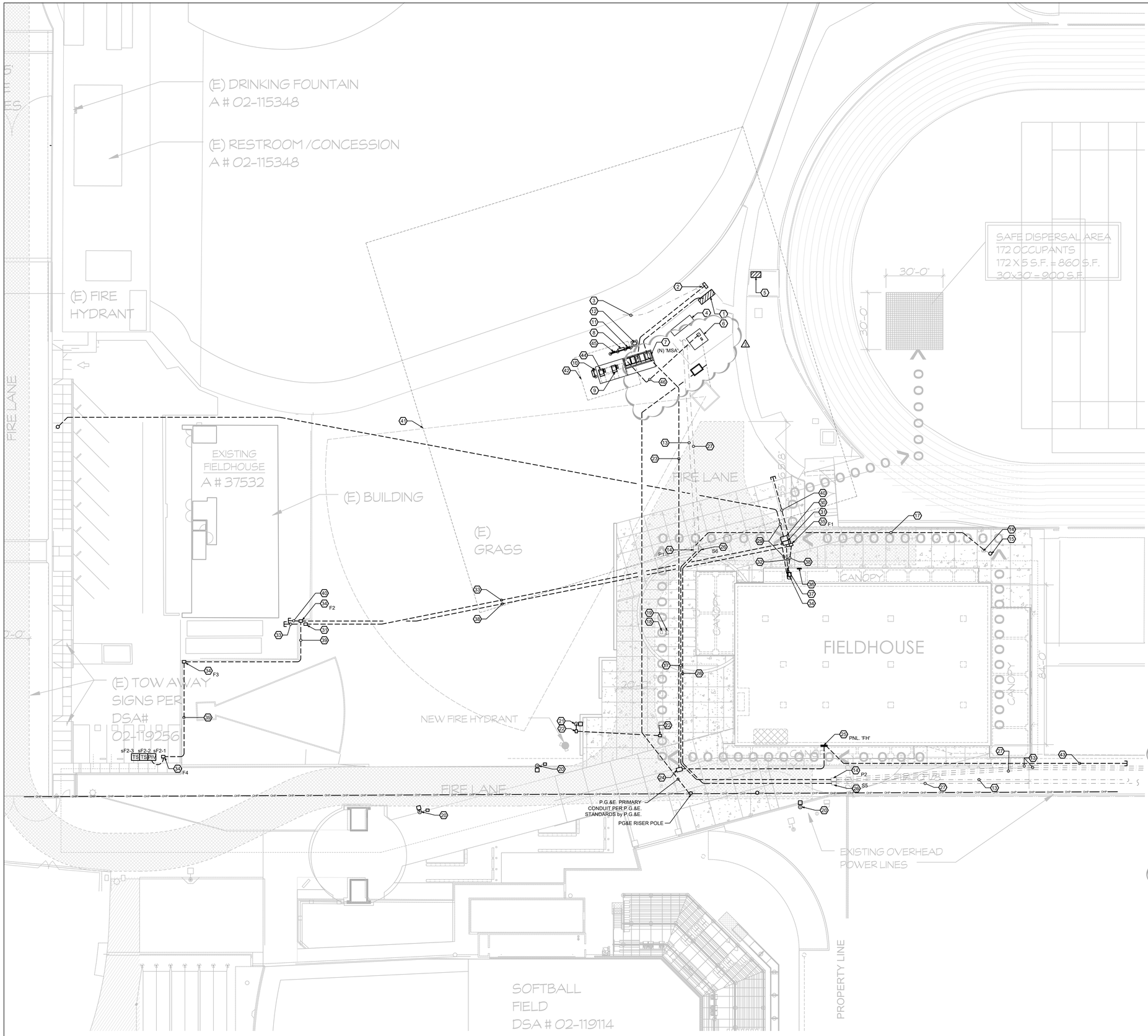
#	DESCRIPTION	DATE
3	ADDENDUM 3	08/23/2025

ENLARGED DEMOLITION ELECTRICAL SITE PLAN

ES1.2

REGISTERED PROFESSIONAL ENGINEER — R. J. HARDIN — 9125 — ELECTRICAL — STATE OF CALIFORNIA

Hardin-Davidson Engineering
356 Pollasky Ave.
Suite 200
Clovis, CA 93612
559.323.4995 tel
559.323.4928 fax



KEYNOTES

1. (E) PAD MOUNTED MAIN SWITCHBOARD 'MSB'. P.G&E. TO DISCONNECT AND REMOVE EXISTING SERVICE CONDUCTORS AND METER. CONTRACTOR TO CONNECT EXISTING 'MSB' TO NEW MAIN SWITCHBOARD 'MSB' PER FEEDER SCHEDULE.
2. (E) SOLAR DISCONNECT TO REMAIN. DSA #02-119114. PROVIDE THE FOLLOWING RENEWABLES LABELS IF NOT CURRENTLY PRESENT: 2, 5, 8 & 11. SEE SHEETS EX2.9 & EX2.10.
3. APPROXIMATE LOCATION OF EXISTING UNDERGROUND PATHWAY FOR EXISTING SOLAR SYSTEM LOCATED AT PARKING LOT ON COYOTE LANE. EXERCISE CAUTION WHEN DIGGING IN THIS AREA AND LOCATE CONDUITS PRIOR TO EXCAVATING. OTHER UNDERGROUND PATHWAYS FOR SPORTS LIGHTING, LANDSCAPING, ETC. MAY BE PRESENT IN THIS AREA.
4. (E) STAND-BY GENERATOR TO REMAIN.
5. (E) DISTRBUTION BOARD 'MDB' TO REMAIN.
6. (N) PAD MOUNTED P.G.&E. TRANSFORMER. PROVIDE TRANSFORMER PAD PER P.G.&E. REQUIREMENTS AND RULE 16 DRAWING. SEE DETAIL A12/EX2.1 FOR REFERENCE P.G.&E. DRAWING. MAXIMUM TRANSFORMER WEIGHT IS 13,000LBS. TRANSFORMER SPECIFIED, PROVIDED AND INSTALLED BY P.G.&E. CONCRETE PAD TO BE PRE-CAST BY PG&E APPROVED VENDOR.
7. (N) PAD MOUNTED MAIN SWITCHBOARD 'MSA'. 2000A BUS/1600A MAIN, 277/480V, 3Ø, 4W, 65kA SCCR FULLY RATED, NEMA 3R, SOLID NEUTRAL, PAD MOUNTED. PROVIDE HOUSEKEEPING PAD PER DETAIL C5/EX2.3. HOUSEKEEPING PAD SHALL BE RAISED ABOVE SURROUNDING TURF. PROVIDE CONCRETE WORK AREA IN FRONT OF SWITCHBOARD 42" DEEP BY WIDTH OF HOUSEKEEPING PAD FLUSH WITHIN 1/4" OF TOP OF HOUSEKEEPING PAD. SEE DETAIL A/CX1.1. PROVIDE GROUNDING PER DETAIL L5/EX2.3. PROVIDE THE FOLLOWING RENEWABLES LABELS: 6, 7 & 10. SEE SHEETS EX2.9 & EX2.10. LABELS MAY BE RELOCATED FROM THE EXISTING MAIN SWITCHBOARD TO THE NEW SWITCHBOARD IF PRESENT AND IN EXCELLENT CONDITION.
8. (N) 100A FUSED BATTERY STORAGE DISCONNECT 'FDZ' MOUNTED TO EQUIPMENT FRAME. SEE SINGLE LINE DIAGRAM AND DETAIL D8/EX2.4. PROVIDE THE FOLLOWING RENEWABLES LABELS: 2, 8 & 15. SEE SHEETS EX2.9 & EX2.10.
9. (N) BATTERY ENERGY STORAGE SYSTEM, BESS-2. SEE SINGLE LINE DIAGRAM, G15/EX2.1 AND SHEET EX2.8. PROVIDE 15'-0"W X 9'-2"D HOUSEKEEPING PAD PER DETAILS A14/EX2.8 & A18/EX2.8. MAINTAIN ALL REQUIRED CLEARANCES AROUND SYSTEM PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE THE FOLLOWING RENEWABLES LABELS: 16, 17, 18 & 19. SEE SHEETS EX2.9 & EX2.10. SYSTEM CONSISTS OF ONE 60KW INVERTER WITH PCS AND ONE 60KWH BATTERY CABINET CONTAINING THE BATTERY STORAGE MODULES. PAD SHALL HAVE A MINIMUM OF 2'-0" SPACE FROM THE MOUNTING FASTENERS TO THE EDGE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE WORKING AREA OF THE EQUIPMENT PAD SHALL EXTEND TO PROVIDE AN UNOBSTRUCTED SPACE 42" DEEP. SEE DETAIL A/CX1.1.
10. (N) 800A FUSED FIRE PUMP DISCONNECT. SEE DETAIL C13/EX2.3.
11. (N) PANEL 'ESSL' MOUNTED TO EQUIPMENT FRAME, SEE SINGLE LINE DIAGRAM AND DETAIL D8/EX2.4.
12. (N) TRANSFORMER 'TESS' MOUNTED ON EQUIPMENT PAD. SEE SINGLE LINE DIAGRAM AND DETAIL C5/EX2.3.
13. (E) SPORTS LIGHTING CONDUIT AND EMERGENCY SPORTS LIGHTING CONDUIT. NEW FEEDERS TO BE PROVIDED UNDER STADIUM PROJECT.
14. (E) SPORTS LIGHTING PULL BOX TO REMAIN.
15. (E) SPORTS LIGHTING POLE TO REMAIN. NEW FEEDERS TO BE PROVIDED UNDER STADIUM PROJECT.
16. REROUTE CONDUIT AROUND NEW LANDSCAPING IF REQUIRED. NEW SPORTS LIGHTING FEEDER TO BE PROVIDED UNDER STADIUM PROJECT.
17. (N) REROUTED SPORTS LIGHTING CONDUIT. SEE DETAIL L9/EX2.3. 1-#4"C. NEW CONDUCTORS TO BE PROVIDED UNDER STADIUM PROJECT.
18. (E) H20-RATED PULL BOX MARKED "SIGNAL".
19. (E) H20-RATED PULL BOX MARKED "ELECTRIC".
20. EXISTING SITE LIGHTING POLE.
21. RELOCATED EXISTING LIGHT POLE AND FIXTURE. 1"C. 2#10, 1#10GRD. RECONNECT FEED THROUGH WIRING.
22. (E) H20-RATED PULL BOX MARKED "ELECTRIC" FOR SITE LIGHTING. 1"C. 2#10, 1#10GRD. RECONNECT FEED THROUGH WIRING.
23. (N) PANEL 'FH' FEEDER. SEE SINGLE LINE DIAGRAM. SEE DETAIL L9/EX2.3. WHERE POSSIBLE, PROVIDE TRENCH PLACEMENT PARALLEL TO NEW AND EXISTING CONDUIT TRENCHES. MAINTAIN REQUIRED CLEARANCE FROM ANY UTILITY EASEMENT.
24. PROVIDE B2436BOX (BOX), B2436-12 (EXTENSION) & B2436-52JH (LID). MARK LID "ELECTRICAL". INSTALL PER DETAIL L13/EX2.3.
25. (N) PANEL 'FH'. SEE SINGLE LINE DIAGRAM, SHEET EX2.1.
26. (E) SOUND SYSTEM PULL BOX TO REMAIN.
27. (E) SOUND SYSTEM CONDUIT TO REMAIN. NEW CONDUCTORS TO BE PROVIDED UNDER STADIUM PROJECT.
28. REROUTED SOUND SYSTEM CONDUITS. SEE DETAIL L9/EX2.3. NEW FEEDERS TO BE PROVIDED UNDER STADIUM PROJECT.
29. PROVIDE (2)4"C PER AT&T STANDARDS TO TELEPHONE POLE. COORDINATE WITH AT&T REPRESENTATIVE.
30. PROVIDE B2436BOX (BOX), B2436-12 (EXTENSION) & B2436-52JH (LID). MARK LID "TELEPHONE" FOR AT&T SERVICE. INSTALL PER DETAIL L13/EX2.3. COORDINATE WITH AT&T REPRESENTATIVE.
31. PROVIDE B1730BOX (BOX), B1730-12 (EXTENSION) AND B1730-51JH LID MARKED "COMMUNICATION". INSTALL BOX PER DETAIL L13/EX2.3. ORIENT PULL BOX WITH ANY ADJACENT CONCRETE, EDGES, JOINTS, ETC.
32. PROVIDE (2)3"C. PROVIDE (1) MAXCELL MXED64283 (3", 3-CELL, DETECTABLE) INNERDUCT IN EACH CONDUIT. INSTALL MAXCELL STRICTLY PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
33. PROVIDE 3"C FOR FUTURE. PROVIDE (1) MAXCELL MXED64283 (3", 3-CELL, DETECTABLE) INNERDUCT. INSTALL MAXCELL STRICTLY PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
34. 'IDF-F'. SEE SHEET E3.1.
35. PROVIDE B1017BOX (BOX), B1017-12 (EXTENSION) & B1017-51JH (LID). MARK LID "FIRE ALARM". INSTALL PER DETAIL L13/EX2.3. ORIENT PULL BOX WITH ANY ADJACENT CONCRETE, EDGES, JOINTS, ETC.
36. 'FACP-F'. SEE SHEET E4.1
37. SIGNAL TERMINAL CABINET 'STC-F'. SEE DETAIL A14/EX4.1.
38. PROVIDE 2"C. WITH (1) MAXCELL #MXED52223 (2", 3 CELL, DETECTABLE) INNERDUCT, (3)DW FOR FIRE ALARM. INSTALL MAXCELL STRICTLY PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
39. PROVIDE 2"C. (3)DW CABLES FOR FIRE SPRINKLER SERVICE EQUIPMENT ((1)PIV, (2)TS)). SEE DETAIL L9/EX2.3.
40. PROVIDE 2" STUB FOR FUTURE FIRE ALARM CONNECTIONS.
41. 100' CLEARANCE AROUND B.E.S.S. PER C.F.C. 1207.8.1.
42. 10' CLEARANCE AROUND B.E.S.S. PER C.F.C. 1207.8.3.
43. STUB 1.25"C FROM PANEL 'FH' FOR FUTURE MINI POWERZONE UNDER FUTURE BLEACHERS. STUB 50' CLEAR OF BUILDING. SEE FEEDER 'Y' ON SINGLE LINE DIAGRAM, SHEET EX2.1.
44. FUTURE BATTERY ENERGY STORAGE SYSTEM . SHOWN FOR REFERENCE.
45. (N) PANEL 'ESS' MOUNTED TO EQUIPMENT FRAME, SEE SINGLE LINE DIAGRAM AND DETAIL D8/EX2.4.
46. (N) (7)5" PG&E SERVICE CONDUITS PER PG&E RULE 16 AND SPECIFICATIONS.

1 ENLARGED ELECTRICAL SITE PLAN
SCALE: 1"=30'-0"

PBK

ARCHITECT PBK Architects, Inc.
FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL FIELDHOUSE
200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

MADERA 19 66 UNIFIED SCHOOL DISTRICT

PROFESSIONAL SEAL
LICENSED ARCHITECT MICHAEL R. SCHOEN No. C-29165 RENEWAL DATE FEB 28, 2025 STATE OF CALIFORNIA

PROJECT NUMBER	20-51
DATE	08/22/2023
DSA APPLICATION NO.	02 - 121624
FILE NO.	20-H3
PTN NO.	65243-153
DRAWN BY	HDE

REVISIONS

#	DESCRIPTION	DATE
3	ADDENDUM 3	08/23/2025

ENLARGED ELECTRICAL SITE PLAN

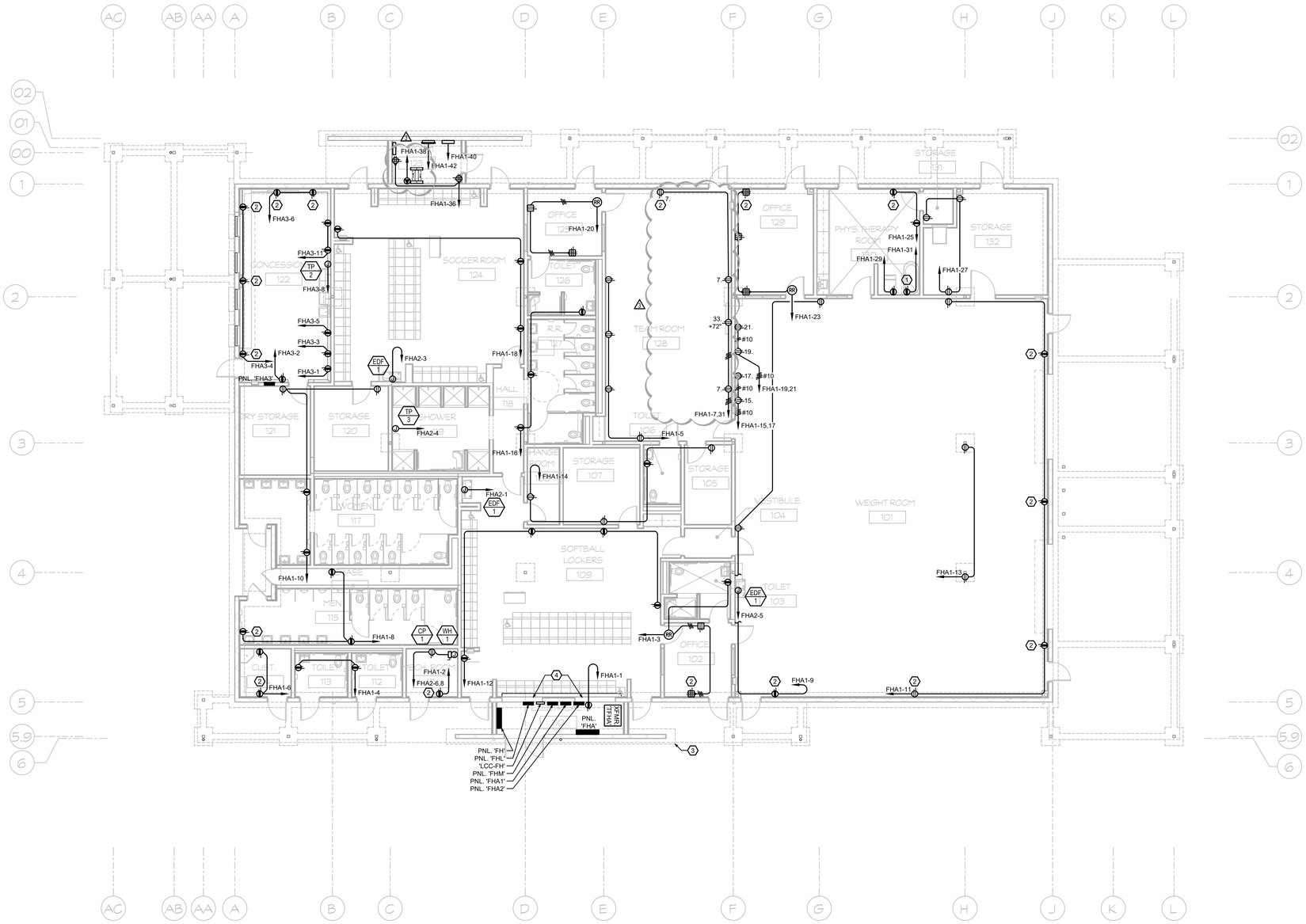
ES1.3

REGISTERED PROFESSIONAL ENGINEER R. J. HARDIN No. 9125 ELECTRICAL STATE OF CALIFORNIA

Hardin-Davidson Engineering
356 Pollasky Ave.
Suite 200
Clovis, CA 93612
559.323.4995 tel
559.323.4928 fax

DRAWING KEY NOTES (#)

1. PROVIDE HOSPITAL GRADE 20A, 120V GFCI-PROTECTED RECEPTACLE. LEVITON #GFTR2-HGW OR APPROVED EQUAL.
2. WHERE OUTLET BOXES ARE LOCATED IN CMU WALL, SEE DETAIL H10/EX2.4.
3. STRUCTURAL CONCRETE FOOTING SHOWN FOR REFERENCE. SEE SHEET S2.1 FOR DETAILED INFORMATION.
4. PASS THROUGH WINDOW FOR ELECTRICAL CONDUITS INTO SOFFIT IN LOCK ROOM.



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

REGISTERED PROFESSIONAL ENGINEER R. J. HARDIN NO. 9125 ELECTRICAL STATE OF CALIFORNIA

Hardin-Davidson Engineering
356 Pollasky Ave, Suite 200
Clovis, CA 93612
559.323.4985 tel
559.323.4928 fax

PBK

ARCHITECT PBK Architects, Inc.
FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL FIELDHOUSE

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

MADERA 19 66 UNIFIED SCHOOL DISTRICT

PROFESSIONAL SEAL

LICENSED ARCHITECT MICHAEL R. SCHOEN No. C-35165 RENEWAL DATE FEB 28, 2025 STATE OF CALIFORNIA

PROJECT NUMBER
20-51

DATE
08/22/2023

DSA APPLICATION NO.
02 - 121624

FILE NO.
20-H3

PTN NO.
65243-153

DRAWN BY
HDE

REVISIONS

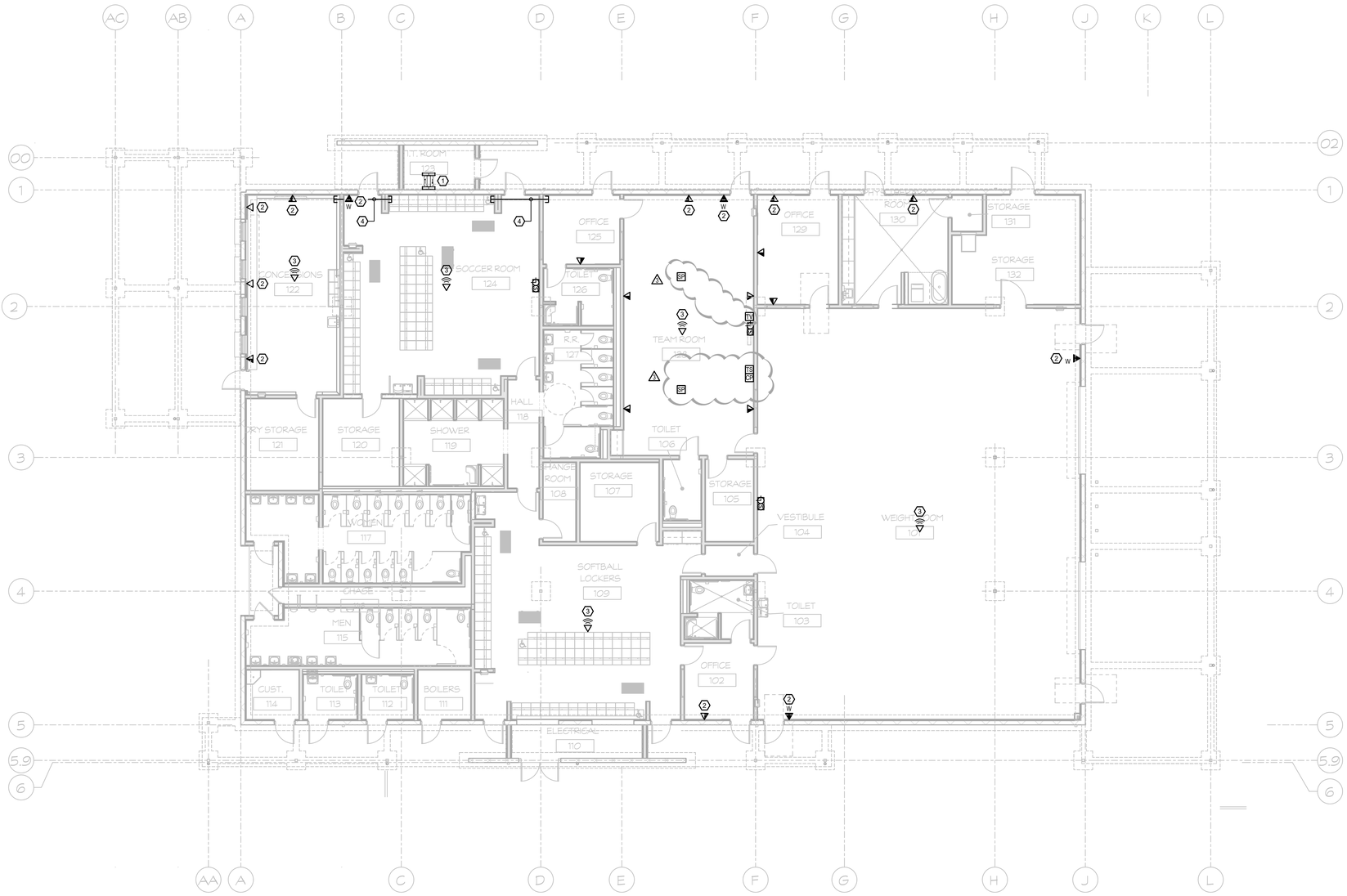
#	DESCRIPTION	DATE
1	ADDENDUM 3	08/23/2025

POWER PLAN

E2.1

DRAWING KEY NOTES ⬡

1. IDF-FH. INSTALL PER DETAIL L5/EX3.1.
2. WHERE OUTLET BOXES ARE LOCATED IN CMU WALL, SEE DETAIL H10/EX2.4.
3. PROVIDE WAP CONNECTION ABOVE ACCESSIBLE CEILING PER DETAIL L10/EX3.1.
4. PROVIDE 4"C PATHWAY BETWEEN ENCLOSED CEILING SPACES FOR LOW VOLTAGE CABLING.



1 DATA / COMM PLAN
SCALE: 1/8" = 1'-0"

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL FIELDHOUSE

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

MADERA 19 66 UNIFIED SCHOOL DISTRICT

PROFESSIONAL SEAL

LICENSED ARCHITECT
MICHAEL R. SCHOEN
No. C-35165
RENEWAL DATE
FEB 28, 2025
STATE OF CALIFORNIA

PROJECT NUMBER	20-51
DATE	08/22/2023
DSA APPLICATION NO.	02 - 121624
FILE NO.	20-H3
PTN NO.	65243-153
DRAWN BY	HDE

REVISIONS

#	DESCRIPTION	DATE
1	ADDENDUM 3	08/23/2025

DATA/COMM PLAN

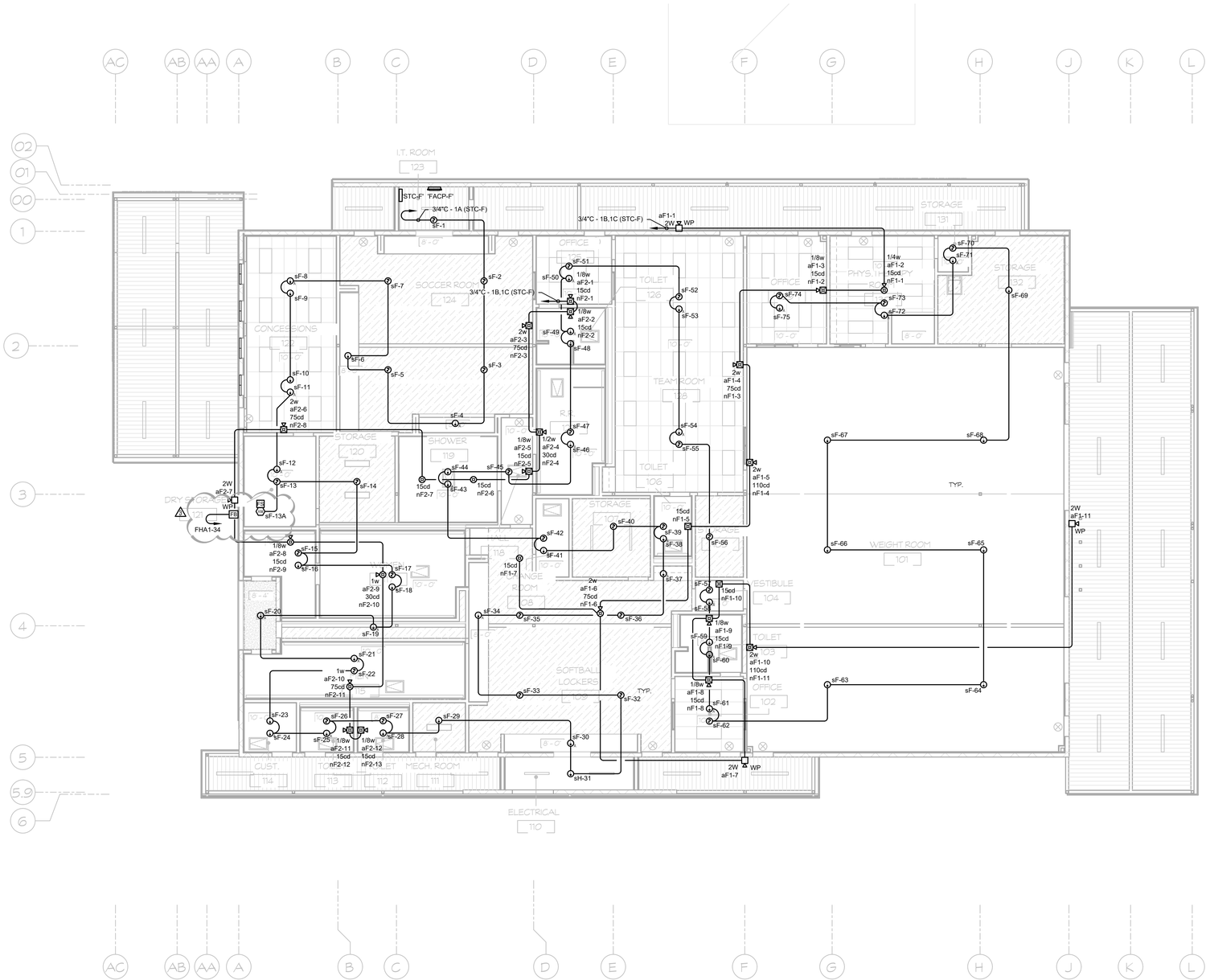
E3.1

REGISTERED PROFESSIONAL ENGINEER
R. J. HARDIN
No. 9125
ELECTRICAL
STATE OF CALIFORNIA

Hardin-Davidson Engineering
356 Pollasky Ave, Suite 200
Clovis, CA 93612
559.323.4995 tel
559.323.4928 fax

DRAWING KEY NOTES

1. FIRE ALARM CONTROL PANEL 'FACP-F'. INSTALL PER DETAIL A17/EX4.1.
2. SIGNAL TERMINAL CABINET 'STC-F'. INSTALL PER DETAIL A14/EX4.1.



1 FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL FIELDHOUSE

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

MADERA 19 66 UNIFIED SCHOOL DISTRICT

PROFESSIONAL SEAL

LICENSED ARCHITECT
MICHAEL R. SCHOEN
No. C-29165
RENEWAL DATE
FEB 28, 2025
STATE OF CALIFORNIA

PROJECT NUMBER	20-51
DATE	08/22/2023
DSA APPLICATION NO.	02 - 121624
FILE NO.	20-H3
PTN NO.	65243-153
DRAWN BY	HDE

REVISIONS

#	DESCRIPTION	DATE
1	ADDENDUM 3	08/23/2025

FIRE ALARM PLAN

E4.1

REGISTERED PROFESSIONAL ENGINEER
R. J. HARDIN
No. 9125
ELECTRICAL
STATE OF CALIFORNIA

Hardin-Davidson Engineering
356 Pollasky Ave.
Suite 200
Clovis, CA 93612
559.323.4995 tel
559.323.4928 fax

LOW VOLTAGE GENERAL SCOPE:

1. THE CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL DATA AND VOICE COMMUNICATIONS LOCAL AREA NETWORK (LAN), INCLUDING MAIN AND INTERMEDIATE DATA FRAMES, 24-STRAND SINGLEMODE FIBER OPTIC CABLING FROM THE CAMPUS IDF TO TELECOM RM. 123 IDF, 12-STRAND SINGLEMODE FIBER OPTIC CABLING FROM THE TELECOM RM. 123 IDF TO THE IDF RM. 126 IDF, FIBER OPTIC TERMINATIONS TO LC CONNECTORS (VERIFY AND MAINTAIN POLARITY), COPPER CAT6A HORIZONTAL CABLING THROUGHOUT, LABELING, LADDER RACKING, CABLE MANAGEMENT, MANAGED POWER DISTRIBUTION UNITS (PDUs), TERMINATION OF ALL CABLES, PATCH PANELS WITH PATCH CABLES FOR EVERY PORT (INCLUDING PORTS IN A PATCH PANEL THAT ARE UNUSED), COMMUNICATIONS GROUND BUS BAR AND GROUND CONNECTION, GROUNDING OF ALL METALLIC FRAMES AND LADDER RACKING WITH PAINT REMOVED AT LUGS, UNINTERRUPTABLE POWER SUPPLIES WITH 30 MINUTES BACKUP TIME, DATA AND COMMUNICATION OUTLETS, WIRELESS ACCESS POINT OUTLETS, CAMERA OUTLETS, AND TESTING AND REPORTS FOR ALL INSTALLED FIBER AND COPPER CABLES AND OUTLETS. NETWORK ELECTRONICS SUCH AS GATEWAYS AND SWITCHES SHALL BE FURNISHED BY THE OWNER AND INSTALLED BY THE CONTRACTOR. DELIVER REPORTS TO OWNER.
2. THE CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL IP PUBLIC ADDRESS SYSTEM, INCLUDING HEAD END SOFTWARE, INTERFACES WITH A/V SYSTEMS TO OVERRIDE THOSE SYSTEMS WHEN ANNOUNCEMENTS ARE MADE. INTERFACES WITH THE VOIP SYSTEM TO ALLOW ANNOUNCEMENTS BY USE OF HANDSETS, INTERFACE WITH FIRE ALARM SYSTEM TO DISPLAY A FIRE ALERT WHEN THE FIRE ALARM SYSTEM IS ACTIVATED, IP INDOOR AND OUTDOOR SPEAKERS, IP SPEAKER/CLOCKS, IP LARGE FORMAT DISPLAYS, LICENSES, SYSTEM PROGRAMMING, OWNER COORDINATION DURING COMMISSIONING, AND TESTING AND REPORTS. NOTE A HYBRID IP-ANALOG SYSTEM IS NOT AN ACCEPTABLE SUBSTITUTION FOR THIS SYSTEM.
3. THE CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL, AUTOMATIC, FIRE ALARM SYSTEM WITH EMERGENCY VOICE/ALARM COMMUNICATIONS, TO INCLUDE CONTROL PANELS, ANNUNCIATORS, OPERATING CONSOLES, POWER SUPPLIES, AMPLIFIERS, PULL STATIONS, SMOKE AND HEAT DETECTION DEVICES, ADDRESSABLE INPUT AND OUTPUT MODULES, SPEAKER STROBES, SPEAKERS, 6-STRAND SINGLE MODE FIBER OPTIC CABLING LINK TO EXISTING CAMPUS FIRE ALARM SYSTEM, LOCAL COPPER CABLING, INTERFACE WITH IP PA SYSTEM DO DISPLAY "FIRE ALARM" ON THE CLOCK DISPLAY, LABELING, PROGRAMMING, TESTING, AND REPORTS. DELIVER REPORTS TO OWNER FOR REVIEW.

LOW VOLTAGE GENERAL NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL CONTACT EACH SIGNAL SYSTEM VENDOR AND THOROUGHLY INVESTIGATE THE EXPANDABILITY OF ALL EXISTING SYSTEMS. THE CONTRACTOR'S BID SHALL INCLUDE ALL REQUIRED COMPONENTS, PROGRAMMING, CABLING, UPGRADES, ETC. TO INTEGRATE THE WORK SHOWN IN DIV. 26 DRAWINGS AND PROVIDE FOR FULLY FUNCTIONAL LOW VOLTAGE SYSTEMS.
2. EXISTING PULL BOX LOCATIONS ARE DIAGRAMMATIC. FIELD VERIFY EXACT LOCATIONS. ADD CONDUITS TO EXISTING PULL BOXES WHERE INDICATED. REPAIR ANY DAMAGE INCURRED.
3. TERMINAL CABINETS TO BE WIEGMANN RHC SERIES, OR EQUAL, W/ MOUNTING PANELS / PLYWOOD BACK BOARD. INSTALL ALL REQUIRED TERMINAL STRIPS, PUNCH DOWN BLOCKS, ETC.
4. INSTALL NYLON PULL LINE WITH ALL CABLE RUNS IN UNDERGROUND CONDUITS.
5. INSTALL CABLING IN J-HOOKS. SEE DETAIL E7/X/E104.

GENERAL ELECTRICAL NOTES:

1. ALL WORK SHALL MEET THE LATEST ADOPTED ADDITIONS OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24 AND ALL OTHER APPLICABLE REGULATIONS, WHICH INCLUDE:

CALIFORNIA BUILDING CODE	2022
CALIFORNIA ELECTRICAL CODE	2022
NON RESIDENTIAL CEC ENERGY STANDARDS	2022

2. NOTHING IN THE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.
3. IT IS THE INTENTION OF THESE PLANS AND SPECIFICATIONS TO COVER EVERYTHING REQUIRED TO PROVIDE FOR COMPLETE AND OPERATIVE SYSTEMS. THE CONTRACTOR IS TO FURNISH LABOR, MATERIAL, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC. REQUIRED TO ACCOMPLISH THIS RESULT, ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE INSTALLATION IS TO BE INCLUDED, WHETHER OR NOT SPECIFICALLY SHOWN OR MENTIONED.
4. THE CONTRACTOR SHALL EXAMINE THE SITE AND EXISTING VISIBLE CONDITIONS AND MAKE ALLOWANCES IN THE BID FOR ANY CONDITIONS NOT SHOWN ON THE ELECTRICAL DOCUMENTS.
5. THE PLANS AND SPECIFICATIONS ARE INTENDED TO BE USED AS CONSTRUCTION GUIDELINES AND ARE NOT THE TOTAL INSTRUMENT OF CONTRACT DOCUMENTS. IT IS NOT THE INTENTION OF ANY CONSTRUCTION PLANS TO DIVIDE WORK AMONG DIFFERENT TRADES. VERIFY THE SCOPE OF WORK WITH THE ARCHITECT AND THE GENERAL CONTRACTOR.
6. ELECTRICAL ROUTING IS DIAGRAMMATIC ONLY. ACTUAL ROUTING & PHYSICAL CONDITIONS MAY VARY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL ROUTING, CONNECTIONS, & PROVISION OF ALL APPURTENANCES NECESSARY FOR A COMPLETE & OPERATING SYSTEM.
7. ELECTRICAL EQUIPMENT SHALL HAVE AN APPROVED TESTING LABORATORY LABEL ATTACHED (UL, CSA ETC.) PER CEC 110.2.
8. PROVIDE LABELING AND DIRECTORIES FOR ALL SWITCHBOARDS AND PANELBOARDS PER CEC 408.4.
9. ELECTRICAL EQUIPMENT SHALL HAVE A SHORT CIRCUIT CURRENT RATING CAPABLE OF WITHSTANDING THE AVAILABLE SHORT CIRCUIT CURRENT PER CEC 110.9.
10. PROVIDE MINIMUM 30" WIDE x 78" HIGH x 36" DEEP [42" DEEP] WORK CLEARANCES IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT 120/208V 3Ø 4W [277/480V 3Ø 4W] PER CEC 110.26.
11. ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUIT OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE MOUNTED BETWEEN 15" AFF AND 48" AFF AND SHALL COMPLY WITH CBC SECTION 11B-308. THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX. IF THE REACH IS OBSTRUCTED (E.G. BY CASEWORK, COUNTERS, ETC.), RECEPTACLES SHALL BE LOCATED WITHIN THE REACH RANGES SPECIFIED IN CBC 11B-308.2.2 AND 11B-308.3.2.
12. CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF A ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES, OR COOLING, HEATING AND VENTILATING EQUIPMENT SHALL BE MOUNTED BETWEEN 15" AFF AND 48" AFF AND SHALL COMPLY WITH CBC SECTION 11B-308. THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX. IF THE REACH IS OBSTRUCTED (E.G. BY CASEWORK, COUNTERS, ETC.), SWITCHES AND CONTROLS SHALL BE LOCATED WITHIN THE REACH RANGES SPECIFIED IN CBC 11B-308.2.2 AND 11B-308.3.2.
13. ALL WALL AND SURFACE MOUNTED FIXTURES PROTRUDING IN THE PATH OF TRAVEL (POT) OR COMMON PEDESTRIAN WAYS SHALL COMPLY WITH CBC 11B-307.2, OR SHALL BE MOUNTED LESS THAN 27" AFF OR GREATER THAN 80" AFF, OR SHALL BE PROVIDED WITH A BARRIER CONFORMING TO CBC 11B-307.4.
14. EMERGENCY EGRESS LIGHTING SHALL PROVIDE A MINIMUM LUMINANCE OF 1 FOOTCANDLE AT THE WALKING SURFACE FOR A MINIMUM OF 90 MINUTES.
15. FIRE ALARM EQUIPMENT SHALL BE SERVED BY DEDICATED FIRE ALARM BRANCH CIRCUITS PER NFPA 72 10.6.5.1.2. THE CIRCUIT NUMBER SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM EQUIPMENT PER NFPA 10.6.5.2.1. THE CIRCUIT BREAKER SHALL BE EQUIPPED WITH RED HANDLE AND LOCK-ON DEVICE, AND PERMANENTLY IDENTIFIED AS "FIRE ALARM CIRCUIT" PER NFPA 72 10.6.5.2.2, 10.6.5.2.3, 10.6.5.2.4, AND 10.6.5.4.
16. WIRING FOR 120/208V AND 277/480V SYSTEMS SHALL BE MIN. #12 AWG THWN-2 COPPER. ALL WIRING TO BE IN RACEWAYS. ALL RACEWAYS TO BE CONCEALED WITHIN WALLS & CEILINGS. WHERE EXISTING WALLS HAVE PLYWOOD TO REMAIN, MC CABLE & CUT-IN BOXES MAY BE USED FOR VERTICAL WIRING TO AVOID CUTTING WALLS FOR HORIZONTAL WIRING. FLEXIBLE CONDUIT FOR VERTICAL DATA CABLING RUNS MAY BE USED.
17. FEEDERS SIZE #4 AND LARGER SHALL BE MEGGER TESTED. TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER.
18. COLORS/FINISHES/MATERIALS FOR ALL ELECTRICAL DEVICES, PLATES, LIGHT FIXTURES, ETC. SHALL BE CHOSEN BY THE ARCHITECT.
19. CONTRACTOR SHALL EXTEND ALL SIGNAL AND FIRE ALARM SYSTEMS AS REQUIRED. MODIFY HEAD-IN EQUIPMENT TO ACCOMMODATE NEW DEVICES AS REQUIRED. VERIFY THE CONDITION AND EXPANDABILITY OF ALL HEAD-IN EQUIPMENT PRIOR TO BID AND MODIFY ACCORDINGLY.
20. CALL USA UNDERGROUND ALERT AND VERIFY WITH DISTRICT THE DESIRED ROUTING AND LOCATIONS OF UNDERGROUND CONDUITS AND STRUCTURES PRIOR TO TRENCHING.
21. EXISTING EQUIPMENT TO BE REMOVED AND/OR REPLACED SHALL BE DELIVERED TO THE DISTRICT MAINTENANCE DEPARTMENT OR DISPOSED OF, AT THE DISCRETION OF THE DISTRICT.
22. ALL CONDUITS UNDER CONCRETE OR ASPHALT WILL HAVE 24" MINIMUM COVER OF ROCK FREE NATIVE SOIL, METALLIC WARNING TAPE AT 12", AND NO ENCASEMENT REQUIRED. ALL CONDUITS THAT HAVE CONDUCTORS WITH A POTENTIAL OF 250 VOLT TO GROUND OR GREATER, THAT ARE NOT UNDER ASPHALT AND/OR CONCRETE SHALL REQUIRE 1,500 PSI CONCRETE ENCASEMENT, METALLIC WARNING TAPE AT 12", AND A MINIMUM COVER FROM TOP OF ENCASEMENT OF 24". ALL CONDUITS THAT HAVE CONDUCTORS WITH A POTENTIAL OF LESS THAN 250 VOLTS TO GROUND, THAT ARE NOT UNDER ASPHALT AND/OR CONCRETE WILL HAVE 30" MINIMUM COVER OF NATIVE SOIL, METALLIC WARNING TAPE AT 12" AND NO ENCASEMENT REQUIRED.
23. INSTALL GALVANIZED RIGID STEEL RISERS & ELBOWS WHERE THEY OCCUR. WRAP GALVANIZED RIGID STEEL BELOW GRADE. PVC SHALL NOT BE INSTALLED ABOVE GRADE.
24. CONDUIT INSTALLED ABOVE GRADE SHALL BE MIN. 3/4" TRADE SIZE. CONDUIT BELOW GRADE SHALL BE MIN. 1" TRADE SIZE.
25. PROVIDE (4) 1" CONDUIT STUBS FROM NEW ELECTRICAL PANEL TO ACCESSIBLE ATTIC SPACE FOR FUTURE USE.
26. CIRCUIT BREAKERS SERVING FIRE ALARM EQUIPMENT SHALL HAVE A RED HANDLE AND LOCK-ON DEVICE.
27. HOLES ARE NOT ALLOWED THROUGH TOP PLATES OF BEARING WALLS AND SHEAR WALLS.
28. INCLUDE FIRE STOP SYSTEMS REQUIRED FOR ALL WORK AFFECTED BY FIRE RATED ASSEMBLIES.
29. INCLUDE ALL WORK REQUIRED TO INVESTIGATE, DEMOLISH, & RECONNECT EXISTING ITEMS.

LIGHTING GENERAL NOTES:

1. THE CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM OF LIGHT FIXTURES AND CONTROLS THAT COMPLY WITH THE REQUIREMENTS OF CALIFORNIA ENERGY COMMISSION TITLE 24.
2. PROVIDE A COMPLETE AND OPERATIONAL CONTROLS PACKAGE IN LIGHTING AREAS. PROVIDE WALL SWITCHES, SENSORS, POWER PACKS, MISCELLANEOUS APPURTENANCES, FACTORY CABLING, AND FACTORY COMMISSIONING.
3. AN EQUAL SUBSTITUTE PACKAGE BY ANOTHER MANUFACTURER MAY BE ACCEPTABLE. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL REQUIRED COMPONENTS, ADDITIONAL WIRING FOR DIMMING OPERATION OF LIGHT FIXTURES, AND ANYTHING ELSE NEEDED FOR A COMPLETE AND OPERATIONAL SYSTEM. SUBMIT SUBSTITUTE PACKAGE, INCLUDING SHOP DRAWINGS, TO ENGINEER FOR REVIEW AND APPROVAL. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY RESULT IN REJECTION OF SUBSTITUTE COMPONENTS.
4. THE PLANS GENERALLY SHOW THE LOCATION OF SWITCHES, SENSORS, CONTROL MODULES ETC. ACTUAL LOCATIONS AND INSTALLATION REQUIREMENTS SHALL BE DETERMINED BY THE MANUFACTURER. SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL.
5. PROVIDE FACTORY COMMISSIONING, TO INCLUDE COMPLETE CONTROL WIRING/ CALIBRATION/ PROGRAMMING OF LIGHTING CONTROL COMPONENTS.
6. LIGHTING SYSTEM ACCEPTANCE TESTING IS REQUIRED AS PER TITLE 24. THE CONTRACTOR SHALL INCLUDE ACCEPTANCE TESTING COSTS IN BID. THE CONTRACTOR IS RESPONSIBLE TO MAKE ANY ADJUSTMENTS NECESSARY TO ACHIEVE ACCEPTANCE.
7. LIGHTING FIXTURE COLORS, WHEN NOT SPECIFIED, SHALL BE SELECTED BY THE ARCHITECT'S OFFICE. DO NOT SUBMIT COLORS THAT HAVE NOT BEEN APPROVED BY THE ARCHITECT.
8. THE OUTDOOR LIGHTING SYSTEMS SHALL COMPLY WITH ALL OF THE FOLLOWING:
   A. THE MINIMUM REQUIREMENTS IN CALIFORNIA ENERGY CODE FOR LIGHTING ZONE 3.
   B. BACKLIGHT, UPLIGHT, AND GLARE (BUG) RATINGS AS DEFINED IN IES TM-15-11.
   C. ALLOWABLE BUG RATINGS NOT EXCEEDING THOSE SHOWN ON TABLE 5.106.8. (CAL GREEN 5.106.8)

ELEC. EQUIPMENT ANCHORAGE NOTES:

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16, CHAPTERS 13, 26 AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING ELECTRICAL UTILITY SERVICE. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL ELECTRICAL COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

ELEC. DISTRIBUTION SYSTEM BRACING NOTES:

THE ELECTRICAL DISTRIBUTION SYSTEM SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16, SECTION 13.3 AS DEFINED IN ASCE 7-16, SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

OPTION 1: THE ELECTRICAL DISTRIBUTION SYSTEM IS DETAILED ON THE APPROVED DRAWINGS WITH SPECIFIC NOTES AND DETAILS.

ELECTRICAL SYMBOLS:

- LIGHT FIXTURE, CEILING OR WALL MOUNTED
- LIGHT FIXTURE EQUIPPED WITH EMERGENCY BATTERY BACKUP
- LIGHT FIXTURE, RECESSED CEILING, SURFACE CEILING, OR WALL MOUNTED
- LIGHT FIXTURE WITH EMERGENCY BATTERY BACKUP
- POLE LIGHT
- EMERGENCY EXIT LIGHT
- EMERGENCY EXIT LIGHT WITH EMERGENCY BATTERY BACKUP
- SINGLE POLE SWITCH, WALL MOUNTED +48" TO TOP OF BOX, UNLESS OTHERWISE NOTED
- INV — INVERTER
- WALL MOUNTED DUAL TECH OCCUPANCY SENSOR SWITCH, 0-10V DIMMING, AT +48" AFF TO TOP OF BOX
- DIGITAL DIMMER SWITCH, AT +48" AFF TO TOP OF BOX
- DIGITAL 'FRESCO GRAPHICAL TOUCHSCREEN DIMMING CONTROLLER AT +48 AFF TO TOP OF BOX
- M — DIGITAL OCCUPANCY SENSOR W/ PHOTOSENSOR DUAL-TECHNOLOGY CEILING MOUNT
- DG — DIGITAL GATEWAY
- DB — DIGITAL BRIDGE
- PP — DIMMING POWER PACK VERIFY 0-10V, 2- OR 3-WIRE MLV, OR ELV BY FIXTURE
- PP E — DIMMING POWER PACK W/ EMERGENCY CONTROL VERIFY 0-10V, 2- OR 3-WIRE MLV, OR ELV BY FIXTURE
- PR — RECEPTACLE RELAY CONTROLLED BY OCCUPANCY SENSOR
- DUPLEX RECEPTACLE, WALL MOUNTED +15" TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED
- E — RED DUPLEX RECEPTACLE ON STANDBY POWER, WALL MOUNTED +15" TO BOTTOM OF BOX, UNLESS OTHERWISE
- PTV — DUPLEX RECEPTACLE, CEILING MOUNTED AT PROJECTION TELEVISION
- FOUR-PLEX RECEPTACLE, WALL MOUNTED +15" TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED
- WEATHERPROOF, G.F.I. PROTECTED DUPLEX RECEPTACLE, WALL MOUNTED +15" TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED
- G.F.I. PROTECTED DUPLEX RECEPTACLE, WALL MOUNTED +15" TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED
- DUPLEX RECEPTACLE, HALF UN-SWITCHED & HALF LIGHTING CONTROLLER SWITCHED, WALL MOUNTED +15" TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED. EATON #WR-20
- FOUR-PLEX RECEPTACLE, HALF UN-SWITCHED & HALF LIGHTING CONTROLLER SWITCHED, WALL MOUNTED +15" TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED. EATON #(2)WR-20
- FLOOR POCKET OR BOX AS NOTED
- SPECIAL RECEPTACLE AS NOTED
- FIRE/SMOKE DAMPER MOTOR
- JUNCTION BOX
- MOTOR CONNECTION AND FUSIBLE DISCONNECT SWITCH, FUSE AS REQUIRED, NEMA 3R FOR OUTDOOR
- MOTOR CONNECTION, STARTER W/ OVERLOADS, AND FUSIBLE DISCONNECT SWITCH, FUSE AS REQUIRED, NEMA 3R FOR OUTDOOR
- POWER DISTRIBUTION BOARD OR WIRE GUTTER AS NOTED
- T — TRANSFORMER
- TERMINAL CABINET OR CONTROL PANEL AS NOTED
- EXISTING CONDUIT/WIRING TO BE DEMOLISHED
- EXISTING CONDUIT/WIRING
- LV — LOW VOLTAGE LIGHTING CONTROL CABLING
- WIRES IN CONDUIT, CONCEALED IN OR UNDER FLOOR
- WIRES IN CONDUIT, CONCEALED IN WALL OR CEILING
- A-2 — HOMERUN OF CONDUIT AND WIRING, CIRCUIT NO. 2 TO PANEL 'A'
- CROSS HATCHES INDICATE NUMBER OF #12 AWG. CONDUCTORS IN CONDUIT, WHEN MORE THAN TWO. WIRE SIZE INDICATED ON PLANS WHEN OTHER #12 AWG. PROVIDE GROUND PER CEC 250. (LARGE HATCHES ARE NEUTRAL CONDUCTORS, SMALL HATCHES ARE HOT OR SWITCH-LEG CONDUCTORS, CURVED HATCHES ARE 0-10V PURPLE & GREY CONDUCTORS)
- SURFACE / FLUSH — PANELBOARD
- SWP — PA SPEAKER, WP HORN & ENCLOSURE: ATLAS SOUND #IP-HVP SPEAKER AMD #IP-FEST-IH (FLUSH MOUNT) OR #IP-SEST-IH (SURFACE MOUNT) ENCLOSURE WITH CAT6 CABLE TO IDF
- CLOCK: ATLAS SOUND #IP-DM CLOCK AND #IP-FEC-DM (FLUSH MOUNT) OR #IP-SEC-DM (SURFACE MOUNT) ENCLOSURE WITH CAT6 CABLE TO IDF
- S — FLUSH PA WALL SPEAKER: ATLAS SOUND #IP-SM SPEAKER AND #IP-FEST-SD (FLUSH MOUNT) OR #IP-SEA-SD (SURFACE MOUNT) ENCLOSURE WITH CAT6 CABLE TO IDF
- S — FLUSH PA CEILING SPEAKER: ATLAS SOUND #IP-SM SPEAKER AND #IP-STBE (FLUSH MOUNT) OR #IP-SEA-SD (SURFACE MOUNT) ENCLOSURE WITH CAT6 CABLE TO IDF
- ATLAS SOUND #IP-SDM SPEAKER/CLOCK AND #IP-FEST-SD (FLUSH MOUNT) OR #IP-SEST-IH (SURFACE MOUNT) ENCLOSURE WITH CAT6 CABLE TO IDK
- IP CAMERA OUTLET (SAME AS SINGLE DATA OUTLET)
- SINGLE CAT6 DATA OUTLET: PROVIDE 4-11/15" BOX WITH ONE GANG RING FLUSH IN WALL AT +15" TO BOTTOM OF BOX, (UNLESS NOTED) 1-1/4"C TO CEILING SPACE & (1) CAT6 CABLE TO IDF
- 2 — COMBO DATA/(2) CAT6 JACK OUTLET: PROVIDE 4-11/15" BOX WITH ONE GANG RING FLUSH IN WALL AT +15" TO BOTTOM OF BOX, (UNLESS NOTED) 1-1/4"C TO CEILING SPACE & (2) CAT6 CABLES TO IDF
- SINGLE TEL. CAT6 OUTLET: PROVIDE 4-11/15" BOX WITH ONE GANG RING FLUSH IN WALL AT +15" TO BOTTOM OF BOX, (UNLESS NOTED) 1-1/4"C TO CEILING SPACE & (1) CAT6 CABLE TO IDF
- W — SINGLE WALL TELEPHONE CAT6 OUTLET: PROVIDE 4-11/16" BOX WITH ONE GANG RING FLUSH IN WALL AT +48" TO BOTTOM OF BOX, 1-1/4"C TO CEILING SPACE & (1) CAT6 CABLE TO IDF
- WIRELESS ACCESS POINT, DUAL CAT6A DATA OUTLET: PROVIDE 2 PORT SURFACE JACK IN CEILING SPACE ON SUPPORT WIRE, (2) CAT-6A CABLES TO IDF. MOUNT PER DETAIL E13/X/104.
- WALL MOUNT DATA/TELEPHONE OUTLET AT +18" AFF, U.O.N. (1) DATA JACK AND (1) TELEPHONE JACK U.O.N.
- 1 TV — WALL TV OUTLET: PROVIDE 3-GANG RING FLUSH IN WALL WITH 2"C TO CEILING SPACE (2) DATA JACK AND CAT6 CABLES TO IDF. (UNLESS NOTED OTHERWISE)
- TS — TEACHER'S STATION OUTLET: PROVIDE 1-GANG RING WITH 2"C TO CEILING SPACE.
- SP — TEACHERS CONTROL STATION
- SP — CLASSROOM AV CEILING SPEAKER
- SS — GYM SOUND SYSTEM SPEAKER
- (E) — EXISTING
- (N) — NEW
- W.P. — WEATHERPROOF
- U.O.N. — UNLESS OTHERWISE NOTED

REGISTERED PROFESSIONAL ENGINEER — R. J. HARDIN — No. 9125 — ELECTRICAL — STATE OF CALIFORNIA

Hardin-Davidson Engineering
356 Pollasky Ave, Suite 200
Clovis, CA 93612
559.323.4995 tel
559.323.4928 fax

PBK
ARCHITECT — PBK Architects, Inc
FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL FIELDHOUSE
200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

MADERA UNIFIED SCHOOL DISTRICT

PROFESSIONAL SEAL
LICENSED ARCHITECT — MICHAEL R. SCHOEN — No. C-35165 — RENEWAL DATE 08-31-2025 — STATE OF CALIFORNIA

PROJECT NUMBER 20-51
DATE 08/22/2023
DSA APPLICATION NO. 02 - 121624
FILE NO. 20-H3
PTN NO. 65243-153
DRAWN BY HDE

REVISIONS

#	DESCRIPTION	DATE
1	ADDENDUM 3	08/23/2025

ELECTRICAL GENERAL NOTES & SYMBOLS

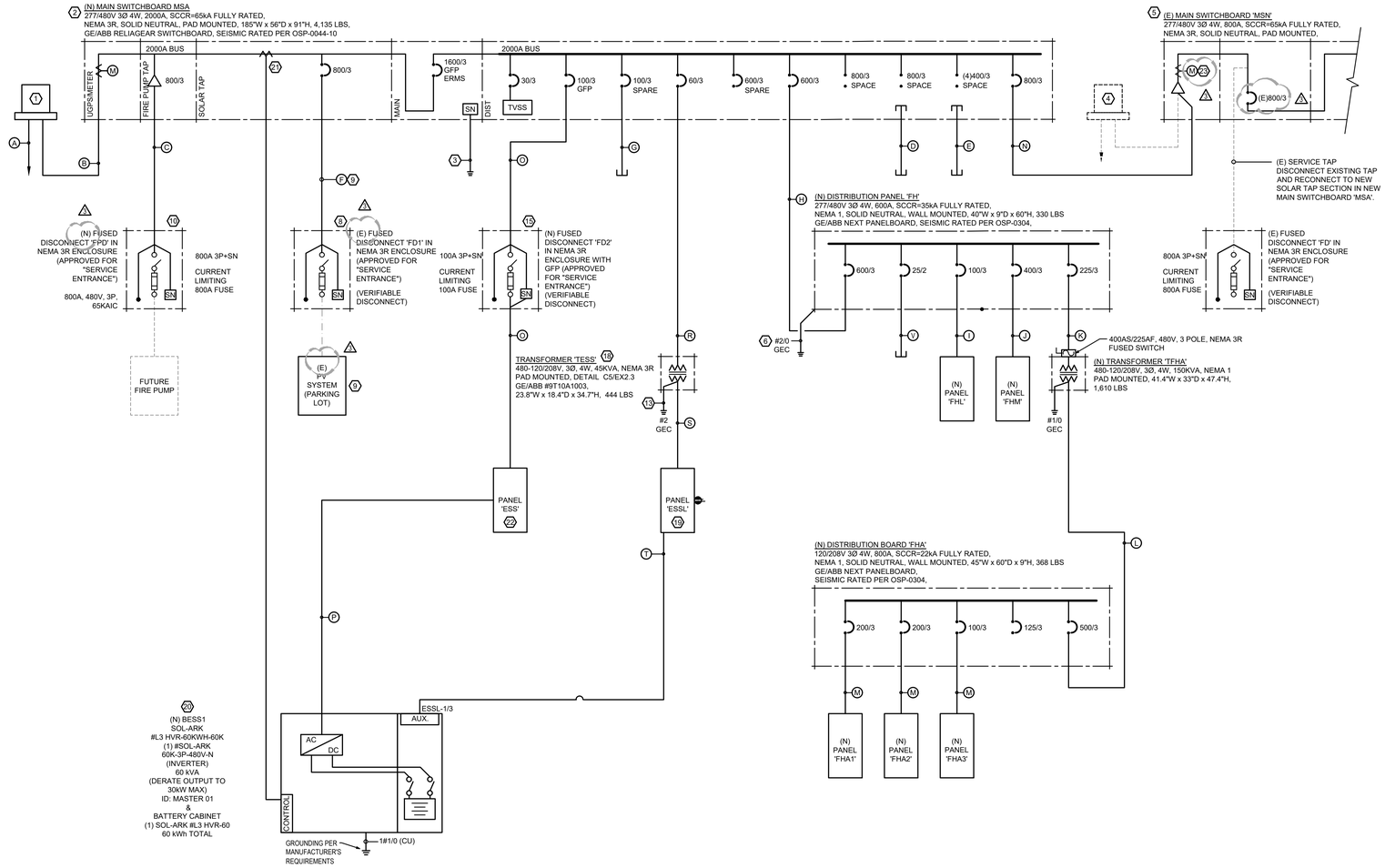
EX0.1

KEYNOTES

1. PAD MOUNTED P.G.&E. TRANSFORMER. PROVIDE TRANSFORMER PAD PER P.G.&E. REQUIREMENTS AND RULE 16 DRAWING. SEE DETAIL A12/EX2.1 FOR REFERENCE P.G.&E. DRAWING. MAXIMUM TRANSFORMER WEIGHT IS 13,000LBS. TRANSFORMER SPECIFIED, PROVIDED AND INSTALLED BY P.G.&E. CONCRETE PAD TO BE PRE-CAST BY PG&E APPROVED VENDOR. MOUNT PER DETAIL A15/EX2.1. NEW TRANSFORMER PAD TO BE PLACED IN SAME LOCATION OF EXISTING TRANSFORMER, SEE KEYNOTE 4.
2. PAD MOUNTED MAIN SWITCHBOARD 'MSA'. 2000A BUS/1600A MAIN, 277/480V, 3Ø, 4W, 65kA SCCR FULLY RATED, NEMA 3R, SOLID NEUTRAL, PAD MOUNTED. PROVIDE LOCK-OFF DEVICES FOR ALL CIRCUIT BREAKERS. PROVIDE HOUSEKEEPING PAD PER DETAIL C5/EX2.3. HOUSEKEEPING PAD SHALL BE FLUSH WITHIN 1/4" OF SURROUNDING SURFACE. PROVIDE GROUNDING PER DETAIL L5/EX2.3. MAIN SWITCHBOARD 'MSA' IS OWNER FURNISHED AND CONTRACTOR INSTALLED.
3. ELECTRODE CONDUCTOR PER DETAIL L5/EX2.3.
4. (E) PAD MOUNTED P.G.&E. PAD MOUNTED TRANSFORMER ON CONCRETE PAD. P.G.&E. TO REMOVE TRANSFORMER. CONTRACTOR TO REMOVE EXISTING CONCRETE TRANSFORMER PAD, ACCESSIBLE CONDUIT AND GROUND RODS AND RETURN TO SURROUNDING GRADE. (E) PAD MOUNT TRANSFORMER TO BE SET ASIDE WHILE NEW SECONDARY CONDUITS ARE INSTALLED. PROVIDE LOCATION ADJACENT TO PAD FOR TEMPORARY STORAGE OF TRANSFORMER. PROVIDE TEMPORARY SUPPORT FOR TRANSFORMER STORAGE. I.E. TRENCH PLATE. COORDINATE ANY REQUIREMENTS WITH PG&E AND DISTRICT.
5. (E) PAD MOUNTED MAIN SWITCHBOARD 'MSB'. P.G.&E. TO DISCONNECT AND REMOVE EXISTING SERVICE CONDUCTORS AND METER. CONTRACTOR TO CONNECT EXISTING 'MSB' TO NEW MAIN SWITCHBOARD 'MSA' PER FEEDER SCHEDULE. PROVIDE ANY REQUIRED CONNECTIONS TO REPLACE REMOVED P.G.&E. METER CTS. REMOVE ANY NEUTRAL TO GROUND BONDING JUMPERS PRESENT.
6. BOND TO BUILDING STRUCTURAL STEEL, COLD WATER PIPING, PER C.E.C. ARTICLE 250. PROVIDE 3/4" X 10' COPPER CLAD GROUND ROD.
7. NOT USED.
8. (E) SOLAR DISCONNECT TO REMAIN.
9. (E) SOLAR PHOTOVOLTAIC SYSTEM TO REMAIN. DISCONNECT EXISTING SOLAR SYSTEM FROM EXISTING FROM EXISTING SWITCHBOARD 'MSB' AND RECONNECT TO NEW SOLAR SYSTEM TAP IN NEW MAIN SWITCHBOARD 'MSA'. RELOCATE ANY CT SYSTEM FROM FROM THE EXISTING 'MSB' TO 'MSA'. EXTEND CONDUCTORS AS REQUIRED. COORDINATE WITH (E) SOLAR SYSTEM VENDOR AS REQUIRED.
10. (N) 800A FUSED FIRE PUMP DISCONNECT. SEE DETAIL C13/EX2.3.
11. (N) 600A, 277/480V, 3Ø, 4W, 35KA SCCR FULLY RATED, NEMA 1, DISTRIBUTION BOARD. MOUNT PER DETAIL L15/EX2.4.
12. 150kVA TRANSFORMER: 480/208/120V 3Ø 4W, 80°C RISE, NEMA 3R, K-4 RATED. TRANSFORMER SHALL BE INSULATION CLASS 220 OR HIGHER. PAD MOUNT PER DETAIL C5/EX2.3.
13. TRANSFORMER GROUNDING ELECTRODE CONDUCTOR PER DETAIL G5/EX2.3.
14. (N) 800A, 600A MAIN, 120/208V, 3Ø, 4W, 22KA SCCR FULLY RATED, NEMA 1, DISTRIBUTION BOARD. MOUNT PER DETAIL G9/EX2.3.
15. PG&E COMPLIANT VERIFIABLE DISCONNECT, 100A, 4-POLE, 277/480V, 200KAIC. SEE D8/EX2.4.
16. (N) 800A, 277/480V, 3Ø, 4W, 65KA SCCR FULL RATED, NEMA 3R, DISTRIBUTION BOARD. MOUNT PER DETAIL L15/EX2.4. PANEL SHALL BE CAPABLE OF INSTALLING A 450A/3P CIRCUIT BREAKER FOR FUTURE EXPANSION OF THE BATTERY ENERGY STORAGE SYSTEM TO 250KVA.
17. BATTERY ENERGY STORAGE SYSTEM CIRCUIT BREAKER SHALL BE INSTALLED AT THE OPPOSITE END OF THE BUS FROM THE SOURCE CONNECTION. BREAKER POSITION SHALL BE CAPABLE OF SUPPORTING A 450A/3P CIRCUIT BREAKER IN THE FUTURE. SEE KEYNOTE 16 ABOVE.
18. 45kVA TRANSFORMER: 480/208/120V 3Ø 4W, 80°C RISE, NEMA 3R, K-1 RATED. PAD MOUNT PER DETAIL C5/EX2.3.
19. (N) 150A, 120/208V, 3Ø, 4W, 10KA SCCR FULLY RATED, NEMA 3R, PANELBOARD 'ESSL'. MOUNT PER DETAIL XX/EX2.X. PROVIDE 20A, 120V, GFCI-PROTECTED, WEATHER RESISTANCE RECEPTACLE WITH WEATHERPROOF WHILE-IN-USE COVER MOUNTED TO SIDE OF PANEL 'ESSL'.
20. (N) 60KVA/120KWH, 277/480V, 3Ø, 4W, NEMA 3R BATTERY ENERGY STORAGE SYSTEM. PROVIDE ALL REQUIRED CONNECTIONS AND MATERIAL FOR INSTALLATION. SUPPLY FACTORY STARTUP. CONNECT SYSTEM TO NOT PROVIDE POWER BACK TO GRID NOR CHARGE FROM THE GRID. SYSTEM SHALL HAVE C.E.C. CERTIFICATION AS A POWER CONTROL SYSTEM. PROVIDE ALL REQUIRED COORDINATION WITH P.G.&E. SEE DETAIL A18/EX2.8.
21. PROVIDE AC CURRENT TRANSDUCERS RATED FOR 2000A. PROVIDE 1"C TO BESS. EXTEND CT CONDUCTORS PER MANUFACTURER'S REQUIREMENTS.
22. (N) 125A, 277/480V, 3Ø, 4W, 35KA SCCR FULLY RATED, NEMA 3R, PANELBOARD 'ESS'.
23. PROVIDE METERING BYPASS CONNECTION IF REQUIRED BY REMOVAL OF PG&E METERING EQUIPMENT.

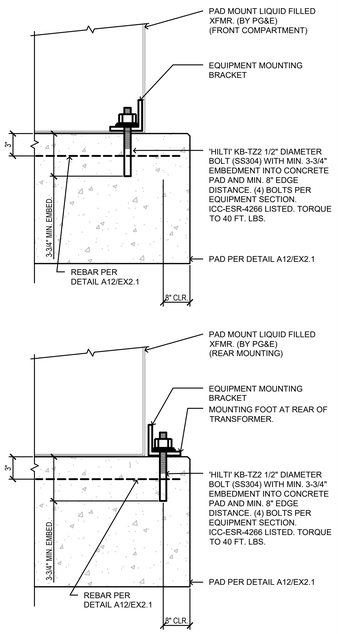
FEEDERS

- A. P.G.&E. PRIMARY CONDUIT. 4"C. PER P.G.&E. REQUIREMENTS.
- B. INCOMING P.G.&E. SECONDARY. 7-5"C. PER P.G.&E. REQUIREMENTS.
- C. (2)4"C. 4#600 KCMIL CU, 1#1/0 CU GRD.
- D. (6)4"C. (SPARE - FUTURE) STUB 10' NORTH OF 'MSA'
- E. (2)2"C. (SPARE - FUTURE) STUB TO PULLBOX 'P2'. SEE SHEET ES1.1.
- F. (2)3-1/2"C. 3#600 KCMIL CU, 1#3/0 CU NEUT., 1#3/0 CU GRD EA.
- G. 2"C. (SPARE - FUTURE PUMP HOUSE)
- H. (2)4"C. 4#350 KCMIL CU, 1#1 CU GRD EA.
- I. 2"C. 4#3 CU, 1#8 CU GRD.
- J. 3"C. 4#500 KCMIL CU, 1#3 CU GRD.
- K. 2-1/2"C. 3#4/0 CU, 1#4 CU GRD EA.
- L. (2)2"C. 4#250 KCMIL CU, 1#2 CU GRD EA.
- M. 2"C. 4#3/0 CU. 1#6 CU GRD.
- N. (2)4"C. 4#600 KCMIL CU, 1#1/0 CU GRD. EA.
- O. 2"C. 4#3 CU, 1#8 CU GRD.
- P. 1.25"C. 4#3 CU, 1#8 CU GRD.
- Q. 1"C. 4#12 CU, 1#12 CU GRD.
- R. 1"C. 3#6 CU, 1#8 CU GRD.
- S. 2"C. 4#3/0 CU, 1#6 CU GRD.
- T. 1"C. 2#10 CU, 1#10 CU GRD.
- U. 1"C. 2#3 RHW-2 1000V RATED WIRE (BATTERY CABINET TO BATTERY CABINET)
- V. 1.25"C STUB



G15 SINGLE LINE DIAGRAM

NO SCALE



A15 PG&E TRANSF. MNT'G DETAIL

NO SCALE

UG-1: Transformers
Greenbook

Concrete Pad for Three-Phase, Loop-Style, Pad-Mounted Transformers

Concrete Pad Details for Style IID, IIE, and IIG Transformers

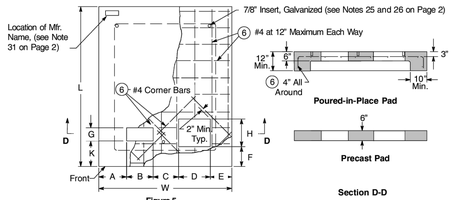


Figure 5
Construction Details of Style IID, IIE, IIG Pad
(see Figure 2 on Page 6 for pad arrangement)

Table 3 Dimensions and Codes for Style IID, IIE, and IIG Transformer Pads [1]

Transformer			Pad Dimensions (inches)											
Style	kVA Size	Approximate Maximum Weight (lbs)	A	B	C	D	E	F	G	H	K	L	W	Code
IID and IIE	75	4,600	17	16	15	19	13	10	6	17	14	61	80	040291
	(112.5) [2]	4,800												
	150	5,000												
	(225) [2]	5,500												
IIE	300	5,800	22	16	15	20	17	20	6	19	25	106	90	040292
	(500) [2]	6,100												
	750	9,000												
	1,000	11,000												
	1,500	13,000												
IIE	2,500	16,000	22	16	15	20	17	20	6	19	25	106	90	040292
IIG	2955/3325	22,000												

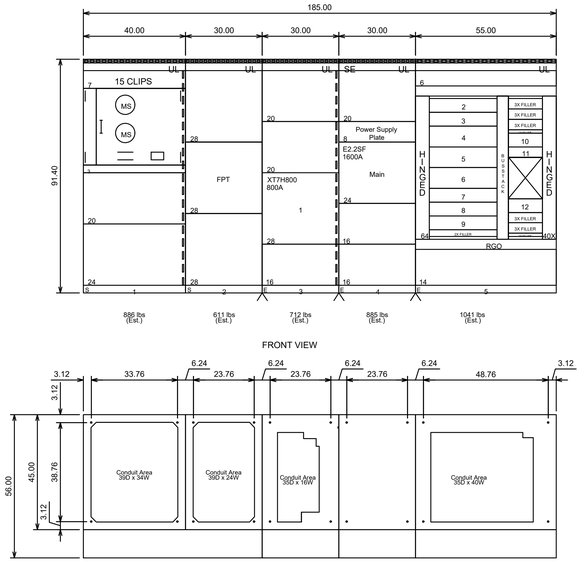
1 See Document 066211 for approved suppliers.
2 ( ) = Indicates a kVA size that is no longer purchased.

Revision Notes
Revision 13 has the following changes:
1. Add Note 10 on Page 1.

045292 Page 8 of 8 Rev. #13: 12-01-19

A12 PG&E TRANSFORMER PAD DETAIL (FOR REFERENCE ONLY)

NO SCALE



A7 SWITCHBOARD ELEVATION AND PLAN VIEW DETAIL

NO SCALE

PBK

ARCHITECT PBK Architects, Inc.
FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL FIELDHOUSE

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

MADERA 19 66 UNIFIED SCHOOL DISTRICT

PROFESSIONAL SEAL

LICENSED ARCHITECT
MICHAEL R. SCHOEN
No. C-35165
RENEWAL DATE 10-09-26, 2025
STATE OF CALIFORNIA

PROJECT NUMBER	20-51
DATE	08/22/2023
DSA APPLICATION NO.	02 - 121624
FILE NO.	20-H3
PTN NO.	65243-153
DRAWN BY	HDE

REVISIONS

#	DESCRIPTION	DATE
3	ADDENDUM 3	08/23/2025

ELECTRICAL SINGLE LINE DIAGRAM

EX2.1

REGISTERED PROFESSIONAL ENGINEER
R. J. HARDIN
No. 9125
ELECTRICAL
STATE OF CALIFORNIA

Hardin-Davidson Engineering
356 Pollasky Ave, Suite 200
Clovis, CA 93612
559.323.4995 tel
559.323.4928 fax

PANEL "MSA" SCHEDULE

277/480V 3Φ 4W — OUTDOOR / PAD

CKT. NO.	DESCRIPTION	BREAKER AMPS	BREAKER POLE(S)	VA	Φ	VA	BREAKER AMPS	BREAKER POLE(S)	DESCRIPTION	CKT. NO.
1	EXIST 'MSB'	800	3	177357	A		400	3	SPACE ONLY	2
3	-----	--	--	177357	B		--	--	-----	4
5	-----	--	--	177357	C		--	--	-----	6
7	PANEL 'PH'	100	3	80326	A		400	3	SPACE ONLY	8
9	-----	--	--	78498	B		--	--	-----	10
11	-----	--	--	82222	C		--	--	-----	12
13	PANEL 'FH'	400	3		A		400	3	SPACE ONLY	14
15	-----	--	--		B		--	--	-----	16
17	-----	--	--		C		--	--	-----	18
19	SPACE ONLY	800	3		A		400	3	SPACE ONLY	20
21	-----	--	--		B		--	--	-----	22
23	-----	--	--		C		--	--	-----	24
25	SPACE ONLY	800	3		A		225	3	SPACE ONLY	26
27	-----	--	--		B		--	--	-----	28
29	-----	--	--		C		--	--	-----	30
31	SPACE ONLY				A		225	3	SPACE ONLY	32
33	SPACE ONLY				B		--	--	-----	34
35	SPACE ONLY				C		--	--	-----	36
37	SPACE ONLY				A				SPACE ONLY	38
39	SPACE ONLY				B				SPACE ONLY	40
41	SPACE ONLY				C				SPACE ONLY	42

LOAD SUMMARY: Φ A 257683 VA; Φ B 255855 VA; Φ C 259579 VA
CONNECTED LOAD: 773.1 kVA
MAX CURRENT: 937 A

BUSING: 2000A CU
MAIN: 1600A
SCCR: 65000 AMPS

PANEL "FH" SCHEDULE

277/480V 3Φ 4W — INDOOR / SURFACE

CKT. NO.	DESCRIPTION	BREAKER AMPS	BREAKER POLE(S)	VA	Φ	VA	BREAKER AMPS	BREAKER POLE(S)	DESCRIPTION	CKT. NO.
1	PANEL 'FHL'	200	3	2121	A					2
3	--	--	--	1553	B					4
5	--	--	--	2264	C					6
7	PANEL 'FHM'	400	3	60362	A					8
9	--	--	--	60362	B					10
11	--	--	--	60362	C					12
13					A					14
15					B					16
17					C					18
19					A					20
21					B					22
23					C					24
25					A					26
27					B					28
29					C					30
31					A					32
33					B					34
35					C					36
37	XFMR. 'TFHA' (PANEL "FHA")	225	3	17843	A					38
39	-----	--	--	16583	B					40
41	-----	--	--	19596	C					42

LOAD SUMMARY: Φ A 80326 VA; Φ B 78498 VA; Φ C 82222 VA
CONNECTED LOAD: 241.0 kVA
MAX CURRENT: 297 A

BUSING: 600A CU
MAIN: 600A M.C.B.
SCCR: 35000 AMPS

PANEL "FHL" SCHEDULE

277/480V 3Φ 4W — INDOOR / SURFACE

CKT. NO.	DESCRIPTION	BREAKER AMPS	BREAKER POLE(S)	VA	Φ	VA	BREAKER AMPS	BREAKER POLE(S)	DESCRIPTION	CKT. NO.
1	LTS - ELECTRICAL ROOM, WEST BLDG (EM. LTG)	20	1	1701	A	420	20	1	LTS - EXTERIOR	2
3	LTS - CENTRAL BLDG (EM. LTG)	20	1	1353	B	200	20	1	LIGHTING CTRL. PANEL 'LCP-FH'	4
5	LTS - EAST BLDG. (EM. LTG)	20	1	2264	C		20	1		6
7		20	1		A		20	1		8
9		20	1		B		20	1		10
11		20	1		C		20	1		12
13		20	1		A		20	1		14
15		20	1		B		20	1		16
17		20	1		C		20	1		18
19		20	1		A		20	1		20
21		20	1		B		20	1		22
23		20	1		C		20	1		24
25		20	1		A		20	1		26
27		20	1		B		20	1		28
29		20	1		C		20	1		30
31		20	1		A		20	1		32
33		20	1		B		20	1		34
35		20	1		C		20	1		36
37		20	1		A		20	1		38
39		20	1		B		20	1		40
41		20	1		C		20	1		42

LOAD SUMMARY: Φ A 2121 VA; Φ B 1553 VA; Φ C 2264 VA
CONNECTED LOAD: 5.9 kVA
MAX CURRENT: 8 A

BUSING: 125A CU
MAIN: 100A M.L.O.
SCCR: 35000 AMPS

PANEL "FHM" SCHEDULE

277/480V 3Φ 4W — INDOOR / SURFACE

CKT. NO.	DESCRIPTION	BREAKER AMPS	BREAKER POLE(S)	VA	Φ	VA	BREAKER AMPS	BREAKER POLE(S)	DESCRIPTION	CKT. NO.
1	HP-1	50	3	8033	A	253	20	3	CF-1A, CF-1B	2
3	--	--	--	8033	B	253	--	--	--	4
5	--	--	--	8033	C	253	--	--	--	6
7	HP-2	50	3	8033	A					8
9	--	--	--	8033	B					10
11	--	--	--	8033	C					12
13	HP-3	50	3	8310	A					14
15	--	--	--	8310	B					16
17	--	--	--	8310	C					18
19	HP-4	80	3	16066	A					20
21	--	--	--	16066	B					22
23	--	--	--	16066	C					24
25	HP-5	50	3	8033	A					26
27	--	--	--	8033	B					28
29	--	--	--	8033	C					30
31	HP-6	70	3	11634	A					32
33	--	--	--	11634	B					34
35	--	--	--	11634	C					36
37					A					38
39					B					40
41					C					42

LOAD SUMMARY: Φ A 60362 VA; Φ B 60362 VA; Φ C 60362 VA
CONNECTED LOAD: 181.1 kVA
MAX CURRENT: 218 A

BUSING: 400A CU
MAIN: 400A M.L.O.
SCCR: 35000 AMPS

PANEL "FHA" SCHEDULE

120/208V 3Φ 4W — INDOOR / SURFACE

CKT. NO.	DESCRIPTION	BREAKER AMPS	BREAKER POLE(S)	VA	Φ	VA	BREAKER AMPS	BREAKER POLE(S)	DESCRIPTION	CKT. NO.
1	PANEL 'FHA1'	200	3	5208	A					2
3	-----	--	--	5680	B					4
5	-----	--	--	6048	C					6
7	PANEL 'FHA2'	200	3	10355	A					8
9	-----	--	--	9295	B					10
11	-----	--	--	10920	C					12
13	PANEL 'FHA3'	100	3	2280	A					14
15	-----	--	--	1608	B					16
17	-----	--	--	2628	C					18
19	SOLAR INVERTER	125	3	0	A					20
21	-----	--	--	0	B					22
23	-----	--	--	0	C					24
25					A					26
27					B					28
29					C					30
31					A					32
33					B					34
35					C					36
37					A					38
39					B					40
41					C					42

LOAD SUMMARY: Φ A 17843 VA; Φ B 16583 VA; Φ C 19596 VA
CONNECTED LOAD: 54.0 kVA
MAX CURRENT: 163 A

BUSING: 800A CU
MAIN: 500A M.L.O.
SCCR: 22000 AMPS
* PROVIDE RED HANDLE C.B. W/ INTEGRAL LOCK-ON DEVICE
** PROVIDE GFI CIRCUIT BREAKER

PANEL "FHA1" SCHEDULE

120/208V 3Φ 4W — INDOOR / SURFACE

CKT. NO.	DESCRIPTION	BREAKER AMPS	BREAKER POLE(S)	VA	Φ	VA	BREAKER AMPS	BREAKER POLE(S)	DESCRIPTION	CKT. NO.
1	RECEP - ELECTRICAL	20	1	180	A	180	20	1	RECEP - MECHANICAL 111	2
3	RECEP - OFFICE 102, TOILET 103	20	1	720	B	360	20	1	RECEP - TOILET 112, 113	4
5	RECEP - TEAM ROOM 128 SOUTH & WEST	20	1	720	C	360	20	1	RECEP - JANITOR 114	6
7	RECEP - TEAM ROOM 128 NORTH & EAST	20	1	540	A	540	20	1	RECEP - MENS R.R. 115, MECH. CHASE 116	8
9	RECEP - WEIGHT ROOM 101 WEST & NORTH	20	1	900	B	720	20	1	RECEP - WOMENS R.R. 117, STORAGE 120, 121	10
11	RECEP - WEIGHT ROOM 101 NORTH & EAST	20	1	900	C	720	20	1	RECEP - SOFTBALL LOCKERS 109	12
13	RECEP - WEIGHT ROOM 101 COLUMNS	20	1	360	A	720	20	1	RECEP - STOR 105, TOILET 106, STOR 107, CR 108	14
15	RECEP - WEIGHT ROOM 101 WEST TREADMILL	20	1	600	B	540	20	1	RECEP - HALL 118, R.R. 127, TOILET 126	16
17	RECEP - WEIGHT ROOM 101 WEST TREADMILL	20	1	600	C	360	20	1	RECEP - SOCCER RM 124	18
19	RECEP - WEIGHT ROOM 101 WEST TREADMILL	20	1	600	A	540	20	1	RECEP - OFFICE 125	20
21	RECEP - WEIGHT ROOM 101 WEST TREADMILL	20	1	600	B	0	20	1	SPARE	22
23	RECEP - OFFICE 129	20	1	1080	C	0	20	1	SPARE	24
25	RECEP - PT ROOM 130	20	1	360	A	0	20	1	SPARE	26
27	RECEP - STORAGE 131, 132	20	1	540	B	0	20	1	SPARE	28
29	RECEP - PT ROOM 130 ICE MACHINE	20	1	348	C	0	20	1	SPARE	30
31	RECEP - PT ROOM 130 ICE BATH WHIRLPOOL	20	1	828	A	0	20	1	SPARE	32
33	RECEP - TEAM ROOM 128 TV	20	1	180	B	200	20	1	FIRE BELL*	34
35	SPARE	20	1		C	720	20	1	RECEP - IT ROOM	36
37	SPARE	20	1		A	360	20	1	RECEP - IDU	38
39	SPARE	20	1		B	500	20	1	EMS PANEL	40
41	SPARE	20	1		C	240	20	1	FACP-F*	42

LOAD SUMMARY: Φ A 5208 VA; Φ B 5860 VA; Φ C 6048 VA
CONNECTED LOAD: 17.1 kVA
MAX CURRENT: 50 A

BUSING: 200A CU
MAIN: 200A M.L.O.
SCCR: 22000 AMPS
* PROVIDE RED HANDLE C.B. W/ INTEGRAL LOCK-ON DEVICE
** PROVIDE GFI CIRCUIT BREAKER

PANEL "FHA2" SCHEDULE

120/208V 3Φ 4W — INDOOR / SURFACE

CKT. NO.	DESCRIPTION	BREAKER AMPS	BREAKER POLE(S)	VA	Φ	VA	BREAKER AMPS	BREAKER POLE(S)	DESCRIPTION	CKT. NO.
1	DRINKING FOUNTAIN - SOFTBALL LOCKERS 109*	20	1	15	A	1260	20	1	RECEP - ROOF MAINT	2
3	DRINKING FOUNTAIN - SOCCER ROOM 124*	20	1	15	B	240	20	1	TRAP PRIMER	4
5	DRINKING FOUNTAIN - WEIGHT ROOM 101*	20	1	15	C	276	20	1	HOT WATER CIRC PUMP	6
7	SPARE	20	1	0	A	240	20	1	WATER HEATER	8
9	SPARE	20	1	0	B	200	20	1	EMS PANEL	10
11	SPARE	20	1	0	C	738	20	2	EF-1 (1HP)	12
13	SPARE	20	1	0	A	738	--	--	--	14
15	SPARE	20	1	0	B	738	20	2	EF-2 (1HP)	16
17	SPARE	20	1	0	C	738	--	--	--	18
19	SPARE	20	1	0	A	926	20	2	ERV-1 (1/2 HP)	20
21	SPARE	20	1	0	B	926	--	--	--	22
23	SPARE	20	1	0	C	2600	35	2	ODU-1.1	24
25	SPARE	20	1	0	A	2600	--	--	--	26
27	SPARE	20	1	0	B	2600	35	2	ODU-1.2	28
29	SPARE	20	1	0	C	2600	--	--	--	30
31	SPARE	20	1	0	A	2600	35	2	ODU-1.3	32
33	SPARE	20	1	0	B	2600	--	--	--	34
35	SPARE	20	1	0	C	1976	30	2	ODU-2	36
37	SPARE	20	1	0	A	1976	--	--	--	38
39	SPARE	20	1	0	B	1976	30	2	ODU-3	40
41	SPARE	20	1	0	C	1976	--	--	--	42

LOAD SUMMARY: Φ A 10355 VA; Φ B 9295 VA; Φ C 10920 VA
CONNECTED LOAD: 30.6 kVA
MAX CURRENT: 91 A

BUSING: 200A CU
MAIN: 200A M.L.O.
SCCR: 22000 AMPS
* PROVIDE GFCI BREAKER
**

PANEL "FHA3" SCHEDULE

120/208V 3Φ 4W — INDOOR / FLUSH

CKT. NO.	DESCRIPTION	BREAKER AMPS	BREAKER POLE(S)	VA	Φ	VA	BREAKER AMPS	BREAKER POLE(S)	DESCRIPTION	CKT. NO.
1	RECEP - FREEZER	20	1	1140	A	180	20	1	RECEP - SOUTH WALL	2
3	RECEP - ICE MACHINE	20	1	348	B	540	20	1	RECEP - WEST WALL	4
5	RECEP - REFRIGERATOR	20	1	1908	C	360	20	1	RECEP - NORTH WALL	6
7	ICE MAKER CONDENSER	20	2	720	A	240	20	1	TRAP PRIMER	8
9	--	--	--	720	B	0	20	1	SPARE	10
11	RECEP - EAST WALL	20	1	360	C	0	20	1	SPARE	12
13					A					14
15					B					16
17					C					18
19					A					20
21					B					22
23					C					24
25					A					26
27					B					28
29					C					30

LOAD SUMMARY: Φ A 2280 VA; Φ B 1608 VA; Φ C 2628 VA
CONNECTED LOAD: 6.5 kVA
MAX CURRENT: 22 A

BUSING: 100A CU
MAIN: 100A M.L.O.
SCCR: 22000 AMPS
*
**

PANEL "ESS" SCHEDULE

277/480V 3Φ 4W — OUTDOOR / SURFACE

CKT. NO.	DESCRIPTION	BREAKER AMPS	BREAKER POLE(S)	VA	Φ	VA	BREAKER AMPS	BREAKER POLE(S)	DESCRIPTION	CKT. NO.
1	BESS-1*	100	3	10000	A	0	20	1	SPACE	2
3	--	--	--	10000	B	0	20	1	SPACE	4
5	--	--	--	10000	C	0	20	1	SPACE	6
7	SPACE	20	1	0	A	10000	100	3	SPARE (FUTURE BESS-2)*	8
9	SPACE	20	1	0	B	10000	--	--		10
11	SPACE	20	1	0	C	10000	--	--		12
13	SPACE	20	1	0	A	0	20	1	SPACE	14
15	SPACE	20	1	0	B	0	20	1	SPACE	16
17	SPACE	20	1	0	C	0	20	1	SPACE	18

LOAD SUMMARY: Φ A 20000 VA; Φ B 20000 VA; Φ C 20000 VA
CONNECTED LOAD: 60.0 kVA
MAX CURRENT: 72 A

BUSING: 125A CU
MAIN: 125A M.L.O.
SCCR: 35000 AMPS (FULLY RATED)
NOTES: * PROVIDE LOCK OFF DEVICE ON BREAKER

PANEL "ESSL" SCHEDULE

120/208V 3Φ 4W — OUTDOOR / SURFACE

CKT. NO.	DESCRIPTION	BREAKER AMPS	BREAKER POLE(S)	VA	Φ	VA	BREAKER AMPS	BREAKER POLE(S)	DESCRIPTION	CKT. NO.
1	BATTERY CABINET #1 AUXILLARY*	20	2	1500	A	180	20	1	RECEP - SERVICE	2
3	--	--	--	1500	B					4
5	SPARE*	20	2	0	C					6
7	--	--	--	0	A					8
9					B					10
11					C					12
13					A					14
15					B					16
17					C					18
19					A					20
21					B					22
23					C					24
25					A					26
27					B					28
29					C					30

LOAD SUMMARY: Φ A 1680 VA; Φ B 1500 VA; Φ C 0 VA
CONNECTED LOAD: 3.2 kVA
MAX CURRENT: 14 A

BUSING: 225A CU
MAIN: 150A M.C.B.
SCCR: 10000 AMPS
*
**

REGISTERED PROFESSIONAL ENGINEER — R. J. HARDIN — No. 9125 — ELECTRICAL — STATE OF CALIFORNIA

Hardin-Davidson Engineering
356 Pollasky Ave, Suite 200
Clovis, CA 93612
559.323.4995 tel
559.323.4928 fax

PBK
ARCHITECT PBK Architects, Inc
FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL FIELDHOUSE

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

MADERA 19 66 UNIFIED SCHOOL DISTRICT

PROFESSIONAL SEAL

LICENSED ARCHITECT — MICHAEL R. SCHOEN — No. C-30165 — RENEWAL DATE 08.31.2025 — STATE OF CALIFORNIA

PROJECT NUMBER
20-51

DATE
08/22/2023

DSA APPLICATION NO.
02 - 121624

FILE NO.
20-H3

PTN NO.
65243-153

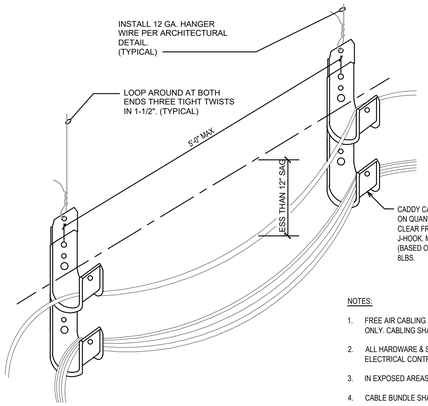
DRAWN BY
HDE

REVISIONS

#	DESCRIPTION	DATE
1	ADDENDUM 3	08/23/2025

PANEL SCHEDULES

EX2.2

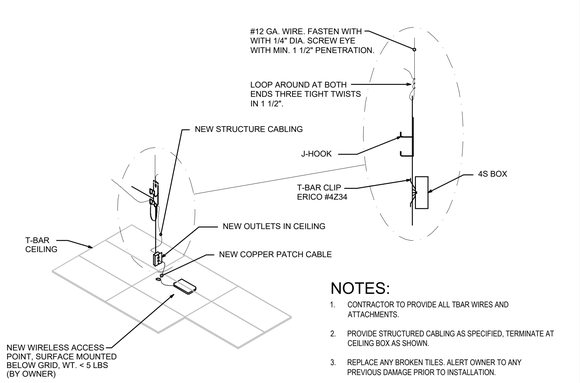


NOTES:

1. FREE AIR CABLING APPLIES TO ACCESSIBLE ATTIC SPACES ONLY. CABLING SHALL NOT BE INSTALLED EXPOSED TO VIEW.
2. ALL HARDWARE & SUSPENSION WIRES SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.
3. IN EXPOSED AREAS, CABLING SHALL BE INSTALLED IN CONDUIT.
4. CABLE BUNDLE SHALL NOT EXCEED 5LB PER LINEAR FOOT.

L15 TYPICAL J-HOOK CABLE SUPPORT DETAIL

SCALE:



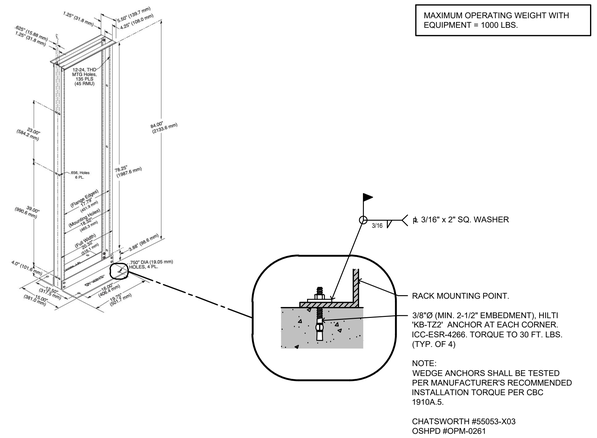
NOTES:

1. CONTRACTOR TO PROVIDE ALL TBAR WIRES AND ATTACHMENTS.
2. PROVIDE STRUCTURED CABLING AS SPECIFIED, TERMINATE AT CEILING BOX AS SHOWN.
3. REPLACE ANY BROKEN TILES. ALERT OWNER TO ANY PREVIOUS DAMAGE PRIOR TO INSTALLATION.

L10 TYPICAL WIRELESS ACCESS POINT AT T-BAR CEILING

SCALE:

MAXIMUM OPERATING WEIGHT WITH EQUIPMENT = 1000 LBS.

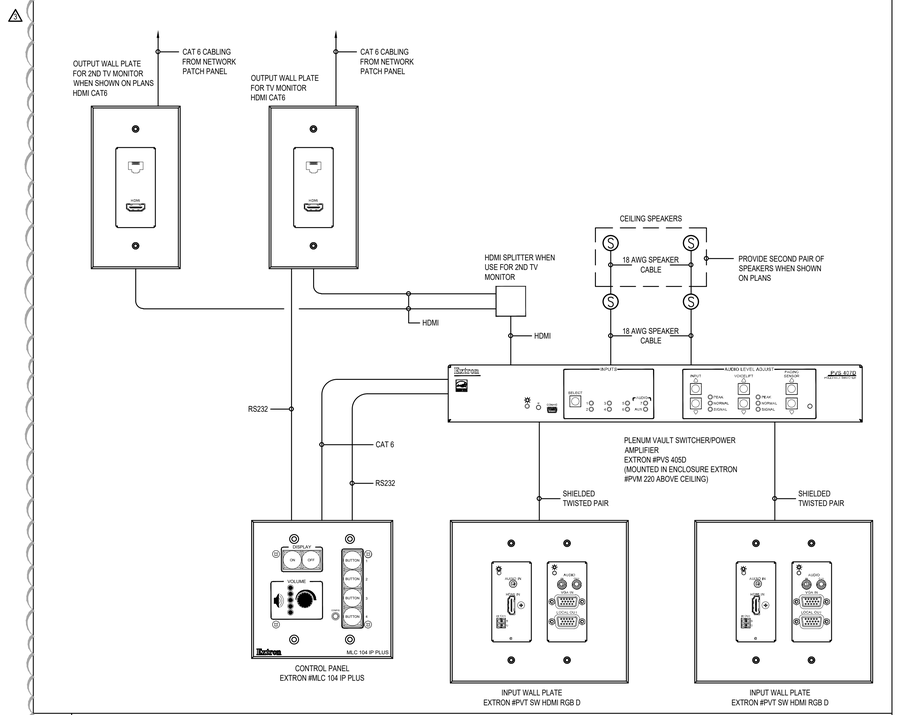


NOTE:
WEDGE ANCHORS SHALL BE TESTED PER MANUFACTURER'S RECOMMENDED INSTALLATION TORQUE PER CBC 1910A.5.

CHATSWORTH #55053-X03
OSHPD #OPM-0261

L5 FLOOR MOUNT 2 POST RACK MOUNTING DETAIL

SCALE: NO SCALE



E7 CLASSROOM AV RISER

SCALE: NO SCALE

PBK

ARCHITECT PBK Architects, Inc

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL FIELDHOUSE

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

MADERA UNIFIED SCHOOL DISTRICT

PROFESSIONAL SEAL

LICENSED ARCHITECT — MICHAEL R. SCHOEN — No. C-35165 — RENEWAL DATE: FEB 28, 2025 — STATE OF CALIFORNIA

PROJECT NUMBER	20-51
DATE	08/22/2023
DSA APPLICATION NO.	02 - 121624
FILE NO.	20-H3
PTN NO.	65243-153
DRAWN BY	HDE

REVISIONS

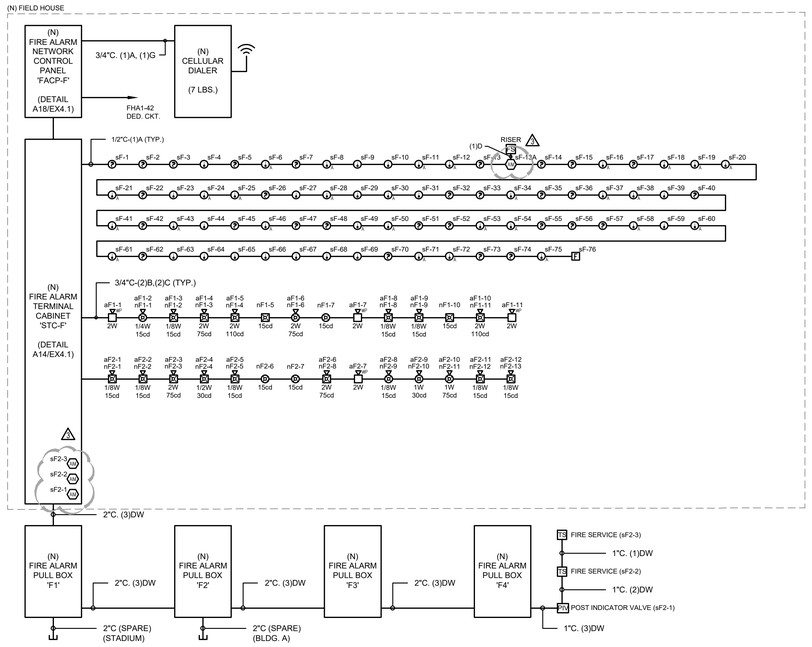
#	DESCRIPTION	DATE
3	ADDENDUM 3	08/23/2025

ELECTRICAL LOW VOLTAGE DETAILS

EX3.1

REGISTERED PROFESSIONAL ENGINEER — R. J. HARDIN — No. 9125 — ELECTRICAL — STATE OF CALIFORNIA

Hardin-Davidson Engineering
356 Pollasky Ave, Suite 200
Clovis, CA 93612
559.323.4995 tel
559.323.4928 fax



BATTERY CALCULATION

F.A. Control Panel 'F'

POWER REQUIREMENTS

	CURRENT [A] SUPERVISORY	ALARM
ILI-MB-E3 (SLCs at max. output)	0.0810	0.1500
DACT-E3 (Communicator)	0.0180	0.0180
LCD-E3 (Panel Display)	0.0240	0.2800
ASM-16 (Panel Switches)	0.0110	0.1550
PM-9 (Power Supply)	0.0500	0.0500
RPT-E3-UTP (Network Repeater)	0.0160	0.0170
FSL-E3 (SM FO Module)	0.0790	0.0790
INI-VG (Voice Gateway)	0.1500	0.1500
AM-50-70 (Amp)	0.0490	2.3000
INCC-MIC (Paging Microphone)	0.0010	0.0010
NGA (Annunciator)	0.2000	0.2000
NAC Circuits	-	0.0000
AUDIO Circuits	-	0.0000
TOTALS	0.6790	3.4000

BATTERY CAPACITY

SUPERVISORY POWER (24 HOURS)	= 24 Hr * .679A =	16.296 AHr
ALARM POWER (15 MINUTES)	= 0.25 Hr * 3.4A =	0.850 AHr
TOTAL POWER REQUIREMENT =		17.146 AHr
MINIMUM BATTERY CAPACITY (includes 25% safety factor) =		22 AHr

VOLTAGE DROP CALCULATION

NAC Circuit 'nF1'

VD = Voltage Drop [V]
I = Current [A] (0.446A)
K = 12.9 (Copper Constant)
L = Distance to Load [ft.] (500')
CM = Circular Mils (#12 AWG = 6530)
V = Voltage [V] (24VDC)

$VD = \frac{K * I * 2L}{CM} = \frac{12.9 * 0.446 * 2 * 500'}{6530} = 0.881\ V$

$VD\% = \frac{VD}{24} = 3.7\%$

VOLTAGE DROP CALCULATION

NAC Circuit 'nF2'

VD = Voltage Drop [V]
I = Current [A] (0.416A)
K = 12.9 (Copper Constant)
L = Distance to Load [ft.] (270')
CM = Circular Mils (#12 AWG = 6530)
V = Voltage [V] (24VDC)

$VD = \frac{K * I * 2L}{CM} = \frac{12.9 * 0.416 * 2 * 270'}{6530} = 0.444\ V$

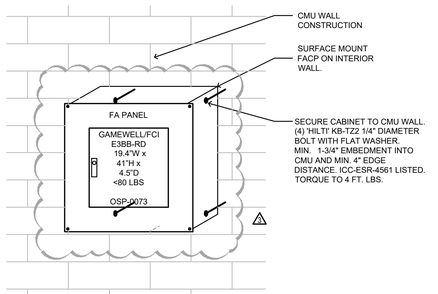
$VD\% = \frac{VD}{24} = 1.8\%$

VOICE EVACUATION SPEAKER VOLTAGE DROP

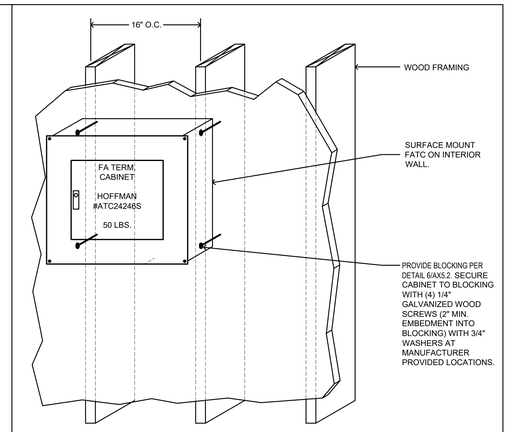
Volt Drop Common Parameters

Volts 70.7 Volts
Wire Size 14 AWG
Wire Resistance 3.26 ohm/Kft

Type	INDOOR					OUTDOOR				CIRCUIT LENGTH		
Wattage Tap	1/8 W	1/4 W	1/2W	1W	2W	1W	2W	4W	8W	Total Watts	Max Length	Actual Length
aF1	3	1		1	4		3			15.625	5814	500
aF2	6		1	2	2		1			9.25	9821	270



A18 FA PANEL MOUNTING DETAIL
SCALE: NO SCALE



A14 FIRE ALARM TERMINAL CABINET MOUNTING DETAIL
SCALE: NO SCALE

FIRE ALARM GENERAL NOTES

1. FIRE ALARM SYSTEM: ADDRESSABLES, CLASS B, AUTOMATIC. VOICE EVACUTATION
2. ALL WORK SHALL CONFORM TO THE 2016 EDITION OF NFPA 72, AND 2022 EDITION OF CBC, CEC, AND CFC.
3. INSTALLATION OF THE FIRE ALARM SYSTEM (FAS) SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATIONS, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY DSA.
4. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR. (THE LOCAL FIRE AUTHORITY MAY WITNESS THE TEST).
5. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR THE INSTALLATION.
6. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.
7. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
8. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL, OR OTHER LAB TESTING CRITERIA. APPROVED TYPE OF MATERIALS SHALL BE IDENTIFIED WITHIN THE SPECIFICATION WITHIN THE FIRE ALARM SECTION.
9. MICROPHONE ACCESSIBILITY SHALL COMPLY WITH CBC 11B-305 AND 11B-308.
10. WALL MOUNTED VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR ENTIRE LENS WITHIN AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
11. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THAN 6" TO A HORIZONTAL STRUCTURE.
12. AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (dBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY SPACE WITHIN A BUILDING THAT MAY BE OCCUPIED AND BE INTELLIGIBLE.
13. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN, PRIOR TO "EVAC" ANNOUNCEMENT. THE CARBON MONOXIDE SIGNAL SHALL SOUND A FOUR-PULSE TEMPORAL PATTERN PER NFPA 720, 5.8.6.5.1.
14. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
15. VISUAL DEVICES SHALL NOT EXCEED 2 FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN 1 FLASH PER SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISUAL DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
16. UNDERGROUND AND EXTERIOR CONDUITS SHALL HAVE WATERTIGHT FITTINGS AND WIRE APPROVED FOR WET LOCATIONS.
17. ALL FIRE ALARM WIRING SHALL BE FLP OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THHN OR THWN.
18. PER CEC STANDARDS, ALL WIRING SHALL BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE WIRE. ANY CONNECTION SHALL BE BY LUG CONNECTION AT A DEVICE OR AT A FATC TERMINAL BLOCK ONLY. ALL BOXES TO BE SIZED PER CEC.
19. SMOKE DETECTORS SHALL NOT BE CLOSER THAN 12" FROM FIRE SPRINKLERS NOR 36" FROM SUPPLY AIR DIFFUSERS. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION, NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
20. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY, OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS, AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS. OWNER STANDARDS MAY BE MORE STRINGENT.
21. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS' SPECIFICATIONS. ANY SINGLE DEVICE SHALL NOT EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
22. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A LOCKING DEVICE WITH RED MARKING PER NFPA 72, SECTION 10.6.5.4 AND 10.6.5.2.3 TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT ID TO BE LABELED AT THE FIRE PANEL/EXTENDERS.
23. THE INSTALLING CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION IN COMPLIANCE WITH NFPA 72, SECTION 7.5.6.
24. CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48".
25. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC 901.6.2.
26. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTIONS WITH FINAL TEST. FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISING STATIONS SHALL BE LISTED AS EITHER UUFX (CENTRAL STATION) OR UUUS (REMOTE AND PROPRIETARY) BY UNDERWRITERS LABORATORY (UL) OR SHALL COMPLY WITH THE REQUIREMENTS OF STANDARD FM 3011. A COPY OF ALL DEVICES REPORTED TO THE CENTRAL STATION SHALL BE PROVIDED TO THE OWNER'S ELECTRONICS DEPARTMENT.
27. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
28. ALL WIRING IS SHOWN DIAGRAMMATICALLY. SUBJECT TO DSA APPROVAL, CONTRACTOR MAY VARY SEQUENCE OF CIRCUITRY; HOWEVER, ALL CIRCUITS SHALL BE CONTINUOUS AND SUPERVISED.
29. ALL CONNECTIONS SHALL BE PROPERLY LABELED BY CONDUCTOR AND SHALL HAVE STA-KON LUG CONNECTORS. PANDUIT TAG (TIE WRAP) SEPARATELY.
30. FIRE ALARM TERMINAL CABINETS SHALL HAVE SUFFICIENT SPACE, TERMINAL BOARDS AND SCREW TERMINAL CONNECTORS TO ALLOW CONNECTION OF ALL CONDUCTORS SHOWN. PROVIDE BARRIER TO SEPARATE FIRE ALARM SYSTEM WHEN TERMINAL CABINET IS SHARED WITH NON-FIRE ALARM SYSTEMS. CONTRACTOR SHALL BE REQUIRED TO SUBMIT WITH HIS OTHER SHOP DRAWINGS DETAILED DRAWINGS OF HIS PROPOSED CONNECTIONS AT EACH FIRE ALARM TERMINAL CABINET PRIOR TO COMMENCING ANY WORK.
31. ALL NAC CIRCUIT CONDUCTORS SHALL BE #12 AWG, STRANDED (19 STRANDS OR LESS) COPPER, UNLESS OTHERWISE NOTED.
32. SET END-OF-LINE RESISTORS IN DISTRIBUTION TERMINAL CABINETS.
33. BATTERIES SHALL BE STAMPED WITH DATE OF MANUFACTURE.
34. INSTALLATION OF FAS EQUIPMENT SHALL BE BY AN AUTHORIZED ENGINEERED SYSTEM DISTRIBUTOR FOR THE EQUIPMENT SPECIFIED BY THE MANUFACTURER FOR SALES, SERVICE, INSTALLATION AND MAINTENANCE. PROVIDE CERTIFICATIONS WITH EQUIPMENT SUBMITTALS. SUBMITTALS BY FIRMS NOT FULFILLING THIS REQUIREMENT WILL BE AUTOMATICALLY REJECTED.
35. THE FAS INSTALLER SHALL BE NICET LEVEL 2 CERTIFIED.
36. THE FAS INSTALLER SHALL PROVIDE ALL FACTORY WARRANTIES TO THE OWNER AT THE CLOSE UP OF THE PROJECT.
37. THE FAS INSTALLER SHALL PROVIDE WRITTEN CERTIFICATION USING NFPA 72 INSPECTION AND TESTING FORMS AND SHALL CERTIFY THAT THE INSTALLATION, TESTING, AND OPERATION CONFORM IN ALL RESPECTS TO THE REQUIREMENTS AS SET FORTH IN TITLE 19 OF THE CALIFORNIA CODE OF REGULATIONS AND PART 3, ARTICLE 760 OF TITLE 24 OF THE C.C.R. AND C.B.C. SECTION 907. THE CONTRACTOR SHALL SUBMIT THE COMPLETED FAS CERTIFICATION AND DESCRIPTION FORM TO DIVISION OF STATE ARCHITECT.
38. INCLUDE ALL DEMOLITION OF EXISTING FIRE ALARM SYSTEM WHETHER SPECIFICALLY SHOWN OR NOT. REMOVE ALL CABLING & UNUSED EXPOSED RACEWAY & OUTLETS. BLANK OFF ALL UNUSED WALL & HARD CEILING OUTLETS. REMOVE ALL UNUSED OUTLETS IN TEE-BAR CEILING & REPLACE ACOUSTIC TILES. RETURN ALL DEVICES, APPLIANCES, & CONTROL PANELS TO OWNER IF REQUESTED BY OWNER DURING CONSTRUCTION.
39. WHEN FIRE ALARM WORK WILL DISABLE PORTIONS OF THE EXISTING FAS, PROVIDE ALL REQUIRED OVERTIME AND FIRE WATCH IN SCOPE OF WORK.
40. WHERE FIRE ALARM DEVICES ARE BEING INSTALLED IN OTHERWISE INACCESSIBLE AREAS, PROVIDE AN ALLOWANCE FOR THE INSTALLATION OF ACCESS PANELS AND ALL WORK ASSOCIATED WITH THE INSTALLATION. THE CONTRACTOR SHALL CUT ALL THE OPENINGS. THE SIZE OF THE ACCESS PANEL SHALL BE DETERMINED BY THE MAN ACCESS REQUIREMENTS. PROVIDE PAINT GRADE ACCESS DOORS AND PAINT TO MATCH THE COLOR & SHEEN OF THE EXISTING CEILING.
41. FIRE ALARM SYSTEM INSPECTION, TESTING, AND MAINTENANCE SHALL COMPLY WITH NFPA 72, CHAPTER 14.
42. PROVIDE FIRE ALARM RECORD DOCUMENTS CABINET NFPA 72, 7.7.2

- EVERY NEW FILE ALARM SYSTEM SHALL PROVIDE A DOCUMENTATION CABINET, INSTALLED AT THE SYSTEM CONTROL PANEL OR OTHER APPROVED LOCATION.
- THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED, "FIRE ALARM SYSTEM RECORD DOCUMENTS".
- ALL RECORD AND TESTING DOCUMENTATION SHALL BE STORED IN THE CABINET.
- CONTENTS SHALL BE ACCESSIBLE BY AUTHORIZED PERSONNEL ONLY
- WHERE CABINET IS INSTALLED IN A LOCATION OTHER THAN THE SYSTEM CONTROL UNIT, ITS LOCATION SHALL BE IDENTIFIED AT THE SYSTEM CONTROL UNIT.

PROVIDE SYSTEM DOCUMENTS AS APPLICABLE:

- RECORD DRAWINGS/AS-BUILTS
- EQUIPMENT CUT SHEETS & CA SFM LISTINGS
- ALTERNATIVE MEANS AND METHODS
- PERFORMANCE BASED DESIGN DOCUMENTATION (NFPA 72, 7.3.7)
- SYSTEM RECORD OF COMPLETION & ANY SUPPLEMENTAL INSPECTION AND TESTING DOCUMENTATION (NFPA 72, 7.8.2)
- EMERGENCY RESPONSE PLAN (NFPA 72, 7.3.8)
- EVALUATION DOCUMENTATION (NFPA 72, 7.3.9)
- RISK ANALYSIS DOCUMENTATION (NFPA 72, 7.3.6)
- SOFTWARE & FIRMWARE CONTROL DOCUMENTATION (NFPA 72, 23.2.2)

FIRE ALARM SYMBOLS

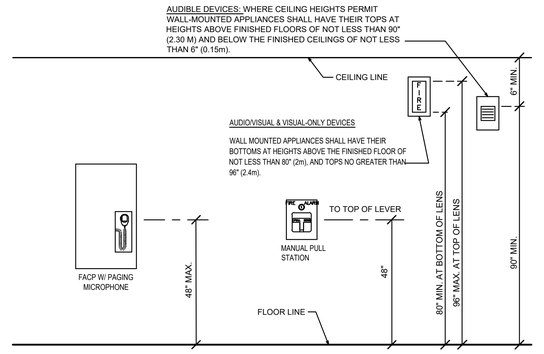
SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.	CSFM LISTING
(E) FACP-F	FIRE ALARM NETWORK EVAC PANEL	GAMEWELL/FCI	#E3 SERIES W/ ILI-MB-E3, DACT-E3, LCD-E3, INI-VGC, ASM-16, PM-9, (2)AM-50-70, DACT-E3, INCC-MIC	7165-1703:0125
		GAMEWELL/FCI	FSL-E3	7165-1703:0176
	SMOKE DETECTOR, PHOTOELECTRIC DETECTOR BASE	GAMEWELL/FCI	ASD-PL3	7272-1703:0501
		GAMEWELL/FCI	B501	7300-1653:0109
	HEAT DETECTOR, CEILING MT'D DETECTOR BASE	GAMEWELL/FCI	ATD-L3	7270-1703:0502
		GAMEWELL/FCI	B501	7300-1653:0109
	ATTIC HEAT DETECTOR, 190°F DETECTOR BASE	GAMEWELL/FCI	ATD-L3H	7270-1703:0502
		GAMEWELL/FCI	B501	7300-1653:0109
M	MONITOR MODULE	GAMEWELL/FCI	AMM-2F	7300-1703:0102
R	RELAY MODULE	GAMEWELL/FCI	AOM-2SF	7300-1703:0102
	MANUAL PULL STATION	GAMEWELL/FCI	MS-7ASF	7150-1703:0170
	SPEAKER/VISIBLE NAC DEVICE, WALL MT'D (WATTS & cd INDICATED ON PLANS)	EATON/WHEELOCK	ELSPSTW	7320-0785:0505
	SPEAKER/VISIBLE NAC DEVICE, CEIL MT'D (WATTS & cd INDICATED ON PLANS)	EATON/WHEELOCK	ELSPSTWC	7320-0785:0505
	VISIBLE NAC DEVICE, WALL MT'D (cd INDICATED ON PLANS)	EATON/WHEELOCK	ELSTW	7320-0785:0504
	VISIBLE NAC DEVICE, CEIL MT'D (cd INDICATED ON PLANS)	EATON/WHEELOCK	ELSTWC	7320-0785:0504
	EXTERIOR SPEAKER, W.P., WALL MT'D (WATTS INDICATED ON PLANS)	EATON/WHEELOCK	ET-1010-W	7320-0785:0105
TS	TAMPER SWITCH	SPECIFIED BY FIRE PROTECTION ENG.		
FS	FLOW SWITCH	SPECIFIED BY FIRE PROTECTION ENG.		
PIV	POST INDICATOR VALVE	SPECIFIED BY FIRE PROTECTION ENG.		
FB	FIRE BELL	SPECIFIED BY FIRE PROTECTION ENG.		

FIRE ALARM CABLE SCHEDULE

SYMBOL	NAME	DESCRIPTION
A	SIGNALING LINE CIRCUIT (SLC) CABLE WEST PENN #D990	16/2 TWISTED PAIR, STRANDED, LOW CAPACITANCE FA POWER LIMITED, RISER CABLE (FPLR)
AW	SIGNALING LINE CIRCUIT (SLC) CABLE, OSP WEST PENN #AQC225	16/2 TWISTED PAIR, STRANDED, AQUASEAL FA POWER LIMITED CABLE (FPL)
B	NOTIFICATION APPLIANCE CKT (NAC) CABLE WEST PENN #998S	12/2 TWISTED PAIR, STRANDED FA POWER LIMITED, RISER CABLE (FPLR)
BW	NOTIFICATION APPLIANCE CKT (NAC) CABLE, OSP WEST PENN #AQ227	12/2 TWISTED PAIR, STRANDED, AQUASEAL FA POWER LIMITED CABLE (FPL)
C	EM. VOICE/ALARM COMM. (EV/AC) CABLE WEST PENN #HF995	14/2 SHIELDED TWISTED PAIR, STRANDED FA POWER LIMITED CABLE (FPL)
CW	EM. VOICE/ALARM COMM. (EV/AC) CABLE, OSP WEST PENN #AQC295	14/2 SHIELDED TWISTED PAIR, STRANDED, AQUASEAL FA POWER LIMITED CABLE (FPL)
D	INITIATING DEVICE CKT (IDC) CABLE WEST PENN #994S	14/2 TWISTED PAIR, STRANDED FA POWER LIMITED, RISER CABLE (FPLR)
DW	INITIATING DEVICE CKT (IDC) CABLE, OSP WEST PENN #AQC226	14/2, TWISTED PAIR, STRANDED, AQUASEAL FA POWER LIMITED CABLE (FPL)
FA06	NETWORK COMM	6-STR SM ISP FIBER
FA06W	SITE NETWORK COMM	6-STR SM OSP FIBER
G	POWER CABLE WEST PENN #998S	12/2, TWISTED PAIR, STRANDED FA POWER LIMITED, RISER CABLE (FPLR)
M	MIC CABLE	16/6, TWISTED SHIELDED PAIR, PLENUM RATED

FIRE ALARM CABLE SCHEDULE

INITIATION CONDITON / ACTION	FIRE SPRINKLER TAMPER SWITCH, POST INDICATOR VALVE	SMOKE, HEAT, OR DUCT DETECTOR, FIRE SPRINKER FLOW SWITCH	POWER LOSS, SHORT CIRCUIT, GROUND FAULT
ANNUNCIATE TROUBLE			●
ANNUNCIATE ALARM		●	
ANNUNCIATE CO ALARM			
ANNUNCIATE SUPERVISORY	●		
INITIATE NOTIFICATION APPLICANCES		●	
INITIATE EV/AC APPLICANCES		●	
TRANSMIT TO CENTRAL STATION	●	●	●
CLOSE FIRE/SMOKE DAMPER		●	
SHUTDOWN HVAC UNITS		●	
DOOR RELEASE		●	●
ACCESS CONTROL OVERRIDE		●	



FIRE ALARM DEVICE ELEVATION

PBK

ARCHITECT PBK Architects, Inc.
FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL FIELDHOUSE

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

MADERA 19 66 UNIFIED SCHOOL DISTRICT

PROFESSIONAL SEAL

LICENSED ARCHITECT — MICHAEL R. SCHOEN — No. C-35165 — RENEWAL DATE 08.28.2025 — STATE OF CALIFORNIA

PROJECT NUMBER	20-51
DATE	08/22/2023
DSA APPLICATION NO.	02 - 121624
FILE NO.	20-H3
PTN NO.	65243-153
DRAWN BY	HDE

REVISIONS

#	DESCRIPTION	DATE
1	ADDENDUM 3	08/23/2025

FIRE ALARM

EX4.1

REGISTERED PROFESSIONAL ENGINEER — R.J. HARDIN — No. 9125 — ELECTRICAL — STATE OF CALIFORNIA

Hardin-Davidson Engineering
356 Pollasky Ave, Suite 200
Clovis, CA 93612
559.323.4995 tel
559.323.4928 fax

SECTION 08 33 00

OVERHEAD COILING SERVICE DOORS

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Overhead coiling service doors; insulated and non-insulated.

1.02 RELATED SECTIONS

A. Section 05 50 00 - Metal Fabrications

B. Section 06 20 00 - Finish Carpentry

C. Section 08 71 00 - Door Hardware

D. Section 09 91 23 - Painting

E. Division 26 Electrical

1.03 REFERENCES

A. ASTM A 653 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

B. ASTM A 666 - Standard Specification for Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.

C. ASTM A 924 - Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.

D. ASTM B 221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

E. NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum).

F. NEMA MG 1 - Motors and Generators.

1.04 DESIGN / PERFORMANCE REQUIREMENTS

A. Overhead coiling service doors:

1. Wind Loads: Design door assembly to withstand wind/suction load of 20 psf (958 Pa) without damage to door or assembly components.
2. Operation: Design door assembly, including operator, to operate for not less than 20,000 cycles.

B. Single-Source Responsibility: Provide doors, tracks, motors, and accessories from one manufacturer for each type of door. Provide secondary components from source acceptable to manufacturer of primary components.

1.05 SUBMITTALS

A. Submit under provisions of Section 01 33 00 - Submittal Procedures.

B. Product Data: Manufacturer's data sheets on each product to be used, including:

1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Details of construction and fabrication.
4. Installation instructions.

C. Shop Drawings: Include detailed plans, elevations, details of framing members, anchoring methods, required clearances, hardware, and accessories. Include relationship with adjacent construction.

D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.

E. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) long, representing actual product, color, and patterns.

F. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

G. Operation and Maintenance Data: Submit lubrication requirements and frequency, and periodic adjustments required.

1.06 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in performing Work of this section with a minimum of five years experience in the fabrication and installation of security closures.

B. Installer Qualifications: Installer Qualifications: Company specializing in performing Work of this section with minimum three years and approved by manufacturer.

1.07 DELIVERY, STORAGE AND HANDLING

A. Store products in manufacturer's unopened packaging until ready for installation.

B. Protect materials from exposure to moisture. Do not deliver until after wet work is complete and dry.

C. Store materials in a dry, warm, ventilated weathertight location.

1.08 PROJECT CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.09 COORDINATION

A. Coordinate Work with other operations and installation of adjacent materials to avoid damage to installed materials.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Acceptable Manufacturer: Overhead Door Corp., 2501 S. State Hwy. 121, Suite 200, Lewisville, TX 75067. ASD. Tel. Toll Free: (800) 275-3290. Phone: (469) 549-7100. Fax: (972) 906-1499. Web Site: www.overheaddoor.com. E-mail: info@overheaddoor.com.

B. Substitutions: Cookson Company.

C. Requests for substitutions will be considered in accordance with provisions of Section 01 25 00 - Substitution Procedures.

2.02 ROLLING STEEL COUNTER DOORS

A. Light Commercial Doors: Overhead Door Corporation, 658 Series Coil-Away Service Doors.

1. Curtain: Interlocking roll-formed galvanized steel slats, flat crown profile type CAW, 24 gauge. End of each slat shall be locked from lateral movement by a staking lock system. (Galvanized alternate malleable end locks.)
2. Finish:

a. Curtain slats and hood shall be galvanized in accordance with ASTM A 653 and receive rust-inhibitive, roll coating process, including 0.2 mils thick baked-on prime paint, and 0.6 mils thick baked-on polyester top coat.

1) Powder coat: PowderGuard

a) PowderGuard Premium: Weather resistant polyester powder coat color as selected by the Architect Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer.

3. Weatherseals: Vinyl bottom seal.
4. Bottom Bar: Double angle bottom bar (standard).
5. Guides: Roll-formed galvanized steel shapes attached to continuous galvanized steel wall angle.

a. Finish: PowderGuard Zinc Finish for guides, bottom bar and head plate.

6. Brackets: Galvanized steel to support counterbalance and curtain.
7. Counterbalance: Helical torsion spring type housed in a steel tube or pipe barrel and supporting the curtain with deflection limited to 0.03 inch per foot of span. Spring tension shall be adjustable.
8. Hood: 24 gauge galvanized steel with intermediate supports as required.
9. Manual Operation:

   a. Chain hoist for doors over 100 SF.

10. Locking:

    a. Chain keeper locks for chain hoist operation.

11. Wall Mounting Condition: Between jambs mounting installed.

2.03 INSULATED OVERHEAD COILING SERVICE DOORS

A. Overhead Coiling Stormtite Insulated Service Doors: Overhead Door Corporation 625 Series.

1. Curtain: Interlocking roll-formed slats as specified following. Endlocks shall be attached to each end of alternate slats to prevent lateral movement.

   a. Flat profile type F-265i for doors up to 40 feet (12.19 m) wide.
   b. Front slat fabricated of:

      1) 22 gauge galvanized steel.

   c. Back slat fabricated of:

      1) 24 gauge galvanized steel.

   d. Slat cavity filled with CFC-free foamed-in-place, polyurethane insulation.

      1) R-Value: 7.7, U-Value: 0.13.
      2) Sound Rating: STC-21.

2. Finish:

   a. Galvanized Steel: Slats and hood galvanized in accordance with ASTM A 653 and receive rust-inhibitive, roll coating process, including 0.2 mils thick baked-on prime paint, and 0.6 mils thick baked-on polyester top coat.

      1) Powder coat: PowderGuard

         a) PowderGuard Premium: Weather resistant polyester powder coat color as selected by the Architect.

2) Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer.

3. Weatherseals:

   a. Vinyl bottom seal, exterior guide and internal hood seals.
   b. Interior guide weatherseal.
   c. Lintel weatherseal.

4. Bottom Bar:

   a. Two galvanized steel angles minimum thickness 1/8 inch (3 mm) bolted back to back to reinforce curtain in the guides.

5. Guides: Three Structural steel angles.

   a. Finish: PowderGuard Zinc Finish for guides, bottom bar and head plate.

6. Brackets:

   a. Galvanized steel to support counterbalance, curtain and hood.

7. Counterbalance: Helical torsion spring type housed in a steel tube or pipe barrel, supporting the curtain with deflection limited to 0.03 inch per foot of span. Counterbalance is adjustable by means of an adjusting tension wheel.
8. Hood: Provide with internal hood baffle weatherseal.

   a. 24 gauge galvanized steel with intermediate supports as required.

9. Manual Operation:

   a. Chain hoist.

10. Windload Design:

    a. Standard windload shall be 20 PSF.

11. Locking:

    a. Chain keeper locks for chain hoist operation.

12. Wall Mounting Condition:

    a. Between jambs mounting installed.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Verify opening sizes, tolerances and conditions are acceptable.

B. Examine conditions of substrates, supports, and other conditions under which this work is to be performed.

C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.02 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.03 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Use anchorage devices to securely fasten assembly to wall construction and building framing without distortion or stress.

C. Securely and rigidly brace components suspended from structure. Secure guides to structural members only.

D. Fit and align assembly including hardware; level and plumb, to provide smooth operation.

E. Coordinate installation of sealants and backing materials at frame perimeter as specified in Section 07 92 00 - Joint Sealants.

F. Install perimeter trim and closures.

G. Instruct Owner’s personnel in proper operating procedures and maintenance schedule.

3.04 ADJUSTING

A. Test for proper operation and adjust as necessary to provide proper operation without binding or distortion.

B. Adjust hardware and operating assemblies for smooth and noiseless operation.

3.05 CLEANING

A. Clean curtain and components using non-abrasive materials and methods recommended by manufacturer.

B. Remove labels and visible markings.

C. Touch-up, repair or replace damaged products before Substantial Completion.

3.06 PROTECTION

A. Protect installed products until completion of project.

END OF SECTION

SECTION 08 71 00

DOOR HARDWARE

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of Contract, including General and Supplementary Conditions of Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

A. This Section includes items known commercially as finish or door hardware that are required for swing, sliding, and folding doors, except special types of unique hardware specified in the same sections as the doors and door frames on which they are installed.

B. Related Sections: The following sections are noted as containing requirements that relate to this Section, but may not be limited to this listing.
1. Division 08: Section - Hollow Metal Doors and Frames.
2. Division 08: Section - Wood Doors.

1.03 REFERENCES

A. 2022 California Building Code, CCR Title 24, Part 2

B. BHMA - Builders' Hardware Manufacturers Association

C. DHI - Door and Hardware Institute

D. NFPA - National Fire Protection Association.
1. NFPA 80 - Fire Doors and Other Opening Protectives
2. NFPA 105 - Smoke and Draft Control Door Assemblies

E. UL - Underwriters Laboratories.
1. UL 10C - Fire Tests of Door Assemblies
2. UL 305 - Panic Hardware

F. WHI - Warnock Hersey Incorporated

G. SDI - Steel Door Institute

1.04 SUBMITTALS & SUBSTITUTIONS

A. General: Submit in accordance with Conditions of the Contract and Division 01 Specification sections.

B. Submit product data (catalog cuts) including manufacturers' technical product information for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.

C. Submit electronic PDF copies of schedule organized vertically into “Hardware Sets” with index of doors and headings, indicating complete designations of every item required for each door or opening. Include following information:

1. Include a Cover Sheet with:
   a. Job Name, location, telephone number.
   b. Architects name, location and telephone number.
   c. Contractors name, location, telephone number and job number.
   d. Suppliers name, location, telephone number and job number.
   e. Hardware consultant's name, location and telephone number.

2. Job Index information included:
   a. Numerical door number index including; door number, hardware heading number and page number.
   b. Complete keying information (referred to DHI hand-book "Keying Systems and Nomenclature"). Provision should be made in the schedule to provide keying information when available; if it is not available at the time the preliminary schedule is submitted.
   c. Manufacturers' names and abbreviations for all materials.
   d. Explanation of abbreviations, symbols, and codes used in the schedule.
   e. Mounting locations for hardware.
   f. Clarification statements or questions.
   g. Catalog cuts and manufacturer’s technical data and instructions.

3. Vertical schedule format sample:

Heading Number 1 (Hardware group or set number - HW Group #1)				
(a) 1 Single - Door #101 - Corridor 101 to Exterior			(b) 90°	(c) RH
(d) 3'-0" x 7'-0" x 1-3/4" - Wood Door x Hollow Metal Frame - 20 Minute				
(e) 1.	(f) 3 ea	(g) Hinges - (h) 5BB1 4.5 x 4.5 NRP (i) 1/2 TMS	(j) 630	(k) IVE
2.	1 ea	Lockset - ND80P6D x RHO x RH x 10-025 x JTMS	626	SCH
3.	1 ea	Closer - 4040XP x EDA x TBSRT	689	LCN

(a) Single or pair of doors with opening number and location.
(b) Degree of opening.
(c) Hand of door(s).
(d) Door/frame dimensions and material; Label requirements, if any.
(e) Hardware item line # (Optional).
(f) Quantity.
(g) Product description.
(h) Product part number.
(i) Fastenings and other pertinent information.
(j) Hardware finish codes per ANSI/BHMA A156.18.
(k) Manufacturer abbreviation.

D. Make substitution requests in accordance with Division 01. Substitution requests must be made prior to bid date. Include product data and indicate benefit to the project. Furnish samples of any proposed substitution.

E. Keying Schedule: Submit separate detailed schedule indicating clearly how the Owner's final instructions on keying of locks has been fulfilled.

F. Templates for doors, frames, and other work specified to be factory prepared for the installation of door hardware. Check shop drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.

G. Furnish as-built/as-installed schedule with close-out documents, including keying schedule and transcript, wiring/riser diagrams, manufacturers' installation and adjustment and maintenance information.

H. Fire Door Assembly Testing: Submit a written record of each fire door assembly to the Owner to be made available to the Authority Having Jurisdiction (AHJ) for future building inspections.

I. LEED Certification Points: Submit information and certifications necessary to achieve maximum points for LEED certification; coordinate and cooperate with Owner and Architect in providing information necessary for required LEED rating.

1.05 QUALITY ASSURANCE

A. Obtain each type of hardware (latch and lock sets, hinges, closers, exit devices, etc.) from a single manufacturer.

B. Supplier Qualifications: A recognized architectural door hardware supplier, with warehousing facilities in the project's vicinity, that has a record of successful in-service performance for supplying door hardware similar in quantity, type, and quality to that indicated for this project and that employs an experienced architectural hardware consultant (AHC) who is available to Owner, Architect, and Contractor, at reasonable times during the course of the Work, for consultation.
   1. Responsible for detailing, scheduling and ordering of finish hardware.
   2. Meet with Owner to finalize keying requirements and to obtain final instructions in writing.
   3. Stock parts for products supplied and are capable of repairing and replacing hardware items found defective within warranty periods.

C. Hardware Installer: Company specializing in the installation of commercial door hardware with five years documented experience.

D. Fire-Rated Openings: Provide door hardware for fire-rated openings that complies with NFPA 80 and requirements of authorities having jurisdiction. Provide only items of door hardware that are listed and tested by UL or Warnock Hersey for given type/size opening and degree of label. Provide proper latching hardware, door closers, approved-bearing hinges and seals whether listed in the Hardware Schedule or not.
   1. Where emergency exit devices are required on fire-rated doors, (with supplementary marking on doors' UL labels indicating "Fire Door to be Equipped with Fire Exit Hardware") provide UL label on exit devices indicating "Fire Exit Hardware".

E. Exit Doors: Operable from inside with single motion without the use of a key or special knowledge or effort.

F. Product packaging to be labelled in compliance with CA Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986.

1.06 DELIVERY, STORAGE AND HANDLING

A. Coordinate delivery of packaged hardware items to the appropriate locations (shop or field) for installation.

B. Hardware items shall be individually packaged in manufacturers' original containers, complete with proper fasteners. Clearly mark packages on outside to indicate contents and locations in hardware schedule and in work.

C. Provide locked storage area for hardware, protect from moisture, sunlight, paint, chemicals, etc.

D. Contractor to inventory door hardware jointly with representatives of hardware supplier and hardware installer until each all are satisfied that count is correct.

1.07 WARRANTY

A. Provide warranties of respective manufacturers' regular terms of sale from day of final acceptance as follows:
1. Locksets: Ten (10) years.
2. Exit devices: Ten (10) years.
3. Closers: Thirty (30) years.
4. All other hardware: Two (2) years.

1.08 MAINTENANCE

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

1.09 PRE-INSTALLATION CONFERENCE

A. Convene a pre-installation conference at least one week prior to beginning work of this section.

B. Attendance: Architect, Construction Manager, Contractor, Security Contractor, Hardware Supplier, Installer, Key Owner's Personnel, and Project Inspector.

C. Agenda: Review hardware schedule, products, installation procedures and coordination required with related work. Review Owner's keying standards.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

Item	Manufacturer	Acceptable Substitutes
Hinges	Ives	Hager, Stanley, McKinney
Locks, Latches & Cylinders	Schlage	None – District Standard
Exit Devices	Von Duprin	None – District Standard
Closers	LCN	None – District Standard
Push, Pulls & Protection Plates	Ives	Trimco, BBW, DCI
Flush Bolts	Ives	Trimco, BBW, DCI
Door Stops	Ives	Trimco, BBW, DCI
Overhead Stops	Glynn-Johnson	Or Approved Equal
Seals, Bottoms & Thresholds	Zero	Pemko, National Guard

2.02 MATERIALS

A. Hinges:
1. Provide hinges conforming to ANSI/BHMA A156.1.
2. Hinges shall be sized in accordance with the following:
   a. Height:
      1) Doors up to 42" wide: 4-1/2 inches.
      2) Doors 43" to 48" wide: 5 inches.
   b. Width: Sufficient to clear frame and trim when door swings 180 degrees.
   c. Number of Hinges: Provide 3 hinges per leaf to 7'-5" in height. Add one for each additional 2 feet in height.
3. Exterior out-swinging hinges shall be non-ferrous material and shall have stainless steel hinge pins. All doors to have non-rising pins.
4. Furnish non-removable pins (NRP) at all exterior out-swing doors and interior key lock doors with reverse bevels.

B. Continuous Hinges:
1. Provide aluminum geared continuous hinges fabricated from 6063-T6 aluminum conforming to ANSI/BHMA A156.26, Grade 1.
2. Provide split nylon bearings at each hinge knuckle for quiet, smooth, self-lubricating operation.
3. Provide continuous hinges capable of supporting door weights up to 450 pounds, and successfully tested for 1,500,000 cycles.
4. Provide continuous hinges 1” shorter in length than nominal height of door, unless otherwise noted, with symmetrical hole pattern.
5. Install continuous hinges with fasteners supplied by manufacturer.

C. Heavy Duty Cylindrical Locks and Latches: Schlage "ND" Series as scheduled with "Rhodes" lever design.
1. Provide cylindrical locks conforming to ANSI/BHMA A156.2 Series 4000, Grade 1, and UL Listed for 3 hour fire doors.
2. Provide cylindrical locksets exceeding the ANSI/BHMA A156.2 Grade 1 performance standards for strength, security, and durability in the categories below:
   a. Abusive locked lever torque – minimum 3,100 inch-pounds without gaining access.
   b. Offset lever pull – minimum 1,600 foot pounds without gaining access.
   c. Vertical lever impact – minimum 100 impacts without gaining access.
   d. Cycle Test – tested to minimum 16 million cycles with no visible lever sag; without the use of performance aids such as set screws or spacers.
3. Cylinders: Refer to “KEYING” article, herein.
4. Provide locks with standard 2-3/4” backset, unless noted otherwise, with 1/2” latch throw. Provide proper latch throw for UL listing at pairs.
5. Provide locksets with separate solid steel anti-rotation thru-bolts, and no exposed screws.
6. Provide independently operating levers with two external return spring cassettes mounted under roses to prevent lever sag.
7. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
8. Lever Trim: Solid cast levers without plastic inserts and wrought roses on both sides.
9. Provide levers with vandal resistant technology as scheduled for use at abusive applications.

D. Exit devices: Von Duprin as scheduled.
1. Provide exit devices tested to ANSI/BHMA A156.3 Grade 1 and UL listed for Panic Exit or Fire Exit Hardware.
2. Provide certificate by independent testing laboratory that device has completed over 1,000,000 cycles and can still meet ANSI/BHMA A156.3 standards.

3. Provide touchpad type exit devices, fabricated of brass, bronze, stainless steel, or aluminum, plated to standard architectural finishes to match balance of door hardware.
4. Provide exit devices cut to door width and height. Touchpad must extend a minimum of one half of door width. No plastic inserts are allowed in touchpads.
5. Mount mechanism case flush on face of doors, or provide spacers to fill gaps behind devices. Where glass trim or molding projects off face of door, provide glass bead kits.
6. Provide flush end caps for exit devices.
7. Exit devices shall comply with CBC Section 11B-404.2.7 and shall be mounted between 34" and 44" above the finished floor surface.
8. Provide exit devices UL certified to meet 5 lbs. maximum unlatching force requirements according to the CBC Section 11B-309.4.
9. Cylinders: Refer to “KEYING” article, herein.
10. Provide cylinder dogging as specified at non fire-rated openings. Provide cylinder dogging indicators (CDSI) for visible indication of dogging status as specified.
11. Removable Mullions: Provide type that can be removed by use of a keyed cylinder, which is self-locking when re-installed.
12. Provide factory drilled weep holes for exit devices used in full exterior application, highly corrosive areas, and where noted in hardware sets.
13. Provide exit devices with deadlatching feature for security and for future addition of alarm kits and/or other electrified requirements.
14. Provide exit devices with optional trim designs to match other lever and pull designs used on the project.
15. Provide exit devices with manufacturer’s approved strikes.
16. Panic hardware shall not be provided with “Night Latch” (NL) function for any accessible doors or gates unless the following conditions are met per DSA Interpretation 10-08 DSA/AC. Such conditions must be clearly demonstrated and indicated in the specification:
    a. Panic hardware contains a “dogging” feature and during the time the facility is open the panic hardware shall be “dogged”.
    b. The act of “dogging” a door in the open position shall only be performed by employees as a part of their job function (non-public use).

E. Closers: LCN as scheduled.
1. Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory. ISO 9000 certify closers. Stamp units with date of manufacture code.
2. Provide door closers with fully hydraulic, full rack and pinion action with high strength cast iron cylinder, and full complement bearings at shaft.
3. Provide certificate by independent testing laboratory that door closers have completed over 10,000,000 cycles and can still meet ANSI/BHMA A156.4 standards.
4. Cylinder Body: 1-1/2” diameter with 3/4” diameter double heat-treated pinion journal.
5. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120° F to -30° F.
6. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards.
7. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and backcheck.
8. Provide closers with solid forged steel main arms and factory assembled heavy-duty forged forearms for parallel arm closers.
9. Pressure Relief Valve (PRV) Technology: Not permitted.
10. Provide door closers powder coated to match balance of door hardware. Powder coating finish shall be certified to exceed 100 hours salt spray testing as described in ANSI/BHMA A156.4 and ASTM B117.
11. Provide special rust inhibitor (SRI) in highly corrosive areas, and where noted in hardware sets.

12. Provide special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.

F. Flush Bolts & Dust Proof Strikes:
1. Automatic flush bolts shall be of the low operating force design.
2. Provide top bolt only model for interior doors where applicable and as permitted by testing procedures.
3. Provide dust proof strikes at openings using bottom bolts.
4. Manual flush bolts shall only be permitted on storage or mechanical openings, as scheduled.

G. Door Stops:
1. Unless otherwise noted in hardware sets, provide wall type with appropriate fasteners. Where wall type cannot be used, provide floor type. If neither can be used, provide overhead type.
2. Do not install floor stops more than four (4) inches from the face of the wall or partition (CBC Section 11B-307).
3. Provide backing plate at wall framing behind wall type.
4. Overhead stops shall be made of stainless steel and non-plastic mechanisms and finished metal end caps. Field-changeable hold-open, friction and stop-only functions. Stop-only function shall be provided at fire-rated openings.

H. Protection Plates:
1. Provide kick, mop, and/or armor plates minimum of 0.050” thick, with four beveled edges. Furnish with sheet metal or wood screws, finished to match plates.
2. Kick plates shall be sized 10" high and 2" less door width (LDW) at single doors and 10” high and 1” LDW at pairs or doors.
3. Provide mop and armor plates with sizes as scheduled in hardware sets.

I. Thresholds: As scheduled and per details.
1. Thresholds shall not exceed 1/2" in height, with a beveled surface of 1:2 maximum slope. Thresholds shall comply with CBC Section 11B-404.2.5.
2. Set thresholds in a full bed of butyl-rubber or polyisobutylene mastic sealant complying with requirements in Division 07 “Thermal and Moisture Protection”.
3. Use 1/4” fasteners, red-head flat-head sleeve anchors (SS/FHSL).

J. Seals: Provide silicone gasket at all rated and exterior doors.
1. Smoke & Draft Control Doors: Provide UL10C Classified gasketing that complies with NFPA 80 & NFPA 252 for use on “S” labeled Positive Pressure door assemblies.

K. Silencers: Furnish silencers for interior hollow metal frames, 3 for single doors, 2 for pairs of doors. Omit where sound or light seals occurs, or for fire-resistive-rated door assemblies.

2.03 KEYING

A. Furnish a proprietary Schlage Primus masterkey system as directed by the Madera Unified School District lock shop to match existing key system. Key system to be designated and combinated by the Schlage Master Key Department even if pinned by the Authorized Key Center, Authorized Security Center or a local authorized commercial dealer.

B. A detailed keying schedule is to be prepared by the District lock shop in consultation with a representative of Allegion or an Authorized Key Center or Authorized Security Center. Each keyed cylinder on every keyed lock is to be listed separately showing the door #, key group (in BHMA terminology), cylinder type, finish and location on the door.

C. Furnish all cylinders in the Schlage Full Size Interchangeable Core (FSIC) format. Pack change keys independently (PKI). Verify Primus keyway with District lock shop.

D. Furnish construction keying for doors requiring locking during construction.

E. Furnish all keys with visual key control.
   1. Stamp key “Do Not Duplicate”.
   2. Stamp (BHMA) key symbol on key.
   3. Stamp unique owner identifier from the key bow.

F. Furnish mechanical keys as follows:
   1. Furnish 2 cut change keys for each different change key code.
   2. Furnish 1 uncut key blank for each change key code.
   3. Furnish 6 cut masterkeys for each different masterkey set.
   4. Furnish 3 uncut key blanks for each masterkey set.
   5. Furnish 2 cut control keys cut to the top masterkey for permanent I/C cylinders.
   6. Furnish 1 cut control key cut to each SKD combination.

G. Furnish Schlage Padlocks and the cylinders to tie them into the masterkey system for gates, storage boxes, utility valve security, roof hatches and roll-up doors keyed as directed in the keying schedule.
   1. Furnish KS43F3200 padlock for use with FSIC Schlage cylinders. Furnish 20-740 Primus core with padlock above.

H. Furnish one Schlage cabinet lock for each cabinet door or drawer so designated on the drawings or keying schedule to match the masterkey system.
   1. Furnish CL777R for use with FSIC Schlage cylinders.

2.04 FINISHES

A. Generally to be satin chrome US26D (626 on bronze and 652 on steel) unless otherwise noted.

B. Furnish push plates, pull plates and kick or armor plates in satin stainless steel US32D (630) unless otherwise noted.

C. Door closers shall be powder-coated to match other hardware, unless otherwise noted.

D. Aluminum items to be finished anodized aluminum except thresholds which can be furnished as standard mill finish.

2.05 FASTENERS

A. Screws for strikes, face plates and similar items shall be flat head, countersunk type, provide machine screws for metal and standard wood screws for wood.

B. Screws for butt hinges shall be flathead, countersunk, full-thread type.

C. Fastening of closer bases or closer shoes to doors shall be by means of sex bolts and spray painted to match closer finish.

D. Provide expansion anchors for attaching hardware items to concrete or masonry.

E. All exposed fasteners shall have a phillips head.

F. Finish of exposed screws to match surface finish of hardware or other adjacent work.

G. All Exit Devices and Lock Protectors shall be fastened to the door by the means of sex bolts or through bolts.

PART 3 - EXECUTION

3.01 INSPECTION

A. Verify that doors and frames are square and plumb and ready to receive work and dimensions are as instructed by the manufacturer.

B. Beginning of installation means acceptance of existing conditions.

3.02 INSTALLATION

A. Install hardware in accordance with manufacturer's instructions and requirements of DHI.

B. Use the templates provided by hardware item manufacturer.

C. Mounting heights for hardware shall be as recommended by DHI. Operating hardware shall be located between 34" and 44" above finish floor to comply with CBC Section 11B-404.2.7.

D. Door Closers:
1. Place door closers inside building, stairs, rooms, etc. Closers shall be installed to permit doors to swing 180 degrees or maximum allowable by conditions.
2. Maximum effort to operate closers shall not exceed 5 lbs., such pull or push effort being applied at right angles to hinged doors.
3. When fire doors are required, the maximum effort to operate the closer may be increased but shall not exceed 15 lbs. when specifically approved by fire marshal.
4. All closers shall be adjusted to operate with the minimum amount of opening force and still close and latch the door. These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door in a closed position.
5. Compensating devices or automatic door operators may be utilized to meet the above standards.
6. Per CBC Section 11B-404.2.8.1, doors shall take minimum of 5 seconds to move from an open position of 90 degrees to 12 degrees to the latch jamb.

E. Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.

F. Drill and countersink units that are not factory-prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.

G. Set thresholds for exterior doors in full bed of butyl-rubber sealant.

H. If hand of door is changed during construction, make necessary changes in hardware at no additional cost.

3.03 ADJUST AND CLEAN

A. Adjust and check each operating item of hardware and each door, to ensure proper operation or function of every unit. Replace units which cannot be adjusted to operate freely and smoothly as intended for the application made.

B. Clean adjacent surface soiled by hardware installation.

C. Final Adjustment: Wherever hardware installation is made more than one month prior to acceptance or occupancy, return to that work area and make final check and adjustment of all hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to compensate for final operation of heating and ventilating equipment.

D. Instruct Owner's Personnel in proper adjustment and maintenance of hardware finishes, during the final adjustment of hardware.

E. Continued Maintenance Service: Approximately six months after the completion of the project, the Contractor accompanied by the Architectural Hardware Consultant, shall return to the project and re-adjust every item of hardware to restore proper functions of doors and hardware. Consult with and instruct Owner's personnel in recommended additions to the maintenance procedures. Replace hardware items which have deteriorated or failed due to faulty design, materials or installation of hardware units. Prepare a written report of current and predictable problems (of substantial nature) in the performance of the hardware.

3.04 HARDWARE LOCATIONS

A. Conform to CCR, Title 24, Part 2; and ADA Standards; and the drawings for access-compliant positioning requirements for the disabled.

3.05 FIELD QUALITY CONTROL

A. Contractor is responsible for providing the services of an Architectural Hardware Consultant (AHC) or a proprietary product technician to inspect installation and certify that hardware and its installation have been furnished and installed in accordance with manufacturers' instructions and as specified herein.

3.06 HARDWARE SCHEDULE

A. The items listed in the following schedule shall conform to the requirements of the foregoing specifications.

B. While the hardware schedule is intended to cover all doors, and other movable parts of the building, and establish type and standard of quality, the contractor is responsible for examining the Plans and Specifications and furnishing proper hardware for all openings whether listed or not. If there are any omissions in hardware groups in regard to regular doors they shall be called to the attention of the Architect prior to bid opening for instruction; otherwise, list will be considered Complete. No extras will be allowed for omissions.

C. The Door Schedule on the Drawings indicates which hardware set is used with each door.

MANUFACTURERS ABBREVIATIONS

GLY	=	Glynn-Johnson	Overhead Stops
IVE	=	Ives	Hinges, Door Stops, Kick Plates & Silencers

LCN	=	LCN	Door Closers
LOC	=	Locinox	Gate Closers
SCH	=	Schlage Lock	Locks, Latches & Cylinders
VON	=	Von Duprin	Exit Devices
ZER	=	Zero International	Thresholds, Gasketing & Weather-stripping

HW GROUP NO. 01

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY	628	IVE
1	EA	PANIC HARDWARE	CDSI-PA-AX-99-NL	626	VON
1	EA	RIM CYLINDER	20-057 ICX	626	SCH
1	EA	MORTISE CYLINDER	26-091 ICX XQ11-948	626	SCH
2	EA	PRIMUS CORE	20-740	626	SCH
1	EA	SURFACE CLOSER	4040XP EDA TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP/HOLDER	FS43	626	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER

HW GROUP NO. 02

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY	628	IVE
1	EA	VANDL CLASSROOM SEC	ND98TD RHO IS-CRS	626	SCH
2	EA	PRIMUS CORE	20-740	626	SCH
1	EA	SURFACE CLOSER	4040XP EDA TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP/HOLDER	FS43	626	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER

HW GROUP NO. 03

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY	628	IVE
1	EA	VANDL CLASSROOM LOCK	ND94TD RHO	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	SURFACE CLOSER	4040XP EDA TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP/HOLDER	FS43	626	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER

HW GROUP NO. 04

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	MORTISE PRIVACY W/ IND	LV9056T 06A L583-363 OS-OCC	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	SURFACE CLOSER	4040XP EDA TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS18S	BLK	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER

HW GROUP NO. 05

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	VANDL STOREROOM LOCK	ND96TD RHO	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	SURFACE CLOSER	4040XP SHCUSH TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER

HW GROUP NO. 06

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 5 X 4.5 NRP	630	IVE
1	EA	VANDL STOREROOM LOCK	ND96TD RHO	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	SURFACE CLOSER	4040XP EDA TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP/HOLDER	FS43	626	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER

HW GROUP NO. 07

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5	630	IVE
1	EA	VANDL STOREROOM LOCK	ND96TD RHO	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	OH STOP & HOLDER	100H	630	GLY
1	EA	SURFACE CLOSER	4040XP ST-1630 TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	DOOR SHOE	153A	A	ZER
1	EA	THRESHOLD	PER DETAIL	A	ZER

HW GROUP NO. 08

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	ENTRANCE/OFFICE LOCK	ND50TD RHO	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	FLOOR STOP	FS436	626	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER

HW GROUP NO. 09

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	PRIVACY LOCK W/ IND	ND40S RHO OS-OCC	626	SCH
1	EA	SURFACE CLOSER	4040XP TBSRT	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER

HW GROUP NO. 10

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	ND80TD RHO	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HW GROUP NO. 11

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	MORTISE/RIM CYLINDER	SCHLAGE TYPE AS REQUIRED		SCH
1	EA	PRIMUS CORE	20-740	626	SCH
			BALANCE OF HARDWARE BY ROLL-UP DOOR MFR		

HW GROUP NO. G01

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	SET	GATE CLOSER & HINGE	LOCINOX MAMMOTH-HD	AL	LOC
1	EA	PANIC HARDWARE	CD-PA-AX-99-NL-WH	628	VON
1	EA	RIM CYLINDER	20-057 ICX	626	SCH
1	EA	MORTISE CYLINDER	26-091 ICX XQ11-948	626	SCH
2	EA	PRIMUS CORE	20-740	626	SCH

FOR GATES > 4' WIDE, SPECIFY GATE WIDTH WHEN ORDERING

HW GROUP NO. G02

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	VANDL CLASSROOM LOCK	ND94TD RHO	626	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
			BALANCE OF HARDWARE BY GATE FABRICATOR		

HW GROUP NO. G03

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	FSIC PADLOCK	KS43F3200	606	SCH
2	EA	PRIMUS CORE	20-740	606	SCH
			BALANCE OF HARDWARE BY GATE FABRICATOR		

END OF SECTION 08 71 00

SECTION 10 80 00

TOILET AND BATH ACCESSORIES

PART 1 - GENERAL

1.01 REFERENCE

A. Requirements in Addenda, Alternates, Conditions, and Division 01 collectively apply to this work.

1.02 DESCRIPTION

A. Principal Work Items Are.

1. Grab bars.
2. Mirrors.
3. Toilet paper dispensers.
4. Toilet seat cover dispensers.
5. Paper towel dispensers.
6. Soap dispensers.
7. Sanitary napkin-tampon vendors and disposal.
8. Shower seats.
9. Baby changing station

B. Related Work Specified Elsewhere:

1. Section 10 28 13.13 – Electric Hand Dryers
2. Division 22 - Plumbing

1.03 SUBSTITUTIONS

A. Only written approval of the District will permit substitutions for materials specified. Refer to Section 01 25 00 – Substitution Procedures.

1.04 QUALITY ASSURANCE

A. Requirements of Regulatory Agencies: Conform to State Handicapped Regulations.

1.05 JOB CONDITIONS

A. Sequencing, Scheduling: Coordinate work with related work of other Sections. Verify types of backing prior to installation of items.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Acceptable Manufacturers and Products:

1. Bobrick Washroom Equipment, Inc., as a standard of quality.
2. Other Manufacturers:

a. American Dispenser Company.
b. Accessory Specialties.
c. Bradley. D. Hallmack.
d. Parker.
e. Watrous.
f. Georgia Pacific.
g. BayWest.
h. Saniflow Corp.

B. Retain "Manufacturers" Paragraph and list of manufacturers below to require products from manufacturers listed or a comparable product from other manufacturers.

2.02 ITEMS

1. Soap Dispenser: District Supplied, Contractor to install
2. Paper Towel Dispenser: Bobrick B-9262
3. Toilet Paper Dispenser: Bobrick B-2888
4. Seat Cover Dispenser: Bobrick B-221

5a. Grab bars: Bobrick B-490 x 42" (1 -1 /4" diameter).
5b. Grab bars: Bobrick B490 x 36" (1 -1 /4" diameter).
5c. Grab bars: Bobrick B-68137 (showers only).
6a. Mirrors: Bobrick B-1658 (Staff & Faculty restrooms only).
6b. Mirrors: Bobrick B-1556 1830.
7a. Recessed sanitary napkin-tampon vendor: Bobrick B-3706.
7b. Surface-mounted sanitary napkin-tampon vendor: Bobrick B-2706.

8. Folding shower seat: Bobrick B-5181 or B-5191 (as required).
9. Shower curtain rod: Bobrick B-6047 (length as required).
10. Mop and broom holder: Bobrick B-223 x 36" (four holders).
11. Electric hand dryers, refer to Spec Section 10 28 13.13 for staff
12. Baby changing station: Koala KB200 Horizontal Surface Mounted
13. Special needs changing table: Max-Ability Pressalit Care 3000. 75” length - Model #R8528021 Fixed height w/ safety rail
14. Heavy Duty Soap Dish and Bar: Bobrick B-4290

15a. Partition-mounted sanitary napkin disposal: Bobrick B-354.
15b. Surface-mounted sanitary napkin disposal: Bobrick B-270.

2.03 PLACEMENT LOCATIONS

A. At sink locations in the Concession (A100) and Training Annex (A112) Laundry (A106).

1. Soap dispensers:-#1

2. Paper towel dispensers-#2

B. Coaches Restrooms

1. Staff Restroom B104:

a. Grab bars-#5a & #5b.
b. Mirrors-#6a.
c. Toilet tissue dispenser-#3
d. Soap dispensers-#1
e. Toilet seat cover dispenser-#4
f. Hand dryer-#11

C. Team Restrooms

1. Boys: Room A108, B102 and B105

a. Grab bars-#5a & #5b. (1 at each H.C. Stall)
b. Mirrors-#6a. (1 at each sink)
c. Paper towel dispenser-#2 (2 in each restroom)
d. Toilet tissue dispenser-#3 (1 at each toilet)
e. Soap dispensers-#1 (1 at each sink)
f. Toilet seat cover dispenser-#4 (1 at each toilet)
g. Hand Dryers - #11

2. Girls: Room A109

a. Grab bars-#5a & #5b. (1 at each H.C. stall)
b. Mirrors-#6a. (1 at each sink)
c. Paper towel dispenser-#2. (2 at each restroom)
d. Toilet tissue dispenser-#3 (1 at each toilet)
e. Soap dispensers-#1 (1 at each sink)
f. Toilet seat cover dispenser-#4 (1 at each toilet)
g. Sanitary napkin disposal #15a or 15b (one at each toilet).
h. Sanitary napkin-tampon vendor #7a or 7b. (1 per restroom)
i. Hand Dryers- #11

D. Custodial Room A104

1. Mop and broom holder #10.

E. Single Occupancy Restroom A105

a. Grab bars-#5a & #5b. (1 at each H.C. stall)
b. Mirrors-#6a. (1 at each sink)
c. Paper towel dispenser-#2. (2 at each restroom)
d. Toilet tissue dispenser-#3 (1 at each toilet)
e. Soap dispensers-#1 (1 at each sink)
f. Toilet seat cover dispenser-#4 (1 at each toilet)
g. Sanitary napkin disposal #15a or 15b (one at each toilet).
h. Sanitary napkin-tampon vendor #7a or 7b. (1 per restroom)

i. Hand Dryers- #11
j. Baby changing station #12:

F. Shower Areas (B101, B104 and B106)

1. Folding shower seat #8. (1 at each H.C. shower)
2. Grab bars #4c. (1 at each H.C. stall)
3. Shower curtain rod #9. (1 at each shower)
4. Recessed soap dish #15 (1 at each shower)

PART 3 - EXECUTION

3.01 INSTALLATION

A. General:

1. Anchorage: Securely anchor all items into solid backing with manufacturer recommended suitable attachments, Phillips-head typical.
2. Mounting Heights: Conform to handicapped requirements for each particular items installed in areas serving the handicapped. Refer to construction drawing.

B. Toilet Accessory Schedule (refer to drawings):

1. Install scheduled items at locations indicated on drawings. Use manufacturer recommended anchor plates.
2. At toilet partitions, use Bobrick 258 Series anchor plates for single grab bar installations.

C. Adjust toilet accessories for proper operation and verify that mechanisms function smoothly. Replace damaged or defective items.

D. Clean and polish all exposed surfaces strictly according to manufacturer's recommendations after removing temporary labels and protective coatings.

END OF SECTION

SECTION 08 41 13 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes requirements including but not limited to:
   1. Exterior and interior storefront framing.
   2. Exterior and interior manual swing entrance doors.
   3. Accessories necessary for a complete installation.

B. Related Sections:
   1. Section 05 12 00: Structural Steel Framing.
   2. Section 05 40 00: Cold-Formed Metal Framing.
   3. Section 05 50 00: Metal Fabrications.
   4. Section 07 62 00: Sheet Metal Flashing and Trim.
   5. Section 07 92 00: Joint Sealants.

1.3 SUBMITTALS

A. Product Data: Technical data for each type of product indicated including construction details, material descriptions, dimensions of individual components and profiles, and finishes for aluminum framed systems.

B. Shop Drawings:
   1. Submit aluminum storefront framing and entrances shop drawings including plans, elevations, sections, full size details, and attachments to other work:
      a. Include details of provisions for system expansion and contraction and for drainage of moisture in the system to the exterior.
      b. For entrance doors, include hardware schedule and indicate operating hardware types, functions, quantities, and locations.

C. Entrance Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of entrance door hardware, as well as procedures and diagrams. Coordinate final entrance door hardware schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of entrance door hardware.

D. Engineer’s calculations of performance requirements.

E. Maintenance Data: For aluminum framed systems to include in maintenance manuals.

1.4 PERFORMANCE REQUIREMENTS

A. Aluminum framed systems shall withstand the effects of specified performance requirements without exceeding performance criteria or fail due to defective manufacture, fabrication, installation, or other defects in construction:
   1. Movements of supporting structure indicated on Drawings including, but not limited to, story drift and deflection from uniformly distributed and concentrated live loads.

2. Dimensional tolerances of building frame and other adjacent construction.
3. Failure includes the following:
   a. Deflection exceeding specified limits.
   b. Thermal stresses transferring to building structure.
   c. Framing members transferring stresses, including those caused by thermal and structural movements to glazing.
   d. Noise or vibration created by wind and by thermal and structural movements.
   e. Loosening or weakening of fasteners, attachments, and other components.
   f. Sealant failure.
   g. Failure of operating units.

B. Structural Loads:
   1. Wind loads: Ultimate wind speed gust 115 mph; exposure D.

C. Deflection of Framing Members:
   1. Deflection normal to wall plane: Limited to edge of glass in a direction perpendicular to glass plane shall not exceed L/175 of the glass edge length for each individual glazing lite or an amount that restricts edge deflection of individual glazing lites to 3/4 inch (19 mm), whichever is less.
   2. Deflection parallel to glazing plane: Limited to L/360 of clear span or 1/8 inch (3.2 mm), whichever is smaller.

D. Structural Test Performance - Provide aluminum framed systems tested according to ASTM E330 as follows:
   1. When tested at positive and negative wind load design pressures, systems do not evidence deflection exceeding specified limits.
   2. When tested at 150 percent of positive and negative wind load design pressures, systems, including anchorage, do not evidence material failures, structural distress, and permanent deformation of main framing members exceeding 0.2 percent of span.
   3. Test durations: As required by design wind velocity, but not fewer than ten (10) seconds.

E. Air Infiltration: Provide aluminum-framed systems with maximum air leakage through fixed glazing and framing areas of 0.06 cfm/sq. ft.0.03 L/s per sq. m of fixed wall area when tested according to ASTM E283 at a minimum static-air-pressure difference of 6.24 lbf/sq. ft. (300 Pa.)

F. Water Penetration under Static Pressure: Provide aluminum-framed systems that do not evidence water penetration through fixed glazing and framing areas when tested according to ASTM E331 at a minimum static-air-pressure difference of 20 percent of positive wind-load design pressure, but not less than 6.24 lbf/sq. ft. (300 Pa.

G. Windborne Debris Impact Resistance:
   1. Pass missile impact and cyclic pressure tests when tested according to ASTM E1886 and testing information in ASTM E1996 for Wind Zone 4:
      a. Large missile test: For glazed openings located within 30 feet (9.1 m) of grade.

H. Thermal Movements:
   1. Provide aluminum-framed systems that allow for thermal movements resulting from the following maximum change (range) in ambient and surface temperatures. Base engineering calculation on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss:
      a. Temperature change (range): 120 degrees F (67 degrees C, ambient; 180 degrees F, 100 degrees C, material surfaces.
      b. Interior ambient-air temperature: 75 degrees F (24 degrees C).

I. Condensation Resistance: Provide aluminum framed systems with fixed glazing and framing areas having condensation-resistance factor (CRF) of not less than 45 when tested according to AAMA 1503.

J. Thermal Conductance: Provide aluminum framed systems with fixed glazing and framing areas having an average U-factor of not more than 0.57 Btu/sq. ft. x h x degrees F3.23 W/sq. m x K when tested according to AAMA 1503.

1.5 QUALITY ASSURANCE

A. Regulatory Requirements:
   1. Accessibility requirements:
      a. 2019 California Building Code: Section 11B-404.3 accessible route.
      b. 2019 California Building Code: Section 11B-309.4 operable parts interior usage.
      c. U.S. Architectural and Transportation Barriers Compliance Board Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities (ADAAG).
      d. ICC/ANSI A117.1 Accessible and Useable Building and Facilities.

B. Installer Qualifications: Installer having minimum ten (10) years' documented experience who is an authorized representative of the manufacturer and is trained and approved for installation of units required.

C. Engineering Responsibility: Prepare data for aluminum framed systems, including shop drawings, based on testing and engineering analysis of manufacturer's standard units in systems similar to those indicated.

D. Product Options:
   1. Information on Drawings and in Specifications establishes requirements for systems' aesthetic effects and performance characteristics. Aesthetic effects are indicated by dimensions, arrangements, alignment, and profiles of components and assemblies as they relate to sightlines, to one another, and to adjoining construction. Performance characteristics are indicated by criteria subject to verification by one or more methods including preconstruction testing, field testing, and in service performance:
      a. Do not revise intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If revisions are proposed, submit comprehensive explanatory data to Architect for review.

E. Source Limitations: Obtain aluminum framed entrances from single source from single manufacturer.

F. Pre-Installation Conference: Conduct conference at site.

1.6 WARRANTY

A. Written warranty signed by manufacturer, Contractor, and installer in which manufacturer agrees to repair or replace components of aluminum framed systems that do not comply with requirements or that fail in materials or workmanship within specified warranty period.
   1. Failures include, but are not limited to, the following:
      a. Structural failures including, but not limited to, excessive deflection.
      b. Noise or vibration caused by thermal movements.
      c. Water leakage through fixed glazing and framing areas.
      d. Failure of operating components.
   2. Warranty period: Two (2) years from date of Substantial Completion.

B. Written warranty signed by manufacturer in which manufacturer agrees to repair or replace

components on which finishes do not comply with requirements or that fail in materials or workmanship within specified warranty period. Warranty does not include normal weathering:

1. Warranty period: Ten (10) years from date of Substantial Completion.

PART 2 PRODUCTS

2.1 MATERIALS

A. Basis of Design:
   1. **Kawneer Trifab 451/451T** (Product Evaluation CWSF-34), And/or the **Trifab 601/601T**, impact resistant system, maximum design pressure +/- 45 psf. Refer to Drawings for frame size and locations. Subject to compliance with requirements, provide comparable storefront system by one of the following:
      a. Tubelite, Inc.
      b. US Aluminum Corporation.
      c. Vistawall.
      d. YKK America AP, Inc.

B. Aluminum:
   1. Alloy and temper recommended by manufacturer for type of use and finish indicated:
      a. Sheet and plate: ASTM B209ASTM B209M.
      b. Extruded bars, rods, profiles, and tubes: ASTM B221ASTM B221M.
      c. Extruded structural pipe and tubes: ASTM B429.

C. Framing Members:
   1. Extruded aluminum framing members of thickness required and reinforced necessary to support imposed loads:
      a. Construction: Nonthermal/thermal.
      b. Glazing system: Retained mechanically with gaskets on four sides.
      c. Glazing plane: Center.

D. Accessories:
   1. Brackets and reinforcements: High strength aluminum with nonstaining, nonferrous shims for aligning system components.
   2. Fasteners and accessories:
      a. Corrosion resistant, nonstaining, nonbleeding fasteners and accessories compatible with adjacent materials:
         1) Use self-locking devices where fasteners are subject to loosening or turning out from thermal and structural movements, wind loads, or vibration.
         2) Reinforce members as required to receive fastener threads.
   3. Concrete and masonry inserts: Hot dip galvanized cast iron, malleable iron, or steel inserts, complying with ASTM A123/A123M or ASTM A153/A153M.
   4. Concealed flashing: Corrosion resistant, nonstaining, nonbleeding flashing compatible with adjacent materials.
   5. Framing system gaskets and sealants: Recommended by manufacturer for joint type.

E. Glazing:
   1. Refer to Section 08 80 00: Glazing for impact resistant laminated insulating glass with low-e coating on Number 2 surface:
      a. Glazing gaskets: Compression types; replaceable, molded or extruded, of profile and hardness required to maintain watertight seal.
      b. Spacers and setting blocks: Elastomeric type.

F. Entrance Doors:

1. Glazed entrance doors for manual swing operation:
   a. Door construction: 1-3/4-inch (44.5 mm) overall thickness, with minimum 0.125-inch (3.2 mm) thick, extruded aluminum tubular rail and stile members. Mechanically fasten corners with reinforcing brackets that are deeply penetrated and fillet welded or that incorporate concealed tie rods.
   b. Door design:
      1) Wide stile; 5-1/2-inch (88.9 mm) nominal width:
         a) Accessible doors: Smooth surfaced for width of door in area within ten inches (255 mm) above floor or ground plane.
   c. Glazing stops and gaskets: Square, snap on, extruded aluminum stops and preformed gaskets.

G. Entrance Door Hardware:
1. Refer to Section 08 71 00: Door Hardware for aluminum entrance hardware sets:
   a. Provide entrance door hardware and entrance door hardware sets indicated in door and frame schedule for each entrance door to comply with requirements in this Section:
      1) Opening-force requirements: CBC Section 11B-404.2.9:
         a) Exterior/interior hinged doors, sliding doors, or folding doors: Five (5) pounds square foot maximum.
         b) Required fire doors: The minimum opening force allowable by DSA not to exceed 15 pounds square foot (these forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door in a closed position).
         c) Accessible interior doors: Maximum five (5) pounds foot to fully open door.
      2) Weather stripping: Standard replaceable components to match existing.
      3) Weather sweeps: Standard exterior door bottom sweep with exposed fasteners on mounting strip to match existing.

H. Accessories:
1. Joint sealants: For installation at perimeter of aluminum framed systems, refer to Section 07 92 00: Joint Sealants.
2. Bituminous paint: Cold applied, asphalt mastic paint complying with SSPC-Paint 12 requirements except containing no asbestos; formulated for 30 mil 0.762 mm thickness per coat.

2.2 FABRICATION

A. Form or extrude aluminum shapes before finishing.

B. Framing Members:
1. Fabricate components that, when assembled, have specified characteristics:
   a. Profiles that are sharp, straight, and free of defects or deformations.
   b. Accurately fitted joints with ends coped or mitered.
   c. Means to drain water passing joints, condensation within framing members, and moisture migrating within the system to exterior.
   d. Physical and thermal isolation of glazing from framing members.
   e. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.
   f. Provisions for field replacement of glazing from interior for vision glass and exterior for spandrel glazing or metal panels.
   g. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.
   h. Provide sill receptors with end dams at all sill conditions.

C. Mechanically Glazed Framing Members: Fabricate for flush glazing without projecting stops.

D. Storefront Framing: Fabricate components for assembly using screw spline system.

E. Entrance Door Frames:
   1. Reinforce as required to support loads imposed by door operation and for installing entrance door hardware:
      a. At exterior doors, provide weather stripping at fixed stops.
      b. At interior doors, provide weather stripping at stops to prevent metal to metal contact.

F. Entrance Doors:
   1. Reinforce doors as required for installing entrance door hardware:
      a. At pairs of exterior doors, provide compression type weather stripping retained in adjustable strip and mortised into door edge.
      b. At exterior doors, provide weather sweeps applied to door bottoms.

G. After fabrication, clearly mark components to identify their locations in Project according to shop drawings.

2.3 ALUMINUM FINISHES

A. Class I, Clear Anodic Finish (#14): AA-M10C21A41 / AA-M45C22A41, 0.018 mm or thicker.

PART 3 EXECUTION

3.1 PROJECT CONDITIONS

A. Field Measurements: Verify actual locations of structural supports for aluminum framed systems by field measurements before fabrication and indicate measurements on shop drawings.

3.2 EXAMINATION

A. Examine areas and conditions for compliance with requirements for installation tolerances and conditions affecting performance of the work. Proceed with installation after correcting unsatisfactory conditions.

3.3 INSTALLATION

A. Comply with aluminum framed storefront manufacturer recommended installation instructions. Coordinate installation with curtain wall work:
   1. Do not install damaged components.
   2. Fit joints to produce hairline joints free of burrs and distortion.
   3. Rigidly secure nonmovement joints.
   4. Install anchors with separators and isolators to prevent metal corrosion and electrolytic deterioration.
   5. Seal joints watertight unless otherwise indicated.
   6. Min anchorage #8 with two-inch (2”) minimum embedment; minimum two inches (2”) from edges. Refer to shop drawings.

B. Metal Protection:
   1. Where aluminum will contact dissimilar metals, protect against galvanic action by painting contact surfaces with primer or applying sealant or tape, or by installing nonconductive spacers as recommended by manufacturer for this purpose.

2. Where aluminum will contact concrete or masonry, protect against corrosion by painting contact surfaces with bituminous paint.

C. Install components to drain water passing joints, condensation occurring within framing members, and moisture migrating within the system to exterior.

D. Set continuous sill members and flashing in full sealant bed as specified in Section 07 92 00: Joint Sealants to produce weathertight installation.

E. Install components plumb and true in alignment with established lines and grades, and without warp or rack.

F. Install glazing specified in Section 08 80 00: Glazing.

G. Entrance Doors and Hardware:
1. Install doors to produce smooth operation and tight fit at contact points:
a. Exterior doors: Install to produce weathertight enclosure and tight fit at weather stripping.
b. Field installed entrance door hardware: Install surface mounted entrance door hardware according to entrance door hardware manufacturers' written instructions using concealed fasteners to greatest extent possible.

H. Install perimeter joint sealants as specified in Section 07 92 00: Joint Sealants to produce weathertight installation.

3.4 ERECTION TOLERANCES

A. Install aluminum framed systems to comply with the following maximum erection tolerances:
1. Location and plane: Limit variation from true location and plane to 1/8 inch in 12 feet (3 mm in 3.7 m); 1/4 inch (6 mm) over total length.
2. Alignment:
a. Where surfaces abut in line, limit offset from true alignment to 1/16 inch (1.5 mm).
b. Where surfaces meet at corners, limit offset from true alignment to 1/32 inch (0.8 mm).

B. Diagonal Measurements: Limit difference between diagonal measurements to 1/8 inch (3 mm).

3.5 ADJUSTING

A. Adjust operating entrance door hardware to function smoothly as recommended by manufacturer:
1. For entrance doors accessible to people with disabilities, adjust closers to provide a three (3) second closer sweep period for doors to move from a 70-degree open position to three inches (75 mm) from the latch, measured to the leading door edge.

3.6 MAINTENANCE SERVICE

A. Entrance Door Hardware:
1. Maintenance tools and instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of entrance door hardware.
2. Initial maintenance service: Beginning at Substantial Completion, provide six (6) months full maintenance by skilled employees of entrance door hardware installer.

Include quarterly preventive maintenance, repair, or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper entrance door hardware operation at rated speed and capacity. Provide parts and supplies the same as those used in the manufacture and installation of original equipment.

END OF SECTION 08 41 13

SECTION 22 11 14 ATHLETIC TRAINING ICE BATH TUBS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes requirements including but not limited to:
   1. Provide factory-fabricated, commercial-grade cold plunge tubs for athletic training and cold therapy.
   2. Complete with integrated chiller.
   3. Filtration system.
   4. Automatic water-chemical control.
   5. Controls and accessories.
   6. Accessories necessary for a complete installation.

B. Related Sections:
   1. Section 22 30 00: Plumbing Equipment.

1.3 DEFINITIONS

A. Comparable Product: Product demonstrated and approved through submittal process, or where indicated as a produce substitution, to have the indicated qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics that equal or exceed those of specified product.

1.4 REFERENCE

A. NSF/ANSI 50 – Equipment for Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (filtering and sanitization compliance)

B. UL – Certification for refrigeration and electrical safety (e.g., chiller compressor)

C. ADA Standards for Accessible Design (clearances and controls where applicable)

D. EPA – Clean water filtration standards for natural purification systems

1.5 SUBMITTALS

A. Product Data: Manufacturer’s catalog cuts, technical specifications, and installation instructions.

B. Shop Drawings: Indicate dimensions, required clearances, mounting, and connection interfaces

C. Operation & Maintenance Data: Cleaning procedures, filter replacement intervals, controller functions.

D. Performance Data: Chilling rate, temperature range, filtration capacity

E. Warranty Information

1.6 WARRANTY

A. Provide manufacturer's standard warranty, minimum 1 year for tub, chiller, and controls (unless extended coverage offered) .

B. Colderatti Vessel+ (alternative): Provide Commercial Care+ coverage – 4 years warranty, damage protection, and tech support.

C. Other: Submit warranty

1.7 DELIVERY, STORAGE, AND HANDLING

A. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

B. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by manufacturer.

C. Exercise exceptional care to prevent edge damage to equipment.

PART 2 PRODUCTS

2.1 MATERIALS

A. Basis of Design: Whitehall Manufacturing, model WHS-110-M.
   1. Dimensions & Capacity: 56"L x 24"W x 33"H; 110 gallon water capacity.
   2. Materials & Construction: Heavy-duty Type 304 stainless steel.
   3. Performance:
      a) Turbine Assembly: ½ HP motor, variable speed, 120V GFCI protected.
      b) Adjustable turbine ejector: 360° rotation; aerates and agitates water.
      c) Thermometer with protective guard.
      d) Drain assembly with strainer and valve.
      e) Operation: Designed for use with cold or hot water fill; can be converted to ice bath with added ice; no integrated refrigeration.
      f) Electrical: 120V, 15A, GFCI required.

B. Approved Alternate: Plunge All-In Commercial Max
   1. Dimensions & Capacity: 77"L x 31.5"W x 29"H; 100 gallon water capacity.
   2. Materials & Construction: Heavy-duty commercial materials, modern design, secure functional cover included
   3. Performance:
      a) Operating temperature range: 37 °F to ambient (~104 °F max).
      b) Cooling capacity: Able to cool a full tub (~100 gal) to 37 °F within 6 hours maximum.
      c) Temperature stability: Maintain setpoint within ±1 °F during continuous operation.
      d) Filtration: NSF 50 certified; minimum 20 gpm turnover; replaceable cartridge filter.
      e) Water treatment: Automated pH and chlorine dosing system with sensor feedback.
      f) Circulation: Continuous low-flow circulation pump to maintain uniform temperature.
      g) Controls: Digital interface with Wi-Fi connectivity, app control, and remote

monitoring.
h) Safety: GFCI protection, integrated skimmer with removable debris catch.

C. Approved Alternative: Colderatti Vessel+
1. Dimensions & Capacity: 74” L × 30” W × 28” H; 90 gallons water capacity
2. Materials & Construction: Insulated, aerospace-grade stainless steel
3. Performance:
a) Operating temperature range: 32 °F to 107 °F.
b) Cooling/heating capacity: HyperChiller™ capable of 15,000 BTU/hr equivalent; cool from 70 °F to 39 °F in under 4 hours.
c) Temperature stability: Maintain setpoint within ±1 °F.
d) Filtration: Dual-stage with ozone purification; minimum 20 gpm turnover.
e) Water treatment: All-natural, chemical-free ozone sanitation system.
f) Controls: Digital control panel and mobile app with scheduling.
g) Environmental rating: Freeze-protection to –10 °F ambient.
h) Load capacity: Support 700 lb user load.

D. Common Requirements:
1. Drain assembly with strainer and shutoff.
2. Anti-slip entry platform or step.
3. Insulated lockable cover included.

PART 3 EXECUTION

3.1 INSTALLATION

A. Coordinate glazing channel dimensions to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses with reasonable tolerances.

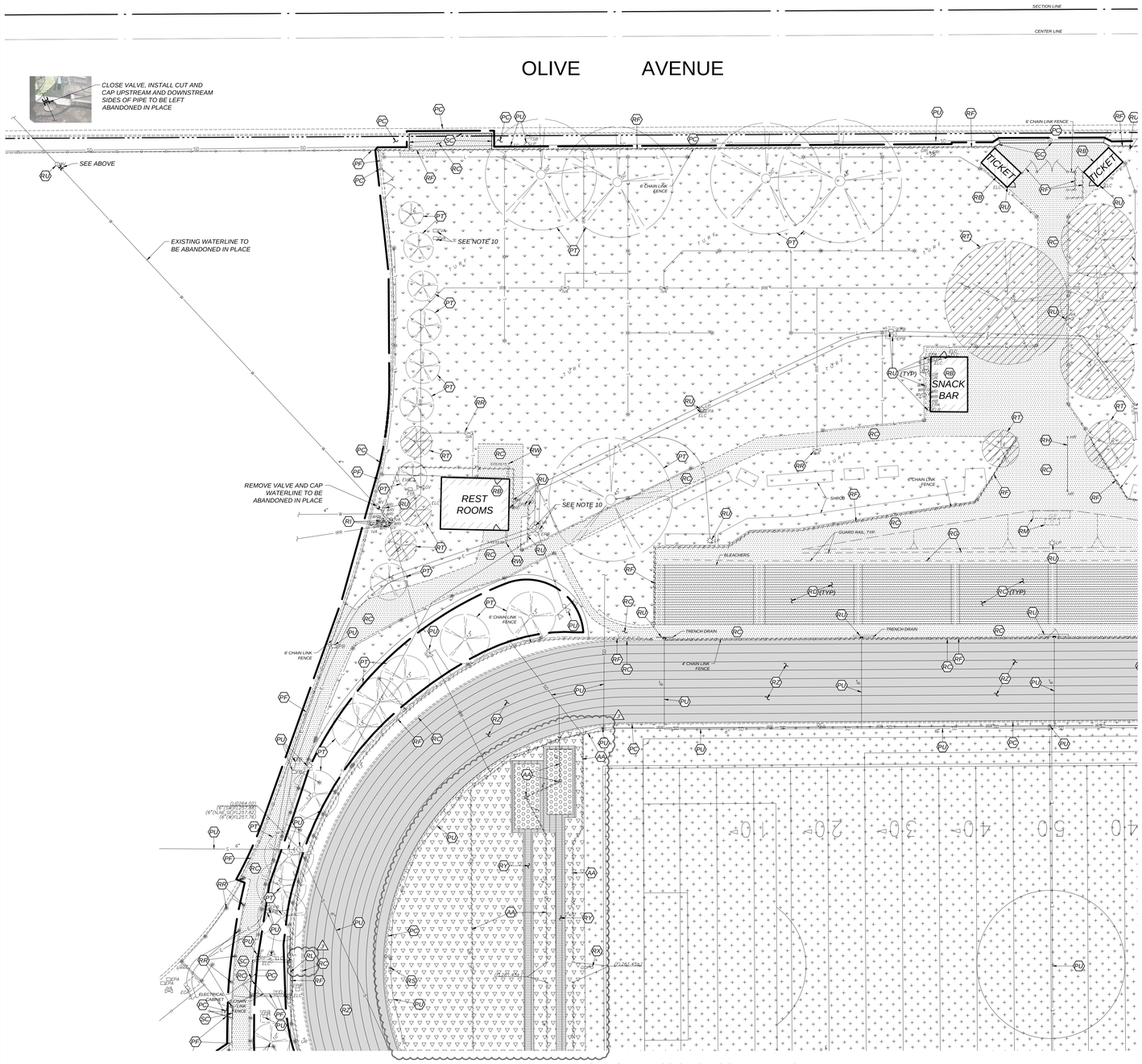
3.2 FIELD QUALIY CONTROL

A. Start-up:
1. Verify controls, Wi-Fi interfaces, and remote access functionality.
2. Confirm chiller can achieve lowest operating temperature (37 °F Plunge; 32 °F for Colderatti) within performance specs.
3. Demonstrate automatic water chemistry control (Plunge) or self-cleaning filtration (Colderatti).
4. Verify water temperature throughout tub maintains within ±1 °F of setpoint.
5. Install per manufacturer's installation instructions.

3.3 DEMONSTRATION

A. Train Owner’s staff on:
1. Filling/draining procedures.
2. Water chemistry monitoring/maintenance.
3. Filter replacement.
4. Scheduling via digital control/app.
5. Cleaning Process

END OF SECTION 22 11 14



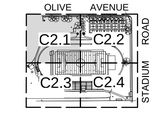
SEE SHEET C2.2 FOR CONTINUATION

DEMOLITION LEGEND:

- APPROXIMATE LIMITS OF DEMOLITION. REMOVE EXISTING IMPROVEMENTS AS NECESSARY TO CONSTRUCT NEW IMPROVEMENTS SHOWN ON THESE PLANS UNLESS OTHERWISE NOTED ON THE PLAN. THE REMOVAL OF IMPROVEMENTS MUST BE COORDINATED WITH ALL PLAN SHEETS. CONTRACTOR MUST ALSO COORDINATE REMOVAL OF IMPROVEMENTS WITH UTILITY AGENCIES. PROTECT ALL IMPROVEMENTS NOT DESIGNATED FOR REMOVAL. SEE NOTE 1
- LIMITS OF VEGETATION REMOVAL. 4" MINIMUM DEPTH
- LIMITS OF REMOVAL OF SYNTHETIC TURF SURFACE MATERIAL BY OWNER; PROTECT EXISTING BASE AND SHOCK PAD
- LIMITS OF CONCRETE IMPROVEMENT REMOVAL
- LIMITS OF TRACK SURFACING REMOVAL BY OWNER
- LIMITS OF ASPHALTIC CONCRETE REMOVAL
- LIMITS OF SYNTHETIC TURF, SHOCK PAD AND BASE REMOVAL BY CONTRACTOR
- LIMITS OF SAND REMOVAL
- LIMITS OF TRACK SURFACING AND UNDERLYING CONCRETE REMOVAL (2)
- LIMITS OF DEMOLITION PER DSA APPLICATION NO. 02-121624
- (AA) REMOVE PERFORATED PIPE, DRAIN ROCK, FABRIC, ETC., SEE DETAIL [I/CX1.7] FOR EXISTING CONDITIONS
- (PB) PROTECT BASKETBALL EQUIPMENT TO REMAIN
- (PC) PROTECT CONCRETE TO REMAIN
- (PF) PROTECT CHAIN LINK FENCE TO REMAIN
- (PP) REMOVE EXISTING STRIPING AND PROTECT EXISTING PLAYCOURT ASPHALT TO REMAIN
- (PT) PROTECT TREE TO REMAIN
- (PU) PROTECT UTILITY TO REMAIN
- (PV) PROTECT VOLLEYBALL NET POST SLEEVE
- (RA) REMOVE AND LAWFULLY DISPOSE OF ASPHALT CONCRETE PAVEMENT STRUCTURAL SECTION
- (RB) REMOVE AND LAWFULLY DISPOSE OF BUILDING, FOUNDATION, UTILITIES, ETC.
- (RC) REMOVE AND LAWFULLY DISPOSE OF CONCRETE IMPROVEMENTS
- (RD) REMOVE AND LAWFULLY DISPOSE OF BLEACHERS
- (RE) REMOVE BASKETBALL EQUIPMENT AND RETURN TO OWNER
- (RF) REMOVE AND LAWFULLY DISPOSE OF CHAIN LINK FENCE FABRIC, POSTS AND FOOTINGS
- (RG) REMOVE AND RELOCATE BASKETBALL EQUIPMENT. SEE SITE PLAN SHEET C3.2 FOR NEW LOCATION
- (RH) REMOVE AND LAWFULLY DISPOSE OF HANDRAILS AND FOOTINGS
- (RI) DISCONNECT THE EXISTING BOOSTER PUMP FROM THE EXISTING IRRIGATION SERVICE LINE AND THE ELECTRICAL POWER. REMOVE PUMP, PIPE AND VALVES AS NEEDED FOR NEW BOOSTER PUMP PACKAGE. SEE SHEET IR1.1.
- (RJ) REMOVE AND SALVAGE IRON GATE, RETURN TO OWNER
- (RK) REMOVE AND LAWFULLY DISPOSE OF BLOCK WALK
- (RL) (1) REMOVE AND RETURN SCOREBOARD TO OWNER
- (RM) REMOVE AND RELOCATE MONUMENT SIGN. SEE ARCHITECTURAL SITE PLAN FOR NEW LOCATION
- (RO) REMOVE AND RETURN SHIPPING CONTAINER TO OWNER
- (RP) REMOVE AND RELOCATE FLAG POLE. SEE ARCHITECTURAL SITE PLAN FOR LOCATION
- (RQ) REMOVE AND RETURN FLAG POLE TO OWNER
- (RR) REMOVE AND RELOCATE (SEE IRRIGATION PLAN - IR1.1 TO IR1.5 FOR NEW LOCATION)
- (RS) REMOVE EXISTING SYN TURF ROTOR AND SWING JOINT. CAP TEE. REPLACE ALL VAULT BOX LIDS
- (RT) REMOVE AND LAWFULLY DISPOSE OF TREE AND ROOTS
- (RU) REMOVE AND LAWFULLY DISPOSE OF UTILITY
- (RV) REMOVE AND RELOCATE DEDICATION MONUMENT. SEE SITE PLAN FOR LOCATION
- (RW) REMOVE AND LAWFULLY DISPOSE OF WOOD BARRIER
- (RX) REMOVE GOAL POST AND FOOTINGS
- (RY) REMOVE AND LAWFULLY DISPOSE OF UNDERLYING CONCRETE IMPROVEMENTS
- (RZ) TRACK SURFACING REMOVAL BY OWNER
- (SB) SALVAGE BASKETBALL POLE AND BACKBOARD FOR REINSTALLATION
- (SC) SAWCUT
- C CAP END OF UTILITY LINE
- REMOVE TREE
- LIMIT OF CHAIN LINK FENCE REMOVAL
- LIMIT OF CONCRETE BLOCK WALL REMOVAL
- LIMIT OF SEWER MAIN LINE REMOVAL
- LIMIT OF STORM DRAIN LINE REMOVAL
- LIMIT OF STRIPING REMOVAL
- LIMIT OF IRRIGATION LINE REMOVAL

GENERAL DEMOLITION NOTES:

1. THE "LIMIT OF DEMOLITION" SHOWN IS APPROXIMATE AND IS GENERALLY CONSIDERED TO BE THE MINIMUM REMOVAL REQUIREMENTS. CONTRACTOR MUST COORDINATE AS NOTED IN THE LEGEND.
2. CONTRACTOR SHALL LEGALLY DISPOSE OF ALL DEMOLISHED MATERIALS OFF SITE.
3. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITY IMPROVEMENTS NOT SPECIFICALLY DESIGNATED FOR REMOVAL.
4. THE ON-SITE UNDERGROUND UTILITIES SHOWN ON THIS SHEET ARE AT APPROXIMATE LOCATIONS. THE EXTENT, LOCATIONS AND SIZES ARE UNKNOWN. THE CONTRACTOR SHALL POTHOLE TO LOCATE AND VERIFY THE UNDERGROUND UTILITY LINES PRIOR TO REMOVAL.
5. CONTRACTOR TO PROTECT AND PRESERVE IN PLACE ANY FOUND SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE RESET BY A CALIFORNIA LICENSED SURVEYOR AND THE APPROPRIATE PAPERWORK FILED WITH THE CITY OR COUNTY, AT CONTRACTOR'S EXPENSE.
6. ALL HAZARDOUS MATERIALS ENCOUNTERED DURING SITE DEMOLITION SHALL BE REMEDIATED AND DISPOSED OF PER STATE AND EPA REQUIREMENTS.
7. CONTRACTOR SHALL CONTACT AND COORDINATE WITH ALL UTILITY AGENCIES PRIOR TO THE START OF ANY DEMOLITION OR CONSTRUCTION.
8. ANY EXISTING UTILITIES AND/OR IMPROVEMENTS WHICH ARE TO REMAIN, THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE OWNER AND AGENCY HAVING AUTHORITY, AT THE CONTRACTOR'S SOLE EXPENSE.
9. REMOVE EXISTING IMPROVEMENTS AS NECESSARY TO CONSTRUCT NEW IMPROVEMENTS SHOWN ON THESE PLANS.
   a) FOR CONCRETE REMOVAL, REMOVE TO THE NEXT NEAREST TOOLED JOINT OR EXPANSION JOINT OF IMPROVEMENTS DESIGNATED TO REMAIN.
   b) FOR ASPHALTIC PAVEMENT REMOVAL. SAWCUT TO A STRAIGHT, CLEAN EDGE AT LOCATIONS INDICATED ON THE PLANS.
10. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, IRRIGATION, AND ARCHITECTURAL PLANS FOR ADDITIONAL DEMOLITION AND COORDINATION.
11. COMPLIANCE WITH FIRE SAFETY DURING CONSTRUCTION WILL BE ENFORCED.
12. THE REMOVAL OF THE EXISTING TRACK SURFACING AND THE EXISTING SYNTHETIC TURF CARPET SHALL BE PERFORMED BY THE OWNER'S CMAS CONTRACTORS. THE GENERAL CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE OWNER'S CMAS CONTRACTORS.
13. SOCCER GOAL ANCHORS EXACT LOCATION ARE UNKNOWN BUT SHALL BE PROTECTED IN PLACE. ANY DAMAGE DURING FIELD DEMOLITION SHALL BE REPAIRED TO PROVIDE A FULLY FUNCTIONAL ANCHOR SYSTEM.



KEYMAP

SCALE: N 1"=20'

0 5 20 40
SCALE IN FEET

Know what's below. Call before you dig.

PBK

ARCHITECT PBK Architects, Inc.
FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

Blair, Church & Flynn
CONSULTING ENGINEERS

MADERA HIGH SCHOOL STADIUM

200 SOUTH L STREET
MADERA, CA 93837

PHASE 2 CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER
JEFFREY D. DRAMS
No. 36,181
CIVIL
STATE OF CALIFORNIA

5/16/25
Date Signed:

PROJECT NUMBER	20-51
DATE	5/16/2025
DSA APPLICATION NO.	02-122784
FILE NO.	20-H3
PTN NO.	65243-154
DRAWN BY	DG

REVISIONS

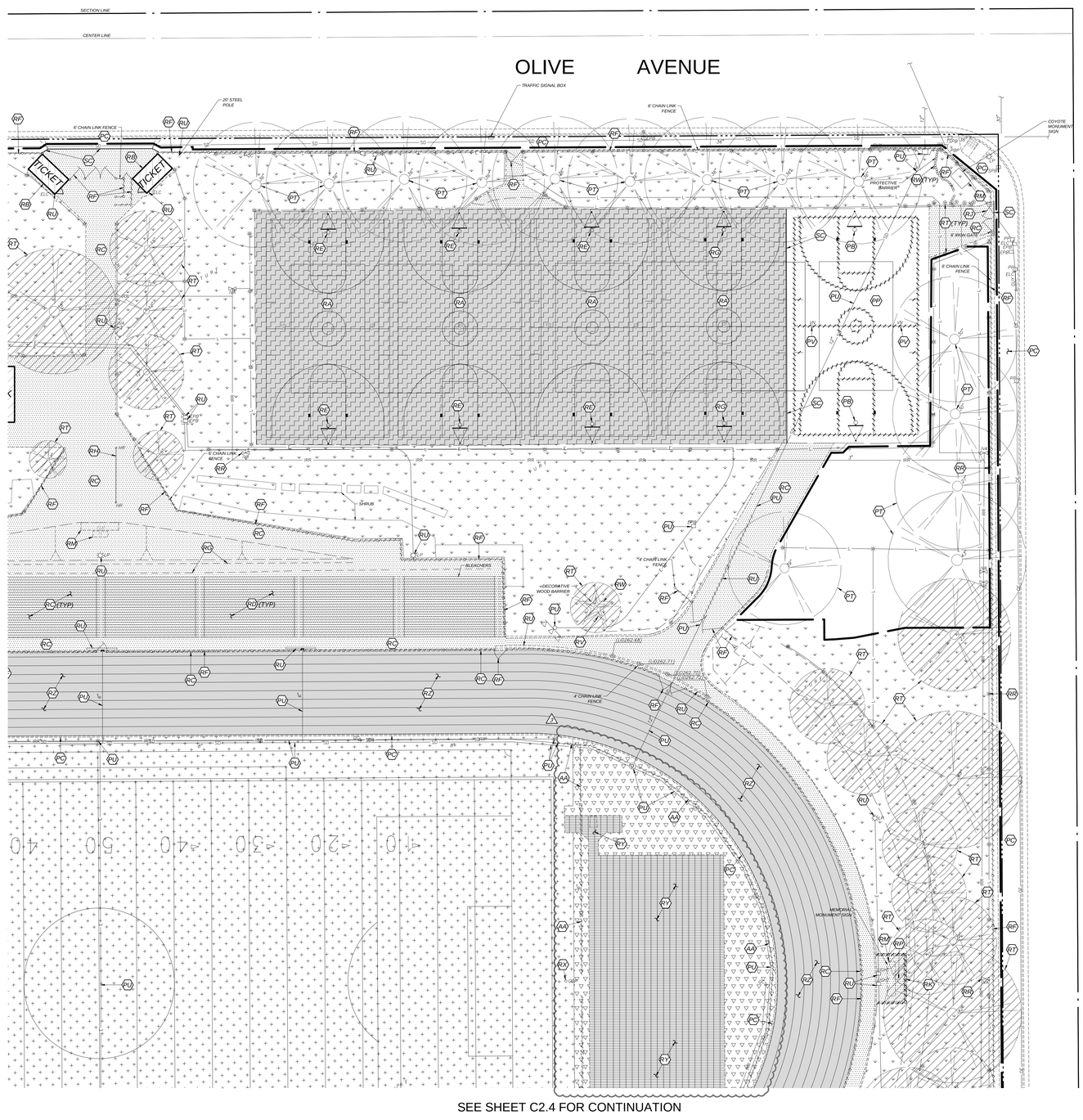
#	DESCRIPTION	DATE
1	ADDENDUM 1	8/12/25
2	ADDENDUM 3	8/27/25

CONSTRUCTION DOCUMENTS

DEMOLITION PLAN

C2.1

Drawing P:\22\22-02\03\drawing\sheets\pw\22252_02t03.dwg, C2.1 - Plotted by: dgarcia Aug 27, 2025 1:40pm



DEMOLITION LEGEND:

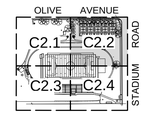
- APPROXIMATE LIMITS OF DEMOLITION. REMOVE EXISTING IMPROVEMENTS AS NECESSARY TO CONSTRUCT NEW IMPROVEMENTS SHOWN ON THESE PLANS UNLESS OTHERWISE NOTED ON THE PLAN. THE REMOVAL OF IMPROVEMENTS MUST BE COORDINATED WITH ALL PLAN SHEETS. CONTRACTOR MUST ALSO COORDINATE REMOVAL OF IMPROVEMENTS WITH UTILITY AGENCIES. PROTECT ALL IMPROVEMENTS NOT DESIGNATED FOR REMOVAL. SEE NOTE 1
- LIMITS OF VEGETATION REMOVAL. 4" MINIMUM DEPTH
- LIMITS OF REMOVAL OF SYNTHETIC TURF SURFACE MATERIAL BY OWNER; PROTECT EXISTING BASE AND SHOCK PAD
- LIMITS OF CONCRETE IMPROVEMENT REMOVAL
- LIMITS OF TRACK SURFACING REMOVAL BY OWNER
- LIMITS OF ASPHALTIC CONCRETE REMOVAL
- LIMITS OF SYNTHETIC TURF, SHOCK PAD AND BASE REMOVAL BY CONTRACTOR
- LIMITS OF SAND REMOVAL
- LIMITS OF TRACK SURFACING AND UNDERLYING CONCRETE REMOVAL (2)
- LIMITS OF DEMOLITION PER DSA APPLICATION NO. 02-121624
- (AA) REMOVE PERFORATED PIPE, DRAIN ROCK, FABRIC, ETC., SEE DETAIL [I/CX1.7] FOR EXISTING CONDITIONS
- (PB) PROTECT BASKETBALL EQUIPMENT TO REMAIN
- (PC) PROTECT CONCRETE TO REMAIN
- (PF) PROTECT CHAIN LINK FENCE TO REMAIN
- (PP) REMOVE EXISTING STRIPING AND PROTECT EXISTING PLAYCOURT ASPHALT TO REMAIN
- (PT) PROTECT TREE TO REMAIN
- (PU) PROTECT UTILITY TO REMAIN
- (PV) PROTECT VOLLEYBALL NET POST SLEEVE
- (RA) REMOVE AND LAWFULLY DISPOSE OF ASPHALT CONCRETE PAVEMENT STRUCTURAL SECTION
- (RB) REMOVE AND LAWFULLY DISPOSE OF BUILDING, FOUNDATION, UTILITIES, ETC.
- (RC) REMOVE AND LAWFULLY DISPOSE OF CONCRETE IMPROVEMENTS
- (RE) REMOVE AND LAWFULLY DISPOSE OF BLEACHERS
- (RE) REMOVE BASKETBALL EQUIPMENT AND RETURN TO OWNER
- (RF) REMOVE AND LAWFULLY DISPOSE OF CHAIN LINK FENCE FABRIC, POSTS AND FOOTINGS
- (RG) REMOVE AND RELOCATE BASKETBALL EQUIPMENT. SEE SITE PLAN SHEET C3.2 FOR NEW LOCATION
- (RH) REMOVE AND LAWFULLY DISPOSE OF HANDRAILS AND FOOTINGS
- (RI) DISCONNECT THE EXISTING BOOSTER PUMP FROM THE EXISTING IRRIGATION SERVICE LINE AND THE ELECTRICAL POWER. REMOVE PUMP, PIPE AND VALVES AS NEEDED FOR NEW BOOSTER PUMP PACKAGE. SEE SHEET IR1.1.
- (RJ) REMOVE AND SALVAGE IRON GATE, RETURN TO OWNER
- (RK) REMOVE AND LAWFULLY DISPOSE OF BLOCK WALK
- (RL) REMOVE AND RETURN SCOREBOARD TO OWNER (2)
- (RM) REMOVE AND RELOCATE MONUMENT SIGN. SEE ARCHITECTURAL SITE PLAN FOR NEW LOCATION
- (RO) REMOVE AND RETURN SHIPPING CONTAINER TO OWNER
- (RP) REMOVE AND RELOCATE FLAG POLE. SEE ARCHITECTURAL SITE PLAN FOR LOCATION
- (RQ) REMOVE AND RETURN FLAG POLE TO OWNER
- (RW) REMOVE AND RELOCATE (SEE IRRIGATION PLAN - IR1.1 TO IR1.5 FOR NEW LOCATION)
- (RS) REMOVE EXISTING SYN TURF ROTOR AND SWING JOINT. CAP TEE. REPLACE ALL VAULT BOX LIDS
- (RT) REMOVE AND LAWFULLY DISPOSE OF TREE AND ROOTS
- (RU) REMOVE AND LAWFULLY DISPOSE OF UTILITY
- (RV) REMOVE AND RELOCATE DEDICATION MONUMENT. SEE SITE PLAN FOR LOCATION
- (RW) REMOVE AND LAWFULLY DISPOSE OF WOOD BARRIER
- (RX) REMOVE GOAL POST AND FOOTINGS
- (RY) REMOVE AND LAWFULLY DISPOSE OF UNDERLYING CONCRETE IMPROVEMENTS
- (RZ) TRACK SURFACING REMOVAL BY OWNER
- (SB) SALVAGE BASKETBALL POLE AND BACKBOARD FOR REINSTALLATION
- (SC) SAWCUT
- CAP END OF UTILITY LINE
- REMOVE TREE
- LIMIT OF CHAIN LINK FENCE REMOVAL
- LIMIT OF CONCRETE BLOCK WALL REMOVAL
- LIMIT OF SEWER MAIN LINE REMOVAL
- LIMIT OF STORM DRAIN LINE REMOVAL
- LIMIT OF STRIPING REMOVAL
- LIMIT OF IRRIGATION LINE REMOVAL

GENERAL DEMOLITION NOTES:

1. THE "LIMIT OF DEMOLITION" SHOWN IS APPROXIMATE AND IS GENERALLY CONSIDERED TO BE THE MINIMUM REMOVAL REQUIREMENTS. CONTRACTOR MUST COORDINATE AS NOTED IN THE LEGEND.
2. CONTRACTOR SHALL LEGALLY DISPOSE OF ALL DEMOLISHED MATERIALS OFF SITE.
3. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITY IMPROVEMENTS NOT SPECIFICALLY DESIGNATED FOR REMOVAL.
4. THE ON-SITE UNDERGROUND UTILITIES SHOWN ON THIS SHEET ARE AT APPROXIMATE LOCATIONS. THE EXTENT, LOCATIONS AND SIZES ARE UNKNOWN. THE CONTRACTOR SHALL POTHOLE TO LOCATE AND VERIFY THE UNDERGROUND UTILITY LINES PRIOR TO REMOVAL.
5. CONTRACTOR TO PROTECT AND PRESERVE IN PLACE ANY FOUND SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE RESET BY A CALIFORNIA LICENSED SURVEYOR AND THE APPROPRIATE PAPERWORK FILED WITH THE CITY OR COUNTY, AT CONTRACTOR'S EXPENSE.
6. ALL HAZARDOUS MATERIALS ENCOUNTERED DURING SITE DEMOLITION SHALL BE REMEDIATED AND DISPOSED OF PER STATE AND EPA REQUIREMENTS.
7. CONTRACTOR SHALL CONTACT AND COORDINATE WITH ALL UTILITY AGENCIES PRIOR TO THE START OF ANY DEMOLITION OR CONSTRUCTION.
8. ANY EXISTING UTILITIES AND/OR IMPROVEMENTS WHICH ARE TO REMAIN, THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE OWNER AND AGENCY HAVING AUTHORITY, AT THE CONTRACTOR'S SOLE EXPENSE.
9. REMOVE EXISTING IMPROVEMENTS AS NECESSARY TO CONSTRUCT NEW IMPROVEMENTS SHOWN ON THESE PLANS.
   a) FOR CONCRETE REMOVAL, REMOVE TO THE NEXT NEAREST TOOLED JOINT OR EXPANSION JOINT OF IMPROVEMENTS DESIGNATED TO REMAIN.
   b) FOR ASPHALTIC PAVEMENT REMOVAL, SAWCUT TO A STRAIGHT, CLEAN EDGE AT LOCATIONS INDICATED ON THE PLANS.
10. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, IRRIGATION, AND ARCHITECTURAL PLANS FOR ADDITIONAL DEMOLITION AND COORDINATION.
11. COMPLIANCE WITH FIRE SAFETY DURING CONSTRUCTION WILL BE ENFORCED.
12. THE REMOVAL OF THE EXISTING TRACK SURFACING AND THE EXISTING SYNTHETIC TURF CARPET SHALL BE PERFORMED BY THE OWNER'S CMAS CONTRACTORS. THE GENERAL CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE OWNER'S CMAS CONTRACTORS.
13. SOCCER GOAL ANCHORS EXACT LOCATION ARE UNKNOWN BUT SHALL BE PROTECTED IN PLACE. ANY DAMAGE DURING FIELD DEMOLITION SHALL BE REPAIRED TO PROVIDE A FULLY FUNCTIONAL ANCHOR SYSTEM.

SCALE: N 1"=20'

0 5 20 40
SCALE IN FEET



KEYMAP

Know what's below. Call before you dig.

PBK
ARCHITECT PBK Architects, Inc.
FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com
Blair, Church & Flynn
CONSULTING ENGINEERS

MADERA HIGH SCHOOL STADIUM

200 SOUTH L STREET
MADERA, CA 93637
PHASE 2 CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER — JEFFREY D. BRYANS — No. 36,181 — CIVIL — STATE OF CALIFORNIA

5/16/25
Date Signed:

PROJECT NUMBER
20-51

DATE
5/16/2025

DSA APPLICATION NO.
02-122784

FILE NO.
20-H3

PTN NO.
65243-154

DRAWN BY
DG

REVISIONS

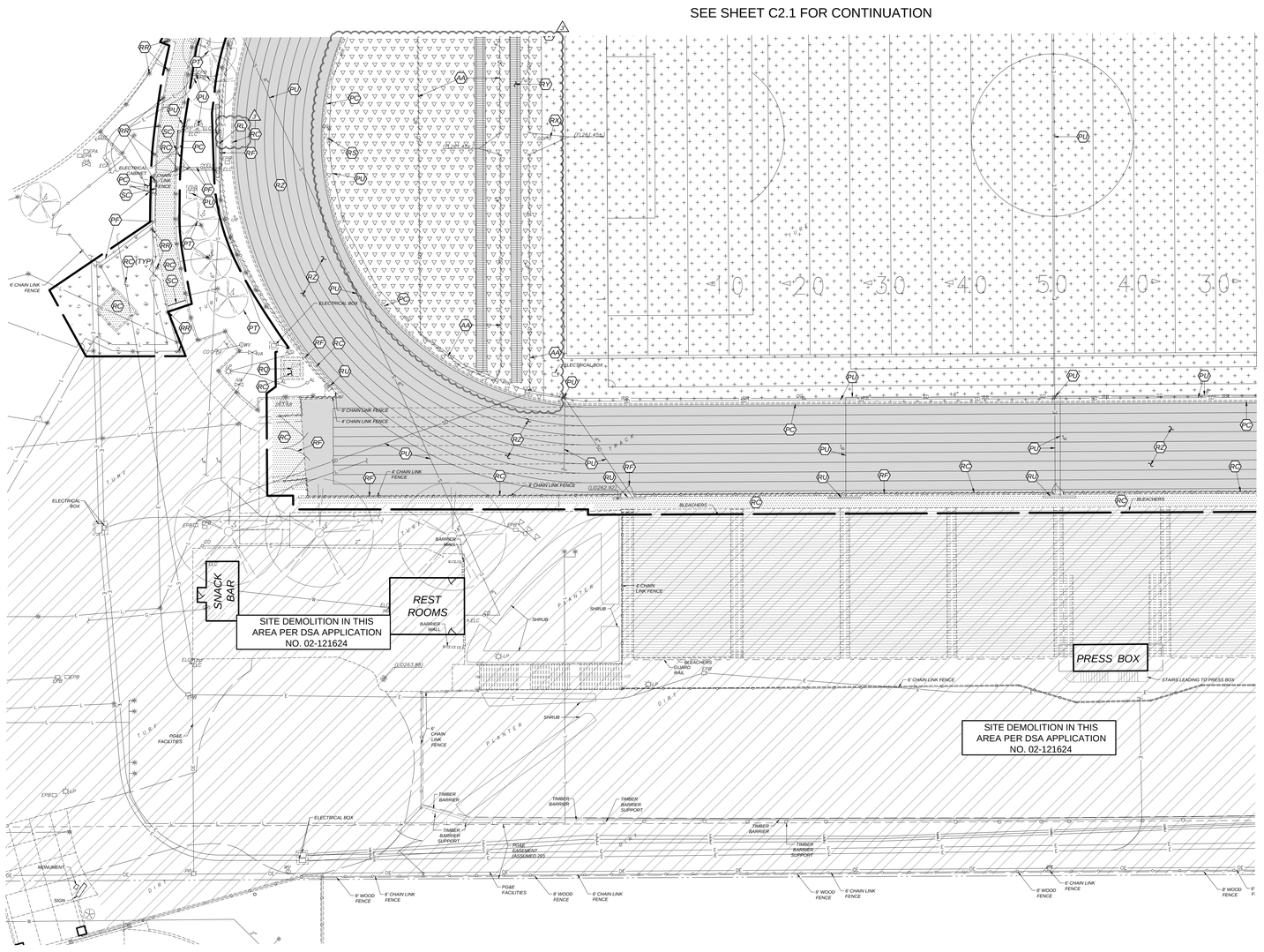
#	DESCRIPTION	DATE
2	ADDENDUM 1	8/12/25
3	ADDENDUM 3	8/27/25

CONSTRUCTION DOCUMENTS

DEMOLITION PLAN

C2.2

Drawing: P:\22\2220\100\Stadium\Architect\drawings\222252_A0D0 dwg, C2.1 —
Plot Signature: Aug 27, 2025 1:48pm

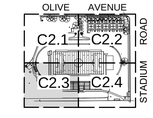


DEMOLITION LEGEND:

- APPROXIMATE LIMITS OF DEMOLITION. REMOVE EXISTING IMPROVEMENTS AS NECESSARY TO CONSTRUCT NEW IMPROVEMENTS SHOWN ON THESE PLANS UNLESS OTHERWISE NOTED ON THE PLAN. THE REMOVAL OF IMPROVEMENTS MUST BE COORDINATED WITH ALL PLAN SHEETS. CONTRACTOR MUST ALSO COORDINATE REMOVAL OF IMPROVEMENTS WITH UTILITY AGENCIES. PROTECT ALL IMPROVEMENTS NOT DESIGNATED FOR REMOVAL. SEE NOTE 1
- LIMITS OF VEGETATION REMOVAL. 4" MINIMUM DEPTH
- LIMITS OF REMOVAL OF SYNTHETIC TURF SURFACE MATERIAL BY OWNER; PROTECT EXISTING BASE AND SHOCK PAD
- LIMITS OF CONCRETE IMPROVEMENT REMOVAL
- LIMITS OF TRACK SURFACING REMOVAL BY OWNER
- LIMITS OF ASPHALTIC CONCRETE REMOVAL
- LIMITS OF SYNTHETIC TURF, SHOCK PAD AND BASE REMOVAL BY CONTRACTOR
- LIMITS OF SAND REMOVAL
- LIMITS OF TRACK SURFACING AND UNDERLYING CONCRETE REMOVAL (2)
- LIMITS OF DEMOLITION PER DSA APPLICATION NO. 02-121624
- (AA) REMOVE PERFORATED PIPE, DRAIN ROCK, FABRIC, ETC., SEE DETAIL [I/CX1.7] FOR EXISTING CONDITIONS
- (PB) PROTECT BASKETBALL EQUIPMENT TO REMAIN
- (PC) PROTECT CONCRETE TO REMAIN
- (PF) PROTECT CHAIN LINK FENCE TO REMAIN
- (PP) REMOVE EXISTING STRIPING AND PROTECT EXISTING PLAYCOURT ASPHALT TO REMAIN
- (PT) PROTECT TREE TO REMAIN
- (PU) PROTECT UTILITY TO REMAIN
- (PV) PROTECT VOLLEYBALL NET POST SLEEVE
- (RA) REMOVE AND LAWFULLY DISPOSE OF ASPHALT CONCRETE PAVEMENT STRUCTURAL SECTION
- (RB) REMOVE AND LAWFULLY DISPOSE OF BUILDING, FOUNDATION, UTILITIES, ETC.
- (RC) REMOVE AND LAWFULLY DISPOSE OF CONCRETE IMPROVEMENTS
- (RD) REMOVE AND LAWFULLY DISPOSE OF BLEACHERS
- (RE) REMOVE BASKETBALL EQUIPMENT AND RETURN TO OWNER
- (RF) REMOVE AND LAWFULLY DISPOSE OF CHAIN LINK FENCE FABRIC, POSTS AND FOOTINGS
- (RG) REMOVE AND RELOCATE BASKETBALL EQUIPMENT. SEE SITE PLAN SHEET C3.2 FOR NEW LOCATION
- (RH) REMOVE AND LAWFULLY DISPOSE OF HANDRAILS AND FOOTINGS
- (RI) DISCONNECT THE EXISTING BOOSTER PUMP FROM THE EXISTING IRRIGATION SERVICE LINE AND THE ELECTRICAL POWER. REMOVE PUMP, PIPE AND VALVES AS NEEDED FOR NEW BOOSTER PUMP PACKAGE. SEE SHEET IR1.1.
- (RJ) REMOVE AND SALVAGE IRON GATE, RETURN TO OWNER
- (RK) REMOVE AND LAWFULLY DISPOSE OF BLOCK WALL
- (RL) REMOVE AND RETURN SCOREBOARD TO OWNER (2)
- (RM) REMOVE AND RELOCATE MONUMENT SIGN. SEE ARCHITECTURAL SITE PLAN FOR NEW LOCATION
- (RO) REMOVE AND RETURN SHIPPING CONTAINER TO OWNER
- (RP) REMOVE AND RELOCATE FLAG POLE. SEE ARCHITECTURAL SITE PLAN FOR LOCATION
- (RQ) REMOVE AND RETURN FLAG POLE TO OWNER
- (RR) REMOVE AND RELOCATE (SEE IRRIGATION PLAN - IR1.1 TO IR1.5 FOR NEW LOCATION)
- (RS) REMOVE EXISTING SYN TURF ROTOR AND SWING JOINT. CAP TEE. REPLACE ALL VAULT BOX LIDS
- (RT) REMOVE AND LAWFULLY DISPOSE OF TREE AND ROOTS
- (RU) REMOVE AND LAWFULLY DISPOSE OF UTILITY
- (RV) REMOVE AND RELOCATE DEDICATION MONUMENT. SEE SITE PLAN FOR LOCATION
- (RW) REMOVE AND LAWFULLY DISPOSE OF WOOD BARRIER
- (RX) REMOVE GOAL POST AND FOOTINGS
- (RY) REMOVE AND LAWFULLY DISPOSE OF UNDERLYING CONCRETE IMPROVEMENTS
- (RZ) TRACK SURFACING REMOVAL BY OWNER
- (SB) SALVAGE BASKETBALL POLE AND BACKBOARD FOR REINSTALLATION
- (SC) SAWCUT
- CAP END OF UTILITY LINE
- REMOVE TREE
- LIMIT OF CHAIN LINK FENCE REMOVAL
- LIMIT OF CONCRETE BLOCK WALL REMOVAL
- LIMIT OF SEWER MAIN LINE REMOVAL
- LIMIT OF STORM DRAIN LINE REMOVAL
- LIMIT OF STRIPING REMOVAL
- LIMIT OF IRRIGATION LINE REMOVAL

GENERAL DEMOLITION NOTES:

1. THE "LIMIT OF DEMOLITION" SHOWN IS APPROXIMATE AND IS GENERALLY CONSIDERED TO BE THE MINIMUM REMOVAL REQUIREMENTS. CONTRACTOR MUST COORDINATE AS NOTED IN THE LEGEND.
2. CONTRACTOR SHALL LEGALLY DISPOSE OF ALL DEMOLISHED MATERIALS OFF SITE.
3. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITY IMPROVEMENTS NOT SPECIFICALLY DESIGNATED FOR REMOVAL.
4. THE ON-SITE UNDERGROUND UTILITIES SHOWN ON THIS SHEET ARE AT APPROXIMATE LOCATIONS. THE EXTENT, LOCATIONS AND SIZES ARE UNKNOWN. THE CONTRACTOR SHALL POTHOLE TO LOCATE AND VERIFY THE UNDERGROUND UTILITY LINES PRIOR TO REMOVAL.
5. CONTRACTOR TO PROTECT AND PRESERVE IN PLACE ANY FOUND SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE RESET BY A CALIFORNIA LICENSED SURVEYOR AND THE APPROPRIATE PAPERWORK FILED WITH THE CITY OR COUNTY, AT CONTRACTOR'S EXPENSE.
6. ALL HAZARDOUS MATERIALS ENCOUNTERED DURING SITE DEMOLITION SHALL BE REMEDIATED AND DISPOSED OF PER STATE AND EPA REQUIREMENTS.
7. CONTRACTOR SHALL CONTACT AND COORDINATE WITH ALL UTILITY AGENCIES PRIOR TO THE START OF ANY DEMOLITION OR CONSTRUCTION.
8. ANY EXISTING UTILITIES AND/OR IMPROVEMENTS WHICH ARE TO REMAIN, THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE OWNER AND AGENCY HAVING AUTHORITY, AT THE CONTRACTOR'S SOLE EXPENSE.
9. REMOVE EXISTING IMPROVEMENTS AS NECESSARY TO CONSTRUCT NEW IMPROVEMENTS SHOWN ON THESE PLANS.
   a) FOR CONCRETE REMOVAL, REMOVE TO THE NEXT NEAREST TOOLED JOINT OR EXPANSION JOINT OF IMPROVEMENTS DESIGNATED TO REMAIN.
   b) FOR ASPHALTIC PAVEMENT REMOVAL, SAWCUT TO A STRAIGHT, CLEAN EDGE AT LOCATIONS INDICATED ON THE PLANS.
10. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, IRRIGATION, AND ARCHITECTURAL PLANS FOR ADDITIONAL DEMOLITION AND COORDINATION.
11. COMPLIANCE WITH FIRE SAFETY DURING CONSTRUCTION WILL BE ENFORCED.
12. THE REMOVAL OF THE EXISTING TRACK SURFACING AND THE EXISTING SYNTHETIC TURF CARPET SHALL BE PERFORMED BY THE OWNER'S CMAS CONTRACTORS. THE GENERAL CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE OWNER'S CMAS CONTRACTORS.
13. SOCCER GOAL ANCHORS EXACT LOCATION ARE UNKNOWN BUT SHALL BE PROTECTED IN PLACE. ANY DAMAGE DURING FIELD DEMOLITION SHALL BE REPAIRED TO PROVIDE A FULLY FUNCTIONAL ANCHOR SYSTEM.



KEYMAP

Know what's below. Call before you dig.

PBK
ARCHITECT PBK Architects, Inc.
FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com
Blair, Church & Flynn CONSULTING ENGINEERS

MADERA HIGH SCHOOL STADIUM

200 SOUTH L STREET
MADERA, CA 93637

PHASE 2 CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER — JEFFREY D. BRIANS — No. 36,187 — CIVIL — STATE OF CALIFORNIA

5/16/25
Date Signed:

PROJECT NUMBER
20-51

DATE
5/16/2025

DSA APPLICATION NO.
02-122784

FILE NO.
20-H3

PTN NO.
65243-154

DRAWN BY
DG

REVISIONS

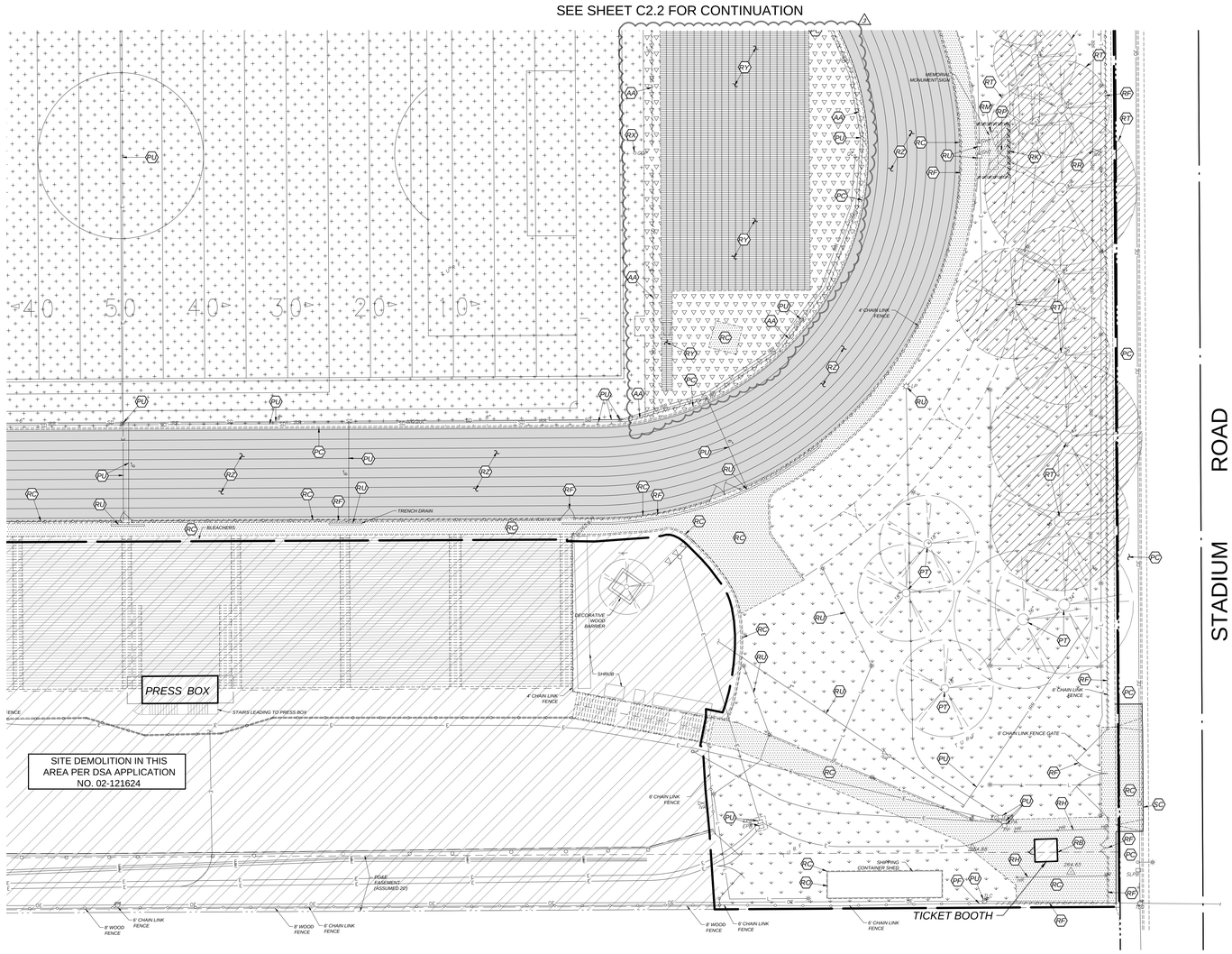
#	DESCRIPTION	DATE
1	ADDENDUM 1	8/12/25
2	ADDENDUM 3	8/27/25

CONSTRUCTION DOCUMENTS

DEMOLITION PLAN

C2.3

Drawing: P:\22\22201-00\03\Backgrounds\Drawings\222252_00103.dwg, C2.1 — Plot By: bgalvan Aug 27, 2025 1:48pm

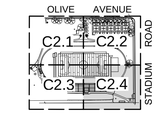


DEMOLITION LEGEND:

- *APPROXIMATE LIMITS OF DEMOLITION. REMOVE EXISTING IMPROVEMENTS AS NECESSARY TO CONSTRUCT NEW IMPROVEMENTS SHOWN ON THESE PLANS UNLESS OTHERWISE NOTED ON THE PLAN. THE REMOVAL OF IMPROVEMENTS MUST BE COORDINATED WITH ALL PLAN SHEETS. CONTRACTOR MUST ALSO COORDINATE REMOVAL OF IMPROVEMENTS WITH UTILITY AGENCIES. PROTECT ALL IMPROVEMENTS NOT DESIGNATED FOR REMOVAL. SEE NOTE 1*
- *LIMITS OF VEGETATION REMOVAL. 4" MINIMUM DEPTH*
- *LIMITS OF REMOVAL OF SYNTHETIC TURF SURFACE MATERIAL BY OWNER; PROTECT EXISTING BASE AND SHOCK PAD*
- *LIMITS OF CONCRETE IMPROVEMENT REMOVAL*
- *LIMITS OF TRACK SURFACING REMOVAL BY OWNER*
- *LIMITS OF ASPHALTIC CONCRETE REMOVAL*
- *LIMITS OF SYNTHETIC TURF, SHOCK PAD AND BASE REMOVAL BY CONTRACTOR*
- *LIMITS OF SAND REMOVAL*
- *LIMITS OF TRACK SURFACING AND UNDERLYING CONCRETE REMOVAL* (A)
- *LIMITS OF DEMOLITION PER DSA APPLICATION NO. 02-121624*
- (AA) *REMOVE PERFORATED PIPE, DRAIN ROCK, FABRIC, ETC., SEE DETAIL [I/CX1.7] FOR EXISTING CONDITIONS*
- (PB) *PROTECT BASKETBALL EQUIPMENT TO REMAIN*
- (PC) *PROTECT CONCRETE TO REMAIN*
- (PF) *PROTECT CHAIN LINK FENCE TO REMAIN*
- (PP) *REMOVE EXISTING STRIPING AND PROTECT EXISTING PLAYCOURT ASPHALT TO REMAIN*
- (PT) *PROTECT TREE TO REMAIN*
- (PU) *PROTECT UTILITY TO REMAIN*
- (PV) *PROTECT VOLLEYBALL NET POST SLEEVE*
- (RA) *REMOVE AND LAWFULLY DISPOSE OF ASPHALT CONCRETE PAVEMENT STRUCTURAL SECTION*
- (RB) *REMOVE AND LAWFULLY DISPOSE OF BUILDING, FOUNDATION, UTILITIES, ETC.*
- (RC) *REMOVE AND LAWFULLY DISPOSE OF CONCRETE IMPROVEMENTS*
- (RD) *REMOVE AND LAWFULLY DISPOSE OF BLEACHERS*
- (RE) *REMOVE BASKETBALL EQUIPMENT AND RETURN TO OWNER*
- (RF) *REMOVE AND LAWFULLY DISPOSE OF CHAIN LINK FENCE FABRIC, POSTS AND FOOTINGS*
- (RG) *REMOVE AND RELOCATE BASKETBALL EQUIPMENT. SEE SITE PLAN SHEET C3.2 FOR NEW LOCATION*
- (RH) *REMOVE AND LAWFULLY DISPOSE OF HANDRAILS AND FOOTINGS*
- (RI) *DISCONNECT THE EXISTING BOOSTER PUMP FROM THE EXISTING IRRIGATION SERVICE LINE AND THE ELECTRICAL POWER. REMOVE PUMP, PIPE AND VALVES AS NEEDED FOR NEW BOOSTER PUMP PACKAGE. SEE SHEET IR1.1.*
- (RJ) *REMOVE AND SALVAGE IRON GATE, RETURN TO OWNER*
- (RK) *REMOVE AND LAWFULLY DISPOSE OF BLOCK WALK*
- (A) (RL) *REMOVE AND RETURN SCOREBOARD TO OWNER*
- (RM) *REMOVE AND RELOCATE MONUMENT SIGN. SEE ARCHITECTURAL SITE PLAN FOR NEW LOCATION*
- (RN) *REMOVE AND RETURN SHIPPING CONTAINER TO OWNER*
- (RP) *REMOVE AND RELOCATE FLAG POLE. SEE ARCHITECTURAL SITE PLAN FOR LOCATION*
- (RQ) *REMOVE AND RETURN FLAG POLE TO OWNER*
- (RR) *REMOVE AND RELOCATE (SEE IRRIGATION PLAN - IR1.1 TO IR1.5 FOR NEW LOCATION)*
- (RS) *REMOVE EXISTING SYN TURF ROTOR AND SWING JOINT. CAP TEE. REPLACE ALL VAULT BOX LIDS*
- (RT) *REMOVE AND LAWFULLY DISPOSE OF TREE AND ROOTS*
- (RU) *REMOVE AND LAWFULLY DISPOSE OF UTILITY*
- (RV) *REMOVE AND RELOCATE DEDICATION MONUMENT. SEE SITE PLAN FOR LOCATION*
- (RW) *REMOVE AND LAWFULLY DISPOSE OF WOOD BARRIER*
- (RX) *REMOVE GOAL POST AND FOOTINGS*
- (RY) *REMOVE AND LAWFULLY DISPOSE OF UNDERLYING CONCRETE IMPROVEMENTS*
- (RZ) *TRACK SURFACING REMOVAL BY OWNER*
- (SB) *SALVAGE BASKETBALL POLE AND BACKBOARD FOR REINSTALLATION*
- (SC) *SAWCUT*
- *CAP END OF UTILITY LINE*
- *REMOVE TREE*
- *LIMIT OF CHAIN LINK FENCE REMOVAL*
- *LIMIT OF CONCRETE BLOCK WALL REMOVAL*
- *LIMIT OF SEWER MAIN LINE REMOVAL*
- *LIMIT OF STORM DRAIN LINE REMOVAL*
- *LIMIT OF STRIPING REMOVAL*
- *LIMIT OF IRRIGATION LINE REMOVAL*

GENERAL DEMOLITION NOTES:

1. *THE "LIMIT OF DEMOLITION" SHOWN IS APPROXIMATE AND IS GENERALLY CONSIDERED TO BE THE MINIMUM REMOVAL REQUIREMENTS. CONTRACTOR MUST COORDINATE AS NOTED IN THE LEGEND.*
2. *CONTRACTOR SHALL LEGALLY DISPOSE OF ALL DEMOLISHED MATERIALS OFF SITE.*
3. *CONTRACTOR SHALL PROTECT ALL EXISTING UTILITY IMPROVEMENTS NOT SPECIFICALLY DESIGNATED FOR REMOVAL.*
4. *THE ON-SITE UNDERGROUND UTILITIES SHOWN ON THIS SHEET ARE AT APPROXIMATE LOCATIONS. THE EXTENT, LOCATIONS AND SIZES ARE UNKNOWN. THE CONTRACTOR SHALL POTHOLE TO LOCATE AND VERIFY THE UNDERGROUND UTILITY LINES PRIOR TO REMOVAL.*
5. *CONTRACTOR TO PROTECT AND PRESERVE IN PLACE ANY FOUND SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE RESET BY A CALIFORNIA LICENSED SURVEYOR AND THE APPROPRIATE PAPERWORK FILED WITH THE CITY OR COUNTY, AT CONTRACTOR'S EXPENSE.*
6. *ALL HAZARDOUS MATERIALS ENCOUNTERED DURING SITE DEMOLITION SHALL BE REMEDIATED AND DISPOSED OF PER STATE AND EPA REQUIREMENTS.*
7. *CONTRACTOR SHALL CONTACT AND COORDINATE WITH ALL UTILITY AGENCIES PRIOR TO THE START OF ANY DEMOLITION OR CONSTRUCTION.*
8. *ANY EXISTING UTILITIES AND/OR IMPROVEMENTS WHICH ARE TO REMAIN, THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE OWNER AND AGENCY HAVING AUTHORITY, AT THE CONTRACTOR'S SOLE EXPENSE.*
9. *REMOVE EXISTING IMPROVEMENTS AS NECESSARY TO CONSTRUCT NEW IMPROVEMENTS SHOWN ON THESE PLANS.*
   a) *FOR CONCRETE REMOVAL, REMOVE TO THE NEXT NEAREST TOOLED JOINT OR EXPANSION JOINT OF IMPROVEMENTS DESIGNATED TO REMAIN.*
   b) *FOR ASPHALTIC PAVEMENT REMOVAL, SAWCUT TO A STRAIGHT, CLEAN EDGE AT LOCATIONS INDICATED ON THE PLANS.*
10. *REFER TO MECHANICAL, ELECTRICAL, PLUMBING, IRRIGATION, AND ARCHITECTURAL PLANS FOR ADDITIONAL DEMOLITION AND COORDINATION.*
11. *COMPLIANCE WITH FIRE SAFETY DURING CONSTRUCTION WILL BE ENFORCED.*
12. *THE REMOVAL OF THE EXISTING TRACK SURFACING AND THE EXISTING SYNTHETIC TURF CARPET SHALL BE PERFORMED BY THE OWNER'S CMAS CONTRACTORS. THE GENERAL CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE OWNER'S CMAS CONTRACTORS.*
13. *SOCCER GOAL ANCHORS EXACT LOCATION ARE UNKNOWN BUT SHALL BE PROTECTED IN PLACE. ANY DAMAGE DURING FIELD DEMOLITION SHALL BE REPAIRED TO PROVIDE A FULLY FUNCTIONAL ANCHOR SYSTEM.*



KEYMAP

SCALE: N 1"=20'

0 5 20 40
SCALE IN FEET

Know what's below. Call before you dig.

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

Blair, Church & Flynn
CONSULTING ENGINEERS

MADERA HIGH SCHOOL STADIUM

200 SOUTH L STREET
MADERA, CA 93637
PHASE 2 CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER — JEFFREY D. GRAHAM — No. 36,185 — CIVIL — STATE OF CALIFORNIA

5/16/25
Date Signed:

PROJECT NUMBER
20-51

DATE
5/16/2025

DSA APPLICATION NO.
02-122784

FILE NO.
20-H3

PTN NO.
65243-154

DRAWN BY
DG

REVISIONS

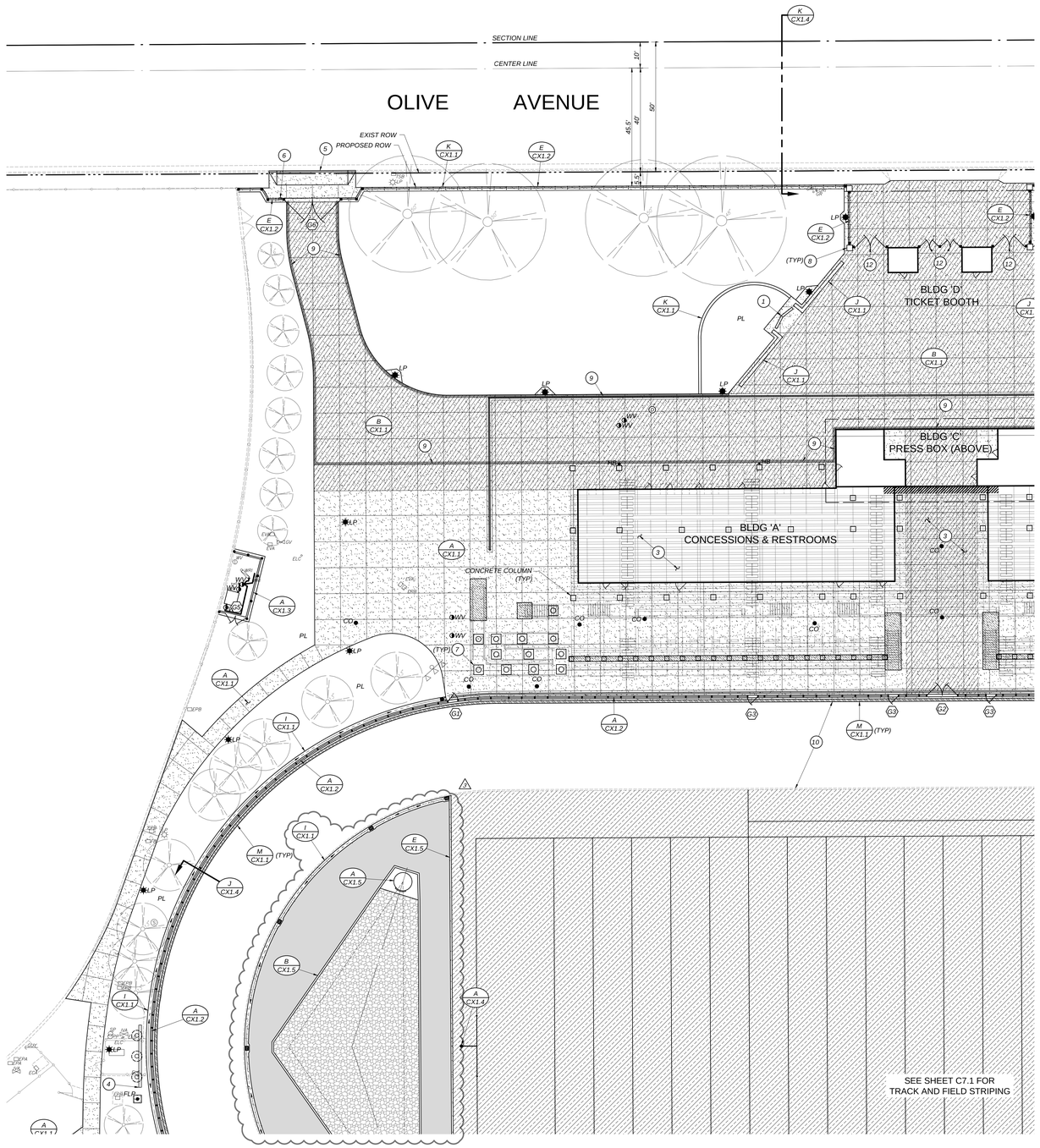
#	DESCRIPTION	DATE
A	ADDENDUM 3	8/27/25

CONSTRUCTION DOCUMENTS

DEMOLITION PLAN

C2.4

Drawing P:\20\20-051\Structural\drawings\20-051_D002.dwg, C2.4 — Plotted by dgraham Aug 27, 2025 - 1:46pm



SITE LEGEND:

- LIMITS OF CONCRETE IMPROVEMENTS
- LIMITS OF HEAVY-DUTY CONCRETE IMPROVEMENTS
- CONCRETE PER BLEACHER PLANS
- LIMITS OF STANDARD DUTY ASPHALTIC CONCRETE PAVEMENT STRUCTURAL SECTION PER DETAIL [L/CX1.1]
- LIMITS OF TRACK PAVING ASPHALTIC CONCRETE PAVEMENT STRUCTURAL SECTION PER DETAIL [M/CX1.1]
- LIMITS OF CRACK FILL, SLURRY COAT AND RE STRIPING OF EXISTING ASPHALTIC CONCRETE PER SPECIFICATIONS
- SYNTHETIC TURF SURFACING TYPE A REPLACEMENT PER DETAIL [D/CX1.5] AND [E/CX1.5]
- SYNTHETIC TURF SURFACING TYPE B PER DETAIL [G/CX1.5] AND [H/CX1.5]
- DECOMPOSED GRANITE PER DETAIL [F/CX1.5]
- LIMITS OF FIRE LANE STRIPING
- STEEL POST FENCING PER DETAIL [A/CX1.2]
- PL — PLANTER
- LP — SITE LIGHTING, SEE ELECTRICAL PLANS
- FLP — FLAG POLE, SEE ARCHITECTURAL PLANS
- (1) — RELOCATED MEMORIAL SIGN, SEE ARCHITECTURAL PLANS
- (2) — RELOCATED FLAG POLE, SEE ARCHITECTURAL PLANS
- (3) — BLEACHERS, PER BLEACHER PLANS
- (4) — SCOREBOARD PER ARCHITECTURAL AND SCOREBOARD DRAWINGS
- (5) — DRIVE APPROACH PER CITY OF MADERA STANDARD DRAWING ST-13B, SEE DETAIL [D/CX1.7]
- (6) — INSTALL KNOX BOX PER DETAIL [H/CX1.7]
- (7) — PIER PER BLEACHER PLANS
- (8) — PILASTER AND FENCE ATTACHMENT PER ARCHITECTURAL PLANS
- (9) — PAINT RED STRIPE ON CONCRETE WITH WHITE LETTERING, "NO PARKING - FIRE LANE" AT 30' INTERVALS
- (10) — TRACK SURFACING BY OWNER
- (11) — REINSTALL SALVAGED BASKETBALL BACKBOARD PER DETAIL [G/CX1.7], SEE DETAIL [A/CX1.7] FOR LOCATION
- (12) — DECORATIVE IRON GATE, SEE ARCHITECTURAL PLANS

PAVING NOTE:

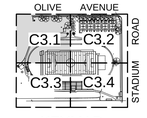
SEE 'TRACK GENERAL NOTES' ON SHEET C7.1 FOR RESPONSIBILITIES OF BOTH THE SITE CONTRACTOR AND TRACK SURFACING CONTRACTOR RELATING TO THE PAVEMENT UNDER THE TRACK.

GATE SCHEDULE:

GATE ID	REFERENCE DETAIL	GATE FUNCTION	ACCESS	FIRE ACCESS
G1	[A/CX1.2]	SINGLE LEAF STEEL MAINTENANCE GATE	LOCKABLE FORK LATCH	N/A
G2	[J/CX1.5]	DOUBLE LEAF STEEL MAINTENANCE SWING GATE	LOCKABLE LATCH	N/A
G3	[K/CX1.5]	SINGLE LEAF STEEL ACCESSIBLE GATE	ADA/CBC ACCESSIBLE PANIC HARWARE, AND RHODES STYLE LEVER HANDLE	N/A
G4	[J/CX1.5]	DOUBLE LEAF STEEL FIRE ACCESS SWING GATE	LOCKABLE LATCH	KNOX BOX MOUNTED TO GATE POST
G5	[A/CX1.3]	DOUBLE LEAF CHAIN LINK MAINTENANCE GATE	LOCKABLE FORK LATCH	N/A
G6	[E/CX1.2]	DOUBLE LEAF DECORATIVE IRON FIRE ACCESS GATE	LOCKABLE LATCH	KNOX BOX MOUNTED TO GATE POST
G7	[E/CX1.2]	DOUBLE LEAF DECORATIVE IRON ACCESSIBLE GATE	ADA/CBC ACCESSIBLE PANIC HARWARE, AND RHODES STYLE LEVER HANDLE	N/A
G8	[E/CX1.2]	DOUBLE LEAF DECORATIVE IRON MAINTENANCE GATE	LOCKABLE FORK LATCH	N/A

GENERAL SITE NOTES:

1. *ALL CONCRETE MOWSTRIPS, RAMPS AND SIDEWALKS SHALL HAVE WEAKENED PLANE JOINTS AT 10 FEET MAXIMUM ON CENTER AND EXPANSION JOINTS AT 30 FEET MAXIMUM ON CENTER PER DETAIL [A/CX1.1]*
2. *INSTALL DOWELED CONNECTION AT JOINT OF NEW CONCRETE TO EXISTING CONCRETE PER DETAIL [C/CX1.1]*
3. *NO CONCRETE MAY BE POURED UNTIL THE FORMS HAVE BEEN REVIEWED AND APPROVED BY THE PROJECT INSPECTOR.*
4. *ALL BURIED METALLIC OBJECTS SHALL HAVE A PROTECTIVE COATING OR BE WRAPPED WITH APPROVED PROTECTIVE WRAP.*
5. *ADJUST EXISTING SPRINKLER HEADS AND LATERAL LINES AS REQUIRED BY NEW IMPROVEMENTS, OR AS SHOWN ON THE IRRIGATION PLANS.*
6. *2 WORKING DAYS BEFORE COMMENCING EXCAVATION OPERATIONS WITHIN THE STREET RIGHT-OF-WAY AND/OR UTILITY EASEMENTS, ALL EXISTING UNDERGROUND FACILITIES SHALL HAVE BEEN LOCATED BY UNDERGROUND SERVICES ALERT (USA). CALL 1-800-642-2444*
7. *ANY SURVEY MONUMENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE PRESERVED OR RESET BY A PERSON LICENSED TO PRACTICE LAND SURVEYING IN THE STATE OF CALIFORNIA. REPLACEMENT TO BE AT CONTRACTOR'S SOLE EXPENSE.*
8. *REPAIR ALL DAMAGED AND/OR OFF-GRADE CONCRETE STREET IMPROVEMENTS AS DETERMINED BY THE AGENCY HAVING JURISDICTION PRIOR TO OCCUPANCY*
9. *NO PAVEMENT STRIPING IS ALLOWED PRIOR TO SEAL COAT REVIEW BY ENGINEER, AND WRITTEN APPROVAL TO PROCEED BY ENGINEER.*
10. *OBTAIN ALL REQUIRED PERMITS AND APPROVALS FROM AGENCY HAVING JURISDICTION FOR WORK WITHIN THE PUBLIC RIGHT OF WAY*
11. *THE INSTALLATION OF THE NEW TRACK SURFACING AND THE NEW SYNTHETIC TURF SYSTEM SHALL BE PERFORMED BY THE OWNER'S CMAS CONTRACTOR. PRIOR TO STARTING ANY INSTALLATION WORK, THE CMAS CONTRACTORS SHALL ASSESS THEIR SUPPORTING SUBSTRATES FOR STRUCTURAL INTEGRITY, PLANARITY, DRAINAGE, AND CONFORMANCE TO THE DESIGN INTENT, AND SHALL NOTIFY THE OWNER OF ANY NON-CONFORMING CONDITIONS SUBJECT TO POTENTIAL REPAIR/REPLACEMENT. THE GENERAL CONTRACTOR SHALL COORDINATE ANY REPAIR WORK WITH THE OWNER'S CMAS CONTRACTORS. GENERAL CONTRACTOR SHALL INCLUDE AND ALLOWANCE IN ITS BID TOTALLING $10,0000 TO COVER ANY COSTS RELATED TO CORRECTIVE SUBSTRATE WORK REQUIRED TO MEET THE SPECIFICATIONS OF THE CMAS CONTRACTOR. ANY UNUSED ALLOWANCE SHALL BE RETURNED TO THE OWNER.*



KEYMAP

SCALE: N 1"=20'

0 5 20 40
SCALE IN FEET

811 Know what's below. Call before you dig.

PBK
ARCHITECT PBK Architects, Inc.
FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

Blair, Church & Flynn
CONSULTING ENGINEERS

MADERA HIGH SCHOOL STADIUM

200 SOUTH L STREET
MADERA, CA 93637

PHASE 2 CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER
JEFFREY D. BRUNS
No. 36,180
CIVIL
5/16/25
Date Signed:

PROJECT NUMBER
20-51

DATE
5/16/2025

DSA APPLICATION NO.
02-122784

FILE NO.
20-H3

PTN NO.
65243-154

DRAWN BY
DG

REVISIONS

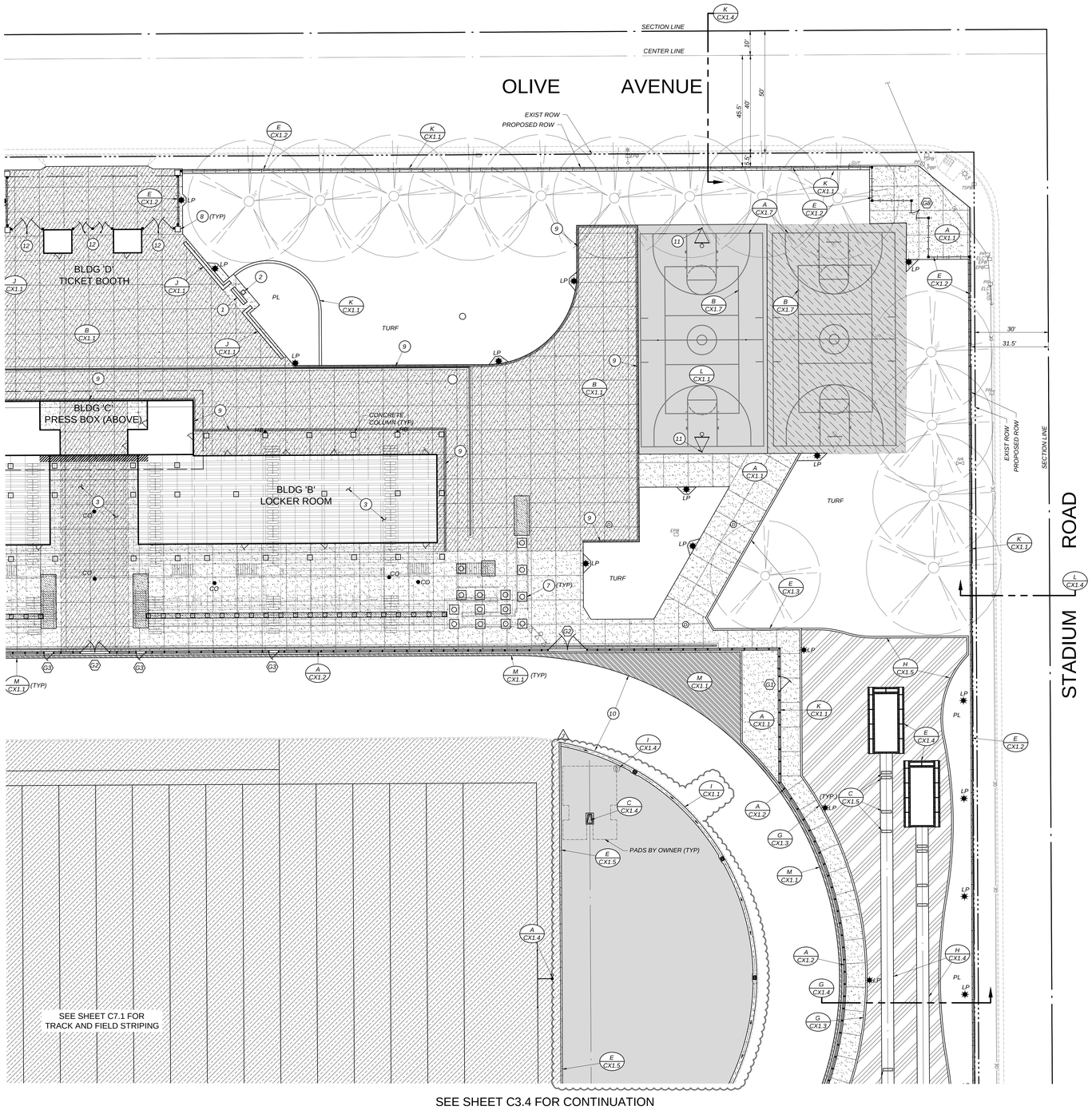
#	DESCRIPTION	DATE
3	ADDENDUM 3	8/27/25

CONSTRUCTION DOCUMENTS

SITE PLAN

C3.1

Drawing: P:\22\22-01\DGN\construction\sheets\pw222352_3002.dwg, C3.1 — Plot By: bgalvez Aug 27, 2025 1:49pm



SITE LEGEND:

- LIMITS OF CONCRETE IMPROVEMENTS
- LIMITS OF HEAVY-DUTY CONCRETE IMPROVEMENTS
- CONCRETE PER BLEACHER PLANS
- LIMITS OF STANDARD DUTY ASPHALTIC CONCRETE PAVEMENT STRUCTURAL SECTION PER DETAIL [L/CX1.1]
- LIMITS OF TRACK PAVING ASPHALTIC CONCRETE PAVEMENT STRUCTURAL SECTION PER DETAIL [M/CX1.1]
- LIMITS OF CRACK FILL, SLURRY COAT AND RE STRIPING OF EXISTING ASPHALTIC CONCRETE PER SPECIFICATIONS
- SYNTHETIC TURF SURFACING TYPE A REPLACEMENT PER DETAIL [D/CX1.5] AND [E/CX1.5]
- SYNTHETIC TURF SURFACING TYPE B PER DETAIL [G/CX1.5] AND [H/CX1.5]
- DECOMPOSED GRANITE PER DETAIL [F/CX1.5]
- LIMITS OF FIRE LANE STRIPING
- STEEL POST FENCING PER DETAIL [A/CX1.2]
- PL — PLANTER
- LP — SITE LIGHTING, SEE ELECTRICAL PLANS
- FLP — FLAG POLE, SEE ARCHITECTURAL PLANS
- (1) — RELOCATED MEMORIAL SIGN, SEE ARCHITECTURAL PLANS
- (2) — RELOCATED FLAG POLE, SEE ARCHITECTURAL PLANS
- (3) — BLEACHERS, PER BLEACHER PLANS
- (4) — SCOREBOARD PER ARCHITECTURAL AND SCOREBOARD DRAWINGS
- (5) — DRIVE APPROACH PER CITY OF MADERA STANDARD DRAWING ST-13B, SEE DETAIL [D/CX1.7]
- (6) — INSTALL KNOX BOX PER DETAIL [H/CX1.7]
- (7) — PIER PER BLEACHER PLANS
- (8) — PILASTER AND FENCE ATTACHMENT PER ARCHITECTURAL PLANS
- (9) — PAINT RED STRIPE ON CONCRETE WITH WHITE LETTERING, "NO PARKING - FIRE LANE" AT 30' INTERVALS
- (10) — TRACK SURFACING BY OWNER
- (11) — REINSTALL SALVAGED BASKETBALL BACKBOARD PER DETAIL [G/CX1.7], SEE DETAIL [A/CX1.7] FOR LOCATION
- (12) — DECORATIVE IRON GATE, SEE ARCHITECTURAL PLANS

PAVING NOTE:

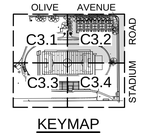
SEE 'TRACK GENERAL NOTES' ON SHEET C7.1 FOR RESPONSIBILITIES OF BOTH THE SITE CONTRACTOR AND TRACK SURFACING CONTRACTOR RELATING TO THE PAVEMENT UNDER THE TRACK.

GATE SCHEDULE:

GATE ID	REFERENCE DETAIL	GATE FUNCTION	ACCESS	FIRE ACCESS
G1	[A/CX1.2]	SINGLE LEAF STEEL MAINTENANCE GATE	LOCKABLE FORK LATCH	N/A
G2	[J/CX1.5]	DOUBLE LEAF STEEL MAINTENANCE SWING GATE	LOCKABLE LATCH	N/A
G3	[K/CX1.5]	SINGLE LEAF STEEL ACCESSIBLE GATE	ADA/CBC ACCESSIBLE PANIC HARWARE, AND RHODES STYLE LEVER HANDLE	N/A
G4	[J/CX1.5]	DOUBLE LEAF STEEL FIRE ACCESS SWING GATE	LOCKABLE LATCH	KNOX BOX MOUNTED TO GATE POST
G5	[A/CX1.3]	DOUBLE LEAF CHAIN LINK MAINTENANCE GATE	LOCKABLE FORK LATCH	N/A
G6	[E/CX1.2]	DOUBLE LEAF DECORATIVE IRON FIRE ACCESS GATE	LOCKABLE LATCH	KNOX BOX MOUNTED TO GATE POST
G7	[E/CX1.2]	SINGLE LEAF DECORATIVE IRON ACCESSIBLE GATE	ADA/CBC ACCESSIBLE PANIC HARWARE, AND RHODES STYLE LEVER HANDLE	N/A
G8	[E/CX1.2]	DOUBLE LEAF DECORATIVE IRON MAINTENANCE GATE	LOCKABLE FORK LATCH	N/A

GENERAL SITE NOTES:

1. *ALL CONCRETE MOWSTRIPS, RAMPS AND SIDEWALKS SHALL HAVE WEAKENED PLANE JOINTS AT 10 FEET MAXIMUM ON CENTER AND EXPANSION JOINTS AT 30 FEET MAXIMUM ON CENTER PER DETAIL [A/CX1.1]*
2. *INSTALL DOWELED CONNECTION AT JOINT OF NEW CONCRETE TO EXISTING CONCRETE PER DETAIL [C/CX1.1]*
3. *NO CONCRETE MAY BE POURED UNTIL THE FORMS HAVE BEEN REVIEWED AND APPROVED BY THE PROJECT INSPECTOR.*
4. *ALL BURIED METALLIC OBJECTS SHALL HAVE A PROTECTIVE COATING OR BE WRAPPED WITH APPROVED PROTECTIVE WRAP.*
5. *ADJUST EXISTING SPRINKLER HEADS AND LATERAL LINES AS REQUIRED BY NEW IMPROVEMENTS, OR AS SHOWN ON THE IRRIGATION PLANS.*
6. *2 WORKING DAYS BEFORE COMMENCING EXCAVATION OPERATIONS WITHIN THE STREET RIGHT-OF-WAY AND/OR UTILITY EASEMENTS, ALL EXISTING UNDERGROUND FACILITIES SHALL HAVE BEEN LOCATED BY UNDERGROUND SERVICES ALERT (USA). CALL 1-800-642-2444*
7. *ANY SURVEY MONUMENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE PRESERVED OR RESET BY A PERSON LICENSED TO PRACTICE LAND SURVEYING IN THE STATE OF CALIFORNIA. REPLACEMENT TO BE AT CONTRACTOR'S SOLE EXPENSE.*
8. *REPAIR ALL DAMAGED AND/OR OFF-GRADE CONCRETE STREET IMPROVEMENTS AS DETERMINED BY THE AGENCY HAVING JURISDICTION PRIOR TO OCCUPANCY*
9. *NO PAVEMENT STRIPING IS ALLOWED PRIOR TO SEAL COAT REVIEW BY ENGINEER, AND WRITTEN APPROVAL TO PROCEED BY ENGINEER.*
10. *OBTAIN ALL REQUIRED PERMITS AND APPROVALS FROM AGENCY HAVING JURISDICTION FOR WORK WITHIN THE PUBLIC RIGHT OF WAY*
11. *THE INSTALLATION OF THE NEW TRACK SURFACING AND THE NEW SYNTHETIC TURF SYSTEM SHALL BE PERFORMED BY THE OWNER'S CMAS CONTRACTOR. PRIOR TO STARTING ANY INSTALLATION WORK, THE CMAS CONTRACTORS SHALL ASSESS THEIR SUPPORTING SUBSTRATES FOR STRUCTURAL INTEGRITY, PLANARITY, DRAINAGE, AND CONFORMANCE TO THE DESIGN INTENT, AND SHALL NOTIFY THE OWNER OF ANY NON-CONFORMING CONDITIONS SUBJECT TO POTENTIAL REPAIR/REPLACEMENT. THE GENERAL CONTRACTOR SHALL COORDINATE ANY REPAIR WORK WITH THE OWNER'S CMAS CONTRACTORS. GENERAL CONTRACTOR SHALL INCLUDE AND ALLOWANCE IN ITS BID TOTALLING $10,0000 TO COVER ANY COSTS RELATED TO CORRECTIVE SUBSTRATE WORK REQUIRED TO MEET THE SPECIFICATIONS OF THE CMAS CONTRACTOR. ANY UNUSED ALLOWANCE SHALL BE RETURNED TO THE OWNER.*



KEYMAP

SCALE: (N) 1"=20'

0 5 20 40
SCALE IN FEET

Know what's below.
Call before you dig.

PBK
ARCHITECT PBK Architects, Inc.
FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

Blair, Church & Flynn
CONSULTING ENGINEERS

MADERA HIGH SCHOOL STADIUM

200 SOUTH L STREET
MADERA, CA 93637
PHASE 2 CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER
JEFFREY D. BRYANT
No. 36,180
CIVIL
STATE OF CALIFORNIA

5/16/25
Date Signed:

PROJECT NUMBER	20-51
DATE	5/16/2025
DSA APPLICATION NO.	02-122784
FILE NO.	20-H3
PTN NO.	65243-154
DRAWN BY	DG

REVISIONS

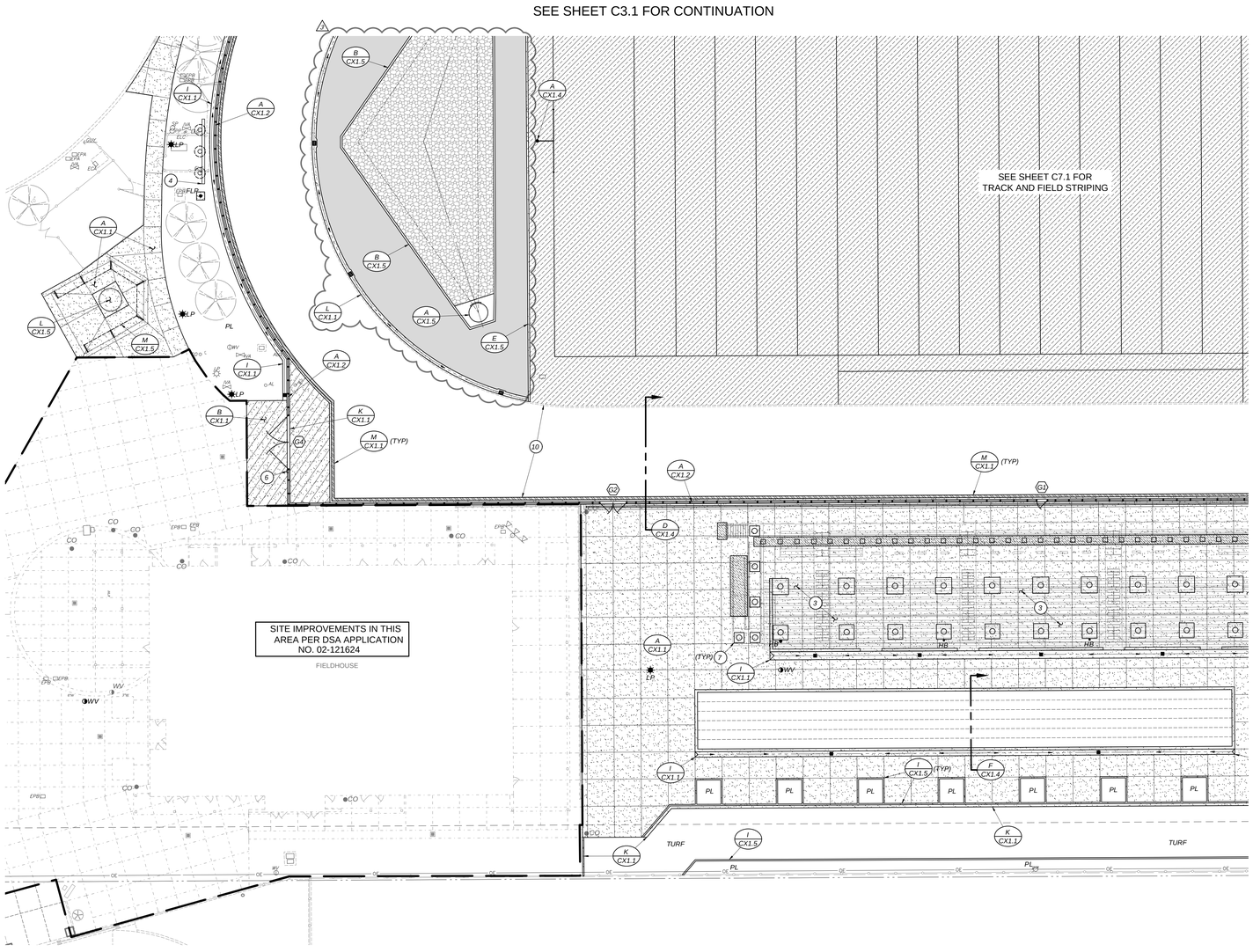
#	DESCRIPTION	DATE
1	ADDENDUM 3	8/27/25

CONSTRUCTION DOCUMENTS

SITE PLAN

C3.2

Drawing: P:\22\22-020528\project\drawings\222452_2025.dwg, C3.2 — Plot By: bgarcia Aug 27, 2025 1:47pm



SEE SHEET C3.1 FOR CONTINUATION

SITE LEGEND:

- LIMITS OF CONCRETE IMPROVEMENTS
- LIMITS OF HEAVY-DUTY CONCRETE IMPROVEMENTS
- CONCRETE PER BLEACHER PLANS
- LIMITS OF STANDARD DUTY ASPHALTIC CONCRETE PAVEMENT STRUCTURAL SECTION PER DETAIL [L/CX1.1]
- LIMITS OF TRACK PAVING ASPHALTIC CONCRETE PAVEMENT STRUCTURAL SECTION PER DETAIL [M/CX1.1]
- LIMITS OF CRACK FILL, SLURRY COAT AND RE STRIPING OF EXISTING ASPHALTIC CONCRETE PER SPECIFICATIONS
- SYNTHETIC TURF SURFACING TYPE A REPLACEMENT PER DETAIL [D/CX1.5] AND [E/CX1.5]
- SYNTHETIC TURF SURFACING TYPE B PER DETAIL [G/CX1.5] AND [H/CX1.5]
- DECOMPOSED GRANITE PER DETAIL [F/CX1.5]
- LIMITS OF FIRE LANE STRIPING
- STEEL POST FENCING PER DETAIL [A/CX1.2]
- PL — PLANTER
- LP — SITE LIGHTING, SEE ELECTRICAL PLANS
- FLP — FLAG POLE, SEE ARCHITECTURAL PLANS
- (1) RELOCATED MEMORIAL SIGN, SEE ARCHITECTURAL PLANS
- (2) RELOCATED FLAG POLE, SEE ARCHITECTURAL PLANS
- (3) BLEACHERS, PER BLEACHER PLANS
- (4) SCOREBOARD PER ARCHITECTURAL AND SCOREBOARD DRAWINGS
- (5) DRIVE APPROACH PER CITY OF MADERA STANDARD DRAWING ST-13B, SEE DETAIL [D/CX1.7]
- (6) INSTALL KNOX BOX PER DETAIL [H/CX1.7]
- (7) PIER PER BLEACHER PLANS
- (8) PILASTER AND FENCE ATTACHMENT PER ARCHITECTURAL PLANS
- (9) PAINT RED STRIPE ON CONCRETE WITH WHITE LETTERING, "NO PARKING - FIRE LANE" AT 30' INTERVALS
- (10) TRACK SURFACING BY OWNER
- (11) REINSTALL SALVAGED BASKETBALL BACKBOARD PER DETAIL [G/CX1.7], SEE DETAIL [A/CX1.7] FOR LOCATION
- (12) DECORATIVE IRON GATE, SEE ARCHITECTURAL PLANS

GENERAL SITE NOTES:

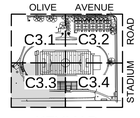
1. ALL CONCRETE MOWSTRIPS, RAMPS AND SIDEWALKS SHALL HAVE WEAKENED PLANE JOINTS AT 10 FEET MAXIMUM ON CENTER AND EXPANSION JOINTS AT 30 FEET MAXIMUM ON CENTER PER DETAIL [A/CX1.1]
2. INSTALL DOWELED CONNECTION AT JOINT OF NEW CONCRETE TO EXISTING CONCRETE PER DETAIL [C/CX1.1]
3. NO CONCRETE MAY BE POURED UNTIL THE FORMS HAVE BEEN REVIEWED AND APPROVED BY THE PROJECT INSPECTOR.
4. ALL BURIED METALLIC OBJECTS SHALL HAVE A PROTECTIVE COATING OR BE WRAPPED WITH APPROVED PROTECTIVE WRAP.
5. ADJUST EXISTING SPRINKLER HEADS AND LATERAL LINES AS REQUIRED BY NEW IMPROVEMENTS, OR AS SHOWN ON THE IRRIGATION PLANS.
6. 2 WORKING DAYS BEFORE COMMENCING EXCAVATION OPERATIONS WITHIN THE STREET RIGHT-OF-WAY AND/OR UTILITY EASEMENTS, ALL EXISTING UNDERGROUND FACILITIES SHALL HAVE BEEN LOCATED BY UNDERGROUND SERVICES ALERT (USA). CALL 1-800-642-2444
7. ANY SURVEY MONUMENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE PRESERVED OR RESET BY A PERSON LICENSED TO PRACTICE LAND SURVEYING IN THE STATE OF CALIFORNIA. REPLACEMENT TO BE AT CONTRACTOR'S SOLE EXPENSE.
8. REPAIR ALL DAMAGED AND/OR OFF-GRADE CONCRETE STREET IMPROVEMENTS AS DETERMINED BY THE AGENCY HAVING JURISDICTION PRIOR TO OCCUPANCY
9. NO PAVEMENT STRIPING IS ALLOWED PRIOR TO SEAL COAT REVIEW BY ENGINEER, AND WRITTEN APPROVAL TO PROCEED BY ENGINEER.
10. OBTAIN ALL REQUIRED PERMITS AND APPROVALS FROM AGENCY HAVING JURISDICTION FOR WORK WITHIN THE PUBLIC RIGHT OF WAY
11. THE INSTALLATION OF THE NEW TRACK SURFACING AND THE NEW SYNTHETIC TURF SYSTEM SHALL BE PERFORMED BY THE OWNER'S CMAS CONTRACTOR. PRIOR TO STARTING ANY INSTALLATION WORK, THE CMAS CONTRACTORS SHALL ASSESS THEIR SUPPORTING SUBSTRATES FOR STRUCTURAL INTEGRITY, PLANARITY, DRAINAGE, AND CONFORMANCE TO THE DESIGN INTENT, AND SHALL NOTIFY THE OWNER OF ANY NON-CONFORMING CONDITIONS SUBJECT TO POTENTIAL REPAIR/REPLACEMENT. THE GENERAL CONTRACTOR SHALL COORDINATE ANY REPAIR WORK WITH THE OWNER'S CMAS CONTRACTORS. GENERAL CONTRACTOR SHALL INCLUDE AND ALLOWANCE IN ITS BID TOTALLING $10,0000 TO COVER ANY COSTS RELATED TO CORRECTIVE SUBSTRATE WORK REQUIRED TO MEET THE SPECIFICATIONS OF THE CMAS CONTRACTOR. ANY UNUSED ALLOWANCE SHALL BE RETURNED TO THE OWNER.

PAVING NOTE:

SEE 'TRACK GENERAL NOTES' ON SHEET C7.1 FOR RESPONSIBILITIES OF BOTH THE SITE CONTRACTOR AND TRACK SURFACING CONTRACTOR RELATING TO THE PAVEMENT UNDER THE TRACK.

GATE SCHEDULE:

GATE ID	REFERENCE DETAIL	GATE FUNCTION	ACCESS	FIRE ACCESS
G1	[A/CX1.2]	SINGLE LEAF STEEL MAINTENANCE GATE	LOCKABLE FORK LATCH	N/A
G2	[J/CX1.5]	DOUBLE LEAF STEEL MAINTENANCE SWING GATE	LOCKABLE LATCH	N/A
G3	[K/CX1.5]	SINGLE LEAF STEEL ACCESSIBLE GATE	ADA/CBC ACCESSIBLE PANIC HARWARE, AND RHODES STYLE LEVER HANDLE	N/A
G4	[J/CX1.5]	DOUBLE LEAF STEEL FIRE ACCESS SWING GATE	LOCKABLE LATCH	KNOX BOX MOUNTED TO GATE POST
G5	[A/CX1.3]	DOUBLE LEAF CHAIN LINK MAINTENANCE GATE	LOCKABLE FORK LATCH	N/A
G6	[E/CX1.2]	DOUBLE LEAF DECORATIVE IRON FIRE ACCESS GATE	LOCKABLE LATCH	KNOX BOX MOUNTED TO GATE POST
G7	[E/CX1.2]	DOUBLE LEAF DECORATIVE IRON ACCESSIBLE GATE	ADA/CBC ACCESSIBLE PANIC HARWARE, AND RHODES STYLE LEVER HANDLE	N/A
G8	[E/CX1.2]	DOUBLE LEAF DECORATIVE IRON MAINTENANCE GATE	LOCKABLE FORK LATCH	N/A



KEYMAP

SCALE: N 1"=20'

0 5 20 40
SCALE IN FEET

811 Know what's below. Call before you dig.

PBK
ARCHITECT PBK Architects, Inc.
FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

Blair, Church & Flynn
CONSULTING ENGINEERS

MADERA HIGH SCHOOL STADIUM

200 SOUTH L STREET
MADERA, CA 93637
PHASE 2 CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER — JEFFREY D. BRANNER — No. 36,182 — CIVIL — STATE OF CALIFORNIA

5/16/25
Date Signed:

PROJECT NUMBER	20-51
DATE	5/16/2025
DSA APPLICATION NO.	02-122784
FILE NO.	20-H3
PTN NO.	65243-154
DRAWN BY	DG

REVISIONS

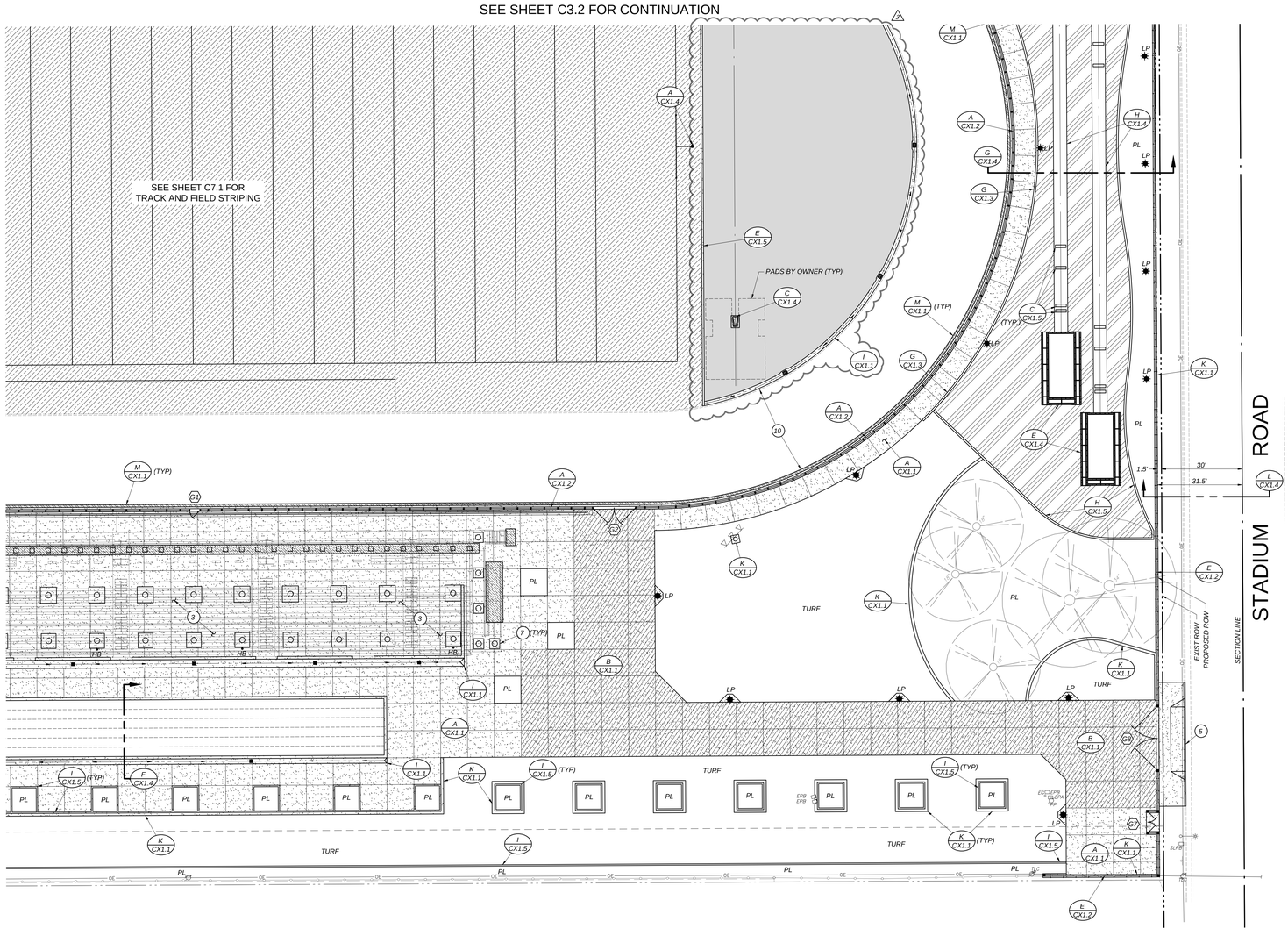
#	DESCRIPTION	DATE
1	ADDENDUM 1	8/12/25
2	ADDENDUM 3	8/27/25

CONSTRUCTION DOCUMENTS

SITE PLAN

C3.3

Drawing: P:\22\22\20-51\05dwg\production\dwg\22220_SDP.dwg, C3.3 — Paul Osborne Aug 27, 2025 - 2:40pm



SITE LEGEND:

- LIMITS OF CONCRETE IMPROVEMENTS
- LIMITS OF HEAVY-DUTY CONCRETE IMPROVEMENTS
- CONCRETE PER BLEACHER PLANS
- LIMITS OF STANDARD DUTY ASPHALTIC CONCRETE PAVEMENT STRUCTURAL SECTION PER DETAIL [L/CX1.1]
- LIMITS OF TRACK PAVING ASPHALTIC CONCRETE PAVEMENT STRUCTURAL SECTION PER DETAIL [M/CX1.1]
- LIMITS OF CRACK FILL, SLURRY COAT AND RE STRIPING OF EXISTING ASPHALTIC CONCRETE PER SPECIFICATIONS
- SYNTHETIC TURF SURFACING TYPE A REPLACEMENT PER DETAIL [D/CX1.5] AND [E/CX1.5]
- SYNTHETIC TURF SURFACING TYPE B PER DETAIL [G/CX1.5] AND [H/CX1.5]
- DECOMPOSED GRANITE PER DETAIL [F/CX1.5]
- LIMITS OF FIRE LANE STRIPING
- STEEL POST FENCING PER DETAIL [A/CX1.2]
- PL — PLANTER
- LP — SITE LIGHTING, SEE ELECTRICAL PLANS
- FLP — FLAG POLE, SEE ARCHITECTURAL PLANS
- (1) RELOCATED MEMORIAL SIGN, SEE ARCHITECTURAL PLANS
- (2) RELOCATED FLAG POLE, SEE ARCHITECTURAL PLANS
- (3) BLEACHERS, PER BLEACHER PLANS
- (4) SCOREBOARD PER ARCHITECTURAL AND SCOREBOARD DRAWINGS
- (5) DRIVE APPROACH PER CITY OF MADERA STANDARD DRAWING ST-13B, SEE DETAIL [D/CX1.7]
- (6) INSTALL KNOX BOX PER DETAIL [H/CX1.7]
- (7) PIER PER BLEACHER PLANS
- (8) PILASTER AND FENCE ATTACHMENT PER ARCHITECTURAL PLANS
- (9) PAINT RED STRIPE ON CONCRETE WITH WHITE LETTERING, "NO PARKING - FIRE LANE" AT 30' INTERVALS
- (10) TRACK SURFACING BY OWNER
- (11) REINSTALL SALVAGED BASKETBALL BACKBOARD PER DETAIL [G/CX1.7], SEE DETAIL [A/CX1.7] FOR LOCATION
- (12) DECORATIVE IRON GATE, SEE ARCHITECTURAL PLANS

PAVING NOTE:

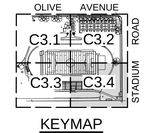
SEE 'TRACK GENERAL NOTES' ON SHEET C7.1 FOR RESPONSIBILITIES OF BOTH THE SITE CONTRACTOR AND TRACK SURFACING CONTRACTOR RELATING TO THE PAVEMENT UNDER THE TRACK.

GATE SCHEDULE:

GATE ID	REFERENCE DETAIL	GATE FUNCTION	ACCESS	FIRE ACCESS
G1	[A/CX1.2]	SINGLE LEAF STEEL MAINTENANCE GATE	LOCKABLE FORK LATCH	N/A
G2	[J/CX1.5]	DOUBLE LEAF STEEL MAINTENANCE SWING GATE	LOCKABLE LATCH	N/A
G3	[K/CX1.5]	SINGLE LEAF STEEL ACCESSIBLE GATE	ADA/CBC ACCESSIBLE PANIC HARWARE, AND RHODES STYLE LEVER HANDLE	N/A
G4	[J/CX1.5]	DOUBLE LEAF STEEL FIRE ACCESS SWING GATE	LOCKABLE LATCH	KNOX BOX MOUNTED TO GATE POST
G5	[A/CX1.3]	DOUBLE LEAF CHAIN LINK MAINTENANCE GATE	LOCKABLE FORK LATCH	N/A
G6	[E/CX1.2]	DOUBLE LEAF DECORATIVE IRON FIRE ACCESS GATE	LOCKABLE LATCH	KNOX BOX MOUNTED TO GATE POST
G7	[E/CX1.2]	DOUBLE LEAF DECORATIVE IRON ACCESSIBLE GATE	ADA/CBC ACCESSIBLE PANIC HARWARE, AND RHODES STYLE LEVER HANDLE	N/A
G8	[E/CX1.2]	DOUBLE LEAF DECORATIVE IRON MAINTENANCE GATE	LOCKABLE FORK LATCH	N/A

GENERAL SITE NOTES:

1. *ALL CONCRETE MOWSTRIPS, RAMPS AND SIDEWALKS SHALL HAVE WEAKENED PLANE JOINTS AT 10 FEET MAXIMUM ON CENTER AND EXPANSION JOINTS AT 30 FEET MAXIMUM ON CENTER PER DETAIL [A/CX1.1]*
2. *INSTALL DOWELED CONNECTION AT JOINT OF NEW CONCRETE TO EXISTING CONCRETE PER DETAIL [C/CX1.1]*
3. *NO CONCRETE MAY BE POURED UNTIL THE FORMS HAVE BEEN REVIEWED AND APPROVED BY THE PROJECT INSPECTOR.*
4. *ALL BURIED METALLIC OBJECTS SHALL HAVE A PROTECTIVE COATING OR BE WRAPPED WITH APPROVED PROTECTIVE WRAP.*
5. *ADJUST EXISTING SPRINKLER HEADS AND LATERAL LINES AS REQUIRED BY NEW IMPROVEMENTS, OR AS SHOWN ON THE IRRIGATION PLANS.*
6. *2 WORKING DAYS BEFORE COMMENCING EXCAVATION OPERATIONS WITHIN THE STREET RIGHT-OF-WAY AND/OR UTILITY EASEMENTS, ALL EXISTING UNDERGROUND FACILITIES SHALL HAVE BEEN LOCATED BY UNDERGROUND SERVICES ALERT (USA). CALL 1-800-642-2444*
7. *ANY SURVEY MONUMENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE PRESERVED OR RESET BY A PERSON LICENSED TO PRACTICE LAND SURVEYING IN THE STATE OF CALIFORNIA. REPLACEMENT TO BE AT CONTRACTOR'S SOLE EXPENSE.*
8. *REPAIR ALL DAMAGED AND/OR OFF-GRADE CONCRETE STREET IMPROVEMENTS AS DETERMINED BY THE AGENCY HAVING JURISDICTION PRIOR TO OCCUPANCY*
9. *NO PAVEMENT STRIPING IS ALLOWED PRIOR TO SEAL COAT REVIEW BY ENGINEER, AND WRITTEN APPROVAL TO PROCEED BY ENGINEER.*
10. *OBTAIN ALL REQUIRED PERMITS AND APPROVALS FROM AGENCY HAVING JURISDICTION FOR WORK WITHIN THE PUBLIC RIGHT OF WAY*
11. *THE INSTALLATION OF THE NEW TRACK SURFACING AND THE NEW SYNTHETIC TURF SYSTEM SHALL BE PERFORMED BY THE OWNER'S CMAS CONTRACTOR. PRIOR TO STARTING ANY INSTALLATION WORK, THE CMAS CONTRACTOR'S SHALL ASSESS THEIR SUPPORTING SUBSTRATES FOR STRUCTURAL INTEGRITY, PLANARITY, DRAINAGE, AND CONFORMANCE TO THE DESIGN INTENT, AND SHALL NOTIFY THE OWNER OF ANY NON-CONFORMING CONDITIONS SUBJECT TO POTENTIAL REPAIR/REPLACEMENT. THE GENERAL CONTRACTOR SHALL COORDINATE ANY REPAIR WORK WITH THE OWNER'S CMAS CONTRACTORS. GENERAL CONTRACTOR SHALL INCLUDE AND ALLOWANCE IN ITS BID TOTALLING $10,0000 TO COVER ANY COSTS RELATED TO CORRECTIVE SUBSTRATE WORK REQUIRED TO MEET THE SPECIFICATIONS OF THE CMAS CONTRACTOR. ANY UNUSED ALLOWANCE SHALL BE RETURNED TO THE OWNER.*



KEYMAP

SCALE: N 1"=20'

0 5 20 40
SCALE IN FEET

811 Know what's below. Call before you dig.

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

Blair, Church & Flynn
CONSULTING ENGINEERS

MADERA HIGH SCHOOL STADIUM

200 SOUTH L STREET
MADERA, CA 93637
PHASE 2 CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER — TEVFRET D. BIRANS — No. 36,185 — CIVIL — STATE OF CALIFORNIA

5/16/25
Date Signed:

PROJECT NUMBER
20-51

DATE
5/16/2025

DSA APPLICATION NO.
02-122784

FILE NO.
20-H3

PTN NO.
65243-154

DRAWN BY
DG

REVISIONS

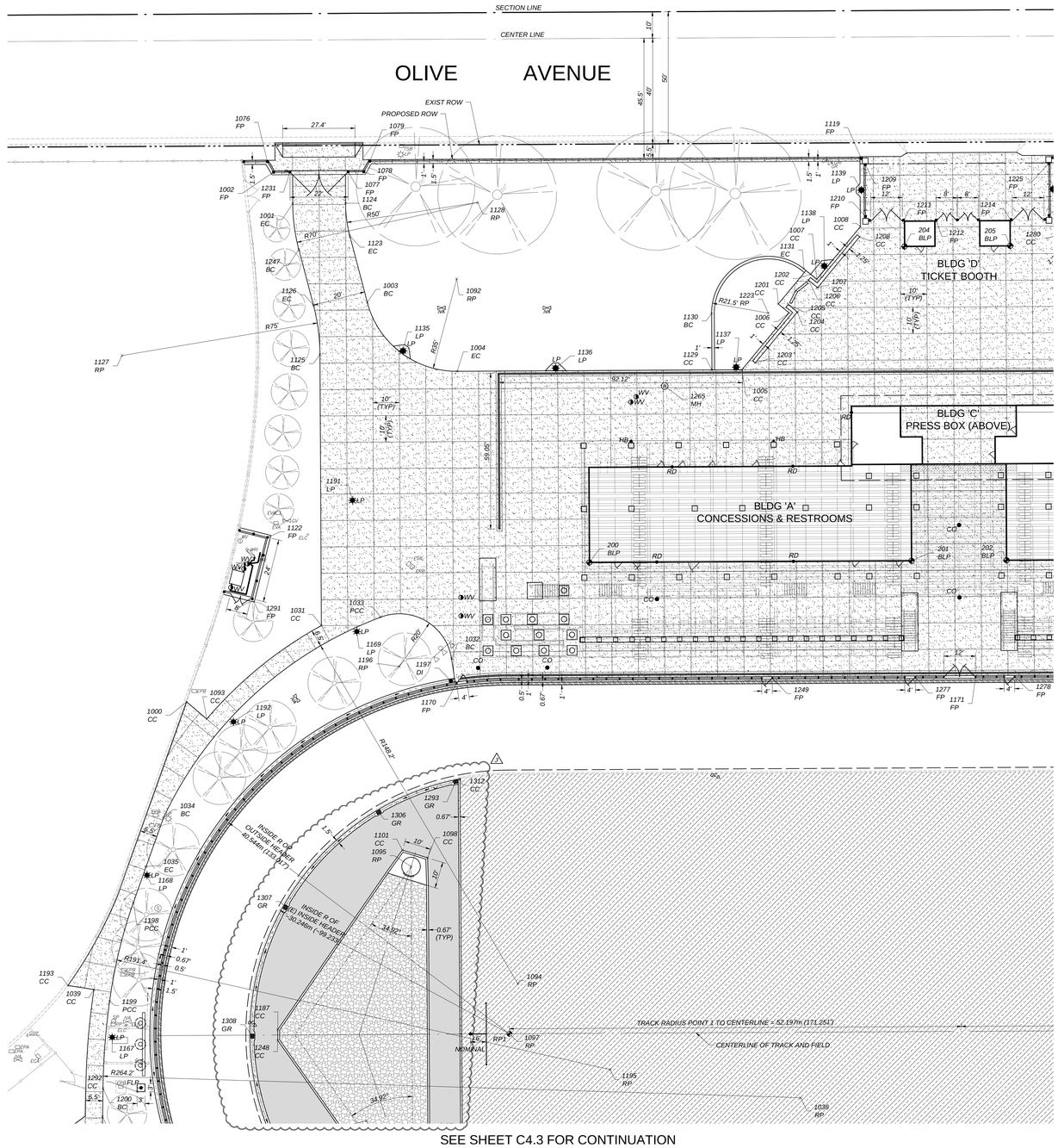
#	DESCRIPTION	DATE
3	ADDENDUM 3	8/27/25

CONSTRUCTION DOCUMENTS

SITE PLAN

C3.4

Drawing: P:\22\22-020\Drawings\construction\sheets\222352_2032.dwg, C3.4 — Plot By: dgalvez Aug 27, 2025 1:48pm



HORIZONTAL CONTROL LEGEND:

1000 LCP		LAYOUT COORDINATE POINT
100 SLP		SITE LAYOUT POINT
200 BLP		BUILDING LAYOUT POINT
RP1		TRACK RADIUS POINT 1
RP2		TRACK RADIUS POINT 2
1	AE	ATHLETIC EQUIPMENT
	BC	BEGIN CURVE
	CC	CORNER CONCRETE
	DI	CENTER OF DRAIN INLET
	EC	END CURVE
	FG	FINISH GROUND
	FP	FENCE POST
	GP	FOOTBALL GOAL POST
2	GR	GRATE
	LP	LIGHT POLE
	MH	MANHOLE
	PCC	POINT OF COMPOUND CURVE
	PRC	POINT OF REVERSE CURVE
	RP	RADIUS POINT

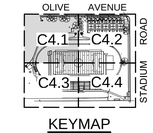
GENERAL HORIZONTAL CONTROL NOTES:

1. *THE SITE LAYOUT IS BASED ON AN ASSUMED COORDINATE SYSTEM. SITE LAYOUT POINT 100 IS A CHISELED 'X' ON TOP FACE OF CURB LOCATED APPROXIMATELY 25' SOUTH OF THE CURB RAMP AT THE OLIVE AVENUE AND STADIUM ROAD INTERSECTION.*

   SITE LAYOUT POINT 101 IS A CHISELED 'X' ON CONCRETE SIDEWALK LOCATED APPROXIMATELY 39' NORTHWEST OF THE MONUMENT NEAR THE SOFTBALL STADIUM ENTRANCE.

   SITE LAYOUT POINT 102 IS A CHISELED 'X' ON TOP OF CURB ON THE EAST SIDE OF STADIUM ROAD APPROXIMATELY 560' SOUTH OF OLIVE AVENUE.

2. *DIMENSIONS AND POINTS ARE TO CENTER OF FENCE POSTS, FACE OF BUILDINGS, TOP FACE OF CURB, OR EDGE OF CONCRETE, UNLESS SHOWN OTHERWISE.*



KEYMAP

SCALE: N 1"=20'

0 5 20 40
SCALE IN FEET

811 Know what's below. Call before you dig.

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

Blair, Church & Flynn
CONSULTING ENGINEERS

MADERA HIGH SCHOOL STADIUM

200 SOUTH L STREET
MADERA, CA 93637

PHASE 2 CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER JEFFREY D. BURNS No. 36,185 CIVIL CALIFORNIA

5/16/25
Date Signed:

PROJECT NUMBER	20-51
DATE	5/16/2025
DSA APPLICATION NO.	02-122784
FILE NO.	20-H3
PTN NO.	65243-154
DRAWN BY	DG

REVISIONS

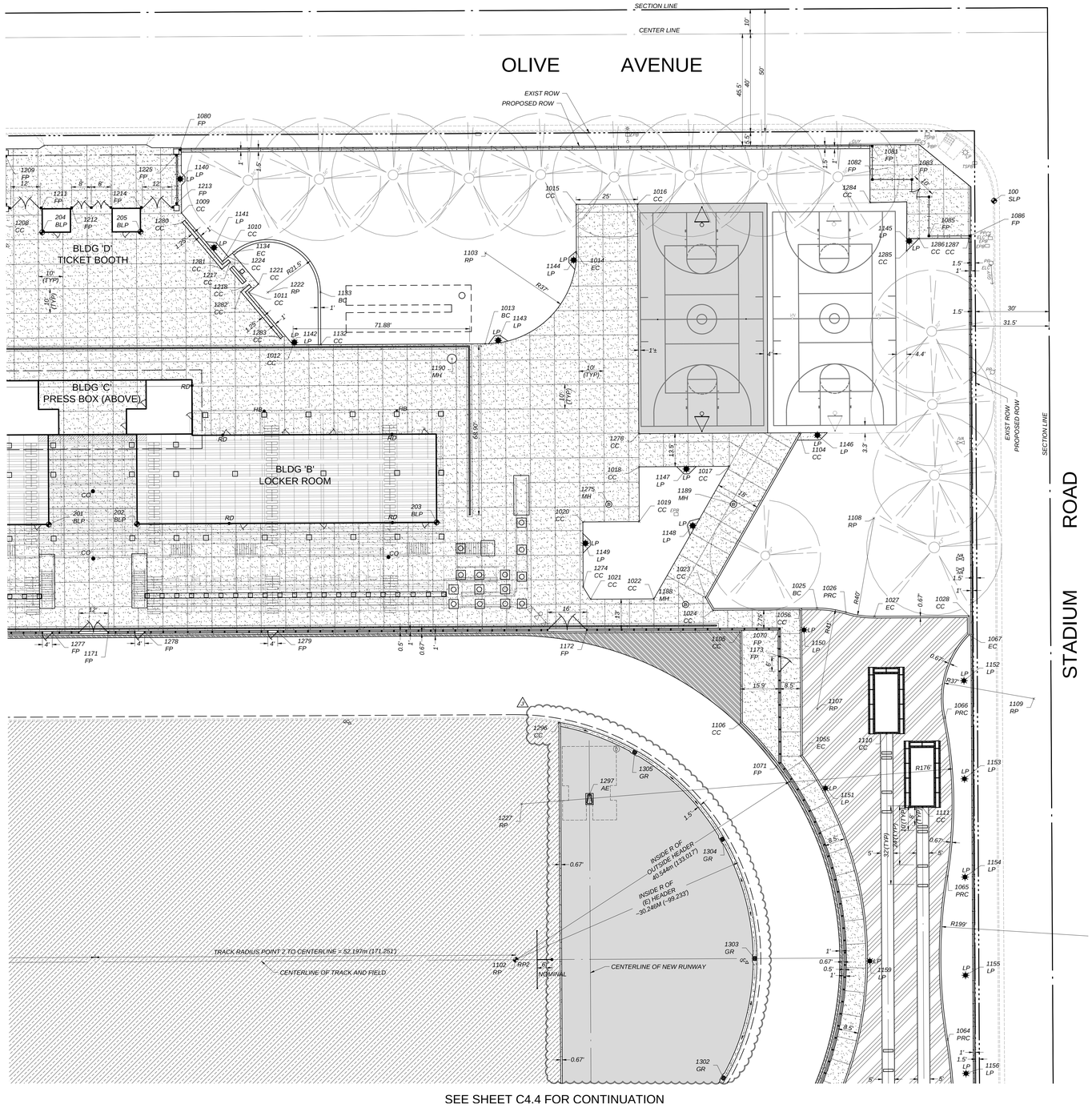
#	DESCRIPTION	DATE
1	ADDENDUM 3	8/27/25

CONSTRUCTION DOCUMENTS

HORIZONTAL CONTROL PLAN

C4.1

Drawing: P:\2021\2021-025\05\planset\submittal\sheet\20151_HCS1.dwg, C4.1 — Plotted: Monday, Aug 04, 2025 - 8:36pm



HORIZONTAL CONTROL LEGEND:

1000 LCP	LAYOUT COORDINATE POINT
100 SLP	SITE LAYOUT POINT
200 BLP	BUILDING LAYOUT POINT
RP1	TRACK RADIUS POINT 1
RP2	TRACK RADIUS POINT 2
1 AE	ATHLETIC EQUIPMENT
BC	BEGIN CURVE
CC	CORNER CONCRETE
DI	CENTER OF DRAIN INLET
EC	END CURVE
FG	FINISH GROUND
FP	FENCE POST
GP	FOOTBALL GOAL POST
2 GR	GRATE
LP	LIGHT POLE
MH	MANHOLE
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
RP	RADIUS POINT

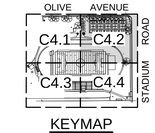
GENERAL HORIZONTAL CONTROL NOTES:

1. *THE SITE LAYOUT IS BASED ON AN ASSUMED COORDINATE SYSTEM. SITE LAYOUT POINT 100 IS A CHISELED 'X' ON TOP FACE OF CURB LOCATED APPROXIMATELY 25' SOUTH OF THE CURB RAMP AT THE OLIVE AVENUE AND STADIUM ROAD INTERSECTION.*

   SITE LAYOUT POINT 101 IS A CHISELED 'X' ON CONCRETE SIDEWALK LOCATED APPROXIMATELY 39' NORTHWEST OF THE MONUMENT NEAR THE SOFTBALL STADIUM ENTRANCE.

   SITE LAYOUT POINT 102 IS A CHISELED 'X' ON TOP OF CURB ON THE EAST SIDE OF STADIUM ROAD APPROXIMATELY 560' SOUTH OF OLIVE AVENUE.

2. *DIMENSIONS AND POINTS ARE TO CENTER OF FENCE POSTS, FACE OF BUILDINGS, TOP FACE OF CURB, OR EDGE OF CONCRETE, UNLESS SHOWN OTHERWISE.*



KEYMAP

SCALE: (N) 1"=20'

0 5 20 40
SCALE IN FEET

Know what's below. Call before you dig.

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

Blair, Church & Flynn
CONSULTING ENGINEERS

MADERA HIGH SCHOOL STADIUM

200 SOUTH L STREET
MADERA, CA 93637

PHASE 2 CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER
JEFFREY D. BRANDT
No. 36,182
CIVIL
STATE OF CALIFORNIA

5/16/25
Date Signed:

PROJECT NUMBER	20-51
DATE	5/16/2025
DSA APPLICATION NO.	02-122784
FILE NO.	20-H3
PTN NO.	65243-154
DRAWN BY	DG

REVISIONS

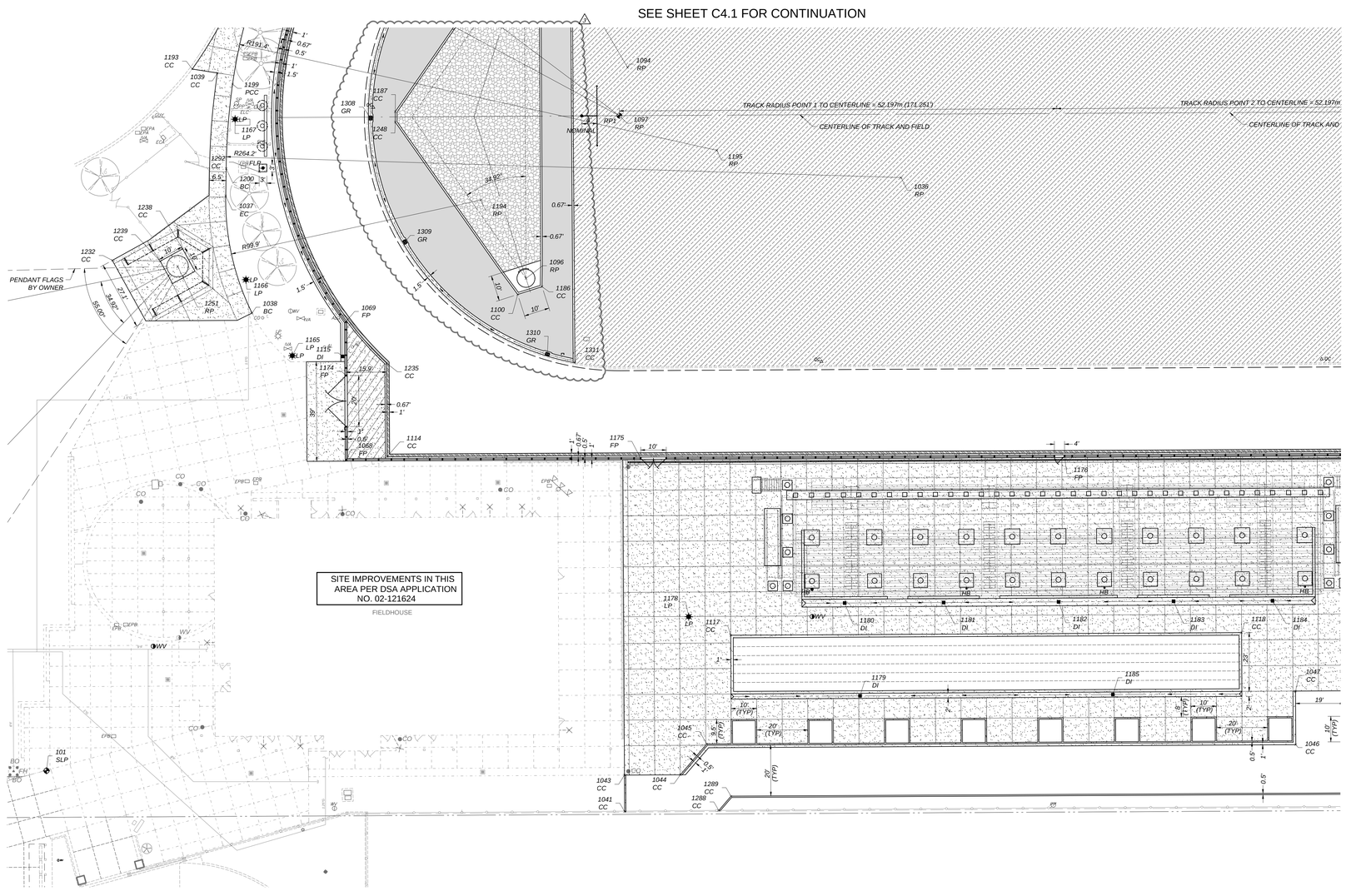
#	DESCRIPTION	DATE
1	ADDENDUM 3	5/27/25

CONSTRUCTION DOCUMENTS

HORIZONTAL CONTROL PLAN

C4.2

Drawing: P:\20\2020-0352\Production\Architectural\Drawings\20222352_ACD20.dwg, C4.2
Plot By: Spencer Aug 27, 2025 - 2:40pm



HORIZONTAL CONTROL LEGEND:

1000 LCP	LAYOUT COORDINATE POINT
100 SLP	SITE LAYOUT POINT
200 BLP	BUILDING LAYOUT POINT
RP1	TRACK RADIUS POINT 1
RP2	TRACK RADIUS POINT 2
1 AE	ATHLETIC EQUIPMENT
BC	BEGIN CURVE
CC	CORNER CONCRETE
DI	CENTER OF DRAIN INLET
EC	END CURVE
FG	FINISH GROUND
FP	FENCE POST
GP	FOOTBALL GOAL POST
2 GR	GRATE
LP	LIGHT POLE
MH	MANHOLE
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
RP	RADIUS POINT

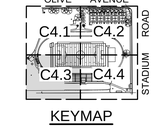
GENERAL HORIZONTAL CONTROL NOTES:

1. *THE SITE LAYOUT IS BASED ON AN ASSUMED COORDINATE SYSTEM. SITE LAYOUT POINT 100 IS A CHISELED 'X' ON TOP FACE OF CURB LOCATED APPROXIMATELY 25' SOUTH OF THE CURB RAMP AT THE OLIVE AVENUE AND STADIUM ROAD INTERSECTION.*

   SITE LAYOUT POINT 101 IS A CHISELED 'X' ON CONCRETE SIDEWALK LOCATED APPROXIMATELY 39' NORTHWEST OF THE MONUMENT NEAR THE SOFTBALL STADIUM ENTRANCE.

   SITE LAYOUT POINT 102 IS A CHISELED 'X' ON TOP OF CURB ON THE EAST SIDE OF STADIUM ROAD APPROXIMATELY 560' SOUTH OF OLIVE AVENUE.

2. *DIMENSIONS AND POINTS ARE TO CENTER OF FENCE POSTS, FACE OF BUILDINGS, TOP FACE OF CURB, OR EDGE OF CONCRETE, UNLESS SHOWN OTHERWISE.*



KEYMAP

SCALE: 1"=20'

0 5 20 40
SCALE IN FEET

Know what's below. Call before you dig.

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

Blair, Church & Flynn
CONSULTING ENGINEERS

MADERA HIGH SCHOOL STADIUM

200 SOUTH L STREET
MADERA, CA 93837
PHASE 2 CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER
JEFFREY D. BRIANS
No. 36,182
CIVIL
STATE OF CALIFORNIA

5/16/25
Date Signed:

PROJECT NUMBER	20-51
DATE	5/16/2025
DSA APPLICATION NO.	02-122784
FILE NO.	20-H3
PTN NO.	65243-154
DRAWN BY	DG

REVISIONS

#	DESCRIPTION	DATE
1	ADDENDUM 1	8/12/25
3	ADDENDUM 3	8/27/25

CONSTRUCTION DOCUMENTS

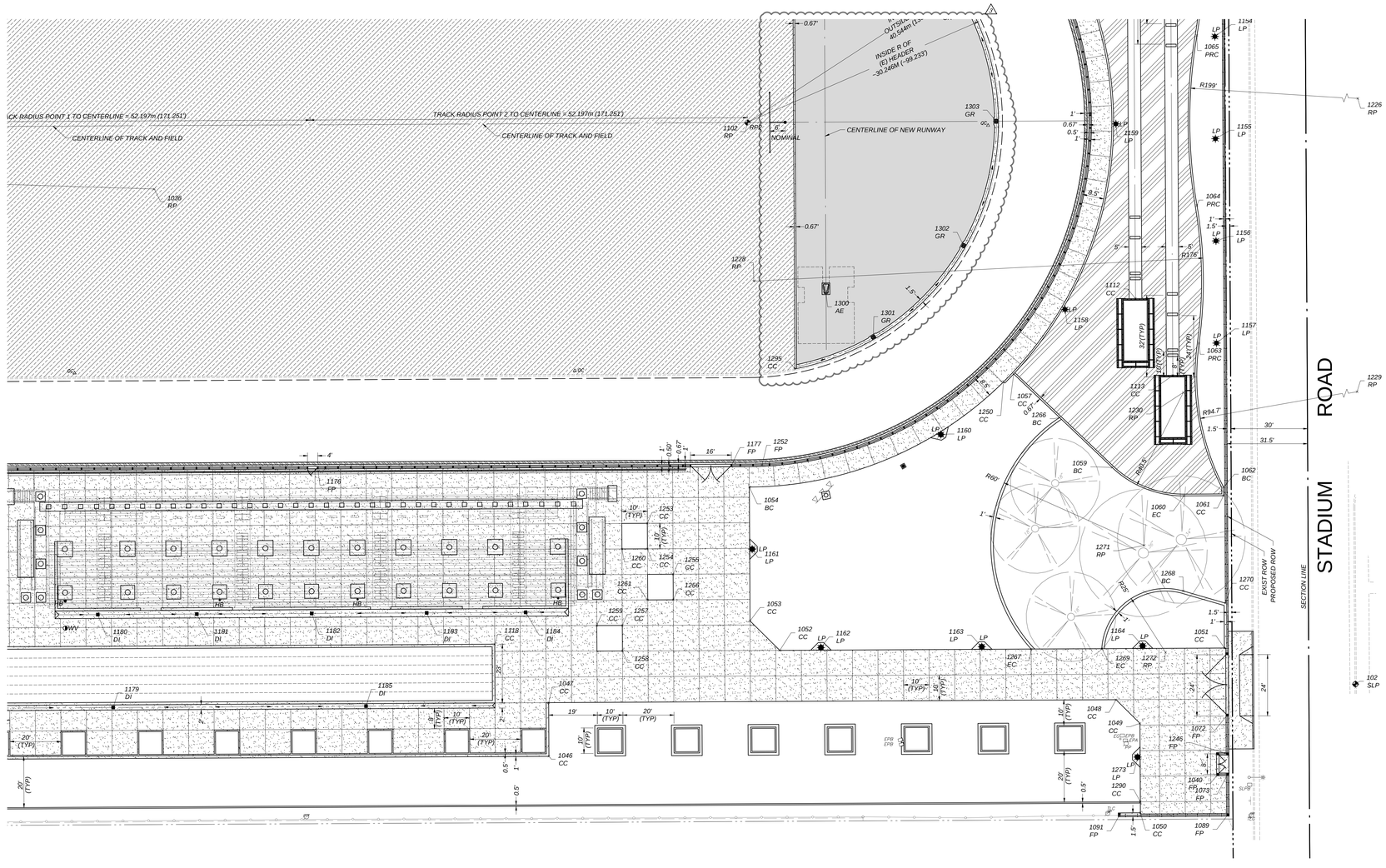
HORIZONTAL CONTROL PLAN

C4.3

Drawing: P:\2022\20-51\Data\production\drawings\20-122202_ACDS.dwg, C4.3 — Plot By: Dgarcia Aug 27, 2025 3:14pm

SEE SHEET C4.2 FOR CONTINUATION

SEE SHEET C4.3 FOR CONTINUATION



HORIZONTAL CONTROL LEGEND:

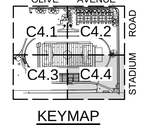
1000 LCP	LAYOUT COORDINATE POINT
100 SLP	SITE LAYOUT POINT
200 BLP	BUILDING LAYOUT POINT
RP1	TRACK RADIUS POINT 1
RP2	TRACK RADIUS POINT 2
2 AE	ATHLETIC EQUIPMENT
BC	BEGIN CURVE
CC	CORNER CONCRETE
DI	CENTER OF DRAIN INLET
EC	END CURVE
FG	FINISH GROUND
FP	FENCE POST
GP	FOOTBALL GOAL POST
2 GR	GRATE
LP	LIGHT POLE
MH	MANHOLE
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
RP	RADIUS POINT

GENERAL HORIZONTAL CONTROL NOTES:

1. *THE SITE LAYOUT IS BASED ON AN ASSUMED COORDINATE SYSTEM. SITE LAYOUT POINT 100 IS A CHISELED 'X' ON TOP FACE OF CURB LOCATED APPROXIMATELY 25' SOUTH OF THE CURB RAMP AT THE OLIVE AVENUE AND STADIUM ROAD INTERSECTION.*

   SITE LAYOUT POINT 101 IS A CHISELED 'X' ON CONCRETE SIDEWALK LOCATED APPROXIMATELY 39' NORTHWEST OF THE MONUMENT NEAR THE SOFTBALL STADIUM ENTRANCE.

   SITE LAYOUT POINT 102 IS A CHISELED 'X' ON TOP OF CURB ON THE EAST SIDE OF STADIUM ROAD APPROXIMATELY 560' SOUTH OF OLIVE AVENUE.
2. *DIMENSIONS AND POINTS ARE TO CENTER OF FENCE POSTS, FACE OF BUILDINGS, TOP FACE OF CURB, OR EDGE OF CONCRETE, UNLESS SHOWN OTHERWISE.*



KEYMAP

SCALE: N 1"=20'

0 5 20 40
SCALE IN FEET

811 Know what's below. Call before you dig.

PBK

ARCHITECT PBK Architects, Inc.
FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

Blair, Church & Flynn
CONSULTING ENGINEERS

MADERA HIGH SCHOOL STADIUM

200 SOUTH L STREET
MADERA, CA 93837
PHASE 2 CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER
JEFFREY D. BRAND
No. 36,182
CIVIL
STATE OF CALIFORNIA
5/16/25
Date Signed:

PROJECT NUMBER	20-51
DATE	5/16/2025
DSA APPLICATION NO.	02-122784
FILE NO.	20-H3
PTN NO.	65243-154
DRAWN BY	DG

REVISIONS

#	DESCRIPTION	DATE
1	ADDENDUM 3	8/27/25

CONSTRUCTION DOCUMENTS

HORIZONTAL CONTROL PLAN

C4.4

Drawing: P:\2020\20-51\05dwg\production\drawings\222222_ACDS.dwg, C4.4 — Plot By: Dgarcia Aug 27, 2025 3:49pm

NORTHING EASTING TABLE

POINT	NORTHING	EASTING	ABV	DESCRIPTION
100	1805518.49	6688737.46	SLP	SITE LAYOUT POINT
101	1804951.07	6687975.82	SLP	SITE LAYOUT POINT
102	1804989.54	6688780.66	SLP	SITE LAYOUT POINT
200	1805386.02	6688230.42	BLP	BUILDING LAYOUT POINT
201	1805386.66	6688352.42	BLP	BUILDING LAYOUT POINT
202	1805386.84	6688388.42	BLP	BUILDING LAYOUT POINT
203	1805387.48	6688510.42	BLP	BUILDING LAYOUT POINT
204	1805505.66	6688349.80	BLP	BUILDING LAYOUT POINT
205	1805505.87	6688389.79	BLP	BUILDING LAYOUT POINT
1000	1805333.21	6688077.84	CC	CORNER CONCRETE
1001	1805521.94	6688118.04	EC	END CURVE
1002	1805533.76	6688110.75	FP	FENCE POST
1003	1805484.50	6688146.27	BC	BEGIN CURVE
1004	1805458.38	6688180.30	EC	END CURVE
1005	1805458.95	6688288.13	CC	CORNER CONCRETE
1006	1805480.51	6688305.99	CC	CORNER CONCRETE
1007	1805493.22	6688316.51	CC	CORNER CONCRETE
1008	1805513.14	6688333.01	CC	CORNER CONCRETE
1009	1805513.52	6688406.50	CC	CORNER CONCRETE
1010	1805493.78	6688423.21	CC	CORNER CONCRETE
1011	1805481.18	6688433.86	CC	CORNER CONCRETE
1012	1805459.81	6688451.94	CC	CORNER CONCRETE
1013	1805460.22	6688530.16	BC	BEGIN CURVE
1014	1805497.35	6688567.33	EC	END CURVE
1015	1805517.07	6688567.26	CC	CORNER CONCRETE
1016	1805517.20	6688592.26	CC	CORNER CONCRETE
1017	1805410.34	6688629.66	CC	CORNER CONCRETE
1018	1805410.15	6688592.82	CC	CORNER CONCRETE
1019	1805387.80	6688592.94	CC	CORNER CONCRETE
1020	1805387.68	6688569.96	CC	CORNER CONCRETE
1021	1805356.21	6688573.12	CC	CORNER CONCRETE
1022	1805356.35	6688598.91	CC	CORNER CONCRETE
1023	1805356.90	6688619.90	CC	CORNER CONCRETE
1024	1805351.72	6688622.93	CC	CORNER CONCRETE
1025	1805352.58	6688665.36	BC	BEGIN CURVE
1026	1805350.88	6688677.09	PRC	POINT OF REVERSE CURVE
1027	1805349.22	6688688.72	EC	END CURVE
1028	1805349.42	6688727.23	CC	CORNER CONCRETE
1031	1805362.11	6688128.88	CC	CORNER CONCRETE
1032	1805349.62	6688178.17	BC	BEGIN CURVE
1033	1805365.30	6688151.40	PCC	POINT OF COMPOUND CURVE
1034	1805289.42	6688069.11	BC	BEGIN CURVE
1035	1805270.87	6688062.48	EC	END CURVE
1036	1805183.36	6688310.39	RP	RADIUS POINT
1037	1805176.18	6688045.99	EC	END CURVE
1038	1805130.31	6688056.29	BC	BEGIN CURVE
1039	1805224.31	6688042.75	CC	CORNER CONCRETE
1040	1804954.23	6688726.77	FP	FENCE POST
1041	1804935.08	6688202.16	CC	CORNER CONCRETE
1043	1804949.37	6688202.09	CC	CORNER CONCRETE
1044	1804949.48	6688223.96	CC	CORNER CONCRETE
1045	1804961.58	6688234.33	CC	CORNER CONCRETE
1046	1804961.29	6688464.90	CC	CORNER CONCRETE
1047	1804982.29	6688464.79	CC	CORNER CONCRETE
1048	1804983.45	6688686.90	CC	CORNER CONCRETE
1049	1804974.18	6688696.27	CC	CORNER CONCRETE
1050	1804939.18	6688696.45	CC	CORNER CONCRETE
1051	1805003.67	6688729.37	CC	CORNER CONCRETE
1052	1805002.76	6688555.27	CC	CORNER CONCRETE
1053	1805014.28	6688543.62	CC	CORNER CONCRETE
1054	1805066.68	6688543.35	BC	BEGIN CURVE
1055	1805292.25	6688658.74	EC	END CURVE
1056	1805351.91	6688658.43	CC	CORNER CONCRETE
1057	1805110.95	6688646.84	CC	CORNER CONCRETE
1059	1805074.36	6688685.38	BC	BEGIN CURVE
1060	1805063.23	6688713.48	EC	END CURVE
1061	1805063.31	6688729.00	CC	CORNER CONCRETE
1062	1805066.68	6688728.98	BC	BEGIN CURVE
1063	1805123.02	6688719.41	PRC	POINT OF REVERSE CURVE
1064	1805176.82	6688718.60	PRC	POINT OF REVERSE CURVE
1065	1805243.42	6688718.56	PRC	POINT OF REVERSE CURVE
1066	1805307.89	6688717.50	PRC	POINT OF REVERSE CURVE
1067	1805341.65	6688727.28	EC	END CURVE
1068	1805072.82	6688093.24	FP	FENCE POST
1069	1805126.78	6688092.96	FP	FENCE POST
1070	1805344.11	6688649.97	FP	FENCE POST
1071	1805289.46	6688650.26	FP	FENCE POST
1072	1804977.39	6688730.47	FP	FENCE POST
1073	1804954.26	6688730.59	FP	FENCE POST
1076	1805537.75	6688108.42	FP	FENCE POST
1077	1805533.91	6688138.98	FP	FENCE POST
1078	1805533.94	6688144.95	FP	FENCE POST
1079	1805537.95	6688147.24	FP	FENCE POST
1080	1805539.30	6688405.84	FP	FENCE POST
1081	1805540.76	6688687.82	FP	FENCE POST
1082	1805527.15	6688687.90	FP	FENCE POST
1083	1805527.14	6688703.99	FP	FENCE POST
1085	1805504.14	6688710.88	FP	FENCE POST
1086	1805504.21	6688727.68	FP	FENCE POST
1089	1804938.39	6688730.67	FP	FENCE POST
1091	1804938.13	6688688.19	FP	FENCE POST
1092	1805493.38	6688180.12	RP	RADIUS POINT
1093	1805326.73	6688085.46	CC	CORNER CONCRETE
1094	1805226.49	6688203.27	RP	RADIUS POINT
1095	1805270.87	6688162.86	RP	RADIUS POINT
1096	1805143.88	6688163.52	RP	RADIUS POINT
1097	1805207.57	6688200.10	RP	RADIUS POINT
1098	1805274.18	6688169.11	CC	CORNER CONCRETE
1100	1805137.59	6688160.28	CC	CORNER CONCRETE
1101	1805277.13	6688159.55	CC	CORNER CONCRETE
1102	1805209.36	6688542.60	RP	RADIUS POINT
1103	1805497.22	6688530.33	RP	RADIUS POINT
1104	1805423.99	6688658.17	CC	CORNER CONCRETE
1105	1805342.86	6688634.08	CC	CORNER CONCRETE
1106	1805305.75	6688634.27	CC	CORNER CONCRETE
1107	1805311.58	6688665.39	RP	RADIUS POINT
1108	1805389.22	6688688.51	RP	RADIUS POINT
1109	1805315.71	6688753.66	RP	RADIUS POINT
1110	1805301.44	6688693.67	CC	CORNER CONCRETE
1111	1805271.41	6688708.29	CC	CORNER CONCRETE
1112	1805140.48	6688694.52	CC	CORNER CONCRETE
1113	1805110.41	6688709.13	CC	CORNER CONCRETE
1114	1805074.07	6688109.15	CC	CORNER CONCRETE
1115	1805113.31	6688091.78	DI	CENTER OF DRAIN INLET
1117	1805004.13	6688243.67	CC	CORNER CONCRETE
1118	1805005.18	6688443.67	CC	CORNER CONCRETE
1119	1805538.92	6688333.39	FP	FENCE POST
1122	1805395.52	6688108.52	FP	FENCE POST
1123	1805509.61	6688139.68	EC	END CURVE
1124	1805522.04	6688138.04	BC	BEGIN CURVE
1125	1805464.73	6688128.34	BC	BEGIN CURVE
1126	1805483.38	6688125.88	EC	END CURVE
1127	1805464.34	6688053.34	RP	RADIUS POINT
1128	1805522.30	6688188.04	RP	RADIUS POINT
1129	1805458.89	6688276.81	CC	CORNER CONCRETE
1130	1805480.30	6688276.70	BC	BEGIN CURVE
1131	1805497.19	6688311.64	EC	END CURVE
1132	1805459.87	6688463.21	CC	CORNER CONCRETE
1133	1805481.30	6688463.10	BC	BEGIN CURVE
1134	1805497.60	6688427.72	EC	END CURVE
1135	1805466.12	6688159.81	LP	LIGHT POLE
1136	1805459.58	6688217.62	LP	LIGHT POLE
1137	1805459.94	6688285.99	LP	LIGHT POLE
1138	1805498.26	6688319.39	LP	LIGHT POLE
1139	1805526.99	6688333.43	LP	LIGHT POLE
1140	1805527.36	6688405.93	LP	LIGHT POLE
1141	1805499.42	6688419.75	LP	LIGHT POLE
1142	1805460.81	6688452.45	LP	LIGHT POLE
1143	1805461.61	6688535.50	LP	LIGHT POLE
1144	1805494.31	6688566.22	LP	LIGHT POLE
1145	1805502.10	6688702.86	LP	LIGHT POLE
1146	1805423.03	6688665.50	LP	LIGHT POLE
1147	1805409.25	6688612.12	LP	LIGHT POLE
1148	1805386.15	6688614.71	LP	LIGHT POLE
1149	1805378.97	6688571.00	LP	LIGHT POLE
1150	1805343.69	6688660.04	LP	LIGHT POLE
1151	1805279.22	6688668.79	LP	LIGHT POLE
1152	1805323.04	6688725.19	LP	LIGHT POLE
1153	1805283.04	6688725.40	LP	LIGHT POLE
1154	1805243.04	6688725.61	LP	LIGHT POLE
1155	1805203.04	6688725.82	LP	LIGHT POLE
1156	1805163.04	6688726.03	LP	LIGHT POLE
1157	1805123.04	6688726.24	LP	LIGHT POLE
1158	1805136.18	6688666.97	LP	LIGHT POLE
1159	1805208.84	6688686.85	LP	LIGHT POLE
1160	1805087.25	6688618.33	LP	LIGHT POLE
1161	1805042.38	6688544.48	LP	LIGHT POLE
1162	1805003.84	6688571.38	LP	LIGHT POLE
1163	1805004.17	6688634.35	LP	LIGHT POLE
1164	1805004.50	6688697.33	LP	LIGHT POLE
1165	1805113.61	6688072.05	LP	LIGHT POLE
1166	1805143.36	6688053.89	LP	LIGHT POLE
1167	1805206.20	6688049.65	LP	LIGHT POLE
1168	1805267.60	6688062.84	LP	LIGHT POLE
1169	1805359.86	6688142.28	LP	LIGHT POLE
1170	1805340.26	6688180.12	FP	FENCE POST
1171	1805342.68	6688376.65	FP	FENCE POST
1172	1805343.70	6688571.58	FP	FENCE POST
1173	1805332.86	6688650.03	FP	FENCE POST
1174	1805105.82	6688093.07	FP	FENCE POST
1175	1805073.42	6688208.44	FP	FENCE POST
1176	1805074.29	6688374.37	FP	FENCE POST
1177	1805075.14	6688536.30	FP	FENCE POST
1178	1805011.39	6688227.23	LP	LIGHT POLE
1179	1804980.40	6688294.30	DI	CENTER OF DRAIN INLET
1180	1805016.76	6688288.29	DI	CENTER OF DRAIN INLET
1181	1805016.96	6688327.04	DI	CENTER OF DRAIN INLET
1182	1805017.20	6688372.02	DI	CENTER OF DRAIN INLET
1183	1805017.43	6688417.04	DI	CENTER OF DRAIN INLET
1184	1805017.64	6688455.79	DI	CENTER OF DRAIN INLET
1185	1804980.92	6688393.29	DI	CENTER OF DRAIN INLET
1186	1805140.64	6688169.81	CC	CORNER CONCRETE
1187	1805209.15	6688112.35	CC	CORNER CONCRETE
1188	1805354.06	6688611.81	MH	MANHOLE
1189	1805394.88	6688631.33	MH	MANHOLE
1190	1805454.15	6688516.66	MH	MANHOLE
1191	1805409.50	6688140.65	LP	LIGHT POLE
1192	1805325.67	6688095.57	LP	LIGHT POLE
1193	1805225.84	6688032.88	CC	CORNER CONCRETE
1194	1805174.53	6688145.84	RP	RADIUS POINT
1195	1805194.03	6688238.27	RP	RADIUS POINT
1196	1805346.57	6688158.40	RP	RADIUS POINT
1197	1805341.17	6688177.87	DI	CENTER OF DRAIN INLET
1198	1805257.24	6688057.66	PCC	POINT OF COMPOUND CURVE
1199	1805219.95	6688048.69	PCC	POINT OF COMPOUND CURVE
1200	1805186.88	6688046.16	BC	BEGIN CURVE
1201	1805483.86	6688301.95	CC	CORNER CONCRETE
1202	1805495.14	6688314.20	CC	CORNER CONCRETE
1203	1805461.56	6688293.21	CC	CORNER CONCRETE
1204	1805480.81	6688309.16	CC	CORNER CONCRETE
1205	1805483.68	6688305.69	CC	CORNER CONCRETE
1206	1805492.92	6688313.35	CC	CORNER CONCRETE
1207	1805490.05	6688316.81	CC	CORNER CONCRETE
1208	1805509.31	6688332.76	CC	CORNER CONCRETE
1209	1805536.63	6688334.88	FP	FENCE POST
1210	1805517.02	6688334.99	FP	FENCE POST
1211	1805515.24	6688349.35	FP	FENCE POST
1212	1805515.28	6688361.74	FP	FENCE POST
1213	1805517.38	6688404.49	FP	FENCE POST
1214	1805515.41	6688390.17	FP	FENCE POST
1217	1805493.52	6688426.38	CC	CORNER CONCRETE
1218	1805484.35	6688434.13	CC	CORNER CONCRETE
1221	1805484.57	6688437.87	CC	CORNER CONCRETE
1222	1805481.18	6688441.60	RP	RADIUS POINT
1223	1805480.41	6688298.20	RP	RADIUS POINT
1224	1805495.72	6688425.50	CC	CORNER CONCRETE
1225	1805537.07	6688404.38	FP	FENCE POST
1226	1805210.22	6688914.78	RP	RADIUS POINT
1227	1805272.78	6688545.03	RP	RADIUS POINT
1228	1805147.28	6688545.09	RP	RADIUS POINT
1229	1805109.97	6688813.24	RP	RADIUS POINT
1230	1805103.73	6688713.27	RP	RADIUS POINT
1231	1805533.79	6688116.95	FP	FENCE POST
1232	1805150.93	6688001.58	CC	CORNER CONCRETE
1235	1805110.69	6688108.96	CC	CORNER CONCRETE
1237	3610279.66	13376081.83	CC	CORNER CONCRETE
1238	1805155.43	6688029.09	CC	CORNER CONCRETE
1239	1805150.59	6688020.34	CC	CORNER CONCRETE
1246	1804962.26	6688730.55	FP	FENCE POST
1247	1805504.53	6688120.33	BC	BEGIN CURVE
1248	1805205.06	6688112.37	CC	CORNER CONCRETE
1249	1805342.28	6688299.65	FP	FENCE POST
1250	1805107.83	6688642.86	CC	CORNER CONCRETE
1251	1805148.64	6688027.14	RP	RADIUS POINT
1252	1805075.30	6688548.30	FP	FENCE POST
1253	1805052.49	6688503.42	CC	CORNER CONCRETE
1254	1805042.49	6688503.48	CC	CORNER CONCRETE
1255	1805032.55	6688513.53	CC	CORNER CONCRETE
1256	1805022.55	6688513.58	CC	CORNER CONCRETE
1257	1805012.52	6688493.63	CC	CORNER CONCRETE
1258	1805002.52	6688493.68	CC	CORNER CONCRETE
1259	1805012.48	6688483.63	CC	CORNER CONCRETE
1260	1805042.44	6688493.48	CC	CORNER CONCRETE
1261	1805022.49	6688503.58	CC	CORNER CONCRETE
1265	1805452.80	6688258.91	MH	MANHOLE
1266	1805093.90	6688664.80	BC	BEGIN CURVE
1267	1805003.28	6688653.71	EC	END CURVE
1268	1805025.99	6688713.23	BC	BEGIN CURVE
1269	1805003.42	6688681.35	EC	END CURVE
1270	1805021.23	6688729.73	CC	CORNER CONCRETE
1271	1805043.84	6688697.93	RP	RADIUS POINT
1272	1805001.97	6688706.31	RP	RADIUS POINT
1273	1804960.98	6688695.34	LP	LIGHT POLE
1274	1805361.20	6688570.10	CC	CORNER CONCRETE
1275	1805394.88	6688580.53	MH	MANHOLE
1276	1805423.65	6688592.75	CC	CORNER CONCRETE
1277	1805342.56	6688353.84	FP	FENCE POST
1278	1805342.76	6688391.46	FP	FENCE POST
1279	1805343.04	6688445.65	FP	FENCE POST
1280	1805509.70	6688406.79	CC	CORNER CONCRETE
1281	1805490.61	6688422.94	CC	CORNER CONCRETE
1282	1805481.45	6688430.69	CC	CORNER CONCRETE
1283	1805462.36	6688446.84	CC	CORNER CONCRETE
1284	1805517.75	6688686.94	CC	CORNER CONCRETE
1285	1805498.03	6688701.84	CC	CORNER CONCRETE
1286	1805503.12	6688706.88	CC	CORNER CONCRETE
1287	1805503.23	6688727.18	CC	CORNER CONCRETE
1288	1804935.55	6688239.02	CC	CORNER CONCRETE
1289	1804941.12	6688243.79	CC	CORNER CONCRETE
1290	1804943.50	6688696.43	CC	CORNER CONCRETE
1291	1805372.23	6688102.71	FP	FENCE POST
1292	1805185.61	6688059.08	CC	CORNER CONCRETE
1293	1805303.00	6688179.79	GR	GRATE
1295	1805112.93	6688561.19	CC	CORNER CONCRETE
1296	1805306.06	6688560.18	CC	CORNER CONCRETE
1297	1805276.68	6688572.67	AE	ATHLETIC EQUIPMENT
1300	1805142.46	6688573.37	AE	ATHLETIC EQUIPMENT
1301	1805125.41	6688591.87	GR	GRATE
1302	1805161.21	6688627.22	GR	GRATE
1303	1805209.87	6688639.97	GR	GRATE
1304	1805258.40	6688626.77	GR	GRATE
1305	1805293.85	6688591.07	GR	GRATE
1306	1805291.48	6688150.59	GR	GRATE
1307	1805255.46	6688115.28	GR	GRATE
1308	1805206.66	6688102.74	GR	GRATE
1309	1805158.14	6688116.17	GR	GRATE
1310	1805114.20	6688171.92	GR	GRATE
1311	1805110.82	6688182.67	CC	CORNER CONCRETE
1312	1805304.09	6688181.37	CC	CORNER CONCRETE

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

Blair, Church & Flynn
CONSULTING ENGINEERS

MADERA HIGH SCHOOL STADIUM

200 SOUTH L STREET
MADERA, CA 93837

PHASE 2 CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER
JEFFREY D. BURNS
No. 36,185
CIVIL
STATE OF CALIFORNIA

5/16/25
Date Signed:

PROJECT NUMBER
20-51

DATE
5/16/2025

DSA APPLICATION NO.
02-122784

FILE NO.
20-H3

PTN NO.
65243-154

DRAWN BY
DG

REVISIONS

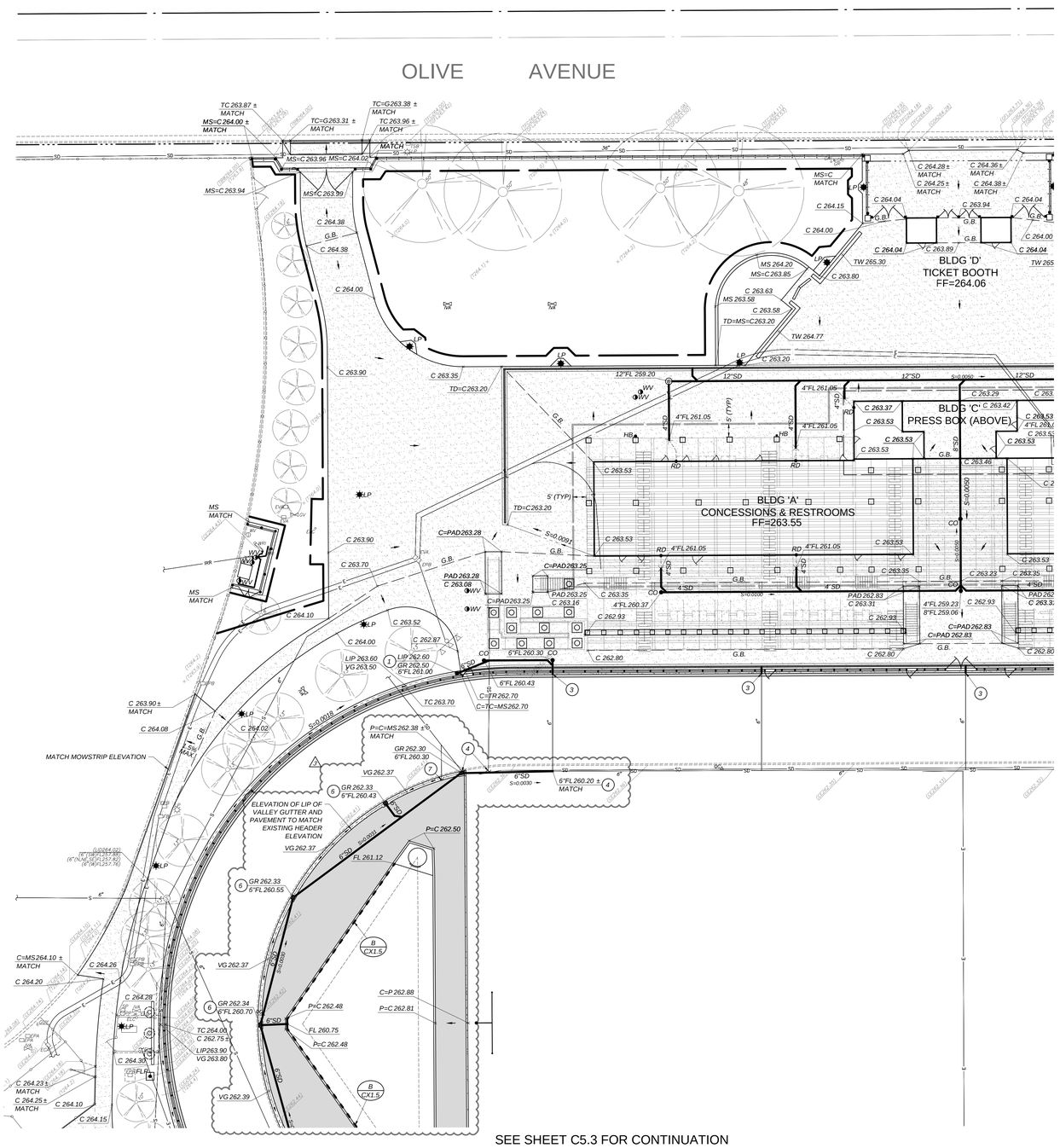
#	DESCRIPTION	DATE
1	ADDENDUM 1	8/12/25
2	ADDENDUM 3	8/27/25

CONSTRUCTION DOCUMENTS

HORIZONTAL CONTROL TABLE

C4.5

Drawing: P:\2021\2021-025\25\plans\publish\drawings\C4.5_HCTL.dwg, C4.5, ---
Plotted: Wednesday, Aug 27, 2025 - 8:18pm



SEE SHEET C5.2 FOR CONTINUATION

GRADING AND DRAINAGE LEGEND:

C	CONCRETE
FF	FINISHED FLOOR
FG	FINISHED GRADE
FL	FLOWLINE
GR	STORM DRAIN GRATE
LIP	LIP OF GUTTER
MATCH	MATCH TO EXISTING
MS	MOWSTRIP
P	PAVEMENT
PAD	CONCRETE BLEACHER PAD
T	SYNTHETIC TURF
TC	TOP OF CURB
TD	TRENCH DRAIN
TW	TOP OF WALL
TYP	TYPICAL
VG	VALLEY GUTTER FLOWLINE
(344.9)	EXISTING ELEVATION
328.78	NEW FINISHED GRADE
	GRADES FROM DSA APPLICATION 02-121624, FIELD VERIFY
	DIRECTION OF SURFACE DRAINAGE
G.B.	GRADE BREAK
S=0.0050	PIPE SLOPE AND DIRECTION OF FLOW
	SWALE AND DIRECTION OF FLOW
	LIMITS OF GRADING
	LIMITS OF OVER-EXCAVATION PER DETAIL [N/CX1.1]
1	V12 STORM DRAIN INLET PER DETAIL [H/CX1.1]
2	CDS PRE-TREATMENT SYSTEM PER DETAIL [F/CX1.7]
3	CONNECT CHANNEL DRAIN TO EXISTING STORM DRAIN WITH WATER-TIGHT CONNECTION
4	CONNECT TO EXISTING STORM DRAIN WITH WATER-TIGHT CONNECTION
5	STORM WATER DETENTION SYSTEM PER DETAIL [A-D/CX1.6]
6	V09 STORM DRAIN INLET PER DETAIL [A/C5.1]
7	CAP END OF UTILITY LINE
8	CONNECT EXISTING PERFORATED STORM DRAIN LINE TO EXISTING SOLID STORM DRAIN LINE
	TRENCH DRAIN PER DETAIL [B/CX1.3]
D	STORM DRAIN MANHOLE PER DETAIL [C/CX1.3]
CO	SURFACE CLEANOUT PER DETAIL [F/CX1.1]
RD	ROOF DRAIN, SEE PLUMBING PLANS
SD	STORM DRAIN PIPELINE; SIZE AS NOTED. TRENCH AND BACKFILL PER DETAIL [D/CX1.1]
6"SD	PERFORATED STORM DRAIN PIPELINE; SIZE AS NOTED. TRENCH AND BACKFILL PER DETAIL [E/CX1.4]
S=0.0020	FLOWLINE SLOPE AND DIRECTION OF FLOW

GENERAL GRADING AND DRAINAGE NOTES:

THE REQUIREMENTS AND INFORMATION SET OUT BELOW ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT ENCOMPASS ALL PROJECT REQUIREMENTS DESCRIBED BY THE PROJECT PLANS AND SPECIFICATIONS AND/OR APPLICABLE LAWS, REGULATIONS AND/OR BUILDING CODES.

1. *CONSTRUCTION OF ALL PROJECT SITE IMPROVEMENTS SUBJECT TO ADA ACCESS COMPLIANCE, INCLUDING ACCESSIBLE PATH OF TRAVEL, CURB RETURNS, PARKING STALL(S) AND UNLOADING AREAS, BARRIER FREE AMENITIES AND/OR OTHER APPLICABLE SITE IMPROVEMENTS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT, CALIFORNIA TITLE 24, THE CALIFORNIA BUILDING CODE, CURRENT EDITION(S).*
2. *CONTRACTOR SHALL FIELD VERIFY ALL GRADES AND SLOPES PRIOR TO THE PLACEMENT OF CONCRETE AND/OR PAVEMENT FOR CONFORMANCE WITH ADA ACCESS COMPLIANCE REQUIREMENTS. EXAMPLES OF MINIMUM AND MAXIMUM LIMITS RELATED TO ADA ACCESS COMPLIANCE INCLUDE, BUT ARE NOT LIMITED TO:*
   a. *ACCESSIBLE PATH OF TRAVEL CROSS-SLOPE SHALL NOT EXCEED 2%*
   b. *ACCESSIBLE PATH OF TRAVEL LONGITUDINAL SLOPES SHALL NOT EXCEED 5%*
   c. *RAMP LONGITUDINAL SLOPES SHALL NOT EXCEED 8.33%*
   d. *ACCESSIBLE WALKS SHALL NOT HAVE LESS THAN 48 INCHES IN UNOBSTRUCTED WIDTH*
   e. *ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION*
   f. *LANDINGS AT THE TOP AND BOTTOM OF ACCESSIBLE RAMPS SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION*
   g. *GUTTERS AND ROAD SURFACES DIRECTLY ADJACENT TO AND WITHIN 2 FEET OF A CURB RAMP SHALL HAVE A COUNTER SLOPE NOT TO EXCEED 5%*
3. *CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IDENTIFIED BY THE PROFESSIONAL ENGINEERING SEAL AND SIGNATURE ON THESE PLANS, OF ANY SITE CONDITION(S) AND/OR DESIGN INFORMATION THAT PREVENTS THE CONTRACTOR FROM COMPLYING WITH THE LAWS, REGULATIONS AND/OR BUILDING CODES GOVERNING ADA ACCESS COMPLIANCE.*
4. *GROUND SLOPES AWAY FROM BUILDING PADS IN LANDSCAPED OR DIRT AREAS SHALL BE NO LESS THAN 5% FOR AT LEAST TEN (10) FEET, OR AS OTHERWISE NOTED ON THE PLANS.*
5. *DRAINAGE SHALL NOT BE ALLOWED ONTO ADJACENT PROPERTY.*
6. *ALL FILL MATERIAL USED TO SUPPORT THE FOUNDATIONS OF ANY BUILDING OR STRUCTURE SHALL BE PLACED UNDER THE DIRECTION OF A LICENSED GEOTECHNICAL ENGINEER, AND IN COMPLIANCE WITH THE PROJECT SPECIFICATIONS. A SOILS COMPACTION REPORT SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AS REQUIRED BY THE PROJECT SPECIFICATIONS.*
7. *THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS REQUIRED BY THE PROJECT SPECIFICATIONS, AND BY GOVERNING PUBLIC AGENCIES.*
8. *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. IMPLEMENT BEST MANAGEMENT PRACTICES WITHIN PUBLIC RIGHT OF WAY PER LOCAL JURISDICTION REQUIREMENTS.*
9. *AS A FIRST ORDER OF WORK, THE CONTRACTOR SHALL POT HOLE THE EXISTING UTILITY LINES AT THE POINT OF CONNECTION TO VERIFY THE LOCATION, SIZE, PIPE MATERIAL AND ELEVATION SO THAT THE ENGINEER CAN MAKE ELEVATION AND/OR ALIGNMENT ADJUSTMENTS IF NECESSARY. SHOULD POT HOLING DISCOVER ANY DISCREPANCIES, CONTACT THE ENGINEER AND OBTAIN WRITTEN DIRECTION BEFORE PROCEEDING.*
10. *ADJUST UTILITY LIDS WITHIN NEW CONSTRUCTION AREA TO FINISHED GRADE PER DETAIL [E/CX1.1]. REPLACE ALL BROKEN LIDS WITH NEW. PROVIDE TRAFFIC RATED LIDS WITHIN VEHICLE LOADING AREAS.*
11. *WATER TEST PAVEMENT WITHIN NEW IMPROVEMENT AREA. REPLACE PAVEMENT WHERE BIRD BATHS OCCUR AFTER TEST AS DIRECTED BY THE INSPECTOR OR ENGINEER.*
12. *MINIMUM SLOPE ON IMPERVIOUS SURFACES PERPENDICULAR TO ADJACENT STRUCTURE(S), WITHIN ADA PATH, SHALL BE 1% MINIMUM AND 2% MAXIMUM, WHERE DOOR AND GATE LANDINGS OCCUR THE CROSS SLOPE SHALL BE 2% MAXIMUM IN ALL DIRECTIONS*

BENCHMARK:

1" BRASS CAP MONUMENT ON TOP OF CURB, SOUTH SIDE OF OLIVE AVENUE, 280' EAST OF THE CENTERLINE OF "P" STREET.

ELEV.= 263.43 U.S.G.S. DATUM

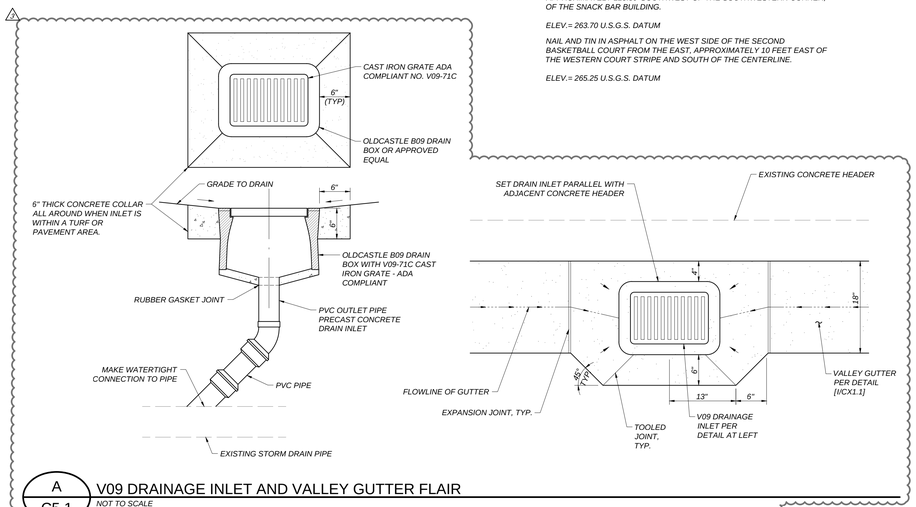
SITE BENCHMARK:

CHISELED "X" ON CONCRETE DRIVE NORTH OF THE SOFTBALL FIELDS APPROXIMATELY 113.50' SOUTHWEST OF THE SOUTHWESTERN CORNER, OF THE SNACK BAR BUILDING.

ELEV.= 263.70 U.S.G.S. DATUM

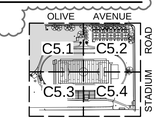
NAIL AND TIN IN ASPHALT ON THE WEST SIDE OF THE SECOND BASKETBALL COURT FROM THE EAST, APPROXIMATELY 10 FEET EAST OF THE WESTERN COURT STRIPE AND SOUTH OF THE CENTERLINE.

ELEV.= 265.25 U.S.G.S. DATUM



A / C5.1 V09 DRAINAGE INLET AND VALLEY GUTTER FLAIR

NOT TO SCALE



KEYMAP

SCALE: N 1"=20'

0 5 20 40

SCALE IN FEET

Know what's below. Call before you dig.

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

Blair, Church & Flynn CONSULTING ENGINEERS

MADERA HIGH SCHOOL STADIUM

200 SOUTH L STREET
MADERA, CA 93637

PHASE 2 CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER JEFFREY D. BRYANS No. 36,185 CIVIL

5/16/25
Date Signed:

PROJECT NUMBER	20-51
DATE	5/16/2025
DSA APPLICATION NO.	02-122784
FILE NO.	20-H3
PTN NO.	65243-154
DRAWN BY	DG

REVISIONS

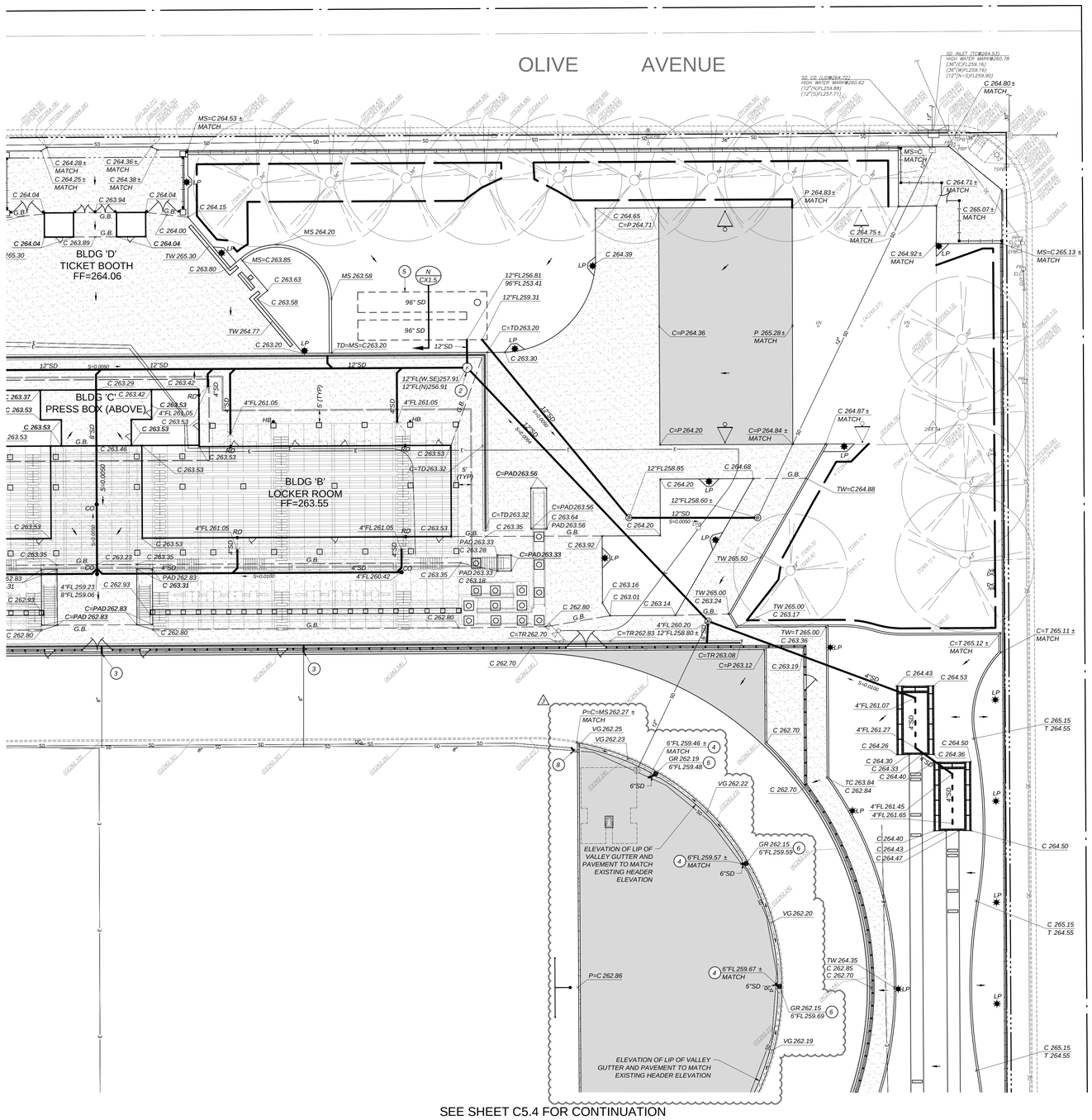
#	DESCRIPTION	DATE
1	ADDENDUM 3	8/27/25

CONSTRUCTION DOCUMENTS

GRADING AND DRAINAGE PLAN

C5.1

Drawing: P:\22222-22522\Bid\plotfiles\drawings\22333_GRD_Map_C5.1.r...
Plot By: Simone Aug 01, 2025 - 1:30pm



GRADING AND DRAINAGE LEGEND:

C	CONCRETE
FF	FINISHED FLOOR
FG	FINISHED GRADE
FL	FLOWLINE
GR	STORM DRAIN GRATE
LIP	LIP OF GUTTER
MATCH	MATCH TO EXISTING
MS	MOWSTRIP
P	PAVEMENT
PAD	CONCRETE BLEACHER PAD
T	SYNTHETIC TURF
TC	TOP OF CURB
TD	TRENCH DRAIN
TW	TOP OF WALL
TYP	TYPICAL
VG	VALLEY GUTTER FLOWLINE
(344.9)	EXISTING ELEVATION
328.78	NEW FINISHED GRADE
	GRADES FROM DSA APPLICATION 02-121624, FIELD VERIFY
	DIRECTION OF SURFACE DRAINAGE
G.B.	GRADE BREAK
S=0.0050	PIPE SLOPE AND DIRECTION OF FLOW
	SWALE AND DIRECTION OF FLOW
	LIMITS OF GRADING
	LIMITS OF OVER-EXCAVATION PER DETAIL [N/CX1.1]
1	V12 STORM DRAIN INLET PER DETAIL [H/CX1.1]
2	CDS PRE-TREATMENT SYSTEM PER DETAIL [F/ CX1.7]
3	CONNECT CHANNEL DRAIN TO EXISTING STORM DRAIN WITH WATER-TIGHT CONNECTION
4	CONNECT TO EXISTING STORM DRAIN WITH WATER-TIGHT CONNECTION
5	STORM WATER DETENTION SYSTEM PER DETAIL [A-D/CX1.6]
6	V09 STORM DRAIN INLET PER DETAIL [A/C5.1]
7	CAP END OF UTILITY LINE
8	CONNECT EXISTING PERFORATED STORM DRAIN LINE TO EXISTING SOLID STORM DRAIN LINE
	TRENCH DRAIN PER DETAIL [B/CX1.3]
D	STORM DRAIN MANHOLE PER DETAIL [C/CX1.3]
CO	SURFACE CLEANOUT PER DETAIL [F/CX1.1]
RD	ROOF DRAIN, SEE PLUMBING PLANS
SD	STORM DRAIN PIPELINE; SIZE AS NOTED. TRENCH AND BACKFILL PER DETAIL [D/CX1.1]
6"SD	PERFORATED STORM DRAIN PIPELINE; SIZE AS NOTED. TRENCH AND BACKFILL PER DETAIL [E/CX1.4]
S=0.0020	FLOWLINE SLOPE AND DIRECTION OF FLOW

GENERAL GRADING AND DRAINAGE NOTES:

THE REQUIREMENTS AND INFORMATION SET OUT BELOW ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT ENCOMPASS ALL PROJECT REQUIREMENTS DESCRIBED BY THE PROJECT PLANS AND SPECIFICATIONS AND/OR APPLICABLE LAWS, REGULATIONS AND/OR BUILDING CODES.

1. *CONSTRUCTION OF ALL PROJECT SITE IMPROVEMENTS SUBJECT TO ADA ACCESS COMPLIANCE, INCLUDING ACCESSIBLE PATH OF TRAVEL, CURB RETURNS, PARKING STALL(S) AND UNLOADING AREAS, BARRIER FREE AMENITIES AND/OR OTHER APPLICABLE SITE IMPROVEMENTS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT, CALIFORNIA TITLE 24, THE CALIFORNIA BUILDING CODE, CURRENT EDITION(S).*
2. *CONTRACTOR SHALL FIELD VERIFY ALL GRADES AND SLOPES PRIOR TO THE PLACEMENT OF CONCRETE AND/OR PAVEMENT FOR CONFORMANCE WITH ADA ACCESS COMPLIANCE REQUIREMENTS. EXAMPLES OF MINIMUM AND MAXIMUM LIMITS RELATED TO ADA ACCESS COMPLIANCE INCLUDE, BUT ARE NOT LIMITED TO:*
   a) *ACCESSIBLE PATH OF TRAVEL CROSS-SLOPE SHALL NOT EXCEED 2%*
   b) *ACCESSIBLE PATH OF TRAVEL LONGITUDINAL SLOPES SHALL NOT EXCEED 5%*
   c) *RAMP LONGITUDINAL SLOPES SHALL NOT EXCEED 8.33%*
   d) *ACCESSIBLE WALKS SHALL NOT HAVE LESS THAN 48 INCHES IN UNOBSTRUCTED WIDTH*
   e) *ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION*
   f) *LANDINGS AT THE TOP AND BOTTOM OF ACCESSIBLE RAMPS SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION*
   g) *GUTTERS AND ROAD SURFACES DIRECTLY ADJACENT TO AND WITHIN 2 FEET OF A CURB RAMP SHALL HAVE A COUNTER SLOPE NOT TO EXCEED 5%*
3. *CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IDENTIFIED BY THE PROFESSIONAL ENGINEERING SEAL AND SIGNATURE ON THESE PLANS, OF ANY SITE CONDITION(S) AND/OR DESIGN INFORMATION THAT PREVENTS THE CONTRACTOR FROM COMPLYING WITH THE LAWS, REGULATIONS AND/OR BUILDING CODES GOVERNING ADA ACCESS COMPLIANCE.*
4. *GROUND SLOPES AWAY FROM BUILDING PADS IN LANDSCAPED OR DIRT AREAS SHALL BE NO LESS THAN 5% FOR AT LEAST TEN (10) FEET, OR AS OTHERWISE NOTED ON THE PLANS.*
5. *DRAINAGE SHALL NOT BE ALLOWED ONTO ADJACENT PROPERTY.*
6. *ALL FILL MATERIAL USED TO SUPPORT THE FOUNDATIONS OF ANY BUILDING OR STRUCTURE SHALL BE PLACED UNDER THE DIRECTION OF A LICENSED GEOTECHNICAL ENGINEER, AND IN COMPLIANCE WITH THE PROJECT SPECIFICATIONS. A SOILS COMPACTION REPORT SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AS REQUIRED BY THE PROJECT SPECIFICATIONS.*
7. *THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS REQUIRED BY THE PROJECT SPECIFICATIONS, AND BY GOVERNING PUBLIC AGENCIES.*
8. *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. IMPLEMENT BEST MANAGEMENT PRACTICES WITHIN PUBLIC RIGHT OF WAY PER LOCAL JURISDICTION REQUIREMENTS.*
9. *AS A FIRST ORDER OF WORK, THE CONTRACTOR SHALL POT HOLE THE EXISTING UTILITY LINES AT THE POINT OF CONNECTION TO VERIFY THE LOCATION, SIZE, PIPE MATERIAL AND ELEVATION SO THAT THE ENGINEER CAN MAKE ELEVATION AND/OR ALIGNMENT ADJUSTMENTS IF NECESSARY. SHOULD POT HOLING DISCOVER ANY DISCREPANCIES, CONTACT THE ENGINEER AND OBTAIN WRITTEN DIRECTION BEFORE PROCEEDING.*
10. *ADJUST UTILITY LIDS WITHIN NEW CONSTRUCTION AREA TO FINISHED GRADE PER DETAIL [E/CX1.1]. REPLACE ALL BROKEN LIDS WITH NEW. PROVIDE TRAFFIC RATED LIDS WITHIN VEHICLE LOADING AREAS.*
11. *WATER TEST PAVEMENT WITHIN NEW IMPROVEMENT AREA. REPLACE PAVEMENT WHERE BIRD BATHS OCCUR AFTER TEST AS DIRECTED BY THE INSPECTOR OR ENGINEER.*
12. *MINIMUM SLOPE ON IMPERVIOUS SURFACES PERPENDICULAR TO ADJACENT STRUCTURE(S), WITHIN ADA PATH, SHALL BE 1% MINIMUM AND 2% MAXIMUM. WHERE DOOR AND GATE LANDINGS OCCUR THE CROSS SLOPE SHALL BE 2% MAXIMUM IN ALL DIRECTIONS*

BENCHMARK:

1" BRASS CAP MONUMENT ON TOP OF CURB, SOUTH SIDE OF OLIVE AVENUE, 280' EAST OF THE CENTERLINE OF "P" STREET.

ELEV.= 263.43 U.S.G.S. DATUM

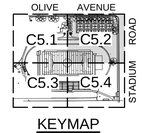
SITE BENCHMARK:

CHISELED "X" ON CONCRETE DRIVE NORTH OF THE SOFTBALL FIELDS APPROXIMATELY 113.50' SOUTHWEST OF THE SOUTHWESTERN CORNER, OF THE SNACK BAR BUILDING.

ELEV.= 263.70 U.S.G.S. DATUM

NAIL AND TIN IN ASPHALT ON THE WEST SIDE OF THE SECOND BASKETBALL COURT FROM THE EAST, APPROXIMATELY 10 FEET EAST OF THE WESTERN COURT STRIPE AND SOUTH OF THE CENTERLINE.

ELEV.= 265.25 U.S.G.S. DATUM



KEYMAP

SCALE: (N) 1"=20'

0 5 20 40
SCALE IN FEET

Know what's below. Call before you dig.

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

Blair, Church & Flynn
CONSULTING ENGINEERS

MADERA HIGH SCHOOL STADIUM

200 SOUTH L STREET
MADERA, CA 93637
PHASE 2 CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER
JEFFREY D. BRAND
No. 36,189
CIVIL
STATE OF CALIFORNIA

5/16/25
Date Signed:

PROJECT NUMBER	20-51
DATE	5/16/2025
DSA APPLICATION NO.	02-122784
FILE NO.	20-H3
PTN NO.	65243-154
DRAWN BY	DG

REVISIONS

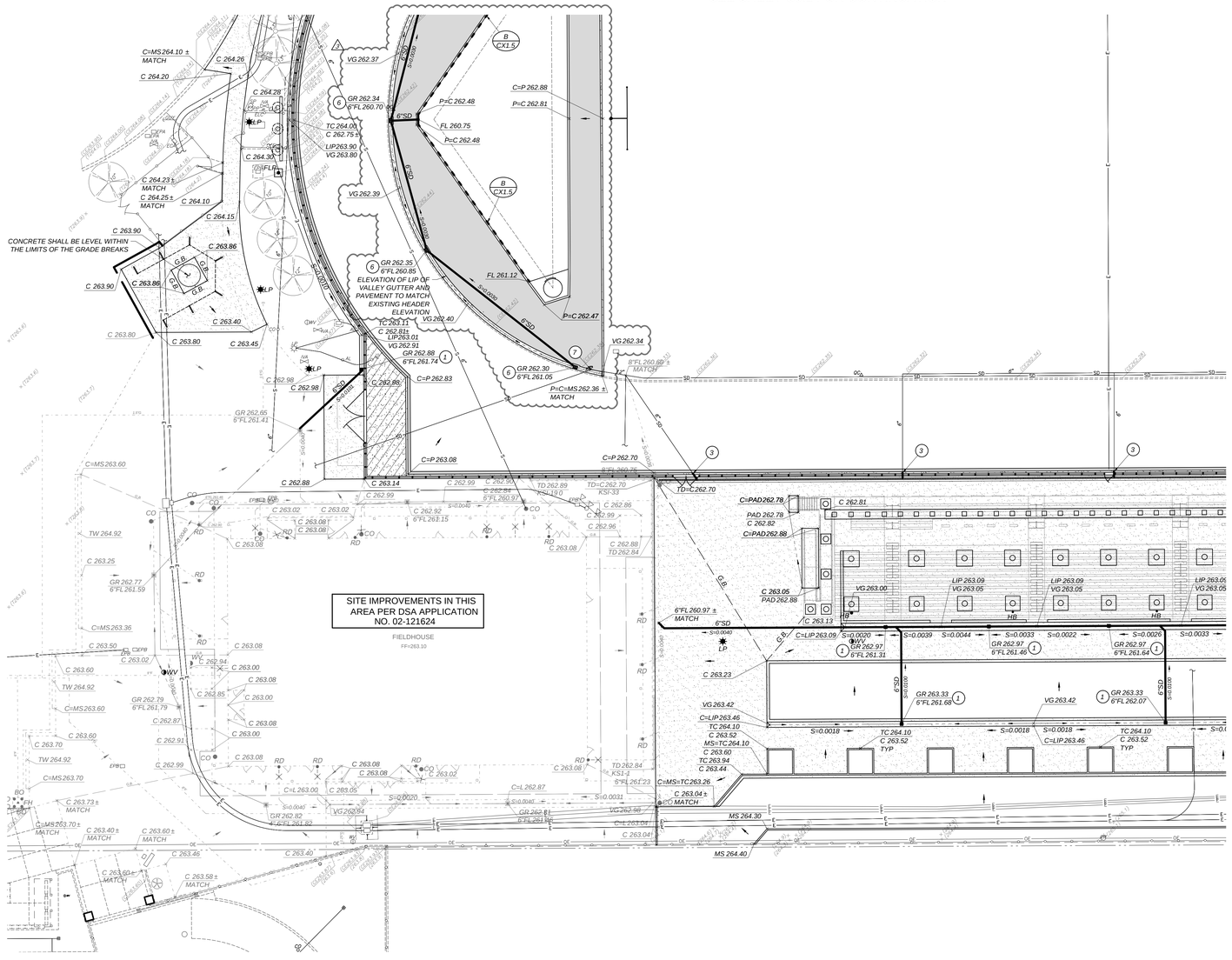
#	DESCRIPTION	DATE
1	ADDENDUM 3	8/27/25

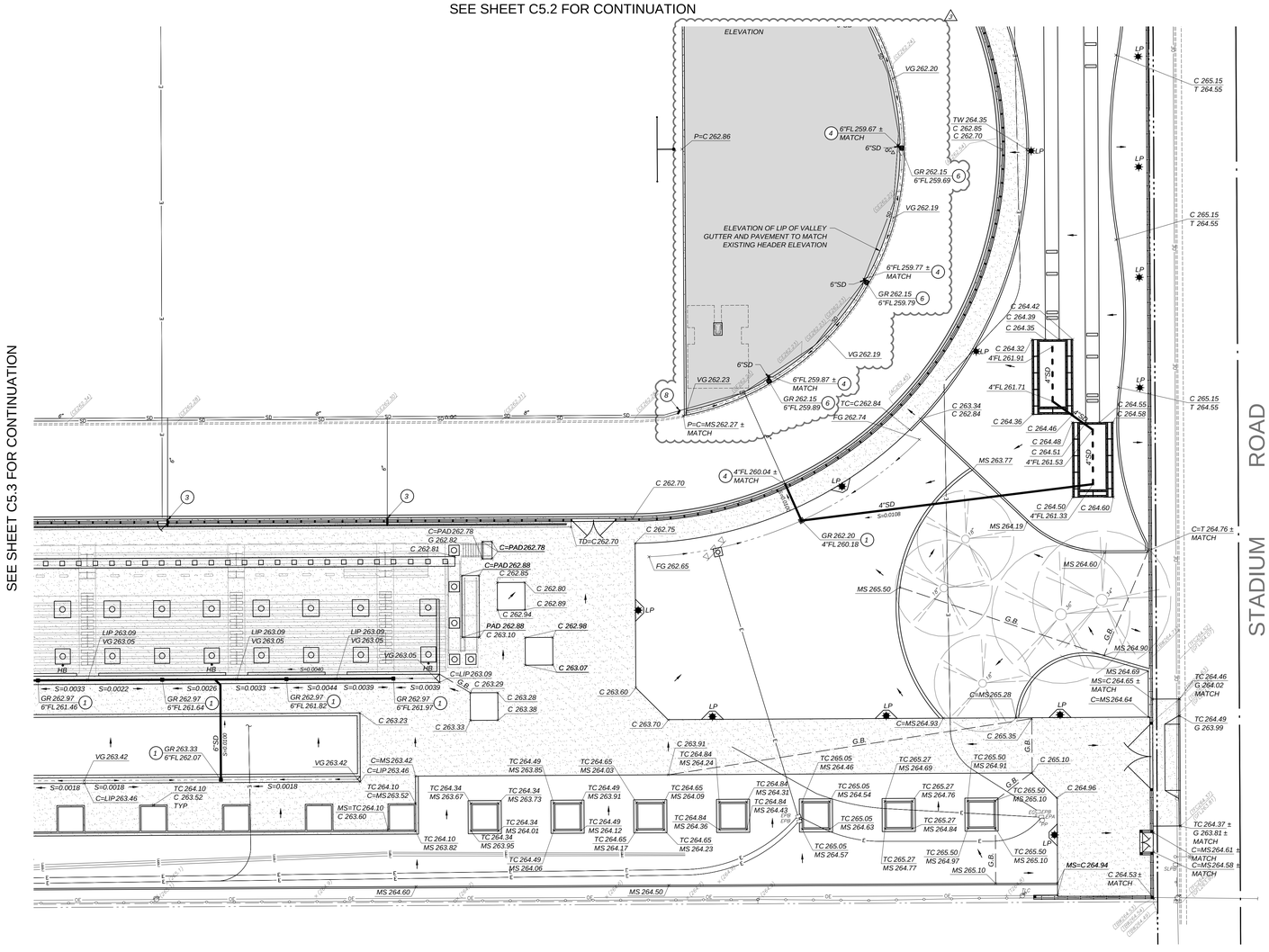
CONSTRUCTION DOCUMENTS

GRADING AND DRAINAGE PLAN

C5.2

Drawing: P:\2020\20-165\Stadium\Architectural\Drawings\20220_A0002.dwg, C5.2 — Plot By: bpoore Aug 27, 2025 - 3:30pm


SEE SHEET C5.1 FOR CONTINUATION
SEE SHEET C5.4 FOR CONTINUATION
SITE IMPROVEMENTS IN THIS AREA PER DSA APPLICATION NO. 02-121624
FIELDHOUSE
FF=263.10
CONCRETE SHALL BE LEVEL WITHIN THE LIMITS OF THE GRADE BREAKS
C=MS264.10 ± MATCH
C 264.26
C 264.20
C 264.28
C 264.30
C 264.23± MATCH
C 264.25± MATCH
C 264.10
C 264.15
C 263.90
C 263.86
C 263.80
C 263.40
C 263.45
C 262.98
C 262.86
C=P 263.83
C=MS263.60
C 262.88
C 263.14
C=P 263.08
C 262.99
C 263.02
C 263.08
C 262.92
C 262.96
C 262.88
C 263.25
C=MS263.36
C 263.50
C 263.60
C 262.85
C 262.87
C 262.91
C 263.70
C 263.73± MATCH
C=MS263.70 ± MATCH
C 263.40± MATCH
C 263.60± MATCH
C 263.46
C 263.40
C 263.60± MATCH
C 263.58± MATCH
C 263.04
C 263.41
C 263.44
C=MS=TC263.26
C 263.04 ± TC MATCH
C=L 263.00
C=L 262.87
C=L 263.04
C=L 263.01
S=0.0020
S=0.0040
S=0.0031
VG 262.94
VG 262.96
GR 262.65 6"FL 261.41
GR 262.77 6"FL 261.59
GR 262.79 6"FL 261.79
GR 262.82 6"FL 261.82
GR 262.34 6"FL 260.70
GR 262.35 6"FL 260.85
ELEVATION OF LIP OF VALLEY GUTTER AND PAVEMENT TO MATCH EXISTING HEADER ELEVATION
GR 262.88 6"FL 261.74
GR 262.30 6"FL 261.05
P=C=MS 262.36 ± MATCH
GR 262.92 6"FL 261.15
GR 262.97 6"FL 260.97
TC 264.01
C 262.75 ±
LIP 263.90
VG 263.80
VG 262.37
VG 263.39
VG 262.40
TC 263.11
C 262.81±
LIP 263.01
VG 262.91
VG 262.34
8"FL 260.60 ± MATCH
TD 262.89
KS1-19.0
TD=C 262.70
KS1-33
TD 262.84
KS1-1
6"FL 261.23
TD=C 262.70
C=P 262.70
6"FL 261.40
C=P 262.48
P=C 262.48
C=P 262.88
P=C 262.81
P=C 262.47
FL 260.75
FL 261.12
6"SD
S=0.0050
S=0.0100
S=0.0040
C=PAD 262.78
PAD 262.78
C 262.82
C=PAD 262.88
C 262.81
C 263.05
PAD 262.88
C 263.13
6"FL 260.97 ± MATCH
C=LIP 263.09
LIP 263.09
VG 263.00
LIP 263.09
VG 263.05
LIP 263.09
VG 263.06
LIP 263.05
VG 263.05
HB
S=0.0020
S=0.0039
S=0.0044
S=0.0033
S=0.0022
S=0.0026
S=0.0033
GR 262.97 6"FL 261.31
GR 262.97 6"FL 261.46
GR 262.97 6"FL 261.64
C 263.23
GR 263.33 6"FL 261.68
GR 263.33 6"FL 262.07
VG 263.42
C=LIP 263.46
TC 264.10
C 263.52
TYP
S=0.0018
MS=TC 264.10
C 263.60
TC 263.94
C 263.44
MS 264.30
MS 264.40
C 262.94
C 263.00
C 263.08
C 263.00
C 263.08
C 263.00
C 263.08
C 263.00
C 263.08
C 263.08
C 263.08



GRADING AND DRAINAGE LEGEND:

C	CONCRETE
FF	FINISHED FLOOR
FG	FINISHED GRADE
FL	FLOWLINE
GR	STORM DRAIN GRATE
LIP	LIP OF GUTTER
MATCH	MATCH TO EXISTING
MS	MOWSTRIP
P	PAVEMENT
PAD	CONCRETE BLEACHER PAD
T	SYNTHETIC TURF
TC	TOP OF CURB
TD	TRENCH DRAIN
TW	TOP OF WALL
TYP	TYPICAL
VG	VALLEY GUTTER FLOWLINE
(344.9)	EXISTING ELEVATION
328.78	NEW FINISHED GRADE
	GRADES FROM DSA APPLICATION 02-121624, FIELD VERIFY
	DIRECTION OF SURFACE DRAINAGE
G.B.	GRADE BREAK
S=0.0050	PIPE SLOPE AND DIRECTION OF FLOW
	SWALE AND DIRECTION OF FLOW
	LIMITS OF GRADING
	LIMITS OF OVER-EXCAVATION PER DETAIL [N/CX1.1]
1	V12 STORM DRAIN INLET PER DETAIL [H/CX1.1]
2	CDS PRE-TREATMENT SYSTEM PER DETAIL [F/ CX1.7]
3	CONNECT CHANNEL DRAIN TO EXISTING STORM DRAIN WITH WATER-TIGHT CONNECTION
4	CONNECT TO EXISTING STORM DRAIN WITH WATER-TIGHT CONNECTION
5	STORM WATER DETENTION SYSTEM PER DETAIL [A-D/CX1.6]
6	V09 STORM DRAIN INLET PER DETAIL [A/C5.1]
7	CAP END OF UTILITY LINE
8	CONNECT EXISTING PERFORATED STORM DRAIN LINE TO EXISTING SOLID STORM DRAIN LINE
	TRENCH DRAIN PER DETAIL [B/CX1.3]
D	STORM DRAIN MANHOLE PER DETAIL [C/CX1.3]
CO	SURFACE CLEANOUT PER DETAIL [F/CX1.1]
RD	ROOF DRAIN, SEE PLUMBING PLANS
SD	STORM DRAIN PIPELINE; SIZE AS NOTED. TRENCH AND BACKFILL PER DETAIL [D/CX1.1]
6"SD	PERFORATED STORM DRAIN PIPELINE; SIZE AS NOTED. TRENCH AND BACKFILL PER DETAIL [E/CX1.4]
S=0.0020	FLOWLINE SLOPE AND DIRECTION OF FLOW

GENERAL GRADING AND DRAINAGE NOTES:

THE REQUIREMENTS AND INFORMATION SET OUT BELOW ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT ENCOMPASS ALL PROJECT REQUIREMENTS DESCRIBED BY THE PROJECT PLANS AND SPECIFICATIONS AND/OR APPLICABLE LAWS, REGULATIONS AND/OR BUILDING CODES.

1. *CONSTRUCTION OF ALL PROJECT SITE IMPROVEMENTS SUBJECT TO ADA ACCESS COMPLIANCE, INCLUDING ACCESSIBLE PATH OF TRAVEL, CURB RETURNS, PARKING STALL(S) AND UNLOADING AREAS, BARRIER FREE AMENITIES AND/OR OTHER APPLICABLE SITE IMPROVEMENTS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT, CALIFORNIA TITLE 24, THE CALIFORNIA BUILDING CODE, CURRENT EDITION(S).*
2. *CONTRACTOR SHALL FIELD VERIFY ALL GRADES AND SLOPES PRIOR TO THE PLACEMENT OF CONCRETE AND/OR PAVEMENT FOR CONFORMANCE WITH ADA ACCESS COMPLIANCE REQUIREMENTS. EXAMPLES OF MINIMUM AND MAXIMUM LIMITS RELATED TO ADA ACCESS COMPLIANCE INCLUDE, BUT ARE NOT LIMITED TO:*
   - *a) ACCESSIBLE PATH OF TRAVEL CROSS-SLOPE SHALL NOT EXCEED 2%*
   - *b) ACCESSIBLE PATH OF TRAVEL LONGITUDINAL SLOPES SHALL NOT EXCEED 5%*
   - *c) RAMP LONGITUDINAL SLOPES SHALL NOT EXCEED 8.33%*
   - *d) ACCESSIBLE WALKS SHALL NOT HAVE LESS THAN 48 INCHES IN UNOBSTRUCTED WIDTH*
   - *e) ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION*
   - *f) LANDINGS AT THE TOP AND BOTTOM OF ACCESSIBLE RAMPS SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION*
   - *g) GUTTERS AND ROAD SURFACES DIRECTLY ADJACENT TO AND WITHIN 2 FEET OF A CURB RAMP SHALL HAVE A COUNTER SLOPE NOT TO EXCEED 5%*
3. *CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IDENTIFIED BY THE PROFESSIONAL ENGINEERING SEAL AND SIGNATURE ON THESE PLANS, OF ANY SITE CONDITION(S) AND/OR DESIGN INFORMATION THAT PREVENTS THE CONTRACTOR FROM COMPLYING WITH THE LAWS, REGULATIONS AND/OR BUILDING CODES GOVERNING ADA ACCESS COMPLIANCE.*
4. *GROUND SLOPES AWAY FROM BUILDING PADS IN LANDSCAPED OR DIRT AREAS SHALL BE NO LESS THAN 5% FOR AT LEAST TEN (10) FEET, OR AS OTHERWISE NOTED ON THE PLANS.*
5. *DRAINAGE SHALL NOT BE ALLOWED ONTO ADJACENT PROPERTY.*
6. *ALL FILL MATERIAL USED TO SUPPORT THE FOUNDATIONS OF ANY BUILDING OR STRUCTURE SHALL BE PLACED UNDER THE DIRECTION OF A LICENSED GEOTECHNICAL ENGINEER, AND IN COMPLIANCE WITH THE PROJECT SPECIFICATIONS. A SOILS COMPACTION REPORT SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AS REQUIRED BY THE PROJECT SPECIFICATIONS.*
7. *THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS REQUIRED BY THE PROJECT SPECIFICATIONS, AND BY GOVERNING PUBLIC AGENCIES.*
8. *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. IMPLEMENT BEST MANAGEMENT PRACTICES WITHIN PUBLIC RIGHT OF WAY PER LOCAL JURISDICTION REQUIREMENTS.*
9. *AS A FIRST ORDER OF WORK, THE CONTRACTOR SHALL POT HOLE THE EXISTING UTILITY LINES AT THE POINT OF CONNECTION TO VERIFY THE LOCATION, SIZE, PIPE MATERIAL AND ELEVATION SO THAT THE ENGINEER CAN MAKE ELEVATION AND/OR ALIGNMENT ADJUSTMENTS IF NECESSARY. SHOULD POT HOLING DISCOVER ANY DISCREPANCIES, CONTACT THE ENGINEER AND OBTAIN WRITTEN DIRECTION BEFORE PROCEEDING.*
10. *ADJUST UTILITY LIDS WITHIN NEW CONSTRUCTION AREA TO FINISHED GRADE PER DETAIL [E/CX1.1]. REPLACE ALL BROKEN LIDS WITH NEW. PROVIDE TRAFFIC RATED LIDS WITHIN VEHICLE LOADING AREAS.*
11. *WATER TEST PAVEMENT WITHIN NEW IMPROVEMENT AREA. REPLACE PAVEMENT WHERE BIRD BATHS OCCUR AFTER TEST AS DIRECTED BY THE INSPECTOR OR ENGINEER.*
12. *MINIMUM SLOPE ON IMPERVIOUS SURFACES PERPENDICULAR TO ADJACENT STRUCTURE(S), WITHIN ADA PATH, SHALL BE 1% MINIMUM AND 2% MAXIMUM. WHERE DOOR AND GATE LANDINGS OCCUR THE CROSS SLOPE SHALL BE 2% MAXIMUM IN ALL DIRECTIONS*

BENCHMARK:

1" BRASS CAP MONUMENT ON TOP OF CURB, SOUTH SIDE OF OLIVE AVENUE, 280' EAST OF THE CENTERLINE OF "P" STREET.

ELEV.= 263.43 U.S.G.S. DATUM

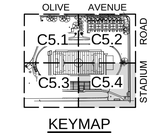
SITE BENCHMARK:

CHISELED "X" ON CONCRETE DRIVE NORTH OF THE SOFTBALL FIELDS APPROXIMATELY 113.50' SOUTHWEST OF THE SOUTHWESTERN CORNER, OF THE SNACK BAR BUILDING.

ELEV.= 263.70 U.S.G.S. DATUM

NAIL AND TIN IN ASPHALT ON THE WEST SIDE OF THE SECOND BASKETBALL COURT FROM THE EAST, APPROXIMATELY 10 FEET EAST OF THE WESTERN COURT STRIPE AND SOUTH OF THE CENTERLINE.

ELEV.= 265.25 U.S.G.S. DATUM



KEYMAP

SCALE: N 1"=20'

0 5 20 40
SCALE IN FEET

811 Know what's below. Call before you dig.

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

Blair, Church & Flynn
CONSULTING ENGINEERS

MADERA HIGH SCHOOL STADIUM

200 SOUTH L STREET
MADERA, CA 93637
PHASE 2 CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER
JEFFREY D. BRAND
No. 36,182
CIVIL
STATE OF CALIFORNIA

5/16/25
Date Signed:

PROJECT NUMBER	20-51
DATE	5/16/2025
DSA APPLICATION NO.	02-122784
FILE NO.	20-H3
PTN NO.	65243-154
DRAWN BY	DG

REVISIONS

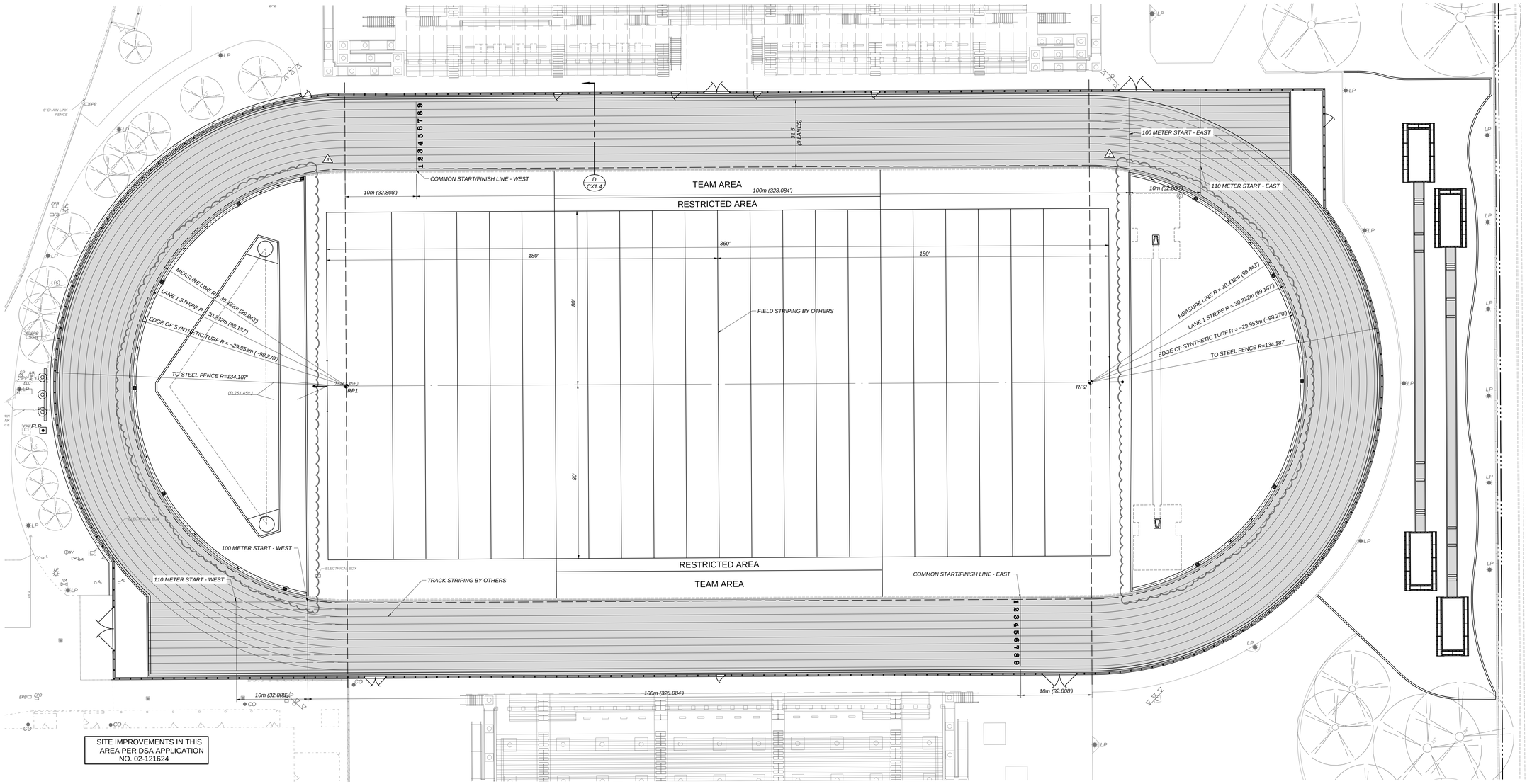
#	DESCRIPTION	DATE
1	ADDENDUM 3	8/27/25

CONSTRUCTION DOCUMENTS

GRADING AND DRAINAGE PLAN

C5.4

Drawing: P:\22\22513\053\Bid\productionset\drawings\22253_GR01.dwg, C5.4 — Plot By: bpeone Aug 27, 2025 - 3:51pm

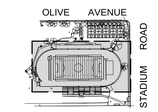


TRACK LAYOUT LEGEND:

TRACK SURFACING BY OWNER

TRACK GENERAL NOTES:

1. TRACK AND FIELD STRIPING AND TRACK EVENT MONUMENTATION ARE SHOWN ON THIS SHEET FOR REFERENCE ONLY AND ARE TO BE COMPLETED BY OWNER'S SEPARATE CONTRACTOR (NOT PART OF THIS CONTRACT).
2. THE OWNER'S TRACK SURFACING CONTRACTOR IS RESPONSIBLE FOR THE CALCULATION, LAYOUT AND PAINTING OF ALL RACE MONUMENTATION POINTS BASED ON THE SPECIFIC DIMENSIONAL CHARACTERISTICS OF THIS TRACK. SPECIFIC MONUMENTATION REQUIREMENTS AND LIST OF RACES TO BE MARKED SHALL COMPLY WITH NFHS STANDARDS.
3. TRACK STRIPING SHALL BE 2 INCHES WIDE UNLESS NOTED OTHERWISE.
4. TRACK SURFACING AND STRIPING SHALL BE PROVIDED UNDER A SEPARATE CONTRACT WITH THE OWNER.
5. THE SITE CONTRACTOR SHALL COORDINATE WITH THE TRACK SURFACING CONTRACTOR.
6. THE TRACK SURFACING CONTRACTOR SHALL REVIEW AND ACCEPT THE AC PAVEMENT AND CONCRETE SURFACES RECEIVING TRACK SURFACING PRIOR TO THE START OF SURFACING INSTALLATION.
7. THE SITE CONTRACTOR SHALL PROVIDE A WATER TRUCK , 10' STRAIGHT EDGE OR OTHER ACCESSORIES OR EQUIPMENT NECESSARY FOR THE TRACK SURFACING CONTRACTOR TO PERFORM THEIR REVIEW.
8. SEE DETAIL [D/CX1.4] FOR TRACK LANE LAYOUT.
9. SITE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS OR ADJUSTMENTS TO THE AC PAVEMENT AS A RESULT OF THE TRACK SURFACING CONTRACTOR'S REVIEW.



KEYMAP

SCALE: N 1"=20'

0 5 20 40
SCALE IN FEET

811
Know what's below.
Call before you dig.

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

Blair, Church & Flynn
CONSULTING ENGINEERS

MADERA HIGH SCHOOL STADIUM

200 SOUTH L STREET
MADERA, CA 93637
PHASE 2 CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER
JEFFREY D. BRIANS
No. 36,185
CIVIL
STATE OF CALIFORNIA

5/16/25
Date Signed:

PROJECT NUMBER	20-51
DATE	5/16/2025
DSA APPLICATION NO.	02-122784
FILE NO.	20-H3
PTN NO.	65243-154
DRAWN BY	DG

REVISIONS

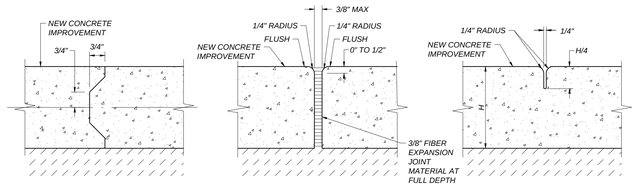
#	DESCRIPTION	DATE
3	ADDENDUM 3	8/27/25

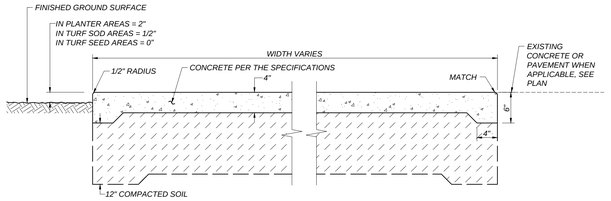
CONSTRUCTION DOCUMENTS

TRACK AND FIELD STRIPING PLAN

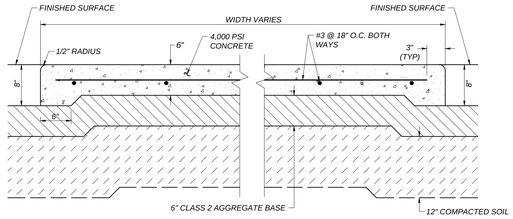
C7.1

Drawing: P:\22\22-02\52\Bim\Autodesk\design\22252_STR02.rvtx, C7.1 — Plot By: Dejanne Aug 27, 2025 - 8:12pm





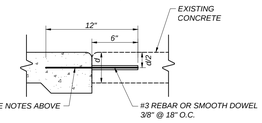
A CX1.1 REGULAR-DUTY CONCRETE
NOT TO SCALE



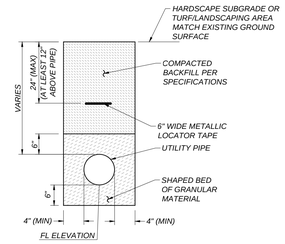
B CX1.1 HEAVY-DUTY CONCRETE
NOT TO SCALE

NOTES:

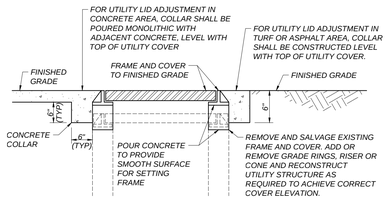
1. DRILL HOLE 1/8" LARGER THAN DOWEL DIAMETER.
2. CLEAN HOLE THOROUGHLY OF DUST AND FRAGMENTS WITH WATER, WIRE BRUSH, AND AIR.
3. FILL HOLE WITH APPROVED ADHESIVE BEFORE INSERTING DOWEL INTO EXISTING CONCRETE.
4. WHERE SMOOTH DOWEL IS USED, APPLY BOND BREAKER TO SIDE IN NEW CONCRETE AS REQUIRED TO ALLOW HORIZONTAL MOVEMENT OF CONCRETE.
5. WHERE DEFORMED REBAR DOWEL IS USED, PROVIDE APPROVED WRAP ON SIDE IN NEW CONCRETE AS REQUIRED TO ALLOW HORIZONTAL MOVEMENT OF CONCRETE.
6. ANCHOR TESTING NOT REQUIRED



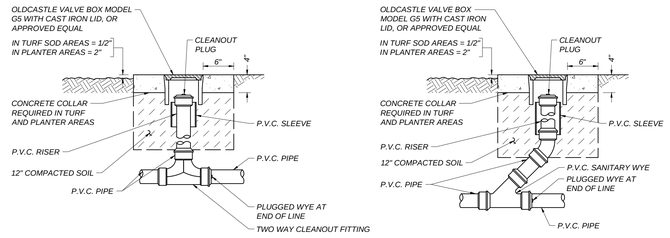
C CX1.1 DOWEL BAR
NOT TO SCALE



D CX1.1 TRENCH DETAIL FOR UTILITY LINES
NOT TO SCALE



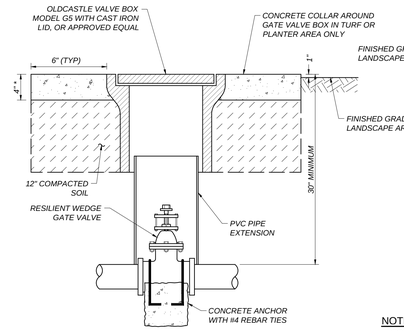
E CX1.1 ADJUST UTILITY LID
NOT TO SCALE



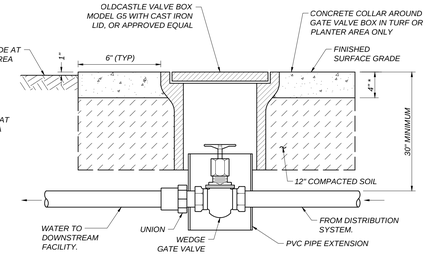
NOTES:

1. USE ONE-WAY CLEANOUTS AT ALL ANGLE POINTS
2. TWO-WAY CLEANOUTS AT ALL OTHER LOCATIONS
3. 6" THICK CONCRETE COLLAR IN VEHICULAR TRAFFIC AREAS

F CX1.1 SURFACE CLEANOUT
NOT TO SCALE



2-1/2" AND LARGER

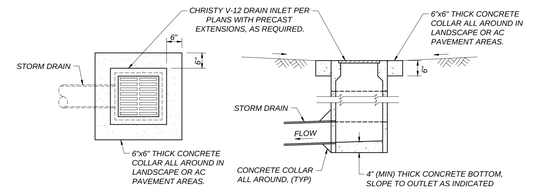


2" AND SMALLER

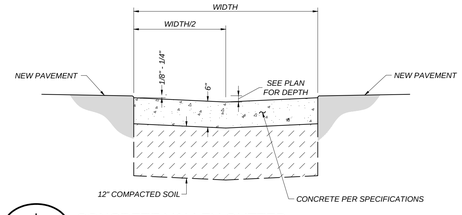
NOTE:

* COLLAR TO BE 6" THICK IN VEHICULAR TRAFFIC AREAS

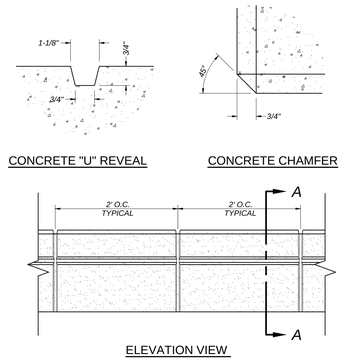
G CX1.1 GATE VALVE AND LID
NOT TO SCALE



H CX1.1 V-12 DRAIN INLET WITH CONCRETE COLLAR
NOT TO SCALE

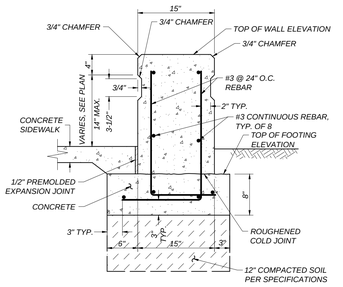


I CX1.1 CONCRETE VALLEY GUTTER
NOT TO SCALE



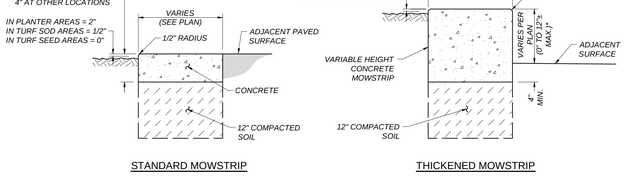
NOTES:

1. REVEALS OCCUR AT BOTH SIDES OF WALL WHERE CONCRETE IS EXPOSED ON BOTH SIDES.

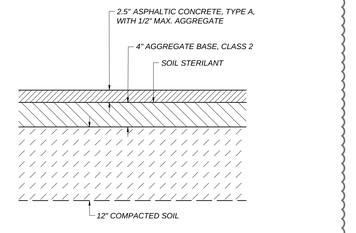


SECTION A-A

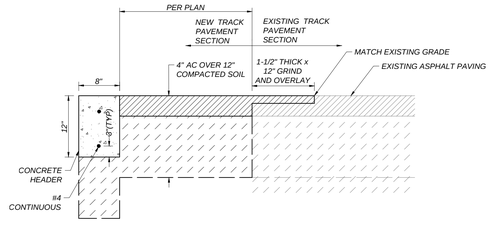
J CX1.1 SEAT WALL
NOT TO SCALE



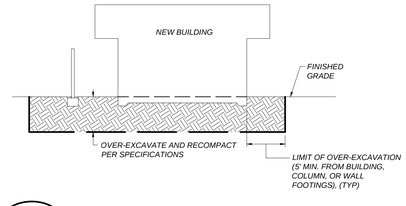
K CX1.1 CONCRETE MOWSTRIP
NOT TO SCALE



L CX1.1 ASPHALT PAVEMENT SECTION
NOT TO SCALE



M CX1.1 TRACK PAVING SECTION JOINT AND HEADER
NOT TO SCALE



N CX1.1 OVER-EXCAVATION
NOT TO SCALE

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

Blair, Church & Flynn
CONSULTING ENGINEERS

MADERA HIGH SCHOOL STADIUM

200 SOUTH L STREET
MADERA, CA 93637
PHASE 2 CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER
JEFFREY D. BRYANT
No. 36182
CIVIL
STATE OF CALIFORNIA

5/16/25
Date Signed:

PROJECT NUMBER	20-51
DATE	5/16/2025
DSA APPLICATION NO.	02-122784
FILE NO.	20-H3
PTN NO.	65243-154
DRAWN BY	DG

REVISIONS

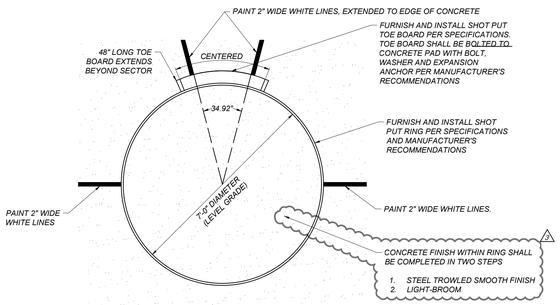
#	DESCRIPTION	DATE
3	ADDENDUM 3	9/27/25

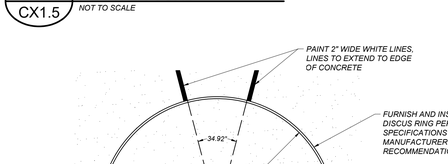
CONSTRUCTION DOCUMENTS

DETAILS

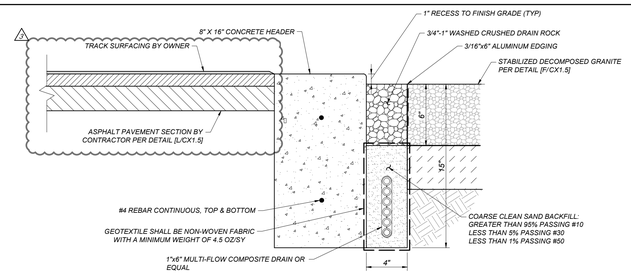
CX1.1

Drawing: P:\22\22-22\SD\plans\details\drawings\22222_DTL2.dwg, CX1.1 — Plotted: Monday, August 07, 2023 - 3:32pm

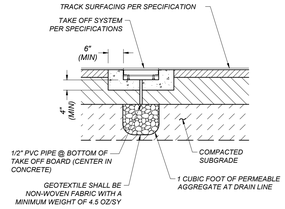




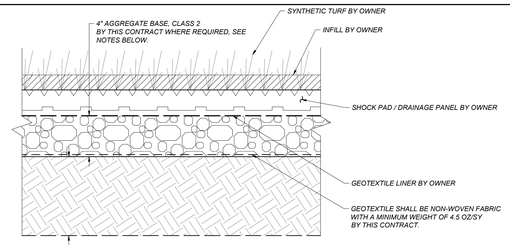
A CX1.5 SHOT PUT RING AND CONCRETE PAD
NOT TO SCALE



B CX1.5 MULTI-FLOW COMPOSITE DRAIN AT SHOTPUT HEADER
NOT TO SCALE



C CX1.5 TAKE-OFF BOARD
NOT TO SCALE

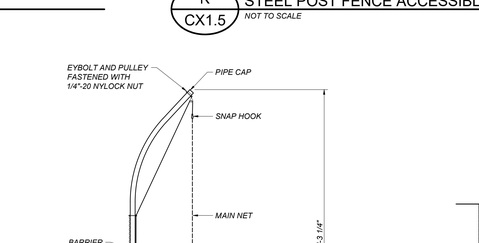


NOTES:
1. THIS DETAIL APPLIES WHERE NON-TURF IMPROVEMENTS ARE BEING REMOVED AND REPLACED WITH SYNTHETIC TURF. AT THESE LOCATIONS, ALL WORK INDICATED, EXCEPT THE TURF, SHALL BE BY THIS CONTRACT. SYNTHETIC TURF AND GEOTEXTILE LINER WILL BE BY OWNER'S TURF CONTRACTOR.
2. WHERE THE EXISTING SYNTHETIC TURF SURFACING IS BEING REPLACED, NO REPLACEMENT OF THE SHOCK PAD, GEOTEXTILES AND/OR SUBGRADE IS PART OF THE WORK UNLESS ASSESSED AS DEFECTIVE OR DAMAGED.

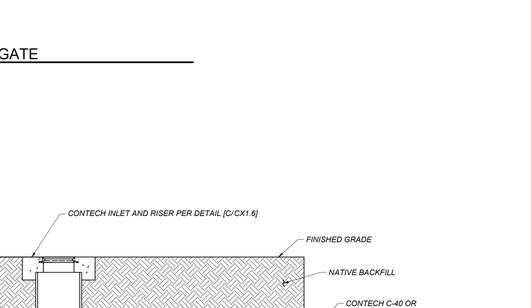
D CX1.5 SYNTHETIC TURF SURFACING - TYPE 'A'
NOT TO SCALE

LEGEND
1. STABILIZED DECOMPOSED GRANITE SURFACE. SEE SPECIFICATIONS FOR MATERIALS AND METHODS. CONTRACTOR TO SUBMIT SAMPLE FOR APPROVAL.
2. 3/4" MAX TYPE 2 AGGREGATE BASE, COMPACTED TO 95%.
3. CONCRETE HEADER PER DETAIL [B/CX1.5].
4. NON-WOVEN GEOTEXTILE FABRIC, MINIMUM 4.0 OZ/SY. WRAP UP 1.5" HIGH ON ALL SIDES OF HEADER.
5. SUBGRADE. SCARIFY TO A DEPTH OF 12" MOISTURE CONDITION AND RECOMPACT TO 95% RELATIVE DENSITY.

F CX1.5 STABILIZED DECOMPOSED GRANITE SURFACE
NOT TO SCALE

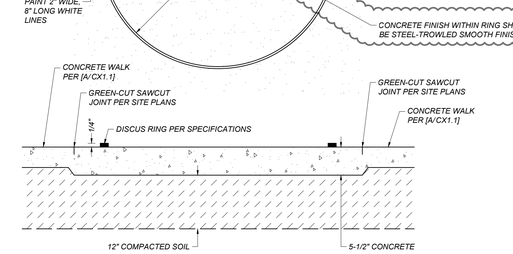


G CX1.5 SYNTHETIC TURF SURFACING - TYPE 'B'
NOT TO SCALE



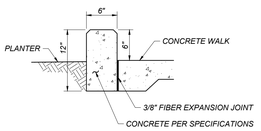
NOTES:
1. THIS CONTRACT SHALL PROVIDE THE COMPACTED SUBGRADE, GEOTEXTILE SEPARATION FABRIC AND THE COMPACTED AGGREGATE BASE.
2. THE OWNER'S SYNTHETIC TURF CONTRACTOR (STC) SHALL REVIEW THE COMPACTED AGGREGATE BASE FOR ACCEPTANCE, AND SHALL PROVIDE THE IMPERMEABLE LINER, SHOCK PAD AND SYNTHETIC TURF SYSTEM.
3. COORDINATE ALL WORK WITH THE OWNER'S SYNTHETIC TURF CONTRACTOR

H CX1.5 SYNTHETIC TURF SURFACING - TYPE 'B' AT HEADER
NOT TO SCALE

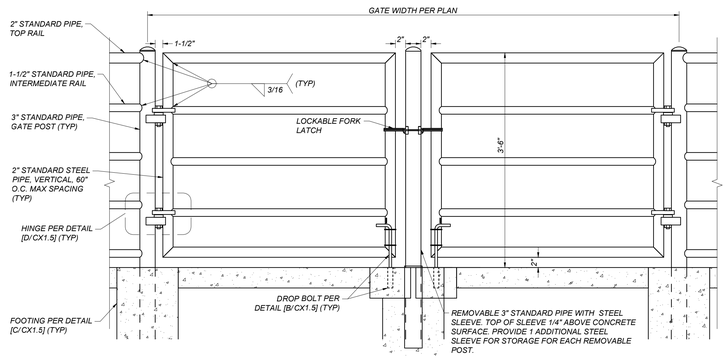


NOTES:
1. THE GENERAL CONTRACTOR (GC) SHALL PROVIDE THE COMPACTED SUBGRADE, GEOTEXTILE SEPARATION FABRIC AND THE COMPACTED AGGREGATE BASE.
2. THE OWNER'S SYNTHETIC TURF CONTRACTOR (STC) SHALL REVIEW THE COMPACTED AGGREGATE BASE FOR ACCEPTANCE, AND SHALL PROVIDE THE IMPERMEABLE LINER, NAILER, SHOCK PAD AND SYNTHETIC TURF SYSTEM.

E CX1.5 SYNTHETIC TURF SURFACING - TYPE 'A' AT NEW CONCRETE
NOT TO SCALE

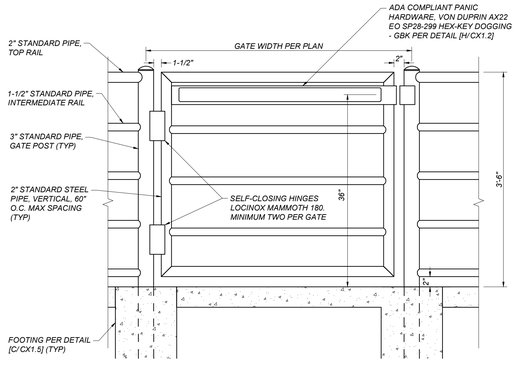


I CX1.5 PLANTER CURB
NOT TO SCALE

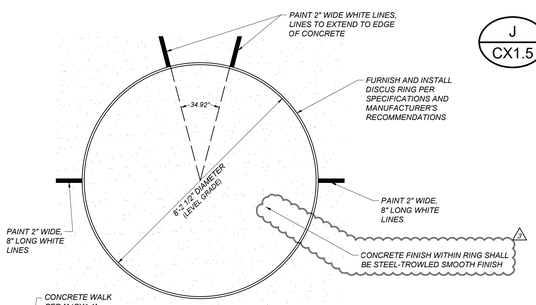


DOUBLE LEAF GATE

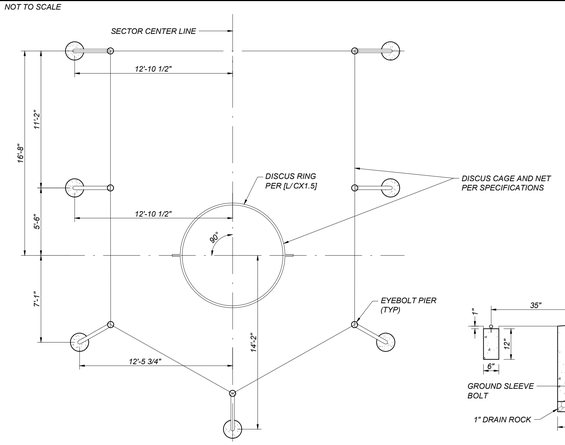
J CX1.5 STEEL POST FENCE DOUBLE GATE
NOT TO SCALE



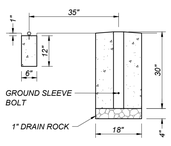
K CX1.5 STEEL POST FENCE ACCESSIBLE GATE
NOT TO SCALE



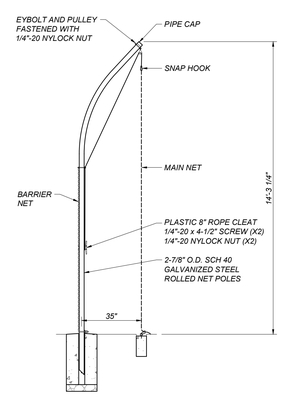
L CX1.5 DISCUS RING AND CONCRETE PAD
NOT TO SCALE



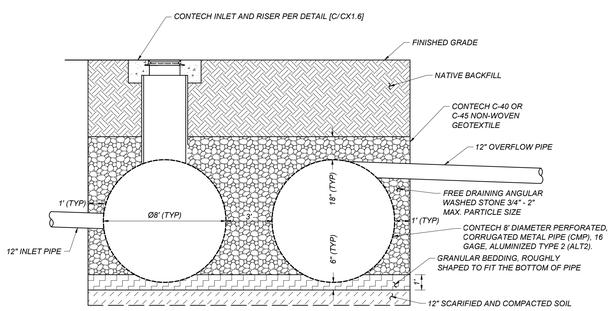
M CX1.5 DISCUS CAGE DETAIL (GILL 8020)
NOT TO SCALE



FOOTINGS DETAIL



DISCUS CAGE POST INSTALLATION



N CX1.5 CONTECH CORRUGATED RETENTION PIPE SECTION VIEW
NOT TO SCALE

PBK

ARCHITECT PBK Architects, Inc.
FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

Blair, Church & Flynn
CONSULTING ENGINEERS

MADERA HIGH SCHOOL STADIUM
200 SOUTH L STREET
MADERA, CA 93637
PHASE 2 CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL
REGISTERED PROFESSIONAL ENGINEER JEFFREY D. GRAVES No. 36,185 CIVIL
5/16/25
Date Signed:

PROJECT NUMBER 20-51
DATE 5/16/2025
DSA APPLICATION NO. 02-122784
FILE NO. 20-H3
PTN NO. 65243-154
DRAWN BY DG

REVISIONS

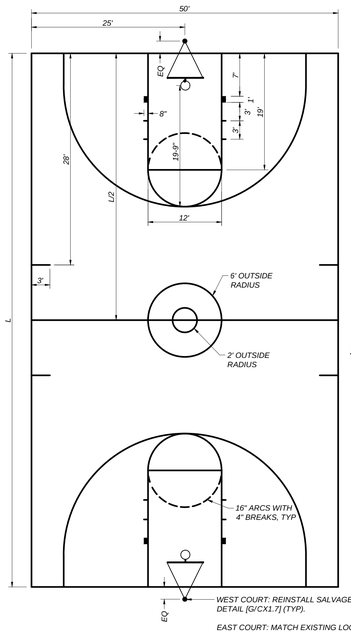
#	DESCRIPTION	DATE
1	ADDENDUM 3	8/27/25

CONSTRUCTION DOCUMENTS

DETAILS

CX1.5

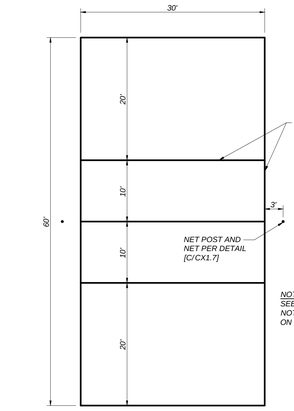
Drawing: P:\2020\20-H3\03Design\publish\drawings\20-H3_CX1.5.dwg, CX1.5 — Plotted: Monday, Aug 04, 2025 - 8:30am



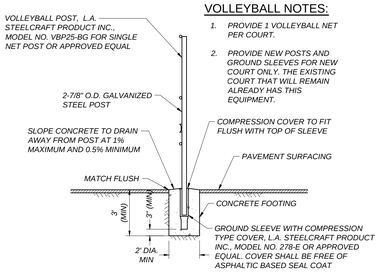
A CX1.7 BASKETBALL COURT
NOT TO SCALE

PLAYCOURT NOTES:

1. *ALL COURT LINES ARE TO BE 2" IN WIDTH.*
2. *BASKETBALL COURTS SHALL BE STRIPED YELLOW, VOLLEYBALL COURTS SHALL BE STRIPED ORANGE.*
3. *ALL GAME COURT DIMENSIONS ARE TO THE INSIDE OF COURT LINES, WITH THE EXCEPTION OF THE CENTERLINES.*
4. *CONTRACTOR IS RESPONSIBLE FOR GAME COURT LAYOUTS AND LOCATING POSTS, AS NEEDED.*



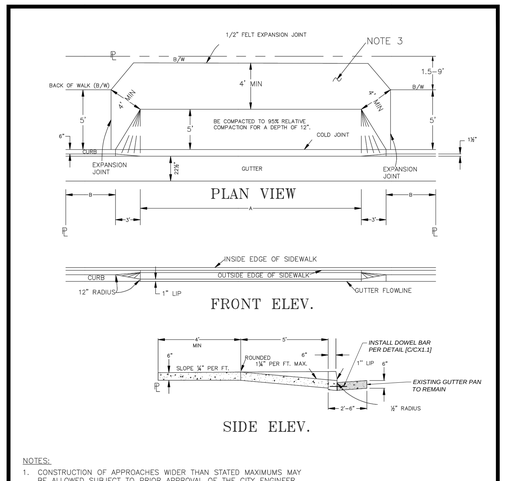
B CX1.7 VOLLEYBALL COURT
NOT TO SCALE



VOLLEYBALL NOTES:

1. *PROVIDE 1 VOLLEYBALL NET PER COURT.*
2. *PROVIDE NEW POSTS AND GROUND SLEEVES FOR NEW COURT ONLY. THE EXISTING COURT THAT WILL REMAIN ALREADY HAS THIS EQUIPMENT.*

C CX1.7 VOLLEYBALL POST
NOT TO SCALE



NOTES:

1. CONSTRUCTION OF APPROACHES WIDER THAN STATED MAXIMUMS MAY BE ALLOWED SUBJECT TO PRIOR APPROVAL OF THE CITY ENGINEER.
2. IN MOST CASES, SIDEWALKS ARE TO BE CONSTRUCTED CONTIGUOUS TO CURB.
3. EASEMENT MAY BE REQUIRED TO ALLOW FOR MINIMUM 4' WIDE SIDEWALK.
4. SUB-GRADE UNDER SIDEWALK SHALL HAVE A RELATIVE COMPACITON RATE OF 90%.
5. SUB-GRADE UNDER CURB & GUTTER SHALL HAVE A RELATIVE COMPACTION RATE OF 95%.

** NON-PIGMENTED HUNTS PROCESS CURING COMPOUND (OR EQUAL) TO BE EMPLOYED ON ALL SIDEWALK SURFACE AFTER POURING.

TYPE PROPERTY	"A" , MAX.	(NOTE 1) "A", WITH APPROVAL ONLY	"B"
RESIDENTIAL	1 – 25', OR 2 TOTALING 30' IF FRONTAGE EXCEEDS 75'	MAX. 1, 40% OF FRONTAGE, UP TO 50'	3'
COMMERCIAL	35' MAX. EA., NOT MORE THAN 50% OF FRONTAGE SHALL BE DRIVEWAYS	70' MAX. EA., NOT MORE THAN 50% OF FRONTAGE SHALL BE DRIVEWAYS	5'
INDUSTRIAL	50' MAX. EA., NOT MORE THAN 50% OF FRONTAGE SHALL BE DRIVEWAYS	70' MAX. EA., NOT MORE THAN 50% OF FRONTAGE SHALL BE DRIVEWAYS	5'

STREET R/W	CURB FACE TO P/L
NEW 100'	10'
OLD 100'	14'
NEW 80'	10'
60' (OLDER)	12'
60' (NEWER)	10'

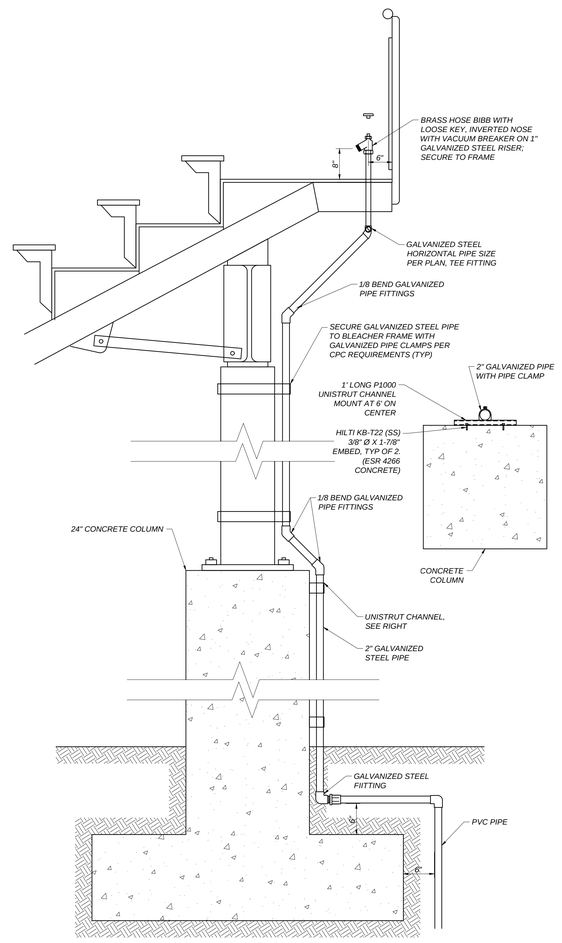
SIDEWALK AND APPROACH DETAIL –2

REF. & REV. AUG. 2008

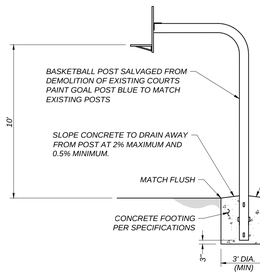
CITY OF MADERA

ST–13B

D CX1.7 SIDEWALK AND DRIVE APPROACH
NOT TO SCALE



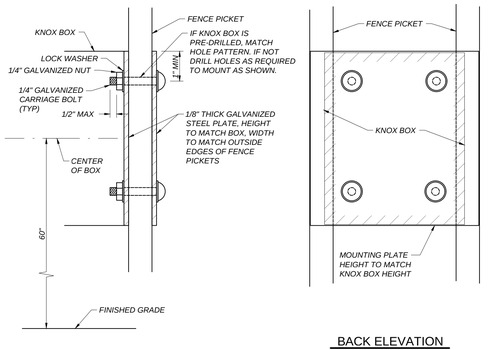
E CX1.7 HOSE BIBB AT BLEACHER
NOT TO SCALE



NOTES:

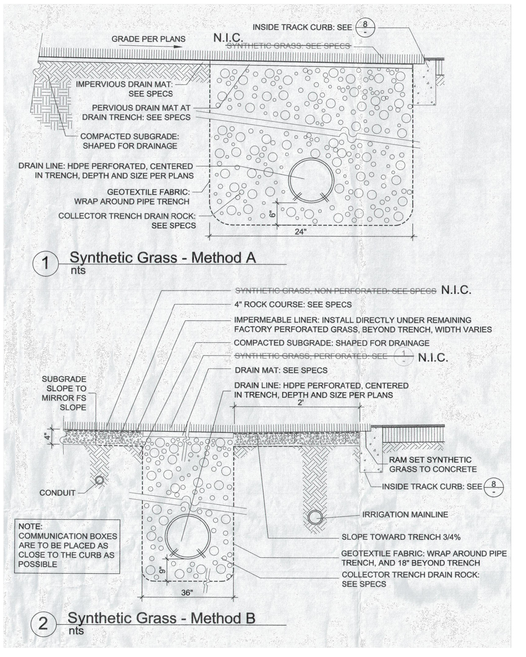
1. *AFTER EXISTING GOAL IS REMOVED, REMOVE LOOSE SOILS FROM HOLE AND BACKFILL TO PAVEMENT SUBGRADE PER SPECIFICATIONS. AFTER PAVING, CUT HOLE IN PAVMENT AND DRILL AND CONSTRUCT NEW FOOTING.*

G CX1.7 BASKETBALL SINGLE BACKBOARDS
NOT TO SCALE

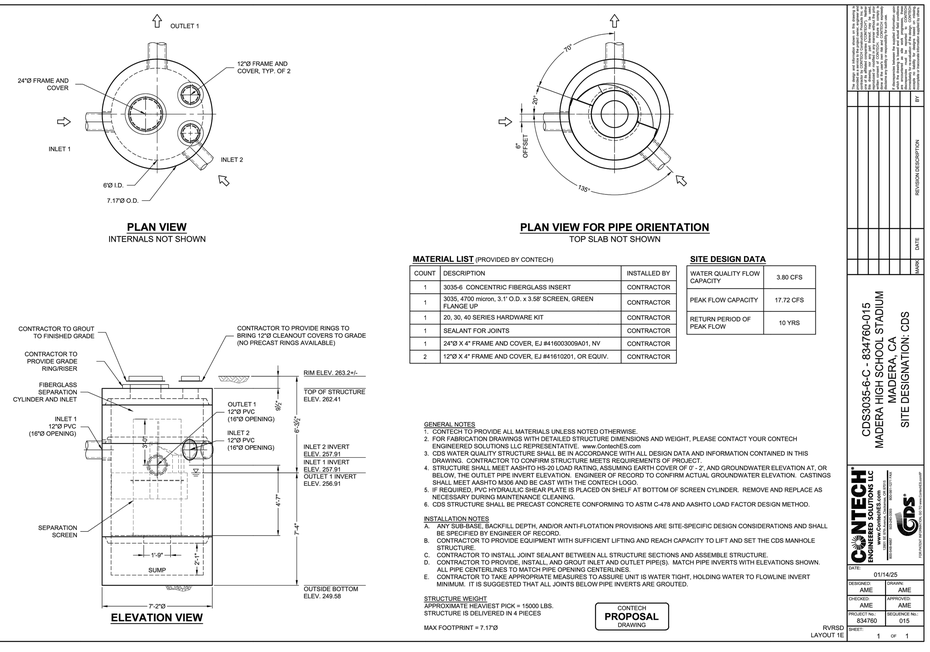


BACK ELEVATION

H CX1.7 KNOX BOX MOUNTING DETAIL
NOT TO SCALE



I CX1.7 EXISTING PERFORATED STORM DRAIN PIPE
NOT TO SCALE



MATERIAL LIST (PROVIDED BY CONTECH)

COUNT	DESCRIPTION	INSTALLED BY
1	3035-6 CONCENTRIC FIBERGLASS INSERT	CONTRACTOR
1	3035, 4700 micron, 3.1' O.D. x 3.58' SCREEN, GREEN FLANGE UP	CONTRACTOR
1	20, 30, 40 SERIES HARDWARE KIT	CONTRACTOR
1	SEALANT FOR JOINTS	CONTRACTOR
1	24"Ø X 4" FRAME AND COVER, EJ #416003009A01, NV	CONTRACTOR
2	12"Ø X 4" FRAME AND COVER, EJ #416102001, OR EQUIV.	CONTRACTOR

SITE DESIGN DATA

WATER QUALITY FLOW CAPACITY	3.80 CFS
PEAK FLOW CAPACITY	17.72 CFS
RETURN PERIOD OF PEAK FLOW	10 YRS

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE, www.ContechES.com
3. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
4. STRUCTURE SHALL MEET AASHTO HS-20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2', AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
5. IF REQUIRED, PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.
6. CDS STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE.
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

STRUCTURE WEIGHT
APPROXIMATE HEAVIEST PICK = 15000 LBS.
STRUCTURE IS DELIVERED IN 4 PIECES

MAX FOOTPRINT = 7.17'Ø

CONTECH PROPOSAL DRAWING

CDS3035-6-C - 834760-015
MADERA HIGH SCHOOL STADIUM
MADERA, CA
SITE DESIGNATION: CDS

CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
800.338.1122 513.645.7000 513.645.7993 FAX

DATE: 01/14/25
DESIGNED: AME
DRAWN: AME
CHECKED: AME
APPROVED: AME
PROJECT No.: 834760
DRAWING No.: 015
SHEET: 1 OF 1

RVRSD LAYOUT 1E

F CX1.7 CDS PRE-TREATMENT SYSTEM
NOT TO SCALE

The design and information shown on this drawing is provided as a service to the project owner by CONTECH ENGINEERED SOLUTIONS LLC (CONTECH). All rights reserved. Unauthorized use or copying of the design is strictly prohibited and may be unlawful. The information contained on this drawing shall not be used by any person for any purpose without the express written consent of CONTECH. Any use shall indemnify, defend and hold harmless CONTECH from all claims arising from such use.

BY	REVISION DESCRIPTION	DATE	MARK

G:\ENGINEERING\PROJECTS\ACTIVE\834760\Drawings\Design\834760-015-DSGN-REV01.dwg, 8/4/2025 2:07 PM

Drawing: P:\2022\20-51\05\Stadium\Drawings\222101_ID703.dwg, CX1.7 — Plot by: dgarcia Aug 07, 2025 1:32pm

PBK
ARCHITECT PBK Architects, Inc.
FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com
Blair, Church & Flynn
CONSULTING ENGINEERS

MADERA HIGH SCHOOL STADIUM

200 SOUTH L STREET
MADERA, CA 93637
PHASE 2 CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL
REGISTERED PROFESSIONAL ENGINEER
JEFFREY D. GRUNS
No. 36,181
CIVIL
STATE OF CALIFORNIA
5/16/25
Date Signed:

PROJECT NUMBER 20-51
DATE 5/16/2025
DSA APPLICATION NO. 02-122784
FILE NO. 20-H3
PTN NO. 65243-154
DRAWN BY DG

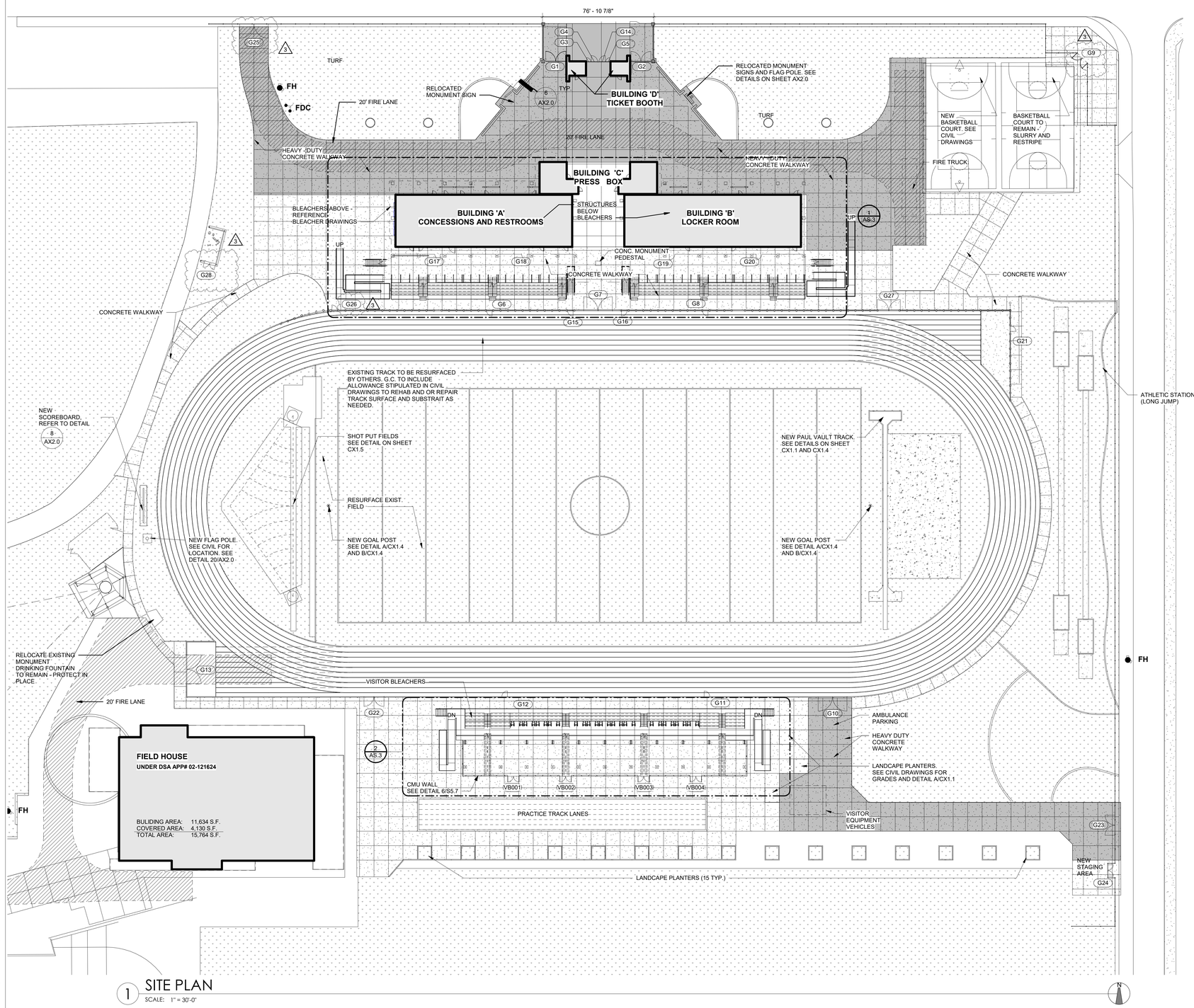
REVISIONS

#	DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

DETAILS

CX1.7



1 SITE PLAN

SCALE: 1" = 30'-0"

PATH OF TRAVEL NOTES

1. ALL BUILDINGS SHALL BE ACCESSIBLE FROM PARKING SPACES
2. ARCHITECT HAS SURVEYED/INSPECTED THE PATH OF TRAVEL (P.O.T.) AS INDICATED ON THE PLANS AND HAS FOUND IT TO BE, OR HAS INDICATED ON THE PLANS REMEDIAL WORK WHICH WOULD CAUSE IT TO BE, A BARRIER-FREE ACCESSIBLE ROUTE:
   - AT LEAST 48" IN WIDTH; OR AS APPROVED BY CODE
   - WITHOUT ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAXIMUM SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING 1/4"
   - WITH A FIRM, STABLE, AND SLIP RESISTANT WALKING SURFACE
   - WITH A RUNNING SLOPE OF 1:20 OR LESS, UNLESS OTHERWISE INDICATED, AND A CROSS SLOPE OF 1:50 OR LESS
   - IS FREE FROM OVERHEAD OBSTRUCTIONS WITHIN 80" ABOVE WALKING SURFACE
   - AND IS FREE OF OBJECTS WHICH PROTRUDE MORE THAN 4" BETWEEN THE HEIGHTS OF 27" AND 80" ABOVE THE WALKING SURFACE.
3. ALL GATES IN PATH OF TRAVEL MUST COMPLY WITH EXIT DOOR REQUIREMENTS AS INDICATED ON A2.1 PROVIDE LEVER HARDWARE, KICK PLATES, 5 lbs PRESURE TO OPERATE, 24" MIN. STRIKE SIDE CLEARANCE, 48" MAX. WIDTH, AND PANIC HARDWARE IF REQUIRED BY FIRE LIFE SAFETY.
4. THERE IS NO DROP-OFF OVER 4" AT THE EDGE OF WALK OR LANDING, IN NEW CONSTRUCTION. ALL WALKS AND ROUTES ARE CONSIDERED PATH OF TRAVEL (P.O.T.) ARCHITECT AND CONTRACTOR SHALL VERIFY THAT THE ENTIRE PATH OF TRAVEL HAS BEEN CONSTRUCTED FREE OF BARRIERS.
5. ALL ACCESSIBLE PARKING SPACES ARE LOCATED SO THAT A PERSON WITH DISABILITY IS NOT COMPELLED TO WHEEL OR WALK BEHIND ANY OTHER CAR.
6. WALKS IN PATH OF TRAVEL SHALL BE FREE OF GRATINGS WHENEVER POSSIBLE. WHEN INSTALLED, OPENINGS SHALL BE 1/2" MAXIMUM IN DIRECTION OF TRAFFIC FLOW.

DSA PR-15-01
DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:

THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTION OF THE POT THAT WERE DETERMINED TO BE COMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WIHTIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTION OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A "CONSTRUCTION CHANGE DOCUMENT" (FORM DSA 140).

COORDINATION NOTES

1. REFER TO CIVIL & LANDSCAPE PLANS FOR ANY ADDITIONAL SITE INFROMATION
2. ALL EGRESS ACCESS GATES THAT ARE EXISTING HAVE PANIC HARDWARE - SEE APP# 02-116013
3. CURBS ALONG FIRE LANE ARE PAINTED RED WITH 3" HIGH WHITE LETTERS STATING 'NO PARKING - FIRE LANE' AT 50' - 0" O.C.

SITE NOTE

UPON COMPLETION OF CONSTRUCTION, THE LOCAL FIRE DEPARTMENT AND/OR EMERGENCY COMMUNICATIONS AUTHORITY WILL BE CONTACTED TO OBTAIN DESIGN AND EQUIPMENT SPECIFICATIONS, AND TESTING AND ACCEPTANCE CRITERIA FOR **EMERGENCY RESPONDER RADIO COVERAGE (ERRC)** PER CFC 510. UPON COMPLETION, COPIES OF THE APPROVED PLANS, EQUIPMENT DATA SHEETS, AND PROOF OF TESTING AND ACCEPTANCE DOCUMENTATION SHALL BE PROVIDED TO THE SCHOOL DISTRICT.

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1–3 below is to be provided for all project types indicated above. Information associated with items 4–7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the local fire authority (LFA) is only required when an alternate design means is being requested.

Page 1 of the completed form must be imaged onto the fire access site plan. When an alternate design/means is proposed, completed pages 1 *and* 2 are to be imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy 09-01.

PROJECT INFORMATION	
School District/Owner:	MADERA UNIFIED SCHOOL DISTRICT
Project Name/School:	MADERA HIGH SCHOOL - FIELD HOUSE
Project Address:	200 SOUTH "L" STREET, MADERA, CA 93637

FIRE & LIFE SAFETY INFOMATION					
1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☒		No ☐	
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☒		No ☐	
3.	Is the project located within a designated fire hazard severity zone as established by Cal-Fire? *(If yes, indicate fire hazard zone classification below)*	Yes ☐		No ☒	
	Refer to the following for fire hazard zone locations: www.fire.ca.gov/fire_prevention/fire_prevention_wildland_zones_maps	Moderate ☐	High ☐	Very High ☐	
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☐	

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED			
		Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.			✓	
4a.	**Acceptable Alternate:** Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.				
5.	**Fire Hydrants:** Number and spacing does not meet CFC requirements.				
5a.	**Acceptable Alternate:** Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.	✓			
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.			✓	
6a.	**Acceptable Alternate**: The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.			✓	
7a.	**Acceptable Alternate:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

School District Acceptance of Acceptable Design Alternates

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: _____ Title: _____

Signature: _____ Date: _____

LOCAL FIRE AUTHORITY (LFA) INFORMATION		
LFA Agency Name:	CITY OF MADERA	
LFA Review Official:	MATTHEW S. TARR	
Title:	FIRE MARSHAL	Work Phone: 559-661-5442
Work E-mail:	MTARR@CITY OF MADERA.COM or MTARR@MADERA.GOV	

LFA Reviewer's Signature: _____ Date: _____

SITE LEGEND

SITE HATCHES

- PROPERTY LINE
- 20' WIDE MIN.- FIRE LANE
- SCORED CONCRETE, SEE DETAILS 1, 2, 3, 5 / AX2.0
- HEAVY DUTY CONCRETE
- PAINTED CURBS RED w/ 3" HIGH WHITE LETTERS STATING "NO PARKING - FIRE LANE" AT 50' O.C.
- PLANTER AREA, REFER TO LANDSCAPE AND IRRIGATION PLANS
- K.B — (E) KNOX BOX @ CENTER 5'-0" ABV. GRADE.
- D.F. — DRINKING FOUNTAIN:
  - SITE PLAN - EXISTING PER APP# 02-116013
  - BUILDING - SEE FLOOR PLANS
- FH — FIRE HYDRANT, SPACED PER 2022 CFC, TABLE C102.1, 225'-0" FROM ANY POINT ON STREET TO HYDRANT.
- FDC — FIRE DEPARTMENT CONNECTION.
- ACCESSIBLE EXIT ROUTE
- PATH OF TRAVEL
- CHAIN LINK FENCE
- SITE GATE, REFER TO SHEET A2.1 FOR SCHEDULE

FLOW TEST

LOCATION: 200 Coyote Lane

DATE: 15 June 2023

INFO

Static: 50 PSI
Residual: 45 PSI
Pitot: 20 PSI

Orifice Size: 2.5-inch

Flow: 750 GPM

Available Flow at 20 PSI residual pressure: 1973 GPM

Q= (.9)(29.84)(2.5**2)(20**1/2) = 750 GPM

At 20 PSI
Q2 = 750 x [(50-20) /(50-45)]**.54

Q2 = 750 x 6**.54 = 1973 GPM

Flow test performed, and calculations run by Matthew S. Tarr, FPE

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL STADIUM
200 SOUTH "L" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

LICENSED ARCHITECT — MICHAEL R. SCHOEN — No. C-28385 — RENEWAL DATE FEB 28, 2027 — STATE OF CALIFORNIA

PROJECT NUMBER	20-51
DATE	08/12/2024
DSA APPLICATION NO.	02-122784
FILE NO.	20-H3
PTN NO.	65243-154
DRAWN BY	XXX

REVISIONS

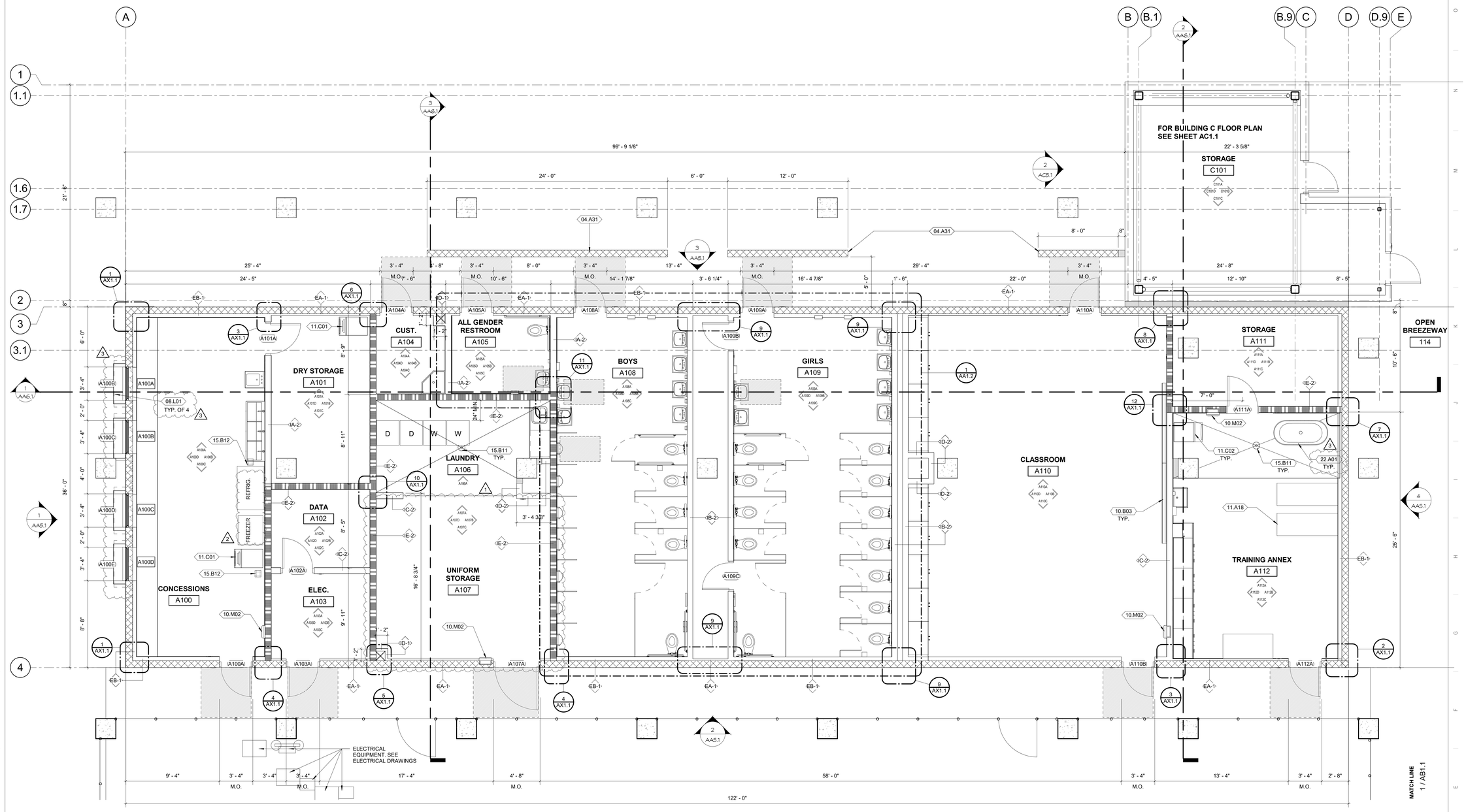
#	DESCRIPTION	DATE
1	ADDENDUM 01	08/18/2025
2	ADDENDUM 02	08/22/2025
3	ADDENDUM 03	08/27/2025

CONSTRUCTION DOCUMENTS

OVERALL SITE PLAN

AS.1

BIM 360://Madera USD_20-51_MHS Field House/20-51_MHS STADIUM_V21.rvt
8/27/2025 8:56:26 PM



1 FIRST FLOOR PLAN - BUILDING A

SCALE: 1/4" = 1'-0"

KEYNOTES XX-XX

03.A24	CONCRETE PILASTER, REFERENCE BLEACHER DRAWINGS TYP.
04.A31	CMU SCREEN WALL. SEE DETAIL 2/S5.2
08.L01	OVERHEAD COILING DOOR, SEE DOOR SCHEDULE
10.B03	MARKERBOARD
10.M02	2A:10BC MIN RATED FIRE EXTINGUISHER W/ SEMI-RECESSED CABINET
11.A18	PHYSICAL TREATMENT GURNEY
11.C01	ICE-MACHINE, SEE PLUMBING PLANS
11.C02	REFRIGERATOR (N.I.C.)
15.B11	FLOOR DRAIN W/ SLOPED FLOOR (2% MAX), SEE PLUMBING AND STRUCTURAL PLANS
15.B12	FLOOR SINK, SEE PLUMBING PLANS
22.A01	ATHLETIC TRAINING ICE BATH TUB

3

FLOOR PLAN NOTES

1. REFER TO SHEET G0.25 FOR ADDITIONAL SYMBOLS NOT SHOWN.
2. ALL DIMENSIONS ARE AS FOLLOWS UNLESS OTHERWISE NOTED:
   A. FACE OF STUD (OR CMU WHERE APPLICABLE) TO FACE OF STUD ;
   B. COLUMN LINE TO FACE OF STUD (OR CMU WHERE APPLICABLE) UNLESS OTHERWISE NOTED.
3. REFERENCE ENLARGED PLANS FOR DIMENSIONS OF ENLARGED PLAN AREAS.
4. DOORS ARE 4" CLR. FROM FROM THE FACE OF FINISH TO ROUGH OPENING OF JAMB UNLESS OTHERWISE NOTED.
5. SEE SHEETS AX1.0 FOR WALL ASSEMBLIES.
6. SEE STRUCT. FOR METAL STUD SIZES AND CONNECTIONS.
7. NON RATED INTERIOR WALLS TO EXTEND FROM FLOOR TO ROOF DECK. OTHER INTERIOR NON-RATED WALLS MAY EXTEND FROM FLOOR TO CEILING FRAMING OR 6" ABOVE ACOUSTICAL CEILING GRID.
8. ALL WALLS SHALL HAVE FRAMING, FINISHES, INSULATION, AND SUBSTRATES FROM FLOOR TO STRUCTURAL DECK. UNLESS OTHERWIS NOTED.
9. REFERENCE BLEACHER PLANS FOR DIMENSIONS OF BLEACHERS AND COLUMNS.
10. SEE SHEET AX8.0 FOR FOR FINISH AND COLOR SCHEDULE

WALL LEGEND

- NEW WALL, SEE WALL TYPES ON SHEET AX1.0
- NEW MASONRY WALL. SEE WALL TYPES ON SHEET AX1.0
- NEW 1HR FIRE RATED WALL ASSEMBLY. SEE WALL TYPES ON SHEET AX1.0
- CONCRETE COLUMN SEE STRUCTURAL DRAWINGS FOR SIZE AND LOCATION
- WALL TYPE — DETAIL REFERENCE SEE SHEET AX1.0
- SYMBOL INDICATES ACCESSIBILITY ITEM. SEE DETAIL 15 / AX7.2 FOR TYPICAL ACCESSIBILITY STANDARDS, CLEARANCES AND MOUNTING HEIGHTS & LOCATIONS
- INTERIOR ELEVATION MARK, SEE INTERIOR ELEVATIONS SHEETS AA7.1, AA7.2, AB7.1, AB1.2 & AD7.1

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL STADIUM

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

LICENSED ARCHITECT — MICHAEL R. SCHOEN — No. C-28295 — RENEWAL DATE FEB 28, 2027 — STATE OF CALIFORNIA

PROJECT NUMBER 20-51

DATE 08/12/2024

DSA APPLICATION NO. 02-122784

FILE NO. 20-H3

PTN NO. 65243-154

DRAWN BY Author

REVISIONS

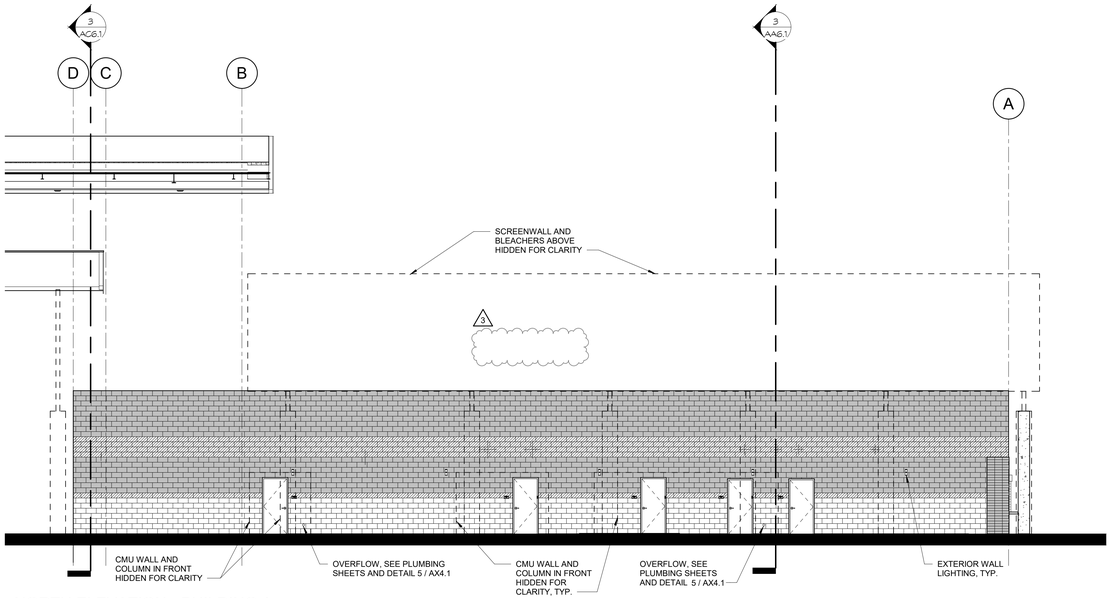
#	DESCRIPTION	DATE
1	ADDENDUM 01	08/18/2025
2	ADDENDUM 02	08/22/2025
3	ADDENDUM 03	08/27/2025

CONSTRUCTION DOCUMENTS

FLOOR PLAN - BUILDING A

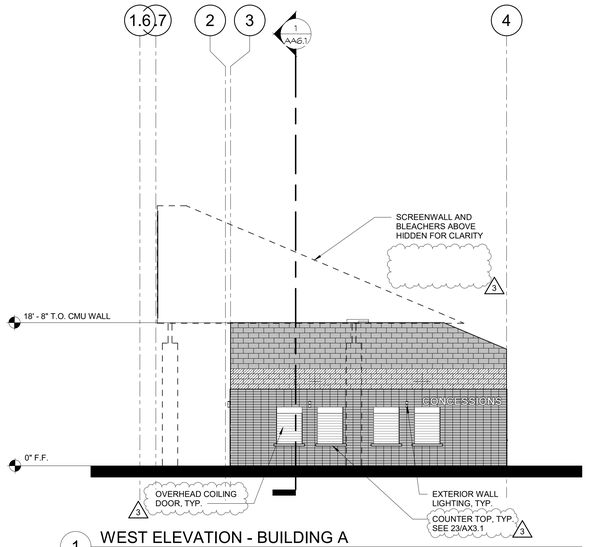
AA1.1

BIM 360://Madera USD_20-51_MHS Field House/20-51_MHS STADIUM_V21.rvt
8/27/2025 7:04:45 PM



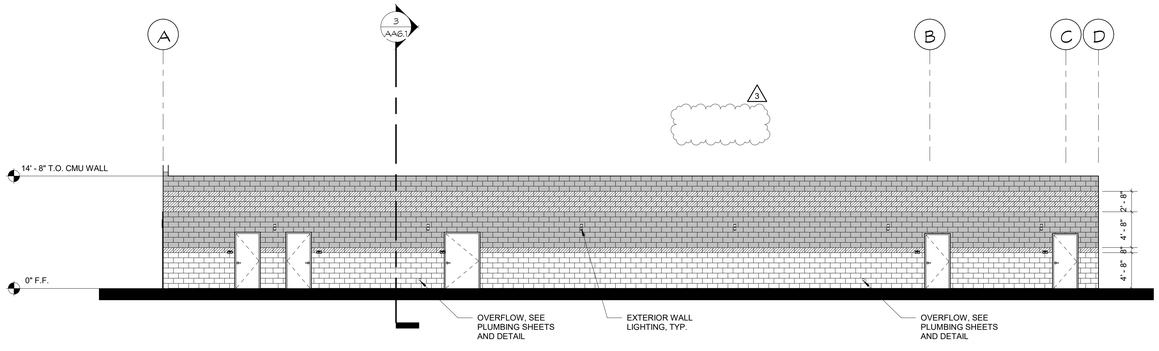
3 NORTH ELEVATION - BUILDING A

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



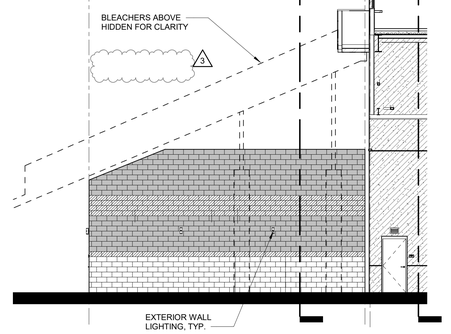
1 WEST ELEVATION - BUILDING A

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



2 SOUTH ELEVATION - BUILDING A

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

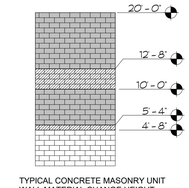


4 EAST ELEVATION - BUILDING A

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

EXTERIOR ELEVATION LEGEND

- CONCRETE MASONRY UNIT, PRECISION COLOR 1 — CMU-1
- CONCRETE MASONRY UNIT, PRECISION COLOR 2 — CMU-2
- CONCRETE MASONRY UNIT, SPLIT FACE COLOR 2 — CMU-3
- THIN BRICK 20 / AX2.1 — TB-1
- THIN BRICK 20 / AX2.1 — TB-2
- HORIZONTALLY ORIENTED FLUSH METAL WALL AND SOFFIT PANELS, 7 / AX2.1 — MP-3
- VERTICALLY ORIENTED STANDING SEAM METAL ROOF AND FASCIA PANELS, 9 / AX2.1 — MP-4
- CEMENT PLASTER INTEGRAL COLOR — P-4



TYPICAL CONCRETE MASONRY UNIT WALL MATERIAL CHANGE HEIGHT (ALL CMU TO BE RUNNING BOND)

GENERAL NOTES EXT. ELEVATIONS

1. CONTRACTOR TO PROVIDE ALL ACCESSORIES REQ'D TO PROVIDE WEATHER TIGHT CONSTRUCTION. COORDINATE w/ MANUFACTURER.
2. ALL EXPOSED EXTERIOR STRUCTURAL STEEL, METAL DECK, CONDUITS, AND PIPING TO BE PAINTED. VERIFY COLOR WITH ARCHITECT.
3. SEE 23 / AX2.1 AND 24 / AX2.1 FOR PLASTER ACCESORIES AND REVEAL DETAILS.

KEYNOTES XX-XX

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL STADIUM

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

LICENSED ARCHITECT — MICHAEL R. SCHOEN — No. C-36295 — RENEWAL DATE 08/31/2025 — STATE OF CALIFORNIA

PROJECT NUMBER
20-51

DATE
08/12/2024

DSA APPLICATION NO.
02-122784

FILE NO.
20-H3

PTN NO.
65243-154

DRAWN BY
Author

REVISIONS

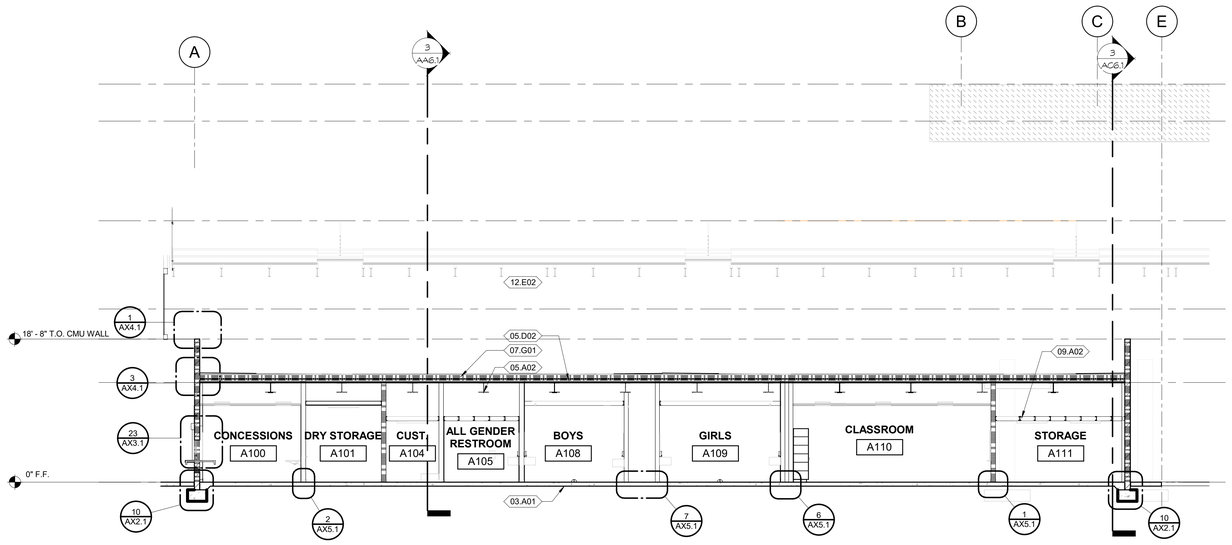
#	DESCRIPTION	DATE
3	ADDENDUM 03	08/27/2025

CONSTRUCTION DOCUMENTS

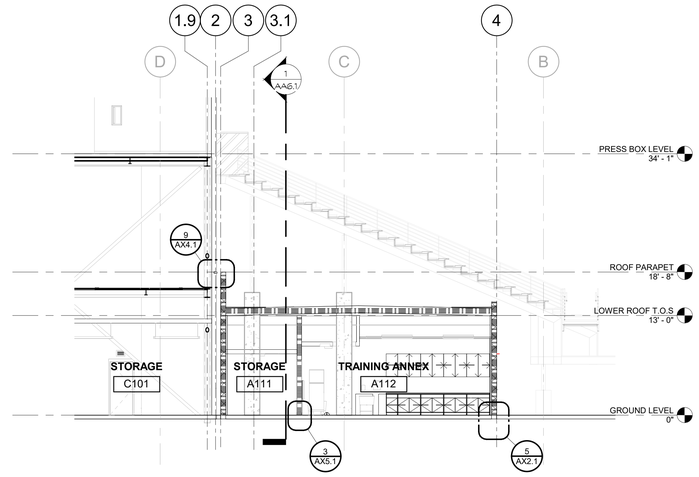
EXTERIOR ELEVATIONS - BUILDING A

AA5.1

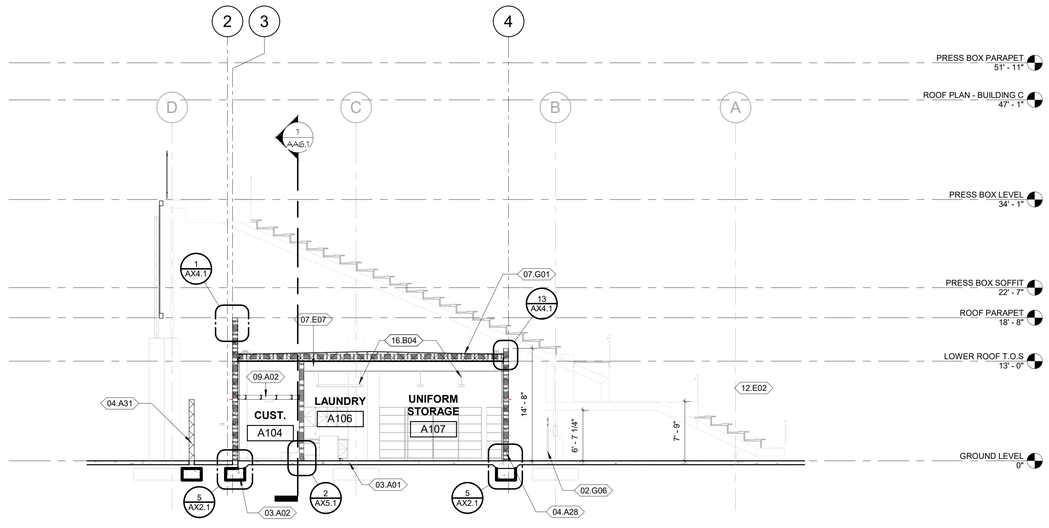
BIM 360://Madera USD_20-51_MHS Field House/20-51_MHS STADIUM_V21.rvt
8/27/2025 7:04:48 PM



1 BUILDING A - SECTION 1
SCALE: 1/8" = 1'-0"



2 BUILDING A - SECTION 2
SCALE: 1/8" = 1'-0"



3 BUILDING A - SECTION 3
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. SEE SHEET G0.2 FOR ADDITIONAL SYMBOLS NOT SHOWN.
2. ALL EXPOSED METAL DECK AND STRUCTURAL STEEL SHALL BE PREPARED TO THE REQUIREMENTS OF "AESS 2" PER AISC CODE OF STANDARD PRACTICE (AISC 303) UNLESS OTHERWISE NOTED. REFER TO SPECIFICATION 07 81 23.

3

SECTION LEGEND

1 HR ASSEBMLY

BATT INSULATION SCHEDULE

ROOF R- 30
WALL R-19

RIDGID INSULATION SCHEDULE

ROOF R-30 (6" EXTRUDED POLYSTYRENE)
WALL (NONE)

KEYNOTES XX-XX

02.G06 6'-0" HIGH CHAIN LINK FENCE
03.A01 CONCRETE SLAB, SEE STRUCTURAL PLANS
03.A02 CONCRETE FOOTING, SEE STRUCTURAL PLANS
04.A28 CMU WALL
04.A31 CMU SCREEN WALL. SEE DETAIL 2/S5.2
05.A02 EXPOSED STEEL BEAM, SEE STRUCTURAL PLANS
05.D02 LIGHTWEIGHT CONCRETE O/METAL DECK, SEE STRUCTURAL PLANS
07.E07 STRUCTURE BELOW ROOF
07.G01 CLASS 'A' 1HR RATED BUILT-UP ROOFING SYSTEM
09.A02 GYPSUM BOARD o/ CEILING JOISTS
12.E02 PRE-FABRICATED BLEACHERS, SEE BLEACHER PLANS
16.B04 LIGHTING FIXTURE, SEE ELECTRICAL PLANS

PBK

ARCHITECT PBK Architects, Inc.
FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL STADIUM

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

LICENSED ARCHITECT
MICHAEL R. SCHOEN
No. C-32585
RENEWAL DATE
FEB 28, 2027
STATE OF CALIFORNIA

PROJECT NUMBER
20-51

DATE
08/12/2024

DSA APPLICATION NO.
02-122784

FILE NO.
20-H3

PTN NO.
65243-154

DRAWN BY
Author

REVISIONS

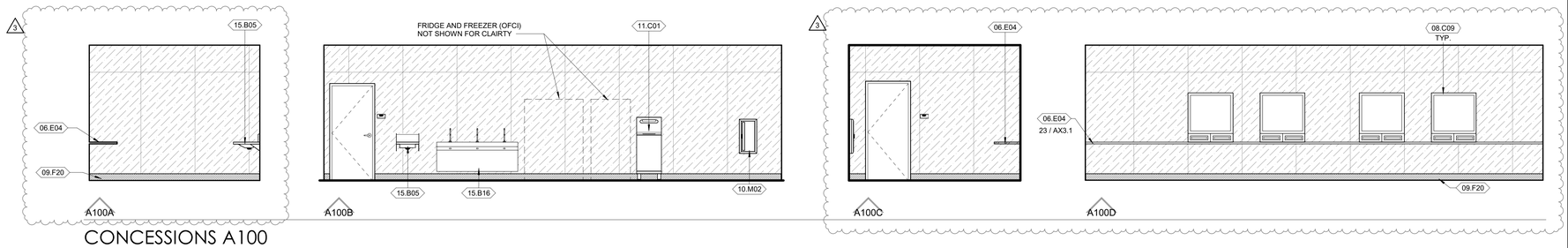
#	DESCRIPTION	DATE
3	ADDENDUM 03	08/27/2025

CONSTRUCTION DOCUMENTS

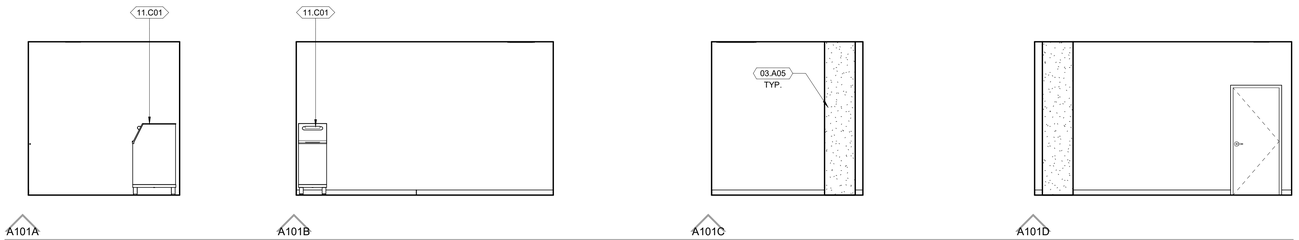
BUILDING SECTIONS - BUILDING A

AA6.1

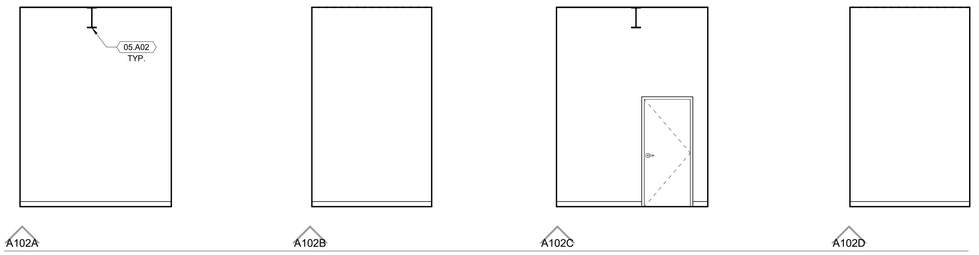
BIM 360://Madera USD_20-51_MHS Field House/20-51_MHS STADIUM_V21.rvt
8/27/2025 7:04:56 PM



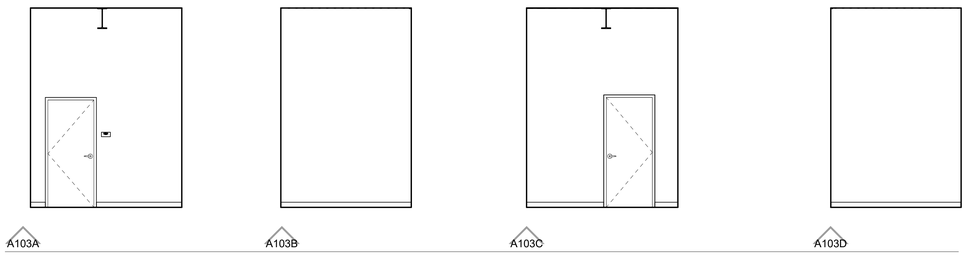
CONCESSIONS A100



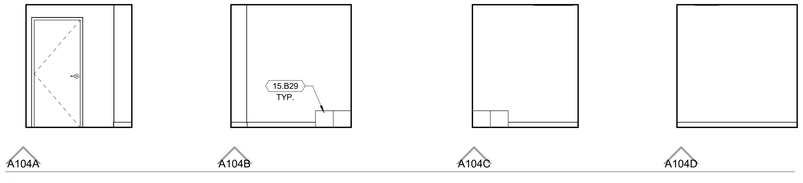
DRY STORAGE A101A



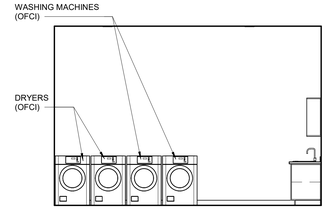
DATA A102A



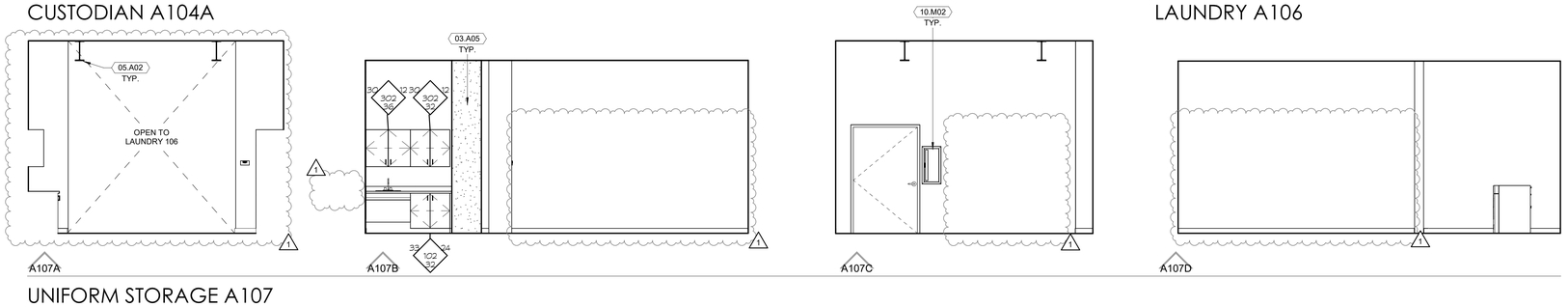
ELECTRICAL A103A



CUSTODIAN A104A



LAUNDRY A106



UNIFORM STORAGE A107

KEYNOTES XX-XX

03.A05	CONCRETE COLUMN, SEE STRUCTURAL PLANS
05.A02	EXPOSED STEEL BEAM, SEE STRUCTURAL PLANS
06.E04	COUNTERTOP
08.C09	TRANSACTION WINDOW
09.F20	RUBBER TOPSET BASE,TYP., 4" U.O.N.
10.M02	2A:10BC MIN RATED FIRE EXTINGUISHER W/ SEMI-RECESSED CABINET
11.C01	ICE-MACHINE, SEE PLUMBING PLANS
15.B05	LAVATORY, SEE PLUMBING PLANS
15.B16	TRIPLE COMPARTMENT SINK, SEE PLUMBING PLANS
15.B29	MOP SINK

SYMBOL LEGEND - INT. ELEVATION

CASEWORK SYMBOL

CASEWORK SYMBOL

HEIGHT
MODIFIED
DEPTH
CASEWORK MODEL
LOCK
WIDTH

NOTE: SEE CASEWORK BACKING AND ATTACHMENT DETAILS ON SHEET AX5.2

NOTE: DIMENSIONS ARE TO THE NEAREST WHOLE NUMBER, CONTRACTOR TO FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION

FINISH KEYNOTE SYMBOL

XX-XX = INDICATES FINISH, SEE COLOR SCHEDULE ON AX5.0

INTERIOR ELEVATION LEGEND

HATCH INDICATES GYSPUM BOARD FINISH U.O.N. P-1

HATCH INDICATES WALL TILE FINISH, TL-2 U.O.N.

HATCH INDICATES FLOOR & BASE TILE FINISH, TL-6 U.O.N.

HATCH INDICATES CONCRETE COLUMN

HATCH INDICATES OMEGA AKROGOLD DEF SYSTEM - AKROFLEX MULTI-TEX FINISH

HATCH INDICATES FIBERGLASS REINFORCED PANELING

HATCH INDICATES FIRE RESISTANT PAINT o/ 5/8" FIRE RESISTANT PLYWOOD

HATCH INDICATES GLAZING REFER TO WINDOW SCHEDULE

HATCH INDICATES OPEN TO BEYOND

GENERAL NOTES

1. REFER TO REFLECTED CEILING PLAN FOR CEILING AND SOFFIT HEIGHTS.
2. REFER TO DETAIL 25 / AX5.2 FOR CASEWORK ANCHORAGE DETAILS.
3. FOR ELEVATIONS THAT ARE NOT ILLUSTRATED MATCH FINISHES OF TYPICAL ROOM ELEVATION AND REFER TO INTERIOR FINISH SCHEDULE.
4. SEE SHEET G0.20 FOR ADDITIONAL SYMBOLS NOT SHOWN.
5. REFER TO INTERIOR FINISH SCHEDULE TYPICAL PAINT COLORS.
6. ALL EXPOSED METAL DECK AND STRUCTURAL STEEL IS TO COMPLY WITH "ARCHITECTURALLY EXPOSED STRUCTURAL STEEL FRAMING", REFER TO SPECIFICATION.

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL STADIUM

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

LICENSED ARCHITECT
MICHAEL R. SCHOEN
No. C-36295
RENEWAL DATE
FEB 29, 2027
STATE OF CALIFORNIA

PROJECT NUMBER	20-51
DATE	08/12/2024
DSA APPLICATION NO.	02-122784
FILE NO.	20-H3
PTN NO.	65243-154
DRAWN BY	Author

REVISIONS

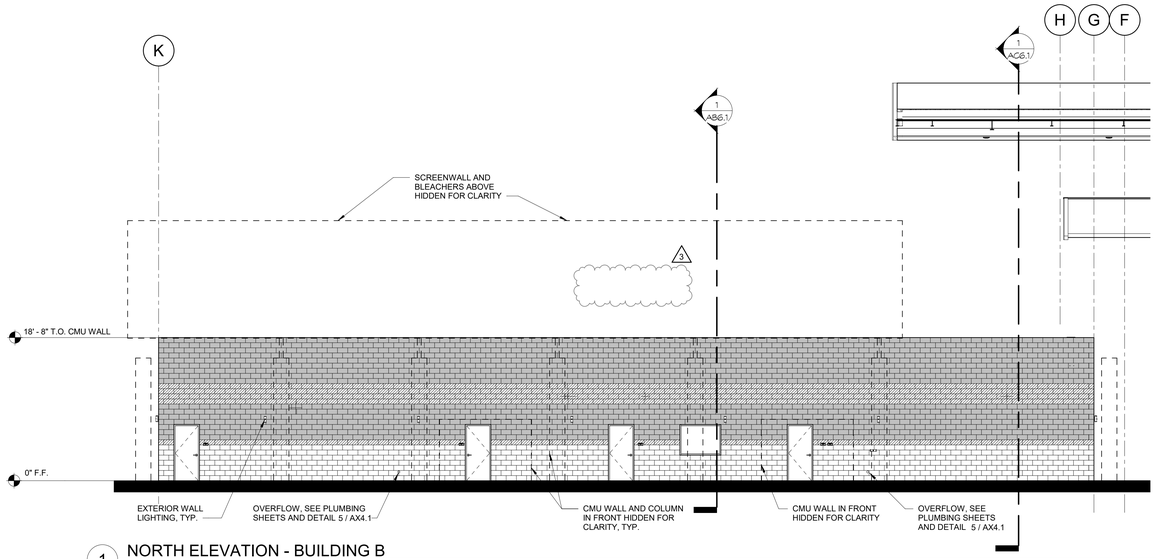
#	DESCRIPTION	DATE
1	ADDENDUM 01	08/18/2025
3	ADDENDUM 03	08/27/2025

CONSTRUCTION DOCUMENTS

INTERIOR ELEVATIONS - BUILDING A

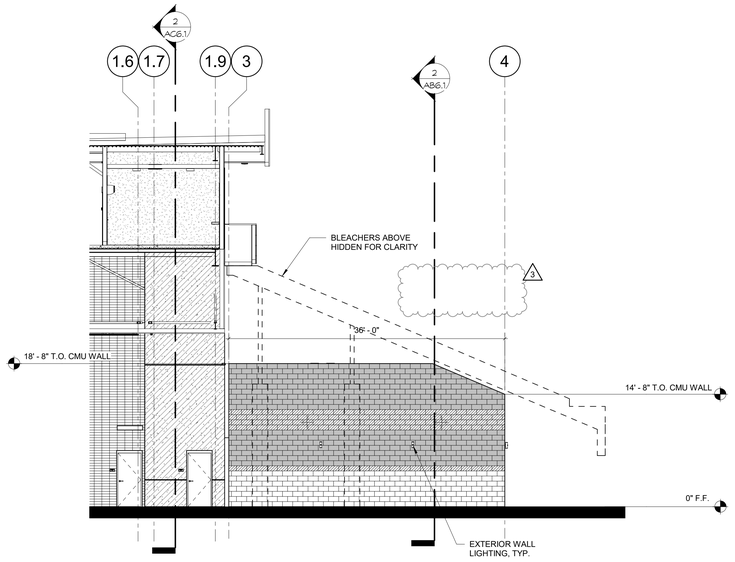
AA7.1

BIM 360://Madera USD_20-51_MHS Field House/20-51_MHS STADIUM_V21.rvt
8/27/2025 7:05:08 PM



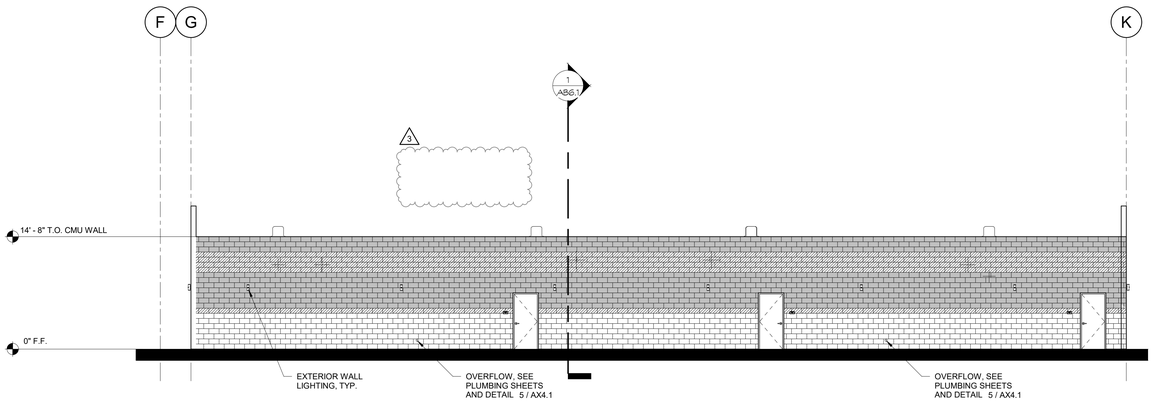
1 NORTH ELEVATION - BUILDING B

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



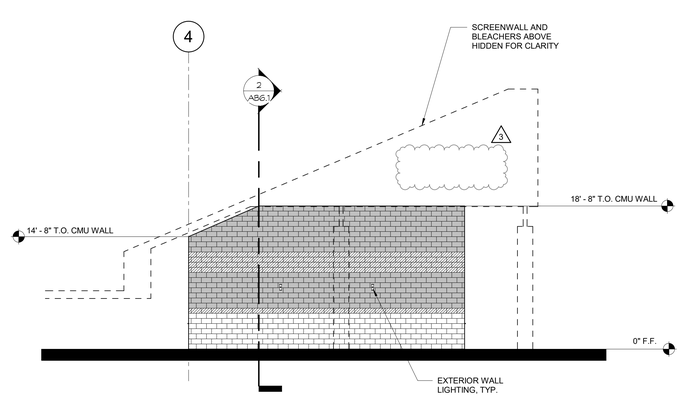
4 WEST ELEVATION - BUILDING B

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



3 SOUTH ELEVATION - BUILDING B

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

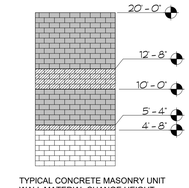


2 EAST ELEVATION - BUILDING B

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

EXTERIOR ELEVATION LEGEND

- CONCRETE MASONRY UNIT, PRECISION COLOR 1 — CMU-1
- CONCRETE MASONRY UNIT, PRECISION COLOR 2 — CMU-2
- CONCRETE MASONRY UNIT, SPLIT FACE COLOR 2 — CMU-3
- THIN BRICK 20 / AX2.1 — TB-1
- THIN BRICK 20 / AX2.1 — TB-2
- HORIZONTALLY ORIENTED FLUSH METAL WALL AND SOFFIT PANELS, 7 / AX2.1 — MP-3
- VERTICALLY ORIENTED STANDING SEAM METAL ROOF AND FASCIA PANELS, 9 / AX2.1 — MP-4
- CEMENT PLASTER INTEGRAL COLOR — P-4



TYPICAL CONCRETE MASONRY UNIT WALL MATERIAL CHANGE HEIGHT (ALL CMU TO BE RUNNING BOND)

GENERAL NOTES EXT. ELEVATIONS

1. CONTRACTOR TO PROVIDE ALL ACCESSORIES REQ'D TO PROVIDE WEATHER TIGHT CONSTRUCTION, COORDINATE w/ MANUFACTURER.
2. ALL EXPOSED EXTERIOR STRUCTURAL STEEL, METAL DECK, CONDUITS, AND PIPING TO BE PAINTED. VERIFY COLOR WITH ARCHITECT.
3. SEE 23 / AX2.1 AND 24 / AX2.1 FOR PLASTER ACCESORIES AND REVEAL DETAILS.

KEYNOTES XX-XX

PBK

ARCHITECT PBK Architects, Inc.
FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL STADIUM

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

LICENSED ARCHITECT — MICHAEL R. SCHOEN — No. C-36295 — RENEWAL DATE FEB 29, 2027 — STATE OF CALIFORNIA

PROJECT NUMBER 20-51

DATE 08/12/2024

DSA APPLICATION NO. 02-122784

FILE NO. 20-H3

PTN NO. 65243-154

DRAWN BY Author

REVISIONS

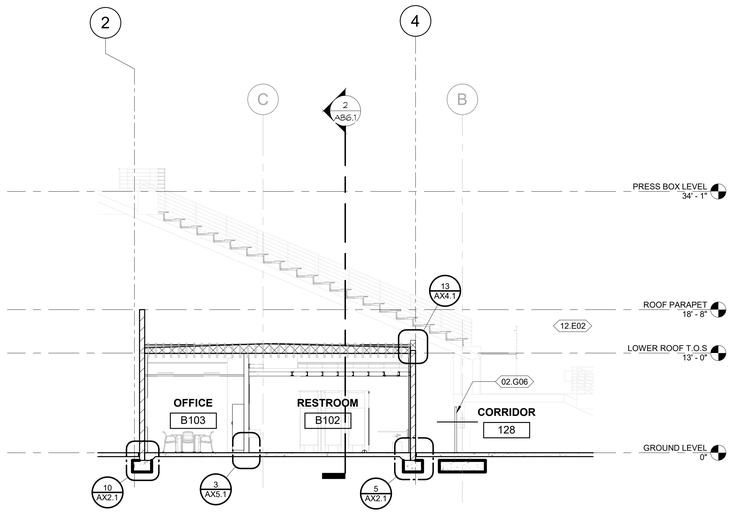
#	DESCRIPTION	DATE
3	ADDENDUM 03	08/27/2025

CONSTRUCTION DOCUMENTS

EXTERIOR ELEVATIONS - BUILDING B

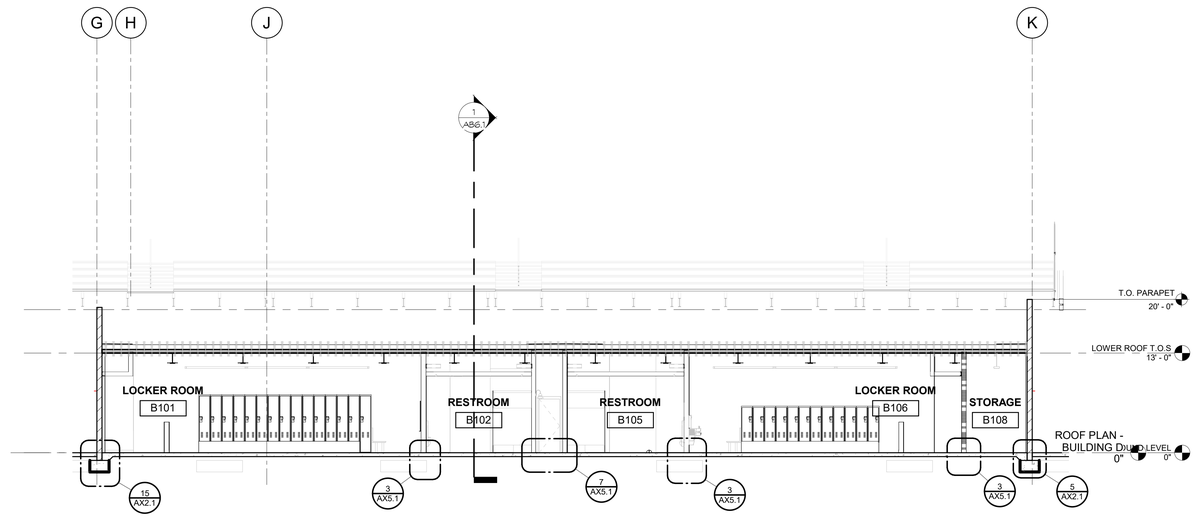
AB5.1

BIM 360://Madera USD_20-51_MHS Field House/20-51_MHS STADIUM_V21.rvt
8/27/2025 7:05:12 PM



1 BUILDING B SECTION 1

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



2 BUILDING B SECTION 2

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

GENERAL NOTES

1. SEE SHEET G0.2 FOR ADDITIONAL SYMBOLS NOT SHOWN.
2. ALL EXPOSED METAL DECK AND STRUCTURAL STEEL SHALL BE PREPARED TO THE REQUIREMENTS OF "AESS 2" PER AISC CODE OF STANDARD PRACTICE (AISC 303) UNLESS OTHERWISE NOTED. REFER TO SPECIFICATION 07 81 23.

3

SECTION LEGEND

1 HR ASSEBMLY

BATT INSULATION SCHEDULE

ROOF R- 30
WALL R-19

RIDGID INSULATION SCHEDULE

ROOF R-30 (6" EXTRUDED POLYSTYRENE)
WALL (NONE)

KEYNOTES XX-XX

02.G06 6'-0" HIGH CHAIN LINK FENCE

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL STADIUM

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

LICENSED ARCHITECT
MICHAEL R. SCHOEN
No. C-36295
REGISTRATION DATE
FEB 29, 2027
STATE OF CALIFORNIA

PROJECT NUMBER
20-51

DATE
08/12/2024

DSA APPLICATION NO.
02-122784

FILE NO.
20-H3

PTN NO.
65243-154

DRAWN BY
Author

REVISIONS

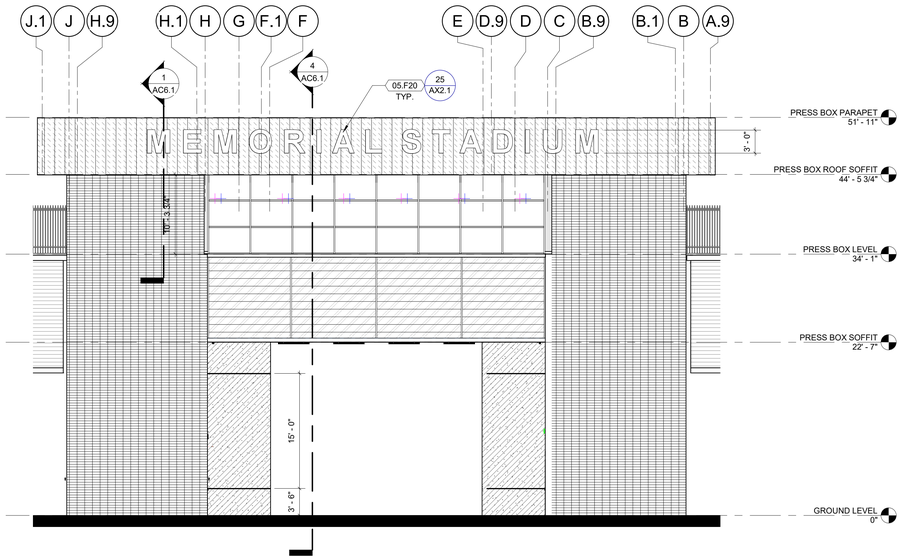
#	DESCRIPTION	DATE
3	ADDENDUM 03	08/27/2025

CONSTRUCTION DOCUMENTS

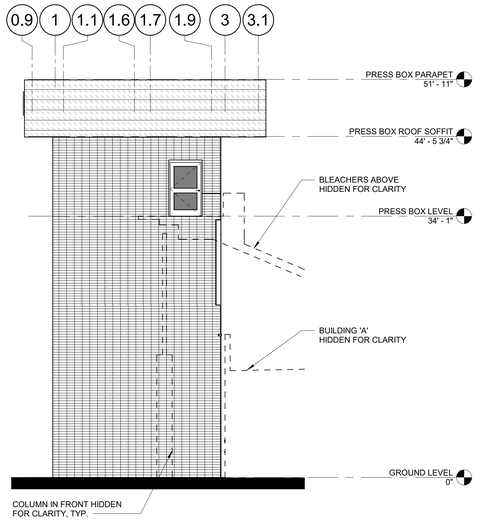
BUILDING SECTIONS - BUILDING B

AB6.1

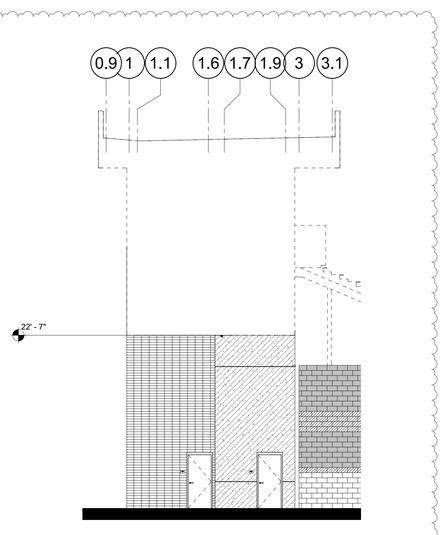
BIM 360://Madera USD_20-51_MHS Field House/20-51_MHS STADIUM_V21.rvt
8/27/2025 7:05:17 PM



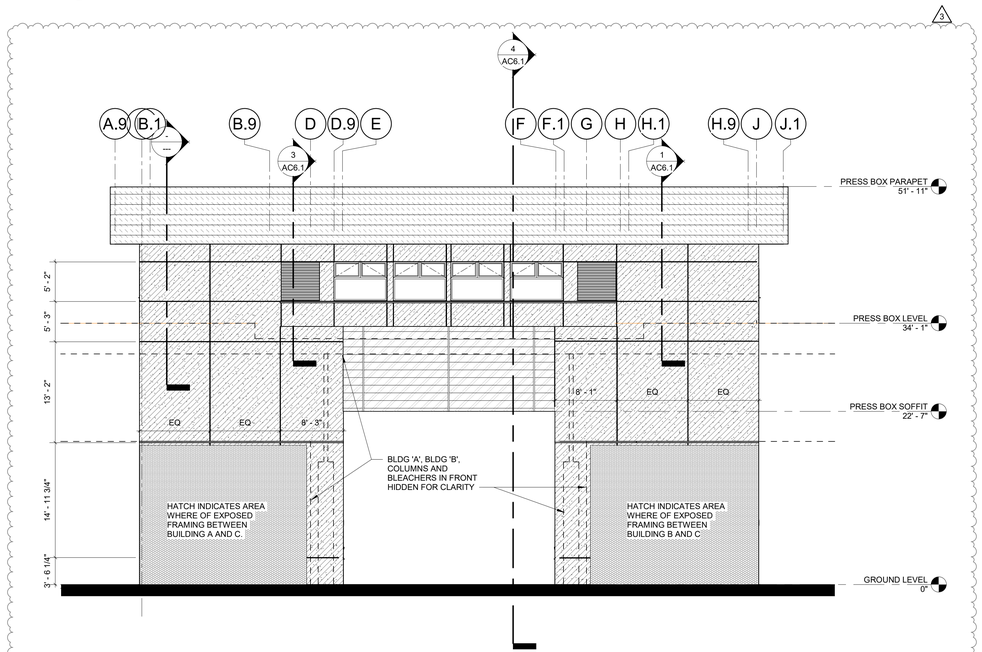
1 NORTH ELEVATION - BUILDING C
SCALE: 1/8" = 1'-0"



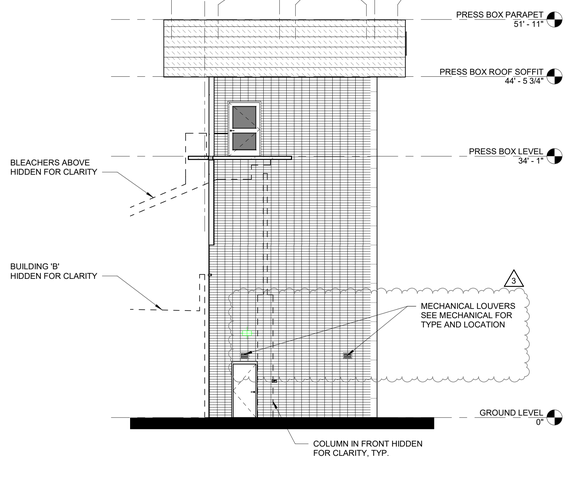
2 WEST ELEVATION - BUILDING C
SCALE: 1/8" = 1'-0"



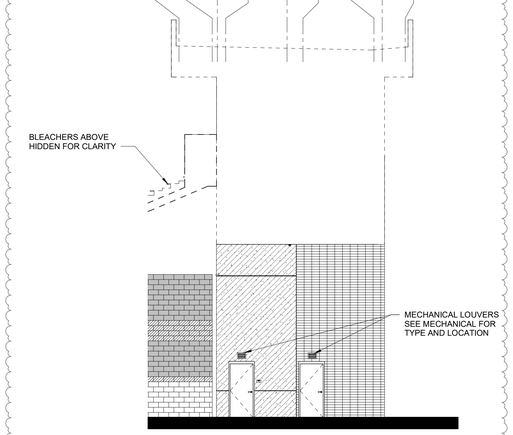
5 PARTIAL WEST ELEV - BLDG C
SCALE: 1/8" = 1'-0"



3 SOUTH ELEVATION - BUILDING C
SCALE: 1/8" = 1'-0"



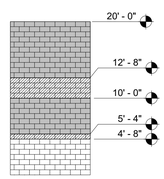
4 EAST ELEVATION - BUILDING C
SCALE: 1/8" = 1'-0"



6 PARTIAL EAST ELEV - BLDG C
SCALE: 1/8" = 1'-0"

EXTERIOR ELEVATION LEGEND

- CONCRETE MASONRY UNIT, PRECISION COLOR 1 — CMU-1
- CONCRETE MASONRY UNIT, PRECISION COLOR 2 — CMU-2
- CONCRETE MASONRY UNIT, SPLIT FACE COLOR 2 — CMU-3
- THIN BRICK 20 / AX2.1 — TB-1
- THIN BRICK 20 / AX2.1 — TB-2
- HORIZONTALLY ORIENTED FLUSH METAL WALL AND SOFFIT PANELS, 7 / AX2.1 — MP-3
- VERTICALLY ORIENTED STANDING SEAM METAL ROOF AND FASCIA PANELS, 9 / AX2.1 — MP-4
- CEMENT PLASTER INTEGRAL COLOR — P-4



TYPICAL CONCRETE MASONRY UNIT WALL MATERIAL CHANGE HEIGHT (ALL CMU TO BE RUNNING BOND)

GENERAL NOTES EXT. ELEVATIONS

1. CONTRACTOR TO PROVIDE ALL ACCESSORIES REQ'D TO PROVIDE WEATHER TIGHT CONSTRUCTION. COORDINATE w/ MANUFACTURER.
2. ALL EXPOSED EXTERIOR STRUCTURAL STEEL, METAL DECK, CONDUITS, AND PIPING TO BE PAINTED. VERIFY COLOR WITH ARCHITECT.
3. SEE '23 / AX2.1 AND 24 / AX2.1 FOR PLASTER ACCESORIES AND REVEAL DETAILS.

KEYNOTES XX-XX

05.F20 FABRICATED ALUMINUM LETTERS

PBK

ARCHITECT PBK Architects, Inc.
FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL STADIUM

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

LICENSED ARCHITECT — MICHAEL R. SCHOEN — No. C-36295 — RENEWAL DATE FEB 28, 2027 — STATE OF CALIFORNIA

PROJECT NUMBER 20-51
DATE 08/12/2024
DSA APPLICATION NO. 02-122784
FILE NO. 20-H3
PTN NO. 65243-154
DRAWN BY Author

REVISIONS

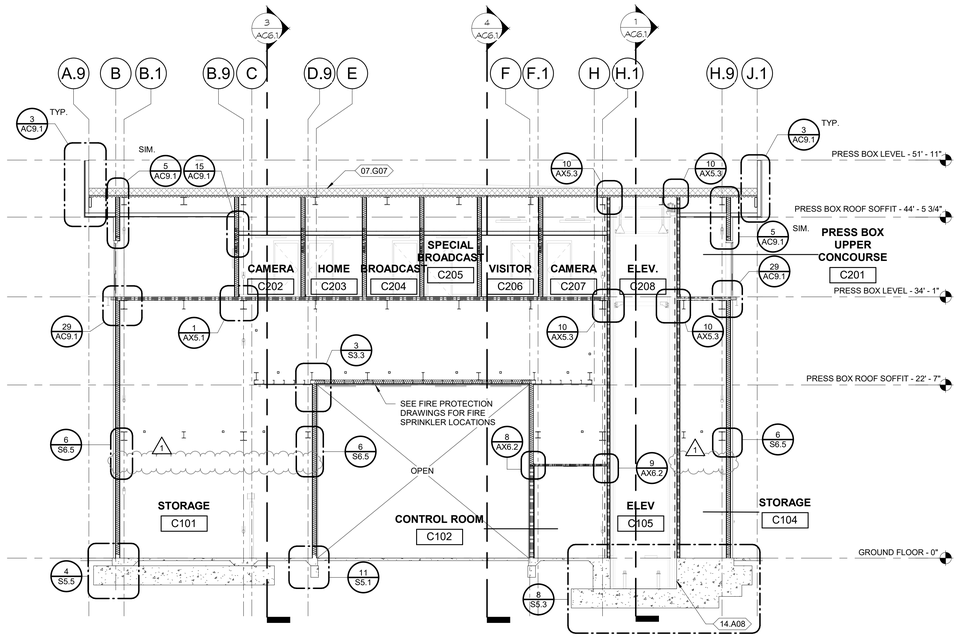
#	DESCRIPTION	DATE
3	ADDENDUM 03	08/27/2025

CONSTRUCTION DOCUMENTS

EXTERIOR ELEVATIONS - BUILDING C

AC5.1

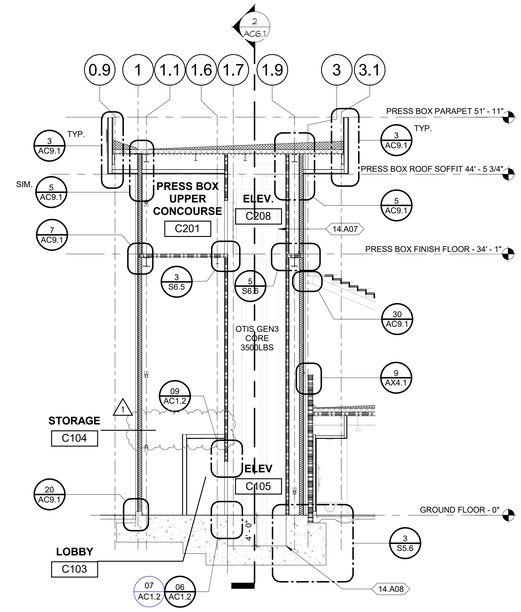
BIM 360://Madera USD_20-51_MHS Field House/20-51_MHS STADIUM_V21.rvt
8/28/2025 8:36:53 AM



2 PRESS BOX SECTION - LONGITUDINAL

2/ A1.0

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



1 ELEVATOR SECTION

1/ A1.0

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

4 PRESSBOX SECTION - AT BRIDGE

1/ A3.1

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

3 PRESS BOX SECTION - TRANSVERSE

2/ A1.0

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

GENERAL NOTES

1. SEE SHEET G0.2 FOR ADDITIONAL SYMBOLS NOT SHOWN.
2. ALL EXPOSED METAL DECK AND STRUCTURAL STEEL SHALL BE PREPARED TO THE REQUIREMENTS OF "AESS 2" PER AISC CODE OF STANDARD PRACTICE (AISC 303) UNLESS OTHERWISE NOTED. REFER TO SPECIFICATION 07 81 23.

SECTION LEGEND

1 HR ASSEBMLY

BATT INSULATION SCHEDULE

ROOF R- 30
WALL R-19

RIDGID INSULATION SCHEDULE

ROOF R-30 (6" EXTRUDED POLYSTYRENE)
WALL (NONE)

KEYNOTES

XX-XX

03.A01 CONCRETE SLAB, SEE STRUCTURAL PLANS
04.A28 CMU WALL
07.G07 CLASS 'A' RATED BUILT-UP ROOFING SYSTEM WITH RIGID INSULATION AND COVERBOARD
09.A02 GYPSUM BOARD o/ CEILING JOISTS
14.A07 ELEVATOR
14.A08 ELEVATOR CONCRETE PIT

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL STADIUM

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

LICENSED ARCHITECT
MICHAEL R. SCHOEN
No. C-28395
RENEWAL DATE
12.31.25
STATE OF CALIFORNIA

PROJECT NUMBER	20-51
DATE	08/12/2024
DSA APPLICATION NO.	02-122784
FILE NO.	20-H3
PTN NO.	65243-154
DRAWN BY	Author

REVISIONS

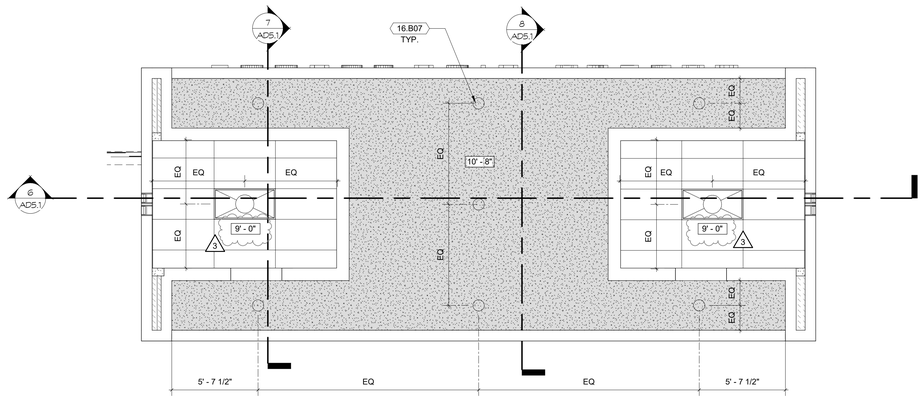
#	DESCRIPTION	DATE
1	ADDENDUM 01	09/18/2025
3	ADDENDUM 03	08/27/2025

CONSTRUCTION DOCUMENTS

BUILDING SECTIONS - BUILDING C

AC6.1

BIM 360://Madera USD_20-51_MHS Field House/20-51_MHS STADIUM_V21.rvt
8/27/2025 7:05:31 PM



1 RCP - BUILDING D

SCALE: 1/4" = 1'-0"

KEYNOTES XX-XX

16.B07 CEILING MOUNTED LIGHT FIXTURE, SEE ELECTRICAL PLAN

GENERAL NOTES

1. REFER TO SHEET G0.20 FOR ADDITIONAL SYMBOLS NOT SHOWN.
2. ALL SOFFIT DIMENSIONS ARE OUTSIDE FACE OF FINISH TO OUTSIDE FACE OF FINISH UNLESS OTHERWISE NOTED.
3. NOT ALL ELECTRICAL, MECHANICAL AND TECHNOLOGY EQUIPMENT IS SHOWN ON REFLECTED CEILING PLAN. REFER TO ELECTRICAL, MECHANICAL AND TECHNOLOGY DRAWINGS FOR ELECTRICAL, MECHANICAL AND TECHNOLOGY CEILING EQUIPMENT.
4. ALL EXPOSED METAL DECK AND STRUCTURAL STEEL IS TO COMPLY WITH "ARCHITECTURALLY EXPOSED STRUCTURAL STEEL FRAMING", REFER TO SPECIFICATION.

CEILING LEGEND

- 24" x 48" SUSPENDED ACOUSTICAL CEILING SYSTEM SEE SHEET AX6.1 FOR TYPICAL DETAILS
- HARD LID GYPSUM BOARD CEILING 4 / AX6.2
- OPEN TO THE ROOF DECK ABOVE.
- METAL SOFFIT PANEL 7 / AX2.1
- CEMENT PLASTER SEE FINISH SCHEDULE AND DETAIL 23 / AX2.1
- OPEN TO BLEACHERS ABOVE
- LIGHT FIXTURE(S), REFER TO ELECTRICAL DRAWINGS
- MECHANICAL GRILLES, REFER TO MECHANICAL DRAWINGS
- ILLUMINATED EXIT SIGNS, REFER TO ELECTRICAL FOR FIXTURE TYPE AND LOCATION.
- 9' - 0" CEILING HEIGHT ABOVE FINISH FLOOR
- 20" X 30" MAX. CEILING ACCESS PANEL, SEE DETAIL

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL STADIUM

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

MADERA 19 66 UNIFIED SCHOOL DISTRICT

PROFESSIONAL SEAL

LICENSED ARCHITECT
MICHAEL R. SCHOEN
No. C-28295
RENEWAL DATE
FEB 28, 2027
STATE OF CALIFORNIA

PROJECT NUMBER
20-51

DATE
08/12/2024

DSA APPLICATION NO.
02-122784

FILE NO.
20-H3

PTN NO.
65243-154

DRAWN BY
Author

REVISIONS

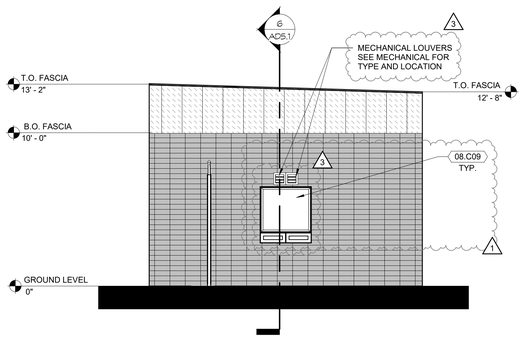
#	DESCRIPTION	DATE
3	ADDENDUM 03	08/27/2025

CONSTRUCTION DOCUMENTS

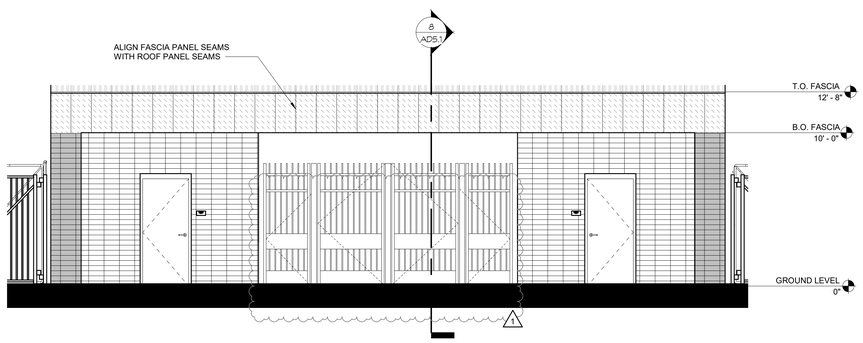
ENLARGED RCP - BUILDING D

AD3.1

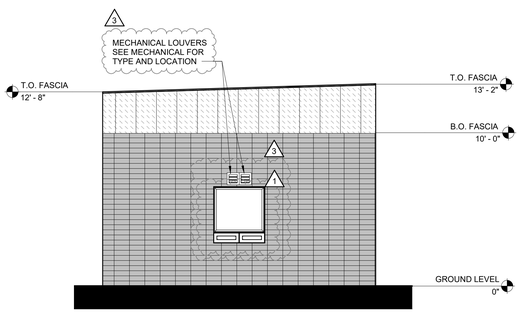
BIM 360://Madera USD_20-51_MHS Field House/20-51_MHS STADIUM_V21.rvt
8/27/2025 7:05:33 PM



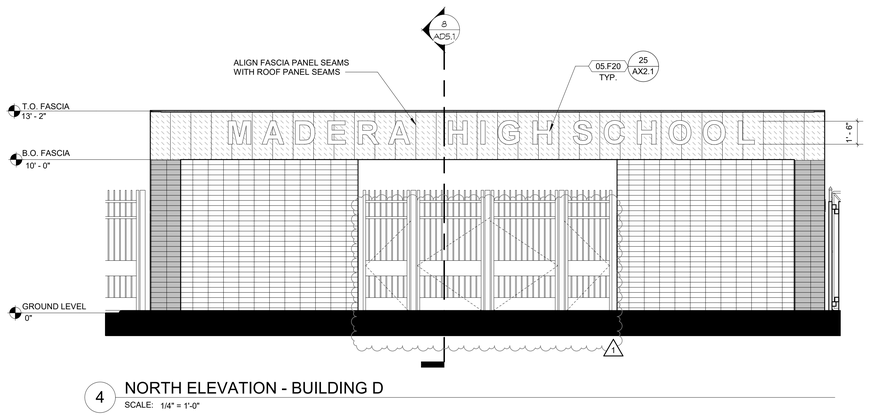
1 WEST ELEVATION - BUILDING D
SCALE: 1/4" = 1'-0"



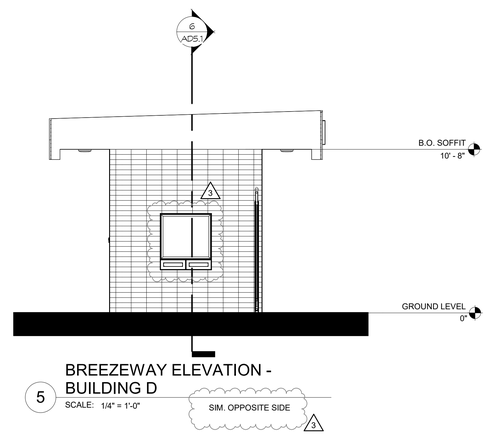
2 SOUTH ELEVATION - BUILDING D
SCALE: 1/4" = 1'-0"



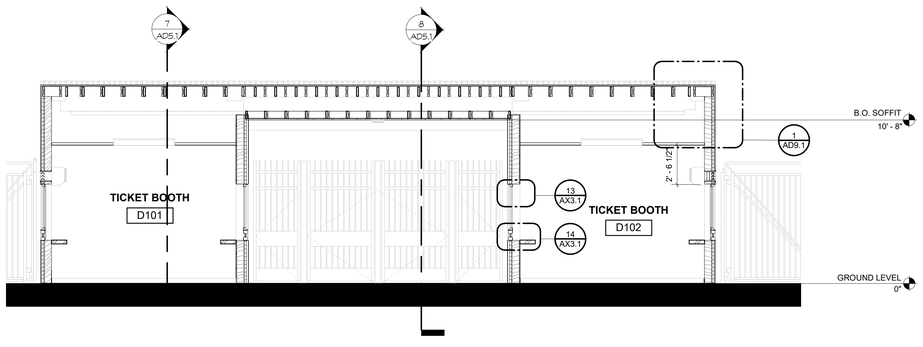
3 EAST ELEVATION - BUILDING D
SCALE: 1/4" = 1'-0"



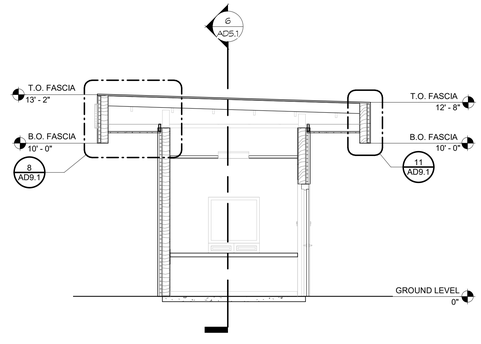
4 NORTH ELEVATION - BUILDING D
SCALE: 1/4" = 1'-0"



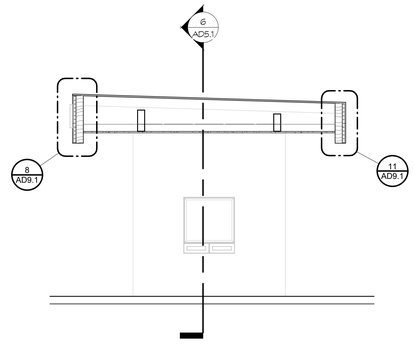
5 BREEZEWAY ELEVATION - BUILDING D
SCALE: 1/4" = 1'-0"



6 SECTION - BUILDING D
SCALE: 1/4" = 1'-0"



7 SECTION 2 - BUILDING D
SCALE: 1/4" = 1'-0"



8 BREEZEWAY SECTION - BLDG D
SCALE: 1/4" = 1'-0"

SECTION LEGEND

1 HR ASSEBMLY

BATT INSULATION SCHEDULE

ROOF R- 30
WALL R-19

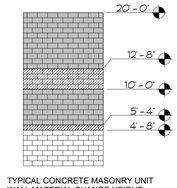
RIDGID INSULATION SCHEDULE

ROOF R-30 (6" EXTRUDED POLYSTYRENE)
WALL (NONE)

EXTERIOR ELEVATION LEGEND

- CONCRETE MASONRY UNIT, PRECISION COLOR 1 — CMU-1
- CONCRETE MASONRY UNIT, PRECISION COLOR 2 — CMU-2
- CONCRETE MASONRY UNIT, SPLIT FACE COLOR 2 — CMU-3
- THIN BRICK 20 / AX2.1 — TB-1
- THIN BRICK 20 / AX2.1 — TB-2
- HORIZONTALLY ORIENTED FLUSH METAL WALL AND SOFFIT PANELS, 7 / AX2.1 — MP-3
- VERTICALLY ORIENTED STANDING SEAM METAL ROOF AND FASCIA PANELS, 9 / AX2.1 — MP-4
- CEMENT PLASTER INTEGRAL COLOR — P-4

2



TYPICAL CONCRETE MASONRY UNIT WALL MATERIAL CHANGE HEIGHT (ALL CMU TO BE RUNNING BOND)

GENERAL NOTES EXT. ELEVATIONS

1. CONTRACTOR TO PROVIDE ALL ACCESSORIES REQ'D TO PROVIDE WEATHER TIGHT CONSTRUCTION, COORDINATE w/ MANUFACTURER.
2. ALL EXPOSED EXTERIOR STRUCTURAL STEEL, METAL DECK, CONDUITS, AND PIPING TO BE PAINTED. VERIFY COLOR WITH ARCHITECT.
3. SEE 23 / AX2.1 AND 24 / AX2.1 FOR PLASTER ACCESORIES AND REVEAL DETAILS.

KEYNOTES (XX-XX)

05.F20 FABRICATED ALUMINUM LETTERS
08.C09 TRANSACTION WINDOW

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL STADIUM

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

MADERA UNIFIED SCHOOL DISTRICT 19 66

PROFESSIONAL SEAL

LICENSED ARCHITECT — MICHAEL R. SCHOEN — No. C-22295 — RENEWAL DATE: FEB 28, 2027 — STATE OF CALIFORNIA

PROJECT NUMBER
20-51

DATE
08/12/2024

DSA APPLICATION NO.
02-122784

FILE NO.
20-H3

PTN NO.
65243-154

DRAWN BY
Author

REVISIONS

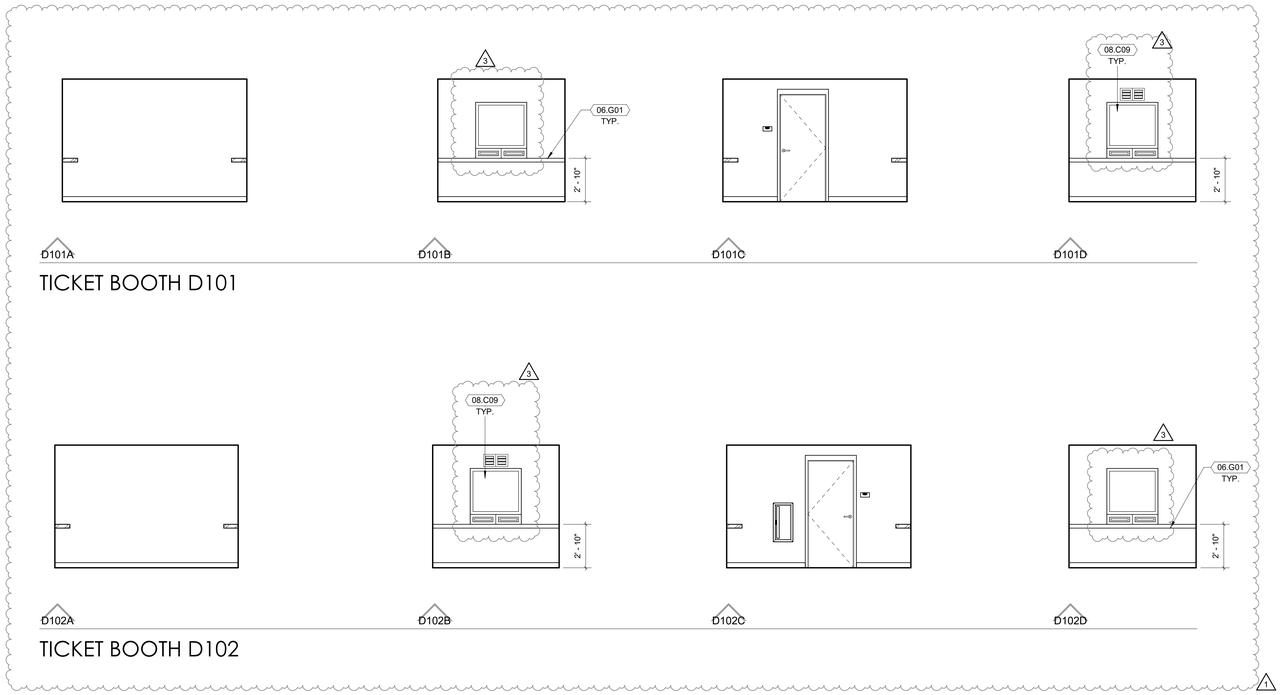
#	DESCRIPTION	DATE
1	ADDENDUM 01	08/18/2025
3	ADDENDUM 03	08/27/2025

CONSTRUCTION DOCUMENTS

ELEVATIONS & SECTIONS - BUILDING D

AD5.1

BIM 360://Madera USD_20-51_MHS Field House/20-51_MHS STADIUM_V21.rvt
8/27/2025 7:05:46 PM



KEYNOTES

XX-XX

06.G01 SOLID SURFACE COUNTERTOP
08.C09 TRANSACTION WINDOW

SYMBOL LEGEND - INT. ELEVATION

CASEWORK SYMBOL

CASEWORK SYMBOL

HEIGHT
MODIFIED
DEPTH
CASEWORK MODEL
LOCK
WIDTH

NOTE: SEE CASEWORK BACKING AND ATTACHMENT DETAILS ON SHEET AX5.2

NOTE: DIMENSIONS ARE TO THE NEAREST WHOLE NUMBER, CONTRACTOR TO FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION

FINISH KEYNOTE SYMBOL

XX-XX = INDICATES FINISH, SEE COLOR SCHEDULE ON AX5.0

INTERIOR ELEVATION LEGEND

HATCH INDICATES GYPSUM BOARD FINISH U.O.N. P-1
HATCH INDICATES WALL TILE FINISH, TL-2 U.O.N.
HATCH INDICATES FLOOR & BASE TILE FINISH, TL-6 U.O.N.
HATCH INDICATES CONCRETE COLUMN
HATCH INDICATES OMEGA AKROGOLD DEF SYSTEM - AKROFLEX MULTI-TEX FINISH
HATCH INDICATES FIBERGLASS REINFORCED PANELING
HATCH INDICATES FIRE RESISTANT PAINT o/ 5/8" FIRE RESISTANT PLYWOOD
2
HATCH INDICATES GLAZING REFER TO WINDOW SCHEDULE
HATCH INDICATES OPEN TO BEYOND

GENERAL NOTES

1. REFER TO REFLECTED CEILING PLAN FOR CEILING AND SOFFIT HEIGHTS.
2. REFER TO DETAIL 25 / AX5.2 FOR CASEWORK ANCHORAGE DETAILS.
3. FOR ELEVATIONS THAT ARE NOT ILLUSTRATED MATCH FINISHES OF TYPICAL ROOM ELEVATION AND REFER TO INTERIOR FINISH SCHEDULE.
4. SEE SHEET GO.2 FOR ADDITIONAL SYMBOLS NOT SHOWN.
5. REFER TO INTERIOR FINISH SCHEDULE TYPICAL PAINT COLORS.
6. ALL EXPOSED METAL DECK AND STRUCTURAL STEEL IS TO COMPLY WITH "ARCHITECTURALLY EXPOSED STRUCTURAL STEEL FRAMING", REFER TO SPECIFICATION.

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL STADIUM

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

LICENSED ARCHITECT
MICHAEL R. SCHOEN
No. C-36295
REGISTRATION DATE
FEB 29, 2020
STATE OF CALIFORNIA

PROJECT NUMBER
20-51

DATE
08/12/2024

DSA APPLICATION NO.
02-122784

FILE NO.
20-H3

PTN NO.
65243-154

DRAWN BY
Author

REVISIONS

#	DESCRIPTION	DATE
1	ADDENDUM 01	08/18/2025
3	ADDENDUM 03	08/27/2025

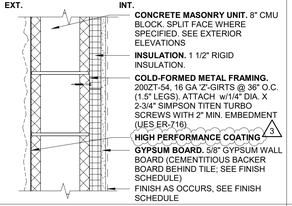
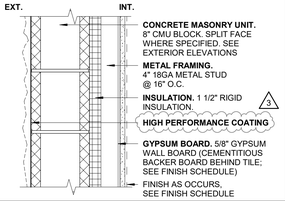
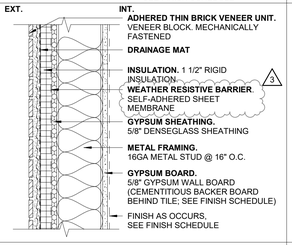
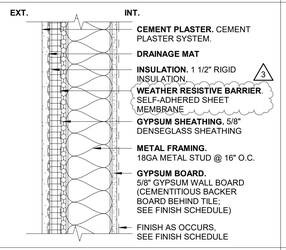
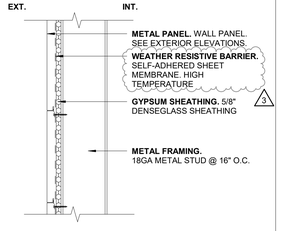
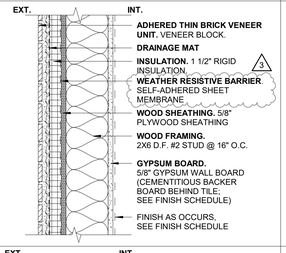
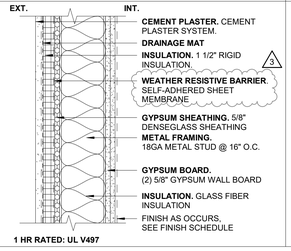
CONSTRUCTION DOCUMENTS

INTERIOR ELEVATIONS - BUILDING D

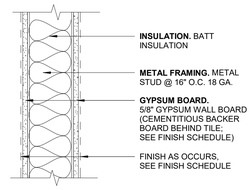
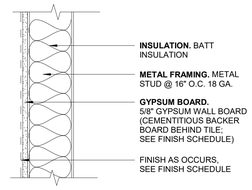
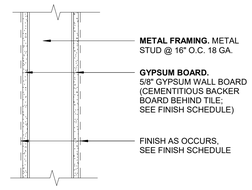
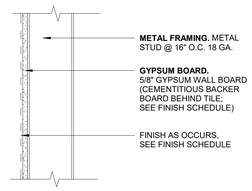
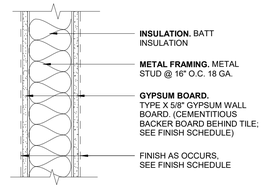
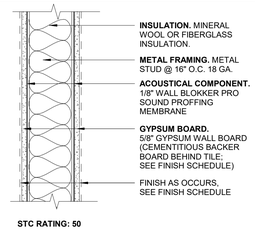
AD7.1

BIM 360://Madera USD_20-51_MHS Field House/20-51_MHS STADIUM_V21.rvt
8/27/2025 7:05:51 PM

EXTERIOR WALL TYPES

WALL TAG	ASSEMBLY	HEAD OF WALL DETAILS	BASE OF WALL DETAILS	OTHER DETAILS
EA-1			14 AX2.1, 15 AX2.1, 10 AX2.1, 5 AX2.1	
EB-1			14 AX2.1, 15 AX2.1, 10 AX2.1, 5 AX2.1	
EC-X 1 = 6" MTL STUD 2 = 8" MTL STUD 3 = 10" MTL STUD				
ED-X 1 = 6" MTL STUD 2 = 8" MTL STUD 3 = 10" MTL STUD				
EE-X 1 = 6" MTL STUD 2 = 8" MTL STUD 3 = 10" MTL STUD				
EF-6				
EG-X 1 = 6" MTL STUD 2 = 8" MTL STUD 3 = 10" MTL STUD	 1 HR RATED: UL V497			

INTERIOR WALL TYPES

WALL TAG	ASSEMBLY	HEAD OF WALL DETAILS	BASE OF WALL DETAILS
IA-X 1 = 4" MTL STUD 2 = 6" MTL STUD 3 = 8" MTL STUD 4 = 10" MTL STUD			1 AX5.1, 2 AX5.1, 3 AX5.1
IB-X 1 = 4" MTL STUD 2 = 6" MTL STUD 3 = 8" MTL STUD 4 = 10" MTL STUD			2 AX5.1, 6 AX5.1
IC-X 1 = 4" MTL STUD 2 = 6" MTL STUD 3 = 8" MTL STUD 4 = 10" MTL STUD			1 AX5.1, 2 AX5.1, 3 AX5.1
ID-X 1 = 2-1/2" MTL STUD 2 = 6" MTL STUD 3 = 8" MTL STUD 4 = 10" MTL STUD			
IE-X 1 = 4" MTL STUD 2 = 6" MTL STUD 3 = 8" MTL STUD 4 = 10" MTL STUD	 1 HR RATED: UL 465		2 AX5.1, 3 AX5.1
IF-X 1 = 6" MTL STUD 2 = 8" MTL STUD 3 = 10" MTL STUD	 STC RATING: 50		

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL STADIUM

200 SOUTH "I" STREET
MADERA, CA 93637

CONSTRUCTION DOCUMENTS

MADERA UNIFIED SCHOOL DISTRICT

PROFESSIONAL SEAL

LICENSED ARCHITECT
MICHAEL R. SCHOEN
No. C 28395
RENEWAL DATE
FEB 28, 2027
STATE OF CALIFORNIA

PROJECT NUMBER
20-51

DATE
08/12/2024

DSA APPLICATION NO.
02-122784

FILE NO.
20-H3

PTN NO.
65243-154

DRAWN BY
Author

REVISIONS

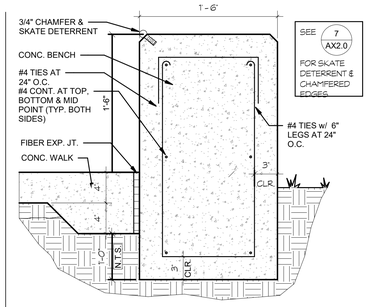
#	DESCRIPTION	DATE
3	ADDENDUM 03	08/27/2025

CONSTRUCTION DOCUMENTS

WALL TYPES

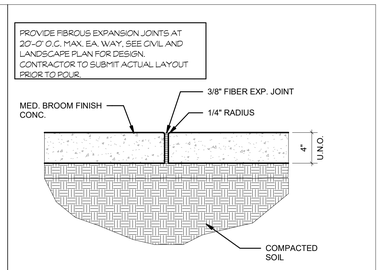
AX1.0

BIM 360://Madera USD_20-51_MHS Field House/20-51_MHS STADIUM_V21.rvt
8/27/2025 7:06:13 PM



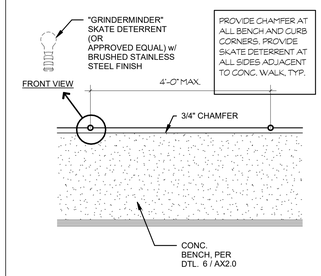
6 CONC. BENCH

SCALE: 1 1/2" = 1'-0"



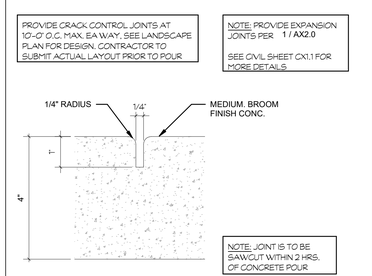
1 EXPANSION JOINT

SCALE: 1 1/2" = 1'-0"



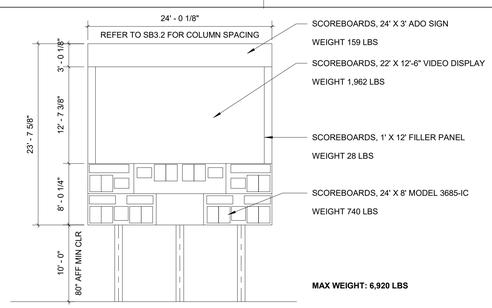
7 CONC. BENCH - REVEALS

SCALE: 1" = 1'-0"



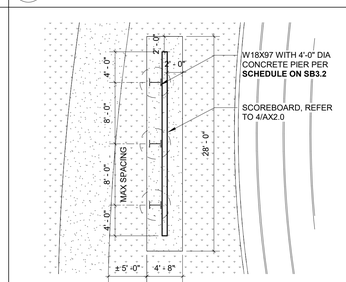
2 TYPICAL CONTROL JOINT

SCALE: 6" = 1'-0"



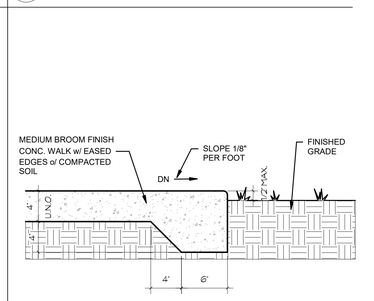
4 SCOREBOARD ELEVATION

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



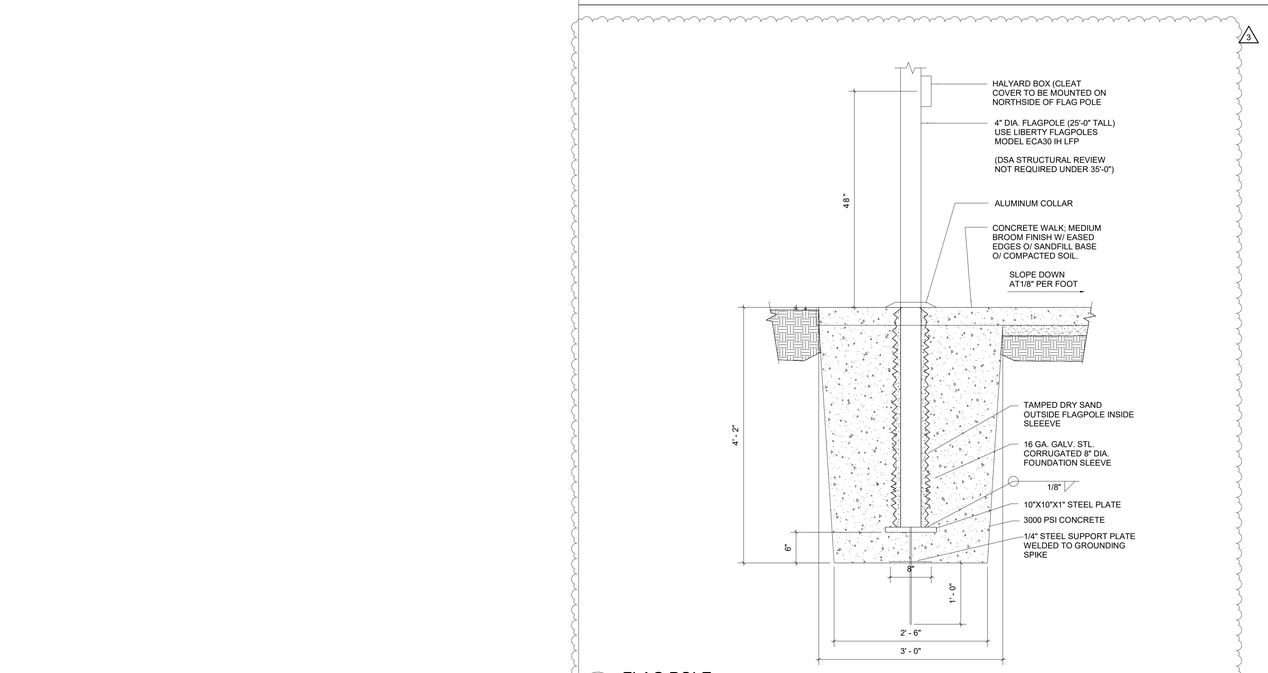
8 ENLARGED SCOREBOARD

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



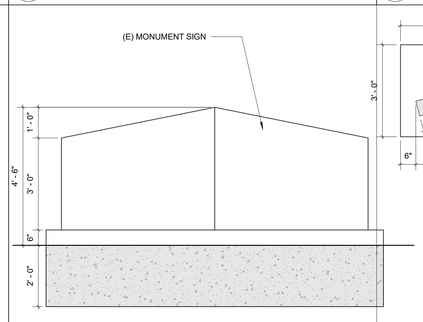
3 WALK AT GRADE

SCALE: 1 1/2" = 1'-0"



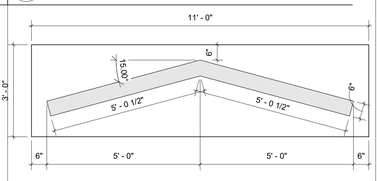
20 FLAG POLE

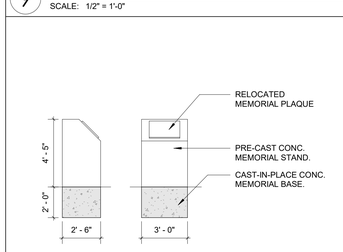
SCALE: 1" = 1'-0"



9 MONUMENT

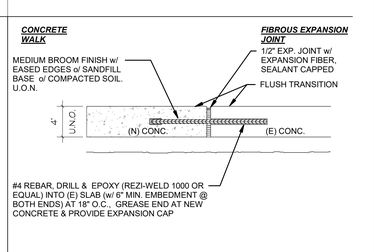
SCALE: 1/2" = 1'-0"





10 MEMORIAL MONUMENT SIGN

SCALE: 1/4" = 1'-0"



5 EXPANSION JOINT @ EX. CONC. WALK

SCALE: 1 1/2" = 1'-0"

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL STADIUM

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

MADERA UNIFIED SCHOOL DISTRICT

PROFESSIONAL SEAL

LICENSED ARCHITECT
MICHAEL R. SCHOEN
No. C-32345
RENEWAL DATE
FEB 28, 2027
STATE OF CALIFORNIA

PROJECT NUMBER
20-51

DATE
08/12/2024

DSA APPLICATION NO.
02-122784

FILE NO.
20-H3

PTN NO.
65243-154

DRAWN BY
Author

REVISIONS

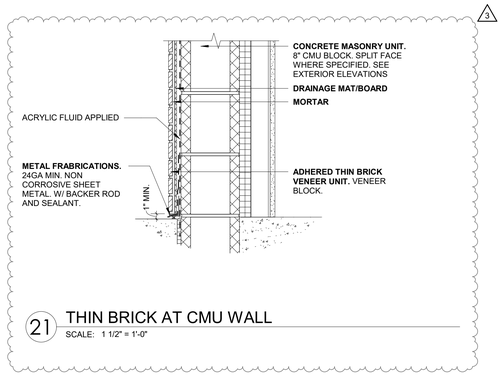
#	DESCRIPTION	DATE
3	ADDENDUM 03	08/27/2025

CONSTRUCTION DOCUMENTS

SITE DETAILS

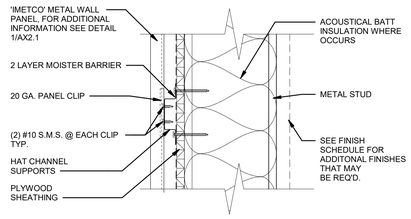
AX2.0

BIM 360://Madera USD_20-51_MHS Field House/20-51_MHS STADIUM_V21.rvt
8/27/2025 7:06:14 PM



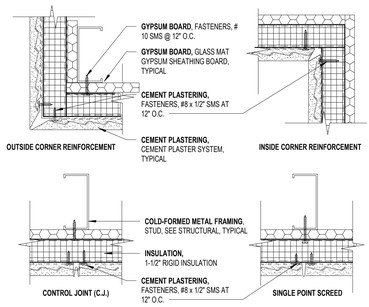
21 THIN BRICK AT CMU WALL

SCALE: 1 1/2" = 1'-0"



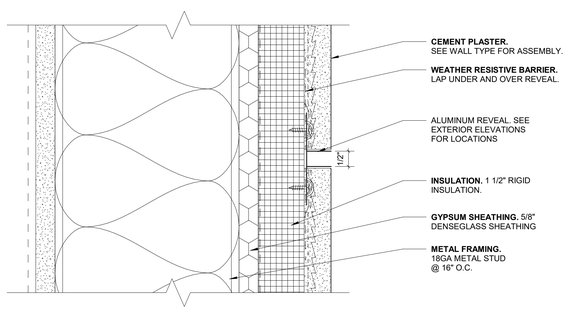
22 METAL PANEL

SCALE: 3" = 1'-0"



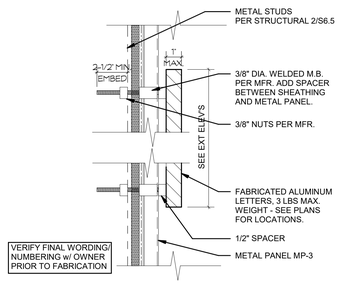
23 CEMENT PLASTER ACCESSORIES

SCALE: 3" = 1'-0"



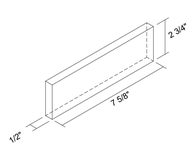
24 CEMENT PLASTER REVEAL

SCALE: 6" = 1'-0"



25 ALUM. LETTER MOUNTING @ METAL PANEL

SCALE: 3" = 1'-0"

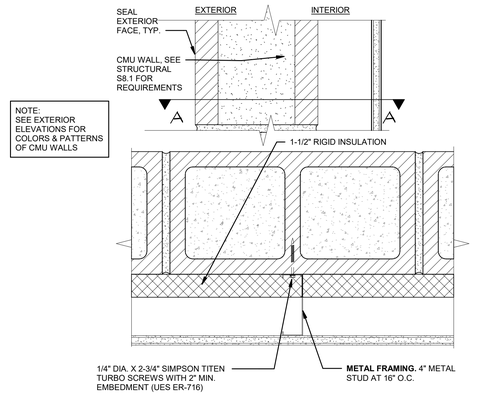


1/2" ENGINEER MODULAR

5.63 BRICKS PER SQUARE FOOT
.8 LBS PER UNIT

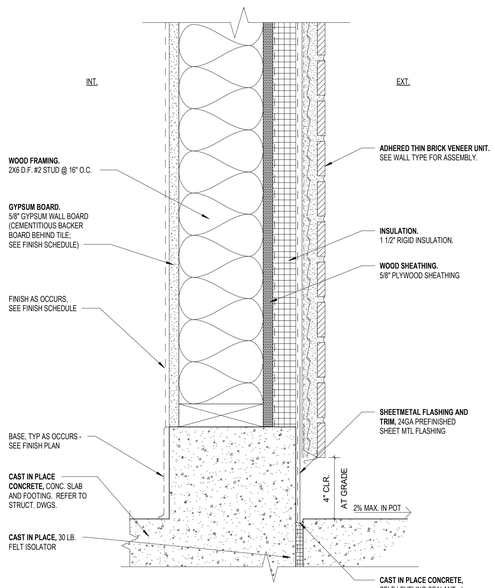
20 THIN BRICK PROFILE

SCALE: 3" = 1'-0"



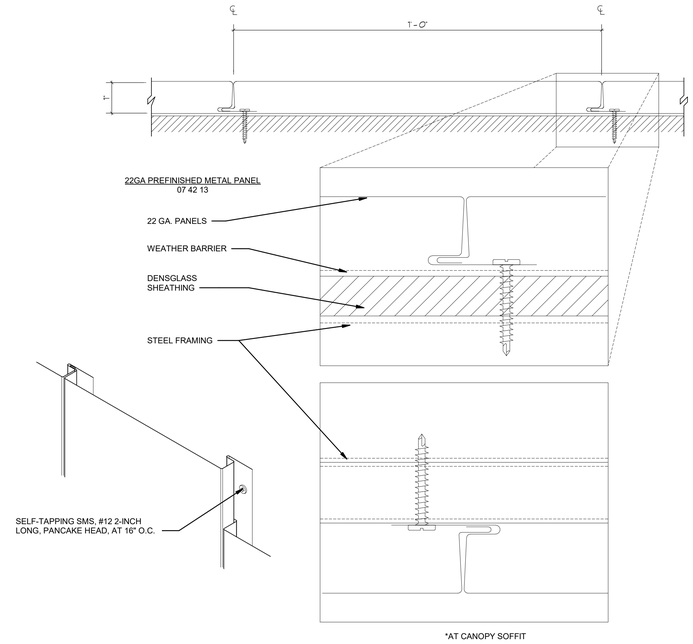
11 CMU WALL TYPE EB-1

SCALE: 3" = 1'-0"



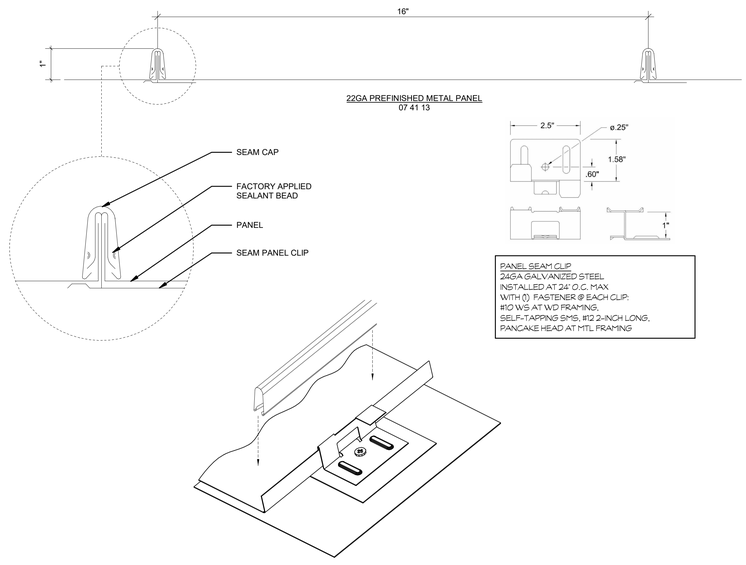
14 BRICK VENEER WALL BASE - EF-6

SCALE: 3" = 1'-0"



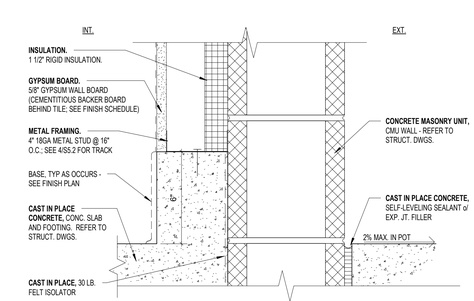
9 METAL PANEL PROFILE MP-4

SCALE: 6" = 1'-0"



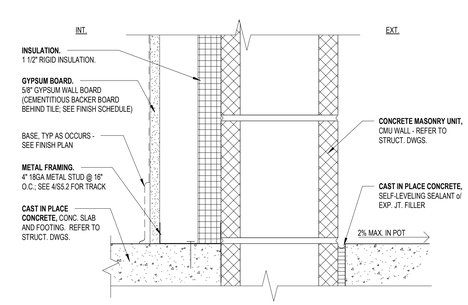
7 METAL PANEL PROFILE MP-3

SCALE: 6" = 1'-0"



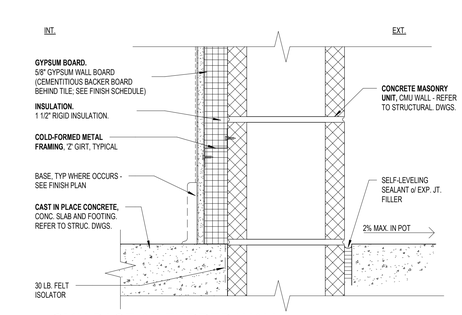
15 CMU BASE AT FURRED WALL EB-1 AT CONC CURB

SCALE: 3" = 1'-0"



10 CMU WALL AT FURRED WALL EB-1

SCALE: 3" = 1'-0"



5 CMU BASE AT FURRED WALL EA-1

SCALE: 3" = 1'-0"

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL STADIUM

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

LICENSED ARCHITECT
MICHAEL R. SCHOEN
No. C-35205
RENEWAL DATE
FEB 28, 2027
STATE OF CALIFORNIA

PROJECT NUMBER	20-51
DATE	08/12/2024
DSA APPLICATION NO.	02-122784
FILE NO.	20-H3
PTN NO.	65243-154
DRAWN BY	Author

REVISIONS

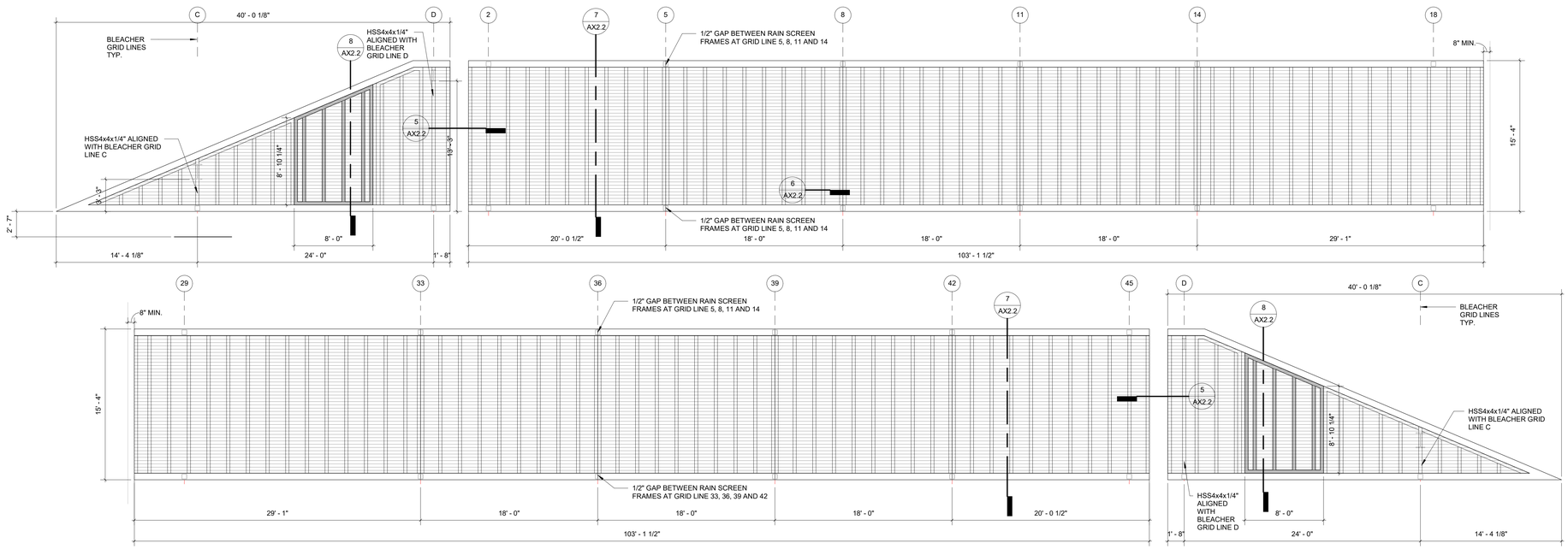
#	DESCRIPTION	DATE
3	ADDENDUM 03	08/27/2025

CONSTRUCTION DOCUMENTS

EXTERIOR DETAILS

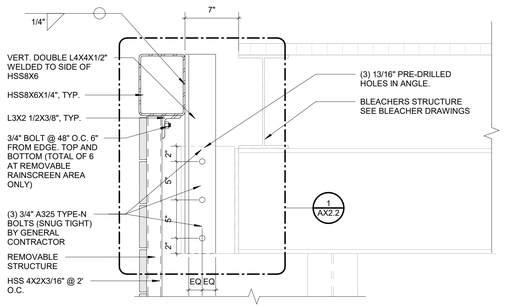
AX2.1

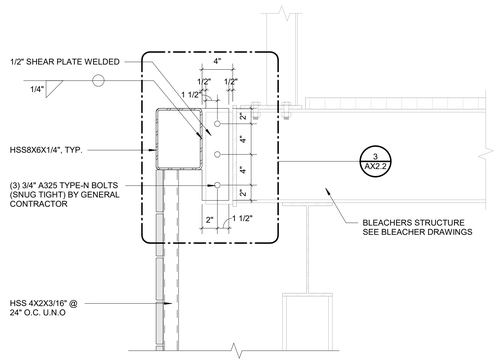
BIM 360://Madera USD_20-51_MHS Field House/20-51_MHS STADIUM_V21.rvt
8/27/2025 9:10:47 PM

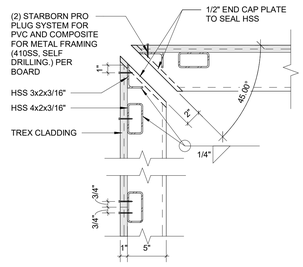


9 RAIN SCREEN ELEVATIONS

SCALE: 3/16" = 1'-0"

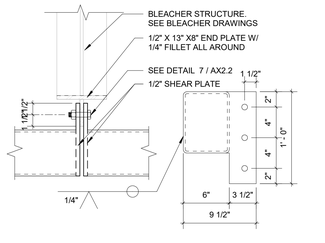






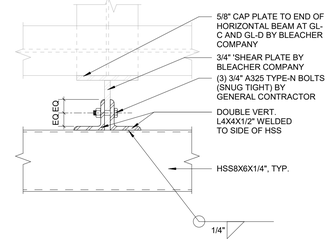
5 RAIN SCREEN - CORNER

SCALE: 1 1/2" = 1'-0"



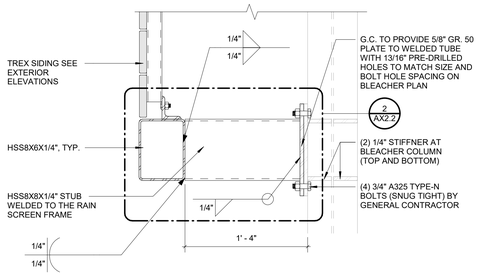
3 RAIN SCREEN - CONNECTION TOP

SCALE: 1 1/2" = 1'-0"



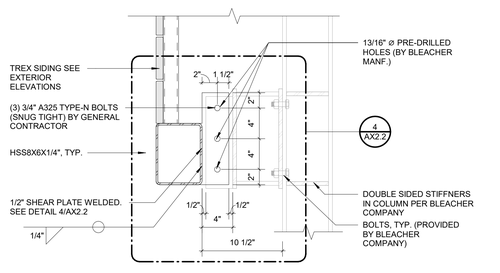
1 RAIN SCREEN - CONNECTION

SCALE: 1 1/2" = 1'-0"



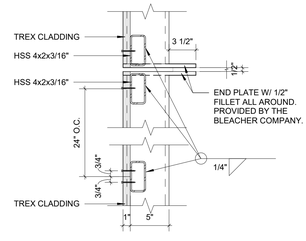
8 RAIN SCREEN - DETAIL SECTION 1

SCALE: 1 1/2" = 1'-0"



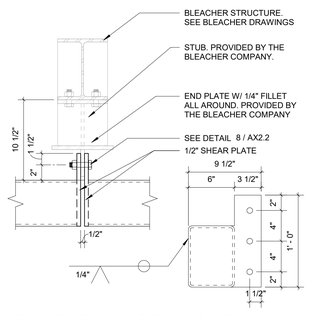
7 RAIN SCREEN - DETAIL SECTION 2

SCALE: 1 1/2" = 1'-0"



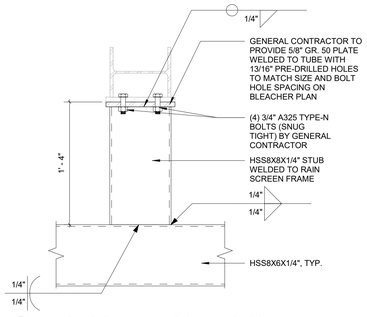
6 RAIN SCREEN - THERMAL BREAK

SCALE: 1 1/2" = 1'-0"



4 RAIN SCREEN - CONNECTION

SCALE: 1 1/2" = 1'-0"



2 RAIN SCREEN - CONNECTION

SCALE: 1 1/2" = 1'-0"

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL STADIUM

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

MADERA 19 66 UNIFIED SCHOOL DISTRICT

PROFESSIONAL SEAL

LICENSED ARCHITECT — MICHAEL R. SCHOEN — No. C-23295 — RENEWAL DATE FEB 28, 2027 — STATE OF CALIFORNIA

PROJECT NUMBER
20-51

DATE
08/12/2024

DSA APPLICATION NO.
02-122784

FILE NO.
20-H3

PTN NO.
65243-154

DRAWN BY
Author

REVISIONS

#	DESCRIPTION	DATE
3	ADDENDUM 03	08/27/2025

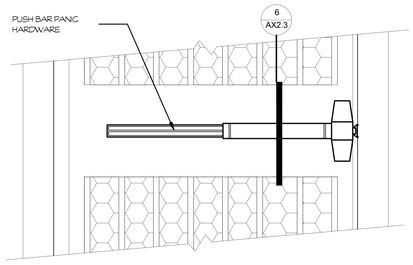
CONSTRUCTION DOCUMENTS

EXTERIOR DETAILS - RAIN SCREEN

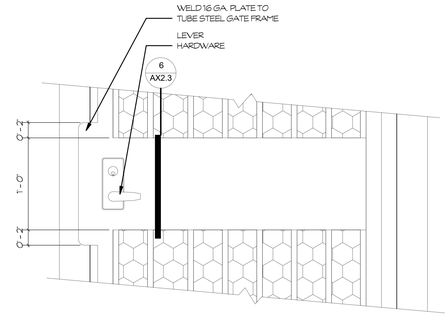
AX2.2

3

BIM 360://Madera USD_20-51_MHS Field House/20-51_MHS STADIUM_V21.rvt
8/27/2025 7:06:18 PM



ELEVATION



ELEVATION

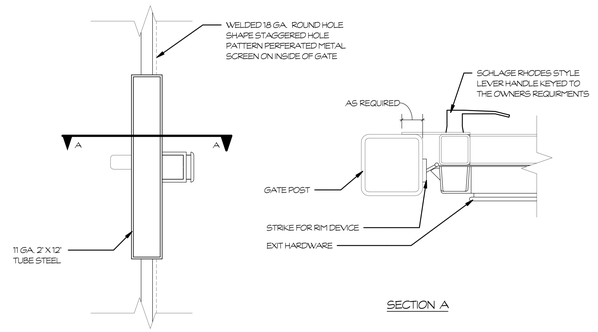
NOTE:

1. OPEN END OF POSTS TO GET 1/8" CAP PLATE WELDED ON ALL SIDES
2. ALL HARDWARE TO BE EXTERIOR GRADE
3. CYLINDER & KEYWAY TO BE SELECTED BY SCHOOL DISTRICT
4. EXIT HARDWARE MANUFACTURED BY HOOVER FENCE CO. MODEL #D-6030 & OUTSIDE TRIM LEVER #D-6100. MOUNT EXIT HARDWARE TO TUBE STEEL PER MANUFACTURES SPECIFICATIONS. PROVIDE ALL REQUIRED ACCESSORIES FOR COMPLETE INSTALLATION. MOUNTED BETWEEN 34" MIN. TO 44" MAX. A.F.F.
5. ALL FENCE AND GATE COMPONENTS SHALL BE POWDER COATED AFTER FABRICATION. LOCKING HARDWARE EXCLUDED.
6. GATE TO HAVE A MAX. PUSH/PULL FORCE OF 5 LBS.
7. PROVIDE 1/4" DRILLED WEEP HOLES AT UNDERSIDE OF HORIZONTAL TUBES AND BOTTOM SIDES OF VERTICAL TUBE

5 PANIC BAR AT WROUGHT IRON

1/ AS1.2

SCALE: 1 1/2" = 1'-0"

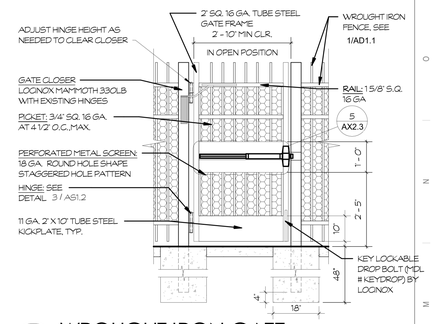


SECTION A

6 GATE LATCH

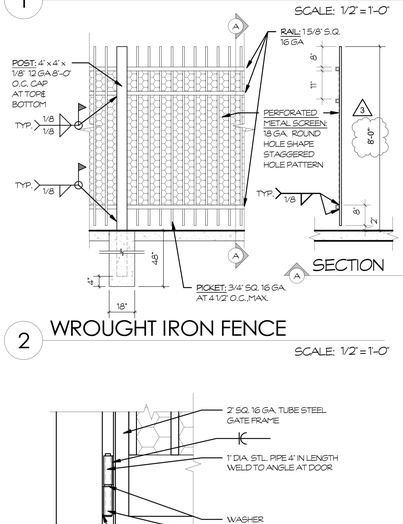
5/ AS1.2

SCALE: 3" = 1'-0"



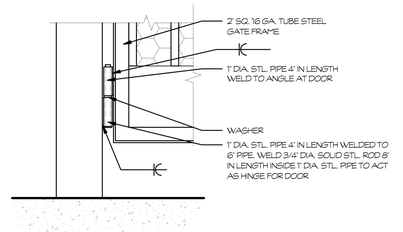
1 WROUGHT IRON GATE

SCALE: 1/2" = 1'-0"



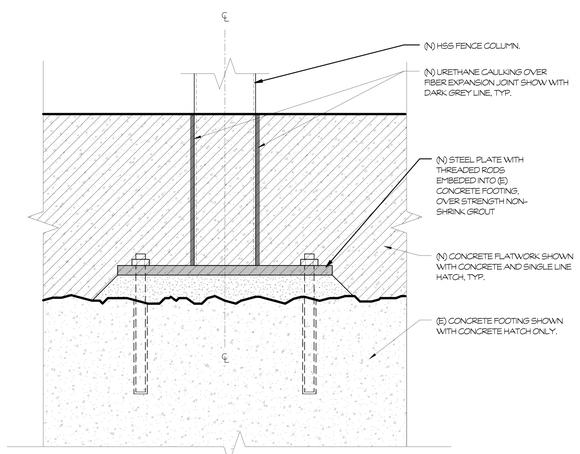
2 WROUGHT IRON FENCE

SCALE: 1/2" = 1'-0"



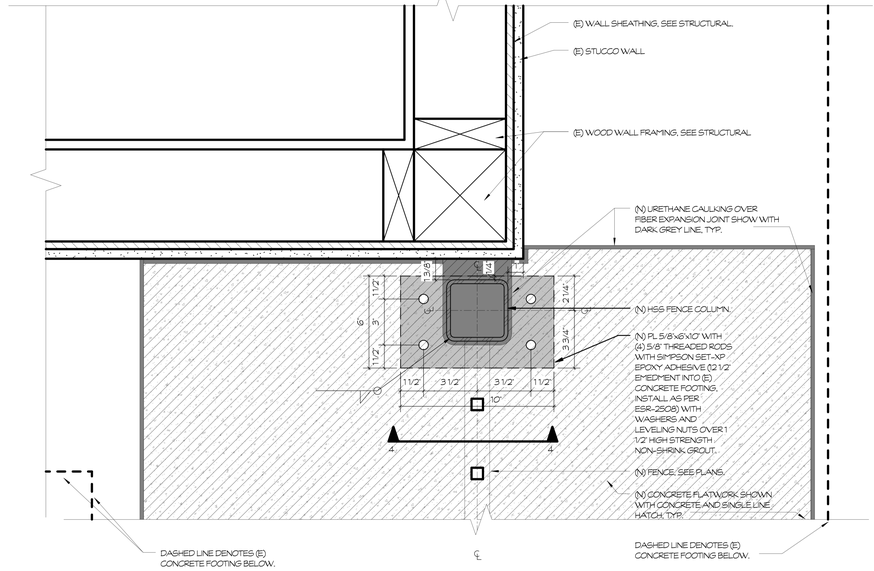
3 GATE HINGE

SCALE: 1 1/2" = 1'-0"



4A END FENCE POST ANCHOR (ELEVATION)_REVISED

SCALE: 3" = 1'-0"



4 END FENCE POST ANCHOR (PLAN VIEW)_REVISED

SCALE: 3" = 1'-0"

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL STADIUM

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

LICENSED ARCHITECT
MICHAEL R. SCHOEN
No. C-35295
RENEWAL DATE
FEB 28, 2027
STATE OF CALIFORNIA

PROJECT NUMBER	20-51
DATE	08/12/2024
DSA APPLICATION NO.	02-122784
FILE NO.	20-H3
PTN NO.	65243-154
DRAWN BY	Author

REVISIONS

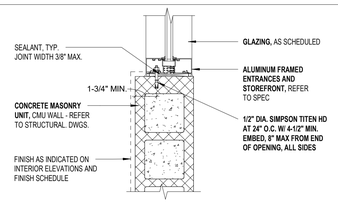
#	DESCRIPTION	DATE
3	ADDENDUM 03	08/27/2025

CONSTRUCTION DOCUMENTS

EXTERIOR DETAILS - GATES

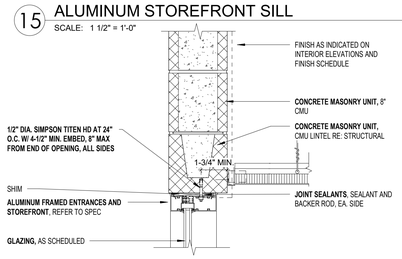
AX2.3

BIM 360://Madera USD_20-51_MHS Field House/20-51_MHS STADIUM_V21.rvt
8/27/2025 7:06:19 PM



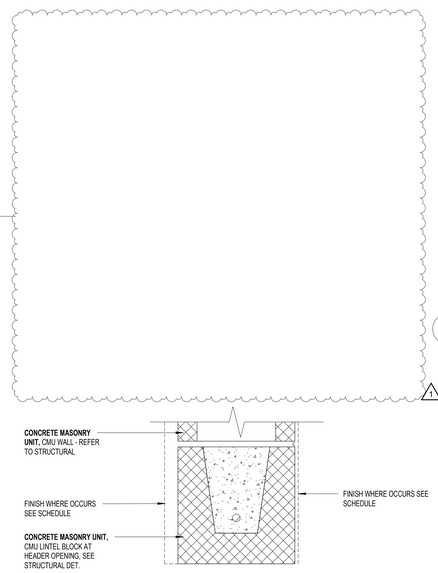
15 ALUMINUM STOREFRONT SILL

SCALE: 1 1/2" = 1'-0"



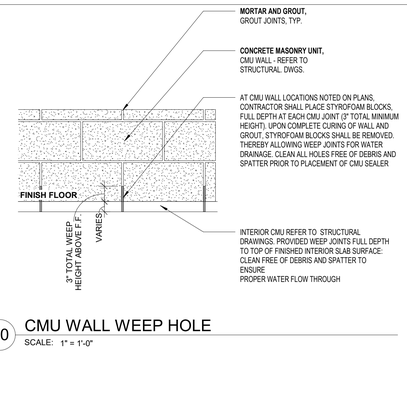
22 ALUMINUM STOREFRONT HEAD

SCALE: 1 1/2" = 1'-0"



14 CMU HEADER

SCALE: 3" = 1'-0"



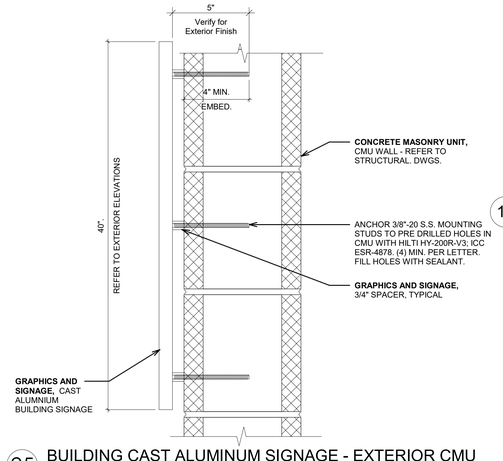
10 CMU WALL WEEP HOLE

SCALE: 1" = 1'-0"



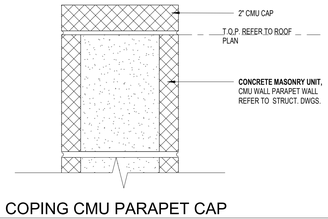
19 EXTERIOR WALL MOUNTED FIXTURE

SCALE: 3" = 1'-0"



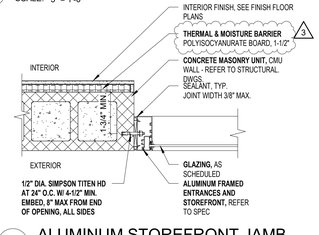
25 BUILDING CAST ALUMINUM SIGNAGE - EXTERIOR CMU

SCALE: 3" = 1'-0"



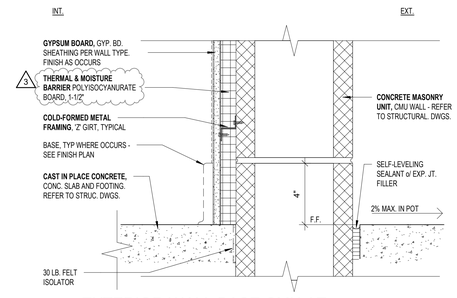
11 COPING CMU PARAPET CAP

SCALE: 3" = 1'-0"



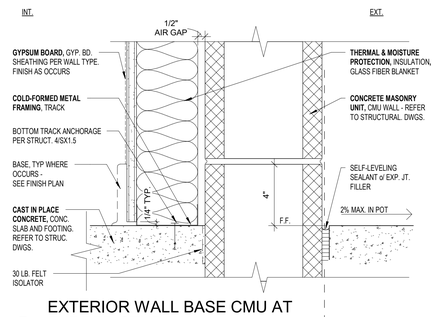
16 ALUMINUM STOREFRONT JAMB

SCALE: 1 1/2" = 1'-0"



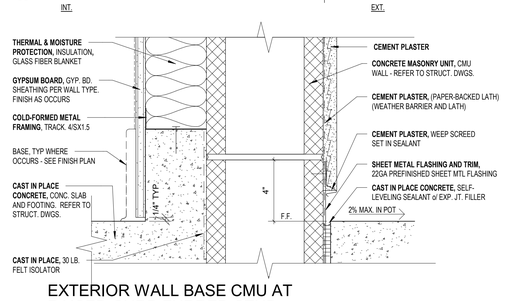
08 EXTERIOR WALL BASE CMU AT FURRED WALL

SCALE: 3" = 1'-0"



07 EXTERIOR WALL BASE CMU AT FURRED STUD WALL

SCALE: 3" = 1'-0"



06 EXTERIOR WALL BASE CMU AT RAISED CURB FURRED STUD WALL

SCALE: 3" = 1'-0"

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL STADIUM

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

MADERA 19 66 UNIFIED SCHOOL DISTRICT

PROFESSIONAL SEAL

LICENSED ARCHITECT — MICHAEL R. SCHOEN — No. C-26395 — RENEWAL DATE: SEPTEMBER 28, 2027 — STATE OF CALIFORNIA

PROJECT NUMBER 20-51

DATE 08/12/2024

DSA APPLICATION NO. 02-122784

FILE NO. 20-H3

PTN NO. 65243-154

DRAWN BY Author

REVISIONS

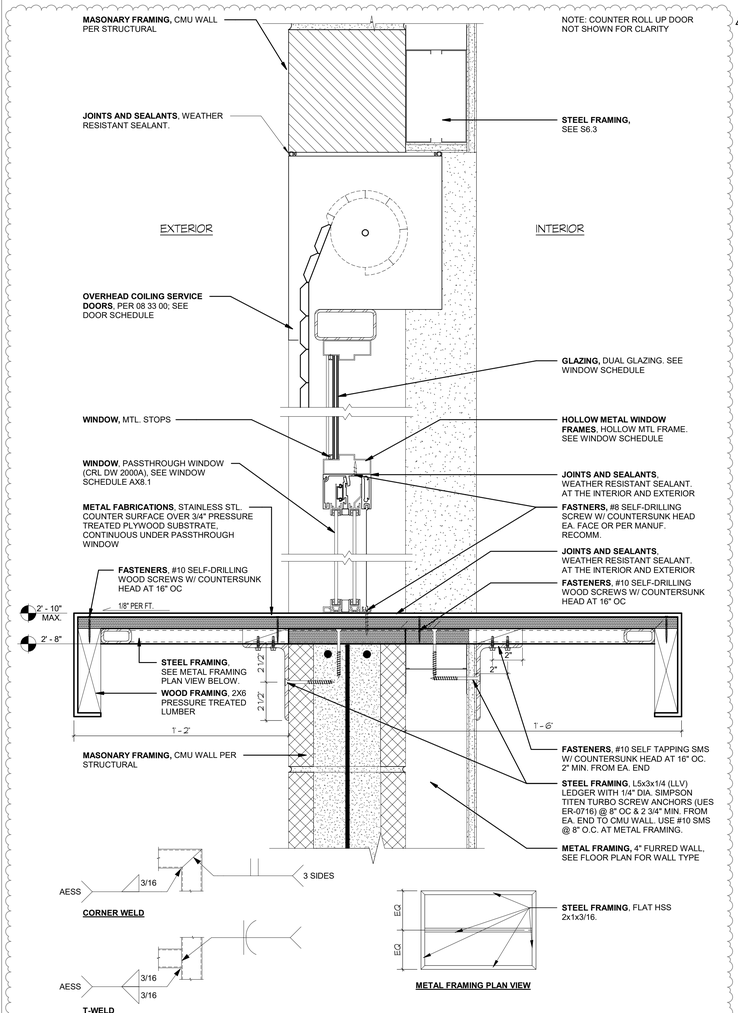
#	DESCRIPTION	DATE
1	ADDENDUM 01	08/18/2025
3	ADDENDUM 03	08/27/2025

CONSTRUCTION DOCUMENTS

TYPICAL EXTERIOR DETAILS-CMU

AX2.4

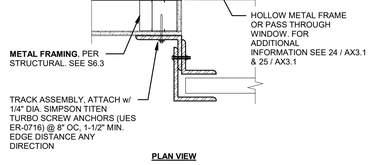
BIM 360://Madera USD_20-51_MHS Field House/20-51_MHS STADIUM_V21.rvt
8/27/2025 7:06:21 PM



23 PASS THROUGH WINDOW

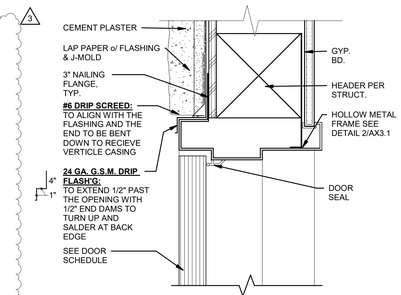
1/ AA5.1

SCALE: 3" = 1'-0"



17 COUNTER ROLLUP DOOR - BRACKET

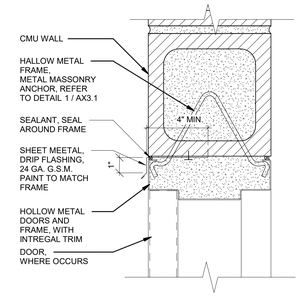
SCALE: 1 1/2" = 1'-0"



NOTE: BOTH THE HEAD FLASHING AND THE #6 WILL BE COVERED WITH AN ADDITIONAL STRIP OF FLEXIBLE FLASHING BENEATH TYVEK AT THE HEAD.

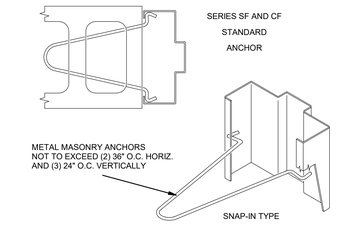
11 DOOR HEAD @ WOOD STUDS

SCALE: 3" = 1'-0"



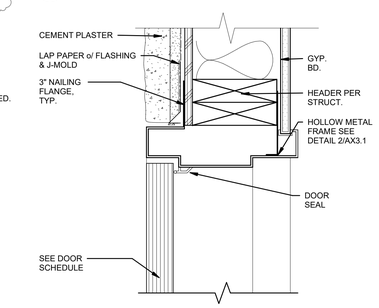
6 HM FRAME AT CMU - HEAD

SCALE: 3" = 1'-0"



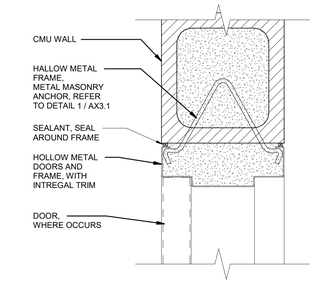
1 WIRE MASONRY ANCHOR

SCALE: 1" = 1'-0"



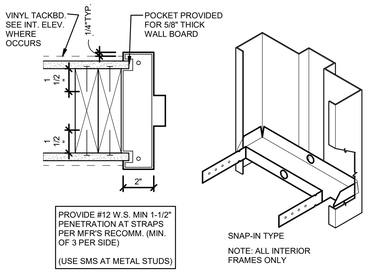
12 DOOR JAMB @ WOOD STUDS

SCALE: 3" = 1'-0"



7 HM DOOR FRAME - JAMB

SCALE: 3" = 1'-0"

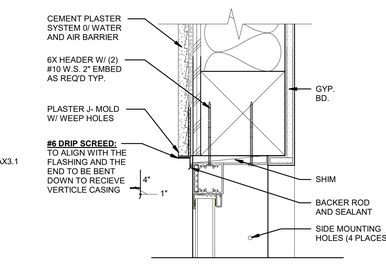


2 H.M. FRAME ANCHOR @ INT. FRAME

SCALE: 3" = 1'-0"

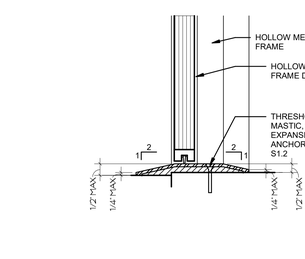
18 COUNTER ROLL UP DOOR - JAMB

SCALE: 1 1/2" = 1'-0"



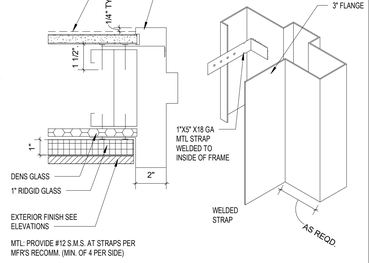
13 TRANSACTION WINDOW HEAD (JAMB SIM.)

SCALE: 3" = 1'-0"



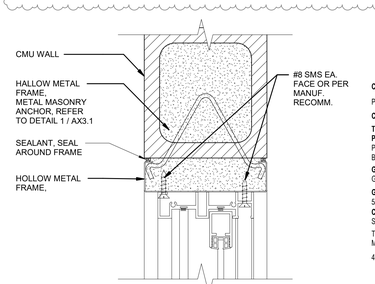
8 DOOR THRESHOLD

SCALE: 12" = 1'-0"



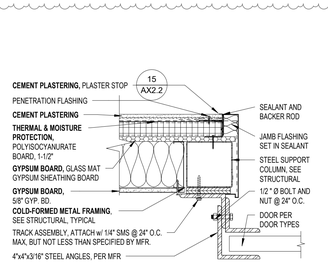
3 HM FRAME ANCHOR @ INT. FRAME

SCALE: 3" = 1'-0"



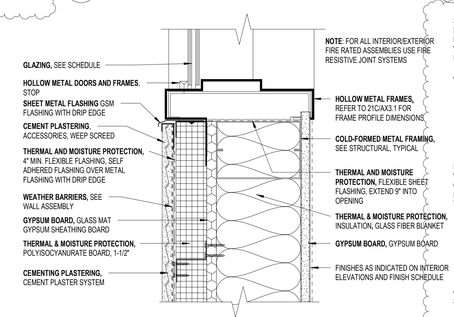
24 HM PASS-THROUGH WINDOW FRAME - JAMB

SCALE: 3" = 1'-0"



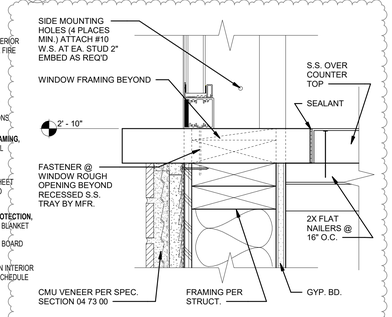
19 COILING OH DOOR @ JAMB

SCALE: 1 1/2" = 1'-0"



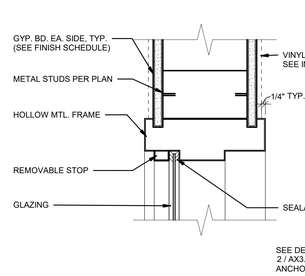
21 WIND. SILL @ CEMENT PLASTER

SCALE: 3" = 1'-0"



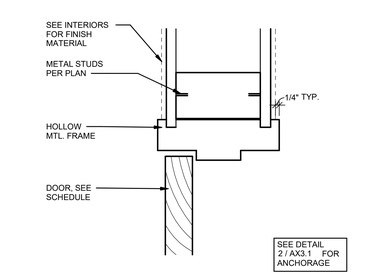
14 TRANSACTION WINDOW SILL

SCALE: 3" = 1'-0"



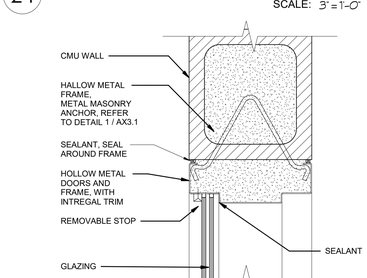
9 INT. WINDOW JAMB - HEAD/ SILL SIM.

SCALE: 3" = 1'-0"



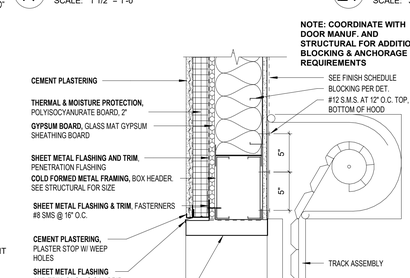
4 INTERIOR DOOR HEAD & JAMB

SCALE: 3" = 1'-0"



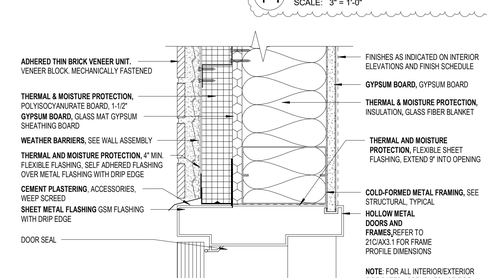
25 HM WINDOW FRAME @ CMU - JAMB

SCALE: 3" = 1'-0"



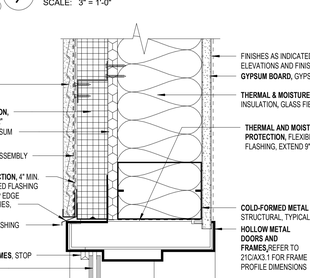
20 COUNTER ROLL UP DOOR - HEAD PLASTER FINISH

SCALE: 1 1/2" = 1'-0"



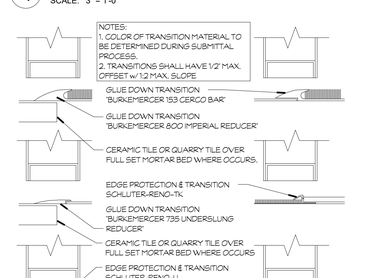
15 EXT. DOOR HEAD @ BRICK VENEER (JAMB SIM)

SCALE: 3" = 1'-0"



10 EXT. WIND. HEAD @ CEMENT PLASTER (JAMB SIM)

SCALE: 3" = 1'-0"



5 FLOORING TRANSITIONS

SCALE: 3" = 1'-0"

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL STADIUM

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

MADERA UNIFIED SCHOOL DISTRICT 19 66

PROFESSIONAL SEAL

LICENSED ARCHITECT — MICHAEL R. SCHOEN — No. C-35295 — RENEWAL DATE 08-31-2027 — STATE OF CALIFORNIA

PROJECT NUMBER 20-51

DATE 08/12/2024

DSA APPLICATION NO. 02-122784

FILE NO. 20-H3

PTN NO. 65243-154

DRAWN BY Author

REVISIONS

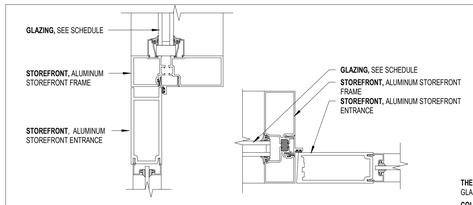
#	DESCRIPTION	DATE
3	ADDENDUM 03	08/27/2025

CONSTRUCTION DOCUMENTS

OPENING DETAILS

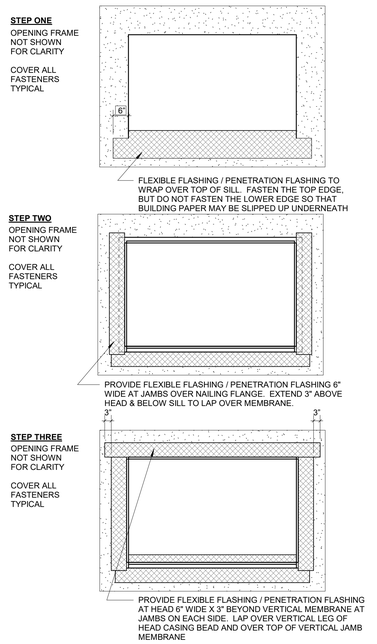
AX3.1

BIM 360://Madera USD_20-51_MHS Field House/20-51_MHS STADIUM_V21.rvt
8/27/2025 7:06:23 PM



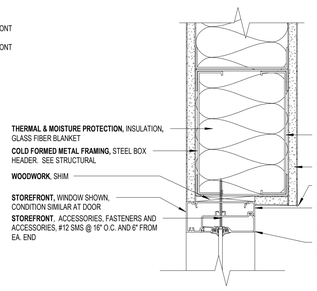
25 ALUMINUM STOREFRONT TRANSITION

SCALE: 3" = 1'-0"



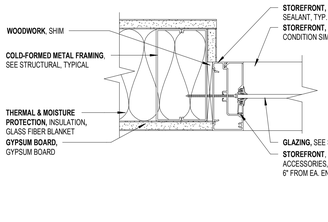
24 TYPICAL OPENINGS FLEXIBLE FLASHING

SCALE: 1/2" = 1'-0"



20 INTERIOR ALUMINUM STOREFRONT HEAD

SCALE: 3" = 1'-0"



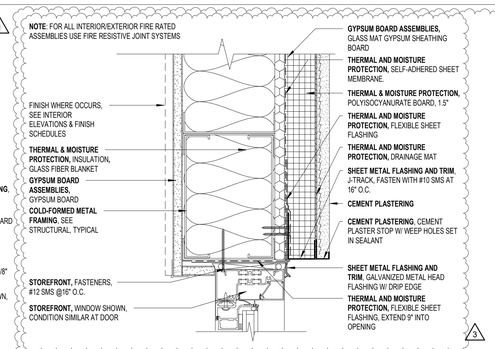
19 INTERIOR ALUMINUM STOREFRONT JAMB

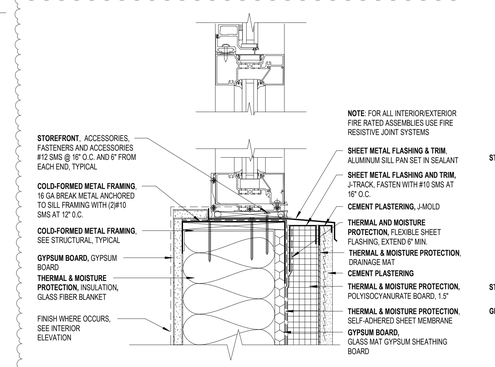
SCALE: 3" = 1'-0"



17 INTERIOR ALUMINUM STOREFRONT SILL

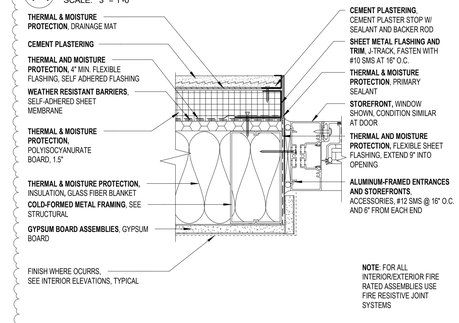
SCALE: 3" = 1'-0"





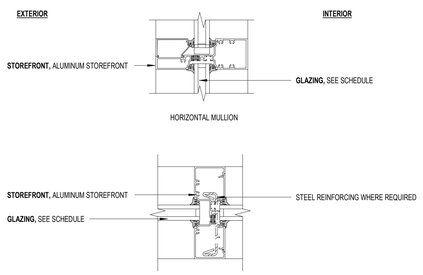
14 PRESSBOX WINDOW - HEAD/MULLION/SILL

SCALE: 3" = 1'-0"



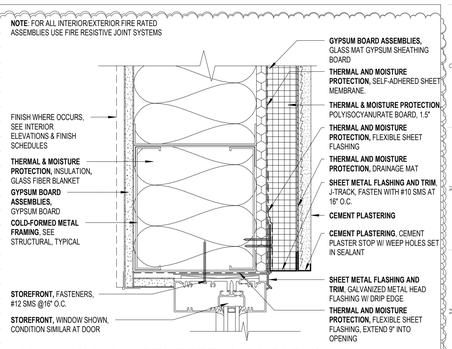
13 PRESSBOX WINDOW - JAMB

SCALE: 3" = 1'-0"



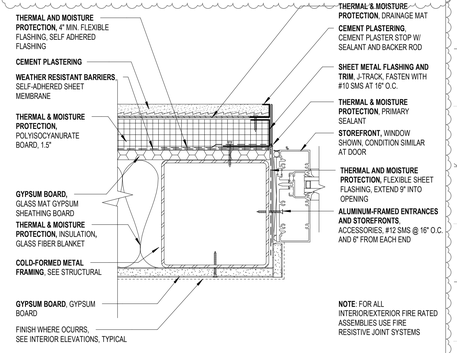
09 ALUMINUM STOREFRONT MULLION

SCALE: 3" = 1'-0"



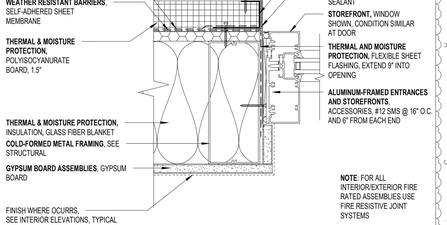
05 ALUMINUM STOREFRONT HEAD @ CP

SCALE: 3" = 1'-0"



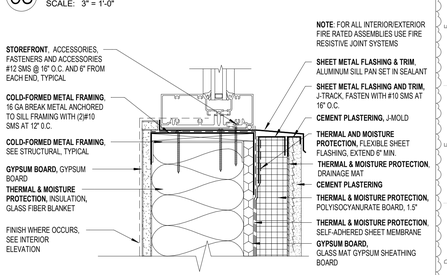
04 ALUMINUM STOREFRONT COLUMN CONDITION

SCALE: 3" = 1'-0"



03 ALUMINUM STOREFRONT JAMB @ CP

SCALE: 3" = 1'-0"



02 ALUMINUM STOREFRONT SILL @ CP

SCALE: 3" = 1'-0"

PBK
ARCHITECT PBK Architects, Inc.
FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL STADIUM

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL

LICENSED ARCHITECT — MICHAEL R. SCHOEN — No. C-36295 — REGISTRATION DATE FEB 29, 2027 — STATE OF CALIFORNIA

PROJECT NUMBER 20-51

DATE 08/12/2024

DSA APPLICATION NO. 02-122784

FILE NO. 20-H3

PTN NO. 65243-154

DRAWN BY PBK

REVISIONS

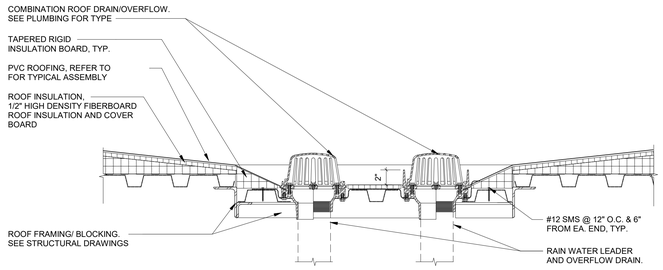
#	DESCRIPTION	DATE
1	ADDENDUM 01	08/18/2025
2	ADDENDUM 02	08/22/2025
3	ADDENDUM 03	08/27/2025

CONSTRUCTION DOCUMENTS

TYPICAL OPENING DETAILS - STOREFRONT

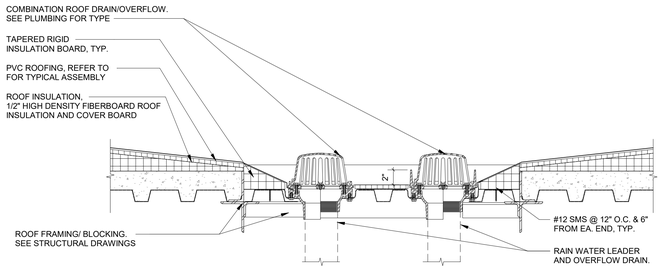
AX3.2

BIM 360://Madera USD_20-51_MHS Field House/20-51_MHS STADIUM_V21.rvt
8/27/2025 7:06:25 PM



26 ROOF AND OVERFLOW DRAINS

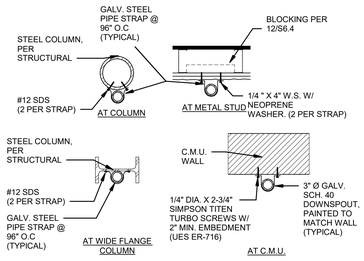
SCALE: 1 1/2" = 1'-0"



NOTE:
SEE 8/AX4.1 FOR ROOF ASSEMBLY

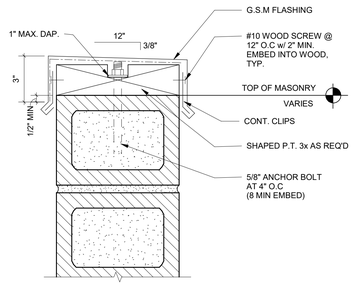
16 ROOF AND OVERFLOW DRAINS AT CONCRETE ROOF

SCALE: 1 1/2" = 1'-0"



6 DOWNSPOUT

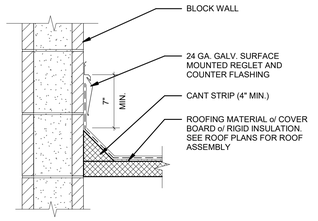
SCALE: 1" = 1'-0"



SECTION VIEW

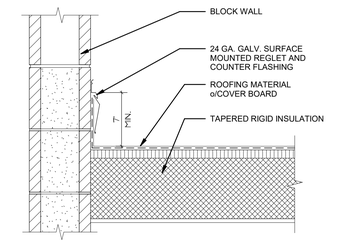
1 CMU @ PARAPET CAP

SCALE: 3" = 1'-0"



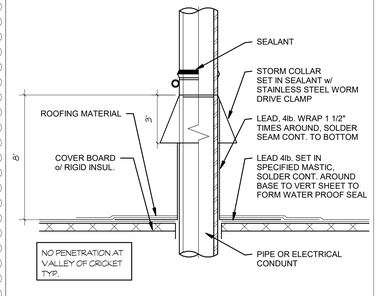
2 CANT STRIP AT MASONRY

SCALE: 1 1/2" = 1'-0"



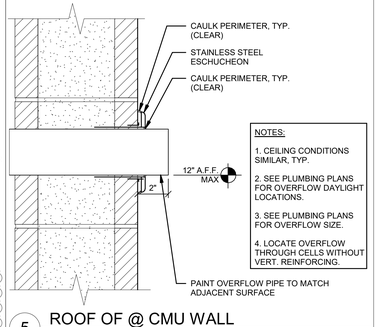
3 CRICKET

SCALE: 1 1/2" = 1'-0"



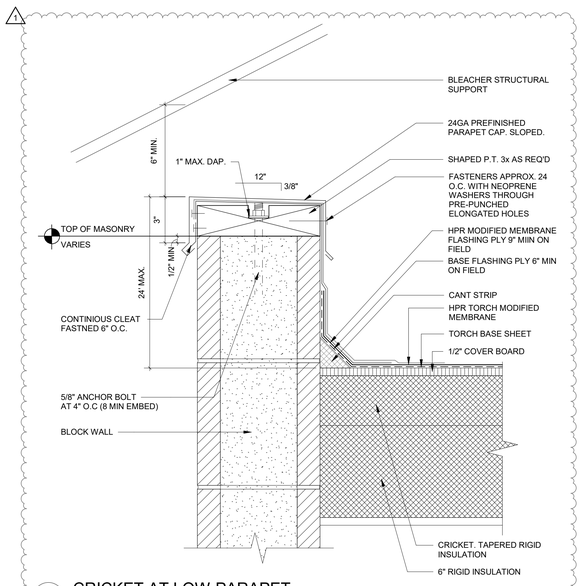
4 ROOF PENETRATION

SCALE: 3" = 1'-0"



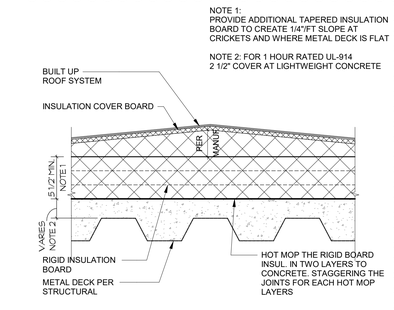
5 ROOF OF @ CMU WALL

SCALE: 3" = 1'-0"



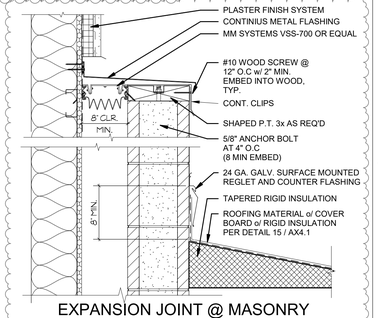
13 CRICKET AT LOW PARAPET

SCALE: 3" = 1'-0"



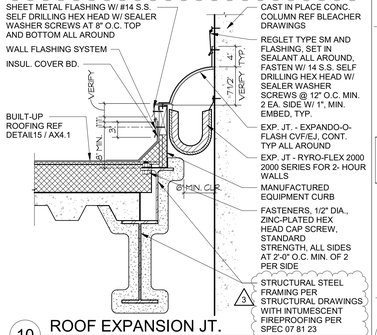
14 RIDGE - BLDG A AND B

SCALE: 1 1/2" = 1'-0"



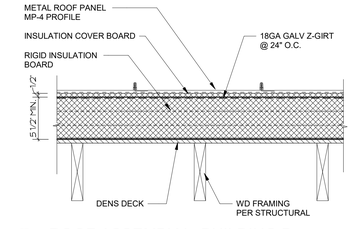
9 EXPANSION JOINT @ MASONRY PARAPET

SCALE: 1 1/2" = 1'-0"



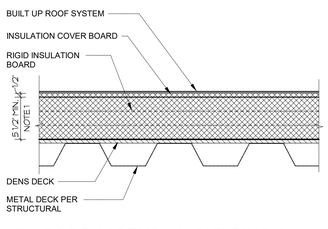
10 ROOF EXPANSION JT.

SCALE: 1" = 1'-0"



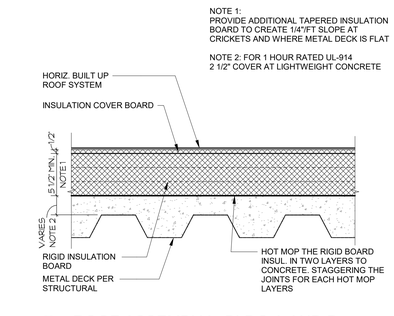
25 ROOF ASSEMBLY - BUILDING D

SCALE: 1 1/2" = 1'-0"



20 ROOF ASSEMBLY - BUILDING C

SCALE: 1 1/2" = 1'-0"



15 ROOF ASSEMBLY - BLDG A AND B

SCALE: 1 1/2" = 1'-0"

PBK

ARCHITECT PBK Architects, Inc.
FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL STADIUM

200 SOUTH "L" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

MADERA UNIFIED SCHOOL DISTRICT

PROFESSIONAL SEAL

LICENSED ARCHITECT
MICHAEL R. SCHOEN
No. C-30295
RENEWAL DATE
FEB 28, 2027
STATE OF CALIFORNIA

PROJECT NUMBER
20-51

DATE
08/12/2024

DSA APPLICATION NO.
02-122784

FILE NO.
20-H3

PTN NO.
65243-154

DRAWN BY
Author

REVISIONS

#	DESCRIPTION	DATE
1	ADDENDUM 01	08/18/2025
2	ADDENDUM 02	08/22/2025
3	ADDENDUM 03	08/27/2025

CONSTRUCTION DOCUMENTS

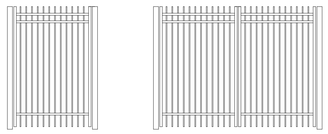
ROOF DETAILS

AX4.1

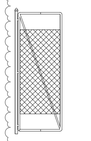
BIM 360://Madera USD_20-51_MHS Field House/20-51_MHS STADIUM_V21.rvt
8/27/2025 7:06:27 PM

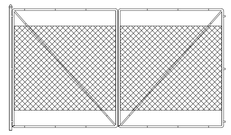
GATE SCHEDULE

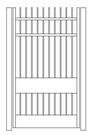
GATE NO.	GATE TYPE	GATE SIZE WIDTH	GATE SIZE HEIGHT	GATE CONSTRUCTION	GATE FINISH	HARDWARE	REMARKS
G1	D	14' - 0"	8' - 0"	WI	PT	SEE DETAIL	SEE SHEET AX2.3 FOR DETAILS
G2	D	14' - 0"	8' - 0"	WI	PT	SEE DETAIL	SEE SHEET AX2.3 FOR DETAILS
G3	C	3' - 0"	8' - 0"	WI	PT	SEE DETAIL	PANIC HARDWARE. SEE DETAIL AX2.3 FOR DETAILS
G4	C	4' - 6"	8' - 0"	WI	PT	SEE DETAIL	PANIC HARDWARE. SEE DETAIL AX2.3 FOR DETAILS
G5	C	3' - 0"	8' - 0"	WI	PT	SEE DETAIL	PANIC HARDWARE. SEE DETAIL AX2.3 FOR DETAILS
G6	E	4' - 0"	3' - 6"	STL	GALV	SEE DETAIL	PANIC HARDWARE. SEE DETAIL K/CX1.5
G7	G	20' - 0"	3' - 6"	STL	GALV	SEE DETAIL	SEE DETAIL J/CX1.5
G8	E	4' - 0"	3' - 6"	STL	GALV	SEE DETAIL	PANIC HARDWARE. SEE DETAIL K/CX1.5
G9	I	10' - 0"	8' - 0"	WI	PT	SEE DETAIL	SEE DETAIL E/CX1.2
G10	G	20' - 0"	3' - 6"	STL	GALV	SEE DETAIL	SEE DETAIL J/CX1.5
G11	E	4' - 0"	3' - 6"	STL	GALV	SEE DETAIL	PANIC HARDWARE. SEE DETAIL K/CX1.5
G12	E	4' - 0"	3' - 6"	STL	GALV	SEE DETAIL	PANIC HARDWARE. SEE DETAIL K/CX1.5
G13	G	20' - 0"	3' - 6"	STL	GALV	SEE DETAIL	SEE DETAIL J/CX1.5
G14	C	4' - 6"	8' - 0"	WI	PT	SEE DETAIL	PANIC HARDWARE. SEE DETAIL AX2.3 FOR DETAILS
G15	E	4' - 0"	3' - 6"	STL	GALV	SEE DETAIL	PANIC HARDWARE. SEE DETAIL K/CX1.5
G16	E	4' - 0"	3' - 6"	STL	GALV	SEE DETAIL	PANIC HARDWARE. SEE DETAIL K/CX1.5
G17	A	4' - 0"	6' - 0"	CL	GALV	SEE DETAIL	SEE DETAIL A/CX1.3
G18	A	4' - 0"	6' - 0"	CL	GALV	SEE DETAIL	SEE DETAIL A/CX1.3
G19	A	4' - 0"	6' - 0"	CL	GALV	SEE DETAIL	SEE DETAIL A/CX1.3
G20	A	4' - 0"	6' - 0"	CL	GALV	SEE DETAIL	SEE DETAIL A/CX1.3
G21	E	4' - 0"	3' - 6"	STL	GALV	SEE DETAIL	SEE DETAIL A/CX1.2
G22	G	14' - 0"	3' - 6"	STL	GALV	SEE DETAIL	SEE DETAIL J/CX1.5
G23	I	14' - 0"	8' - 0"	WI	PT	SEE DETAIL	SEE DETAIL E/CX1.2
G24	I	8' - 0"	8' - 0"	WI	PT	SEE DETAIL	PANIC HARDWARE. SEE DETAIL E/CX1.2
G25	I	20' - 0"	8' - 0"	WI	PT	SEE DETAIL	SEE DETAIL E/CX1.2
G26	E	4' - 0"	3' - 6"	STL	GALV	SEE DETAIL	SEE DETAIL A/CX1.2
G27	G	16' - 0"	3' - 6"	STL	GALV	SEE DETAIL	SEE DETAIL J/CX1.5
G28	B	8' - 0"	6' - 0"	CL	GALV	SEE DETAIL	SEE DETAIL A/CX1.3

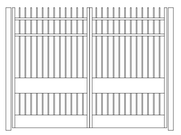

H

I

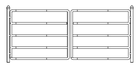

A


B


C


D


E


G

GATE TYPES

SCALE: 1/4" = 1'-0"

WINDOW SCHEDULE - BUILDING 'A'

WINDOW No.	Type	WINDOW DIMENSION WIDTH	WINDOW DIMENSION HEIGHT	GLAZING TYPE	GLAZING CLASS	GLAZING FINISH	FRAMES MATERIAL	FRAMES FINISH	FRAMES THICKNESS	FRAMES FIRE RATING	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	REMARKS
A100A	A	3' - 4"	3' - 8"	DL	II	CLR	HM	ANOD	2"	-	23 / AX3.1	24 & 25 / AX3.1	23 / AX3.1	
A100B	A	3' - 4"	3' - 8"	DL	II	CLR	HM	ANOD	2"	-	23 / AX3.1	24 & 25 / AX3.1	23 / AX3.1	
A100C	A	3' - 4"	3' - 8"	DL	II	CLR	HM	ANOD	2"	-	23 / AX3.1	24 & 25 / AX3.1	23 / AX3.1	
A100D	A	3' - 4"	3' - 8"	DL	II	CLR	HM	ANOD	2"	-	23 / AX3.1	24 & 25 / AX3.1	23 / AX3.1	

WINDOW SCHEDULE - BUILDING 'B'

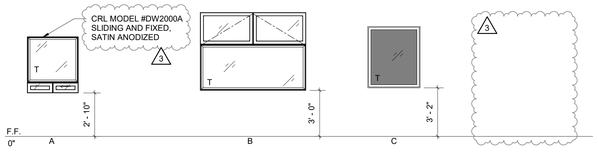
WINDOW No.	Type	WINDOW DIMENSION WIDTH	WINDOW DIMENSION HEIGHT	GLAZING TYPE	GLAZING CLASS	GLAZING FINISH	FRAMES MATERIAL	FRAMES FINISH	FRAMES THICKNESS	FRAMES FIRE RATING	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	REMARKS
B103A	C	3' - 5"	4' - 0"	DL	II	CLR	HM	SGP	2"	-	20 / AX3.1	24 & 25 / AX3.1	23 / AX3.1	
B103B	C	3' - 5"	4' - 0"	S	II	CLR	HM	SGP	2"	-	20 / AX3.2	19 / AX3.2	17 / AX3.2	
B103C	C	3' - 5"	4' - 0"	S	II	CLR	HM	SGP	2"	-	20 / AX3.2	19 / AX3.2	17 / AX3.2	

WINDOW SCHEDULE - BUILDING 'C'

WINDOW No.	Type	WINDOW DIMENSION WIDTH	WINDOW DIMENSION HEIGHT	GLAZING TYPE	GLAZING CLASS	GLAZING FINISH	FRAMES MATERIAL	FRAMES FINISH	FRAMES THICKNESS	FRAMES FIRE RATING	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	REMARKS
C203A	B	6' - 10 3/4"	5' - 1"	DL	II	CLR	AL	SGP	2"	-	14/AX3.2	13/AX3.2	14/AX3.2	
C204A	B	6' - 10 3/4"	5' - 1"	DL	II	CLR	AL	SGP	2"	-	14/AX3.2	13/AX3.2	14/AX3.2	
C205A	B	6' - 10 3/4"	5' - 1"	DL	II	CLR	AL	SGP	2"	-	14/AX3.2	13/AX3.2	14/AX3.2	
C206A	B	6' - 10 3/4"	5' - 1"	DL	II	CLR	AL	SGP	2"	-	14/AX3.2	13/AX3.2	14/AX3.2	

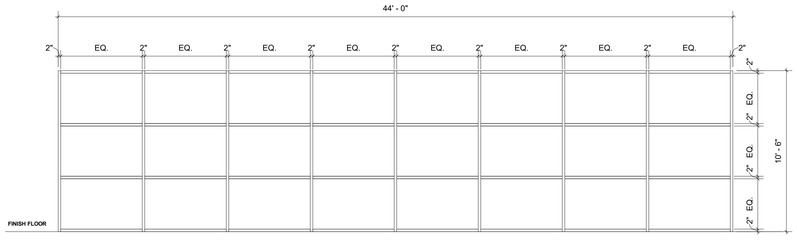
WINDOW SCHEDULE - BUILDING 'D'

WINDOW No.	Type	WINDOW DIMENSION WIDTH	WINDOW DIMENSION HEIGHT	GLAZING TYPE	GLAZING CLASS	GLAZING FINISH	FRAMES MATERIAL	FRAMES FINISH	FRAMES THICKNESS	FRAMES FIRE RATING	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	REMARKS
D101A	A	3' - 4"	3' - 8"	DL	II	CLR	HM	ANOD		-	13 / AX3.1	13/ AX3.1 SIM	14 / AX3.1	
D101B	A	3' - 4"	3' - 8"	DL	II	CLR	HM	ANOD		-	13 / AX3.1	13/ AX3.1 SIM	14 / AX3.1	
D102A	A	3' - 4"	3' - 8"	DL	II	CLR	HM	ANOD		-	13 / AX3.1	13/ AX3.1 SIM	14 / AX3.1	
D102B	A	3' - 4"	3' - 8"	DL	II	CLR	HM	ANOD		-	13 / AX3.1	13/ AX3.1 SIM	14 / AX3.1	



WINDOW TYPES

SCALE: 1/4" = 1'-0"



STOREFRONT - BUILDING 'C'

SCALE: 1/4" = 1'-0"

DOOR SCHEDULE - BUILDING 'A'

DOOR NO.	DOOR TYPE	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR THICKNESS	DOOR CONSTRUCTION	DOOR FINISH	FRAME CONSTRUCTION	FRAME FINISH	FIRE RATING	DETAILS (SEE SHEET AX3.1) HEAD	DETAILS JAMB	DETAILS THRESHOLD	HARDWARE	REMARKS
A100A	F	3' - 0"	7' - 2"	1 3/4"	HM	SGP	HM	SGP	-	6/AX3.1	7/AX3.1	8/AX3.1	02	
A100B	OH	3' - 4"	4' - 0"	3"	SS	SGP	HM	SGP		16/AX3.1	18/AX3.1		11	NON-INSULATED
A100C	OH	3' - 4"	4' - 0"	3"	SS	SGP	HM	SGP		16/AX3.1	18/AX3.1		11	NON-INSULATED
A100D	OH	3' - 4"	4' - 0"	3"	SS	SGP	HM	SGP		16/AX3.1	18/AX3.1		11	NON-INSULATED
A100E	OH	3' - 4"	4' - 0"	3"	SS	SGP	HM	SGP		16/AX3.1	18/AX3.1		11	NON-INSULATED
A101A	F	3' - 0"	7' - 0"	1 3/4"	SC	SGP	HM	SGP		4/AX3.1	4/AX3.1	8/AX3.1	10	
A102A	F	3' - 0"	7' - 0"	1 3/4"	SC	SGP	HM	SGP		4/AX3.1	4/AX3.1	8/AX3.1	10	
A103A	F	3' - 0"	7' - 2"	1 3/4"	SC	SGP	HM	SGP	45 MIN.	6/AX3.1	7/AX3.1	8/AX3.1	05	
A104A	F	3' - 0"	7' - 0"	1 3/4"	HM	SGP	HM	SGP	-	6/AX3.1	7/AX3.1	8/AX3.1	05	
A105A	F	3' - 0"	7' - 0"	1 3/4"	HM	SGP	HM	SGP		6/AX3.1	7/AX3.1	8/AX3.1	09	3
A107A	F	4' - 4"	7' - 0"	1 3/4"	HM	SGP	HM	SGP	45 MIN.	6/AX3.1	7/AX3.1	8/AX3.1	06	
A108A	F	3' - 0"	7' - 2"	1 3/4"	HM	SGP	HM	SGP	-	6/AX3.1	7/AX3.1	8/AX3.1	03	
A109A	F	3' - 0"	7' - 2"	1 3/4"	HM	SGP	HM	SGP	-	6/AX3.1	7/AX3.1	8/AX3.1	03	
A109B	F	2' - 8"	7' - 0"	1 3/4"	SC	SGP	HM	SGP		4/AX3.1	4/AX3.1	8/AX3.1	10	
A109C	F	2' - 8"	7' - 0"	1 3/4"	SC	SGP	HM	SGP		4/AX3.1	4/AX3.1	8/AX3.1	10	
A110A	F	3' - 0"	7' - 2"	1 3/4"	HM	SGP	HM	SGP	-	6/AX3.1	7/AX3.1	8/AX3.1	01	
A110B	F	3' - 0"	7' - 0"	1 3/4"	HM	SGP	HM	SGP	-	6/AX3.1	7/AX3.1	8/AX3.1	01	
A111A	F	3' - 0"	7' - 0"	1 3/4"	SC	SGP	HM	SGP	-	4/AX3.1	4/AX3.1	8/AX3.1	10	
A112A	F	3' - 0"	7' - 0"	1 3/4"	HM	SGP	HM	SGP	-	6/AX3.1	7/AX3.1	8/AX3.1	02	

DOOR SCHEDULE - BUILDING 'B'

DOOR NO.	DOOR TYPE	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR THICKNESS	DOOR CONSTRUCTION	DOOR FINISH	FRAME CONSTRUCTION	FRAME FINISH	FIRE RATING	DETAILS (SEE SHEET AX3.1) HEAD	DETAILS JAMB	DETAILS THRESHOLD	HARDWARE	REMARKS
B101A	F	3' - 0"	7' - 2"	1 3/4"	HM	SGP	HM	SGP	-	6/AX3.1	7/AX3.1	8/AX3.1	01	
B101B	F	3' - 0"	7' - 2"	1 3/4"	HM	SGP	HM	SGP	-	6/AX3.1	7/AX3.1	8/AX3.1	01	
B103A	F	3' - 0"	7' - 2"	1 3/4"	HM	SGP	HM	SGP	-	6/AX3.1	7/AX3.1	8/AX3.1	02	
B103B	F	3' - 0"	7' - 0"	1 3/4"	SC	SGP	HM	SGP		4/AX3.1	4/AX3.1	8/AX3.1	08	
B103C	F	3' - 0"	7' - 0"	1 3/4"	SC	SGP	HM	SGP		4/AX3.1	4/AX3.1	8/AX3.1	08	
B104A	F	3' - 0"	7' - 0"	1 3/4"	SC	SGP	HM	SGP		4/AX3.1	4/AX3.1	8/AX3.1	09	
B104B	F	2' - 8"	7' - 0"	1 3/4"	SC	SGP	HM	SGP		4/AX3.1	4/AX3.1	8/AX3.1	10	
B106A	F	3' - 0"	7' - 2"	1 3/4"	HM	SGP	HM	SGP	-	6/AX3.1	7/AX3.1	8/AX3.1	01	
B106B	F	3' - 0"	7' - 2"	1 3/4"	HM	SGP	HM	SGP	-	6/AX3.1	7/AX3.1	8/AX3.1	01	
B107A	F	3' - 0"	7' - 2"	1 3/4"	HM	SGP	HM	SGP	-	6/AX3.1	7/AX3.1	8/AX3.1	05	
B108A	F	3' - 0"	7' - 2"	1 3/4"	HM	SGP	HM	SGP	-	6/AX3.1	7/AX3.1	8/AX3.1	05	

DOOR SCHEDULE - BUILDING 'C'

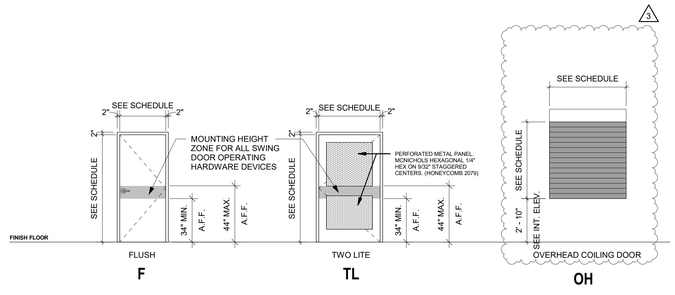
DOOR NO.	DOOR TYPE	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR THICKNESS	DOOR CONSTRUCTION	DOOR FINISH	FRAME CONSTRUCTION	FRAME FINISH	FIRE RATING	DETAILS (SEE SHEET AX3.1) HEAD	DETAILS JAMB	DETAILS THRESHOLD	HARDWARE	REMARKS
C101A	F	3' - 0"	7' - 0"	1 3/4"	HM	SGP	HM	SGP		10/AX3.1	10/AX3.1	8/AX3.1	07	
C101B	F	3' - 0"	7' - 0"	1 3/4"	HM	SGP	HM	SGP		15/AX3.1	15/AX3.1	8/AX3.1	07	
C102A	F	3' - 0"	7' - 0"	1 3/4"	HM	SGP	HM	SGP	1 HR	10/AX3.1	10/AX3.1	8/AX3.1	05	
C103A	F	3' - 0"	7' - 0"	1 3/4"	HM	SGP	HM	SGP	1 HR	15/AX3.1	15/AX3.1	8/AX3.1	03	3
C104A	F	3' - 0"	7' - 0"	1 3/4"	HM	SGP	HM	SGP		15/AX3.1	15/AX3.1	8/AX3.1	07	
C201A	TL	4' - 0"	7' - 0"	1 3/4"	HM	SGP	HM	SGP		15/AX3.1	15/AX3.1	8/AX3.1	01	PERFORATED METAL PANEL, PANIC HARDWARE
C201B	TL	4' - 0"	7' - 0"	1 3/4"	HM	SGP	HM	SGP		15/AX3.1	15/AX3.1	8/AX3.1	01	PERFORATED METAL PANEL, PANIC HARDWARE
C202A	F	3' - 0"	7' - 0"	1 3/4"	SC	SGP	HM	SGP		4/AX3.1	4/AX3.1	8/AX3.1	08	
C202B	OH	5' - 0"	5' - 0"	3"	SS	SGP	HM	SGP		20/AX3.1	19/AX3.1		11	INSULATED
C203A	F	3' - 0"	7' - 0"	1 3/4"	SC	SGP	HM	SGP		4/AX3.1	4/AX3.1	8/AX3.1	08	
C204A	F	3' - 0"	7' - 0"	1 3/4"	SC	SGP	HM	SGP		4/AX3.1	4/AX3.1	8/AX3.1	08	
C205A	F	3' - 0"	7' - 0"	1 3/4"	SC	SGP	HM	SGP		4/AX3.1	4/AX3.1	8/AX3.1	08	
C206A	F	3' - 0"	7' - 0"	1 3/4"	SC	SGP	HM	SGP		4/AX3.1	4/AX3.1	8/AX3.1	08	
C207A	F	3' - 0"	7' - 0"	1 3/4"	SC	SGP	HM	SGP		4/AX3.1	4/AX3.1	8/AX3.1	08	
C207B	OH	5' - 0"	5' - 0"	3"	SS	SGP	HM	SGP		20/AX3.1	19/AX3.1		11	INSULATED

DOOR SCHEDULE - BUILDING 'D'

DOOR NO.	DOOR TYPE	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR THICKNESS	DOOR CONSTRUCTION	DOOR FINISH	FRAME CONSTRUCTION	FRAME FINISH	FIRE RATING	DETAILS (SEE SHEET AX3.1) HEAD	DETAILS JAMB	DETAILS THRESHOLD	HARDWARE	REMARKS
D101A	F	3' - 0"	7' - 0"	1 3/4"	HM	SGP	HM	SGP		11/AX3.1	12/AX3.1	8/AX3.1	05	
D102A	F	3' - 0"	7' - 0"	1 3/4"	HM	SGP	HM	SGP		11/AX3.1	12/AX3.1	8/AX3.1	05	

DOOR SCHEDULE - VISITOR BLEACHERS

DOOR NO.	DOOR TYPE	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR THICKNESS	DOOR CONSTRUCTION	DOOR FINISH	FRAME CONSTRUCTION	FRAME FINISH	FIRE RATING	DETAILS (SEE SHEET AX3.1) HEAD	DETAILS JAMB	DETAILS THRESHOLD	HARDWARE	REMARKS
VB001	F	8' - 0"	7' - 4"	1 3/4"	HM	SGP	HM	SGP	-	6/AX3.1	7/AX3.1	8/AX3.1	05	
VB002	F	8' - 0"	7' - 4"	1 3/4"	HM	SGP	HM	SGP	-	6/AX3.1	7/AX3.1	8/AX3.1	05	
VB003	F	8' - 0"	7' - 4"	1 3/4"	HM	SGP	HM	SGP	-	6/AX3.1	7/AX3.1	8/AX3.1	05	
VB004	F	8' - 0"	7' - 4"	1 3/4"	HM	SGP	HM	SGP	-	6/AX3.1	7/AX3.1	8/AX3.1	05	



DOOR TYPES

SCALE: 1/4" = 1'-0"

DOOR SCHEDULE ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
AL	ALUMINUM
ANOD	ANODIZED
CLN	CLEAN
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CPT	CARPET
CV	INTEGRAL COVE
DL	DUAL GLAZED
(E)	EXISTING
EPF	EPOXY FLOORING
ESP	EGGSHEEL PAINT
EXP	EXPOSED STRUCTURE
F	FIXED
FF	FACTORY FINISH
FRP	FIBER REINFORCED PANEL
GB	GYPSUM BOARD
GP	GLOSS PAINT
HM	HOLLOW METAL
LP	PLASTIC LAMINATE
OP	OPAQUE GLAZING (FILM)
P	PAINTED
PO	POLISHED
PL	PLASTIC LAMINATE
PLT	PLATE
PLY	PLYWOOD
PRT	TOILET PARTITION
RCP	REFLECTED CEILING PLAN
RTB	RUBBER TOPSET
S	SINGLE GLAZED
SC	SOLID CORE
SCF	STATIC CONTROL FLOORING
SGP	SEMI-GLOSS PAINT
SHGC	SOLAR HEAT GAIN COEFFICIENT
SL	SEALED
SO	SOLID SURFACE
STN	STAINED
T	TEMPERED
TL	TILE
TNT	TINTED
TSP	TRANSITION STRIP
U	U VALUE
VLT	VISUAL LIGHT TRANSMITTANCE
VT	VINYL TILE
VTB	VINYL TACK BOARD
VWC	VINYL WALL COVERING
WGB	WATER-RESISTANT GYPSUM BOARD

DOOR NOTES

DOOR NOTES

DOOR OPEWING FORCE:
THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE OTHER THAN FIRE DOORS SHALL BE AS FOLLOWS:
1. INTERIOR HINGED DOORS AND GATES: 5 POUNDS MAXIMUM
2. SLIDING OR FOLDING DOORS: 5 POUNDS MAXIMUM
3. REQUIRED FIRE DOORS: THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS
4. EXTERIOR HINGED DOORS: 5 POUNDS MAXIMUM

FLOOR ELEVATION:
THERE SHALL BE A FLOOR OR LANDING ON EACH SIDE OF A DOOR. SUCH FLOOR OR LANDING SHALL BE AT THE SAME ELEVATION ON EACH SIDE OF THE DOOR. LANDINGS SHALL BE LEVEL EXCEPT FOR EXTERIOR LANDINGS, WHICH ARE PERMITTED TO HAVE A SLOPE NOT TO EXCEED 2 PERCENT MAX. IN ANY DIRECTION.

THRESHOLDS:
THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 1/2" IN HEIGHT. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES GREATER THAN 1/4" AT DOORWAYS SHALL BE BEVELED WITH A SLOPE NOT GREATER THAN ONE UNIT VERTICAL IN TWO UNITS HORIZONTAL.

DOOR OPERATIONS:
DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

HARDWARE:
DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON DOORS REQUIRED TO BE ACCESSIBLE SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.

HARDWARE HEIGHT:
DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL BE INSTALLED 34 INCHES MINIMUM/ 44 INCHES MAXIMUM ABOVE FINISHED FLOOR.

BOLT LOCKS:
MANUALLY OPERATED FLUSH BOLTS OR SURFACE BOLTS ARE NOT PERMITTED.

UNLATCHING:
THE UNLATCHING OF ANY DOOR OR LEAF SHALL NOT REQUIRE MORE THAN ONE OPERATION.

PANIC AND FIRE EXIT HARDWARE:
DOORS SERVING ROOMS OR SPACES WITH AN OCCUPANT LOAD OF 50 OR MORE IN A GROUP A OCCUPANCY, ASSEMBLY AREA NOT CLASSIFIED AS AN ASSEMBLY OCCUPANCY, OR E OCCUPANCIES SHALL NOT BE PROVIDED WITH A LATCH OR LOCK UNLESS IT IS PANIC HARDWARE OR FIRE EXIT HARDWARE.

INSTALLATION:
WHERE PANIC OR FIRE EXIT HARDWARE IS INSTALLED, IT SHALL COMPLY WITH THE FOLLOWING:
1. PANIC HARDWARE SHALL BE LISTED IN ACCORDANCE WITH UL 305;
2. FIRE EXIT HARDWARE SHALL BE LISTED IN ACCORDANCE WITH UL 10C AND UL 305;
3. THE ACTUATING PORTION OF THE RELEASING DEVICE SHALL EXTEND AT LEAST ONE-HALF OF THE DOOR LEAF WIDTH; AND THE MAXIMUM UNLATCHING FORCE SHALL NOT EXCEED 15 POUNDS.

ACCESSIBLE WATER CLOSET COMPARTMENT DOORS:
THE INSIDE AND OUTSIDE OF THE COMPARTMENT DOOR SHALL BE EQUIPPED WITH A LOOP OR U-SHAPED HANDLE IMMEDIATELY BELOW THE LATCH. THE LATCH SHALL BE FLIP-OVER STYLE, SLIDING OR OTHER HARDWARE NOT REQUIRING THE USER TO GRASP OR TWIST.

GENERAL DOOR SIGNAGE NOTES:
1. EXIT DOORS SHALL BE CLEARLY MARKED w/ "EXIT" MIN. 6" HIGH LETTERS.
2. POST A SIGN THAT READS "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS" USE LETTERS 1" HIGH ON CONTRASTING BACKGROUND ABOVE MAIN ENTRY DOOR.
3. INSTALL 6" MIN. SQUARE INTERNATIONAL SYMBOL OF ACCESSIBILITY (I.S.A.) LOGO NOTING WHEEL CHAIR ACCESS ON OR NEAR ALL ENTRANCE DOORS. SEE DET. 1/D2

GENERAL DOOR NOTES:
1. WEATHER STRIP ALL EXTERIOR DOORS AND OPENINGS.
2. THE BOTTOM 10" OF ALL DOORS (EXCEPT AUTOMATIC AND SLIDING) SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE.
3. ALL DOORS & FRAMES (INCLUDING DOOR EDGING) ON EXTERIOR SIDE SHALL BE PAINTED.
4. EXIT DOORS USED AS PAIRS WITH APPROVED AUTOMATIC FLUSH BOLTS SHALL NOT HAVE DOOR KNOBS OR SURFACE MOUNTED HARDWARE ON THE INACTIVE LEAF.
5. ALL EXTERIOR DOOR LANDINGS GRADE HAVE A SMOOTH TRANSITION TO ADJACENT PAVED SURFACE.
6. ALL DOORS TO CLASSROOMS, AND ANY ROOM WITH AN OCCUPANT LOAD OF FIVE OR MORE PERSONS, SHALL BE EQUIPPED WITH AB211 COMPLIANT HARDWARE.8. LOCKABLE FROM THE INSIDE PER CBC 1010.2.2
7. PROVIDE LEVEL LANDINGS FOR EXTERIOR MAIN DOORS w/ NO MORE THAN 1/4" DROP AT THE THRESHOLD.
8. ALL EXTERIOR DOOR LANDINGS GRADE HAVE A SMOOTH TRANSITION TO ADJACENT PAVED SURFACE.
9. MAXIMUM MOUNTING HEIGHT OF DOOR OPERATORS 34" - 44" A.F.F.
10. DOOR AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.
11. DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70 DEGREES, THE DOOR OR GATE SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS MINIMUM.

WINDOW NOTES

1. FIELD VERIFY ALL ROUGH OPENING DIM'S. PRIOR TO FABRICATIONG WINDOWS.
2. ALL INTERIOR GLAZING SHALL BE A SINGLE LAYER OF CLEAR, FULLY TEMPERED FLOAT GLASS.
3. DUAL GLAZING TO ACHIEVE THE FOLLOWING CRITERIA (REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION):
   VLT: 54%
   U: .33
   SHGC: .28
4. ***PRIOR TO GLASS AND GLASS STOP INSTALATION, VERIFY WITH ARCHITECT ON WHICH SIDE THE GLASS WILL BE PLACED ON THE HOLLOW METAL FRAME.***
5. ANY WINDOW THAT MEETS ANY OF THE FOLLOWING CATAGORIES SHALL BE SAFETY GLAZING PER 2022 CBC 2406
   A. WITHIN 24" OF A DOOR
   B. 18" OR LESS ABOVE THE GROUND
6. SEE DETAIL 13 / AX3.1 FOR WINDOW FLASHING INSTALLATION.
7. SEE DETAIL 2 / AX3.1 FOR HOLLOW METAL FRAME ANCHORAGE

PBK

ARCHITECT PBK Architects, Inc.
FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL STADIUM
200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

PROFESSIONAL SEAL



PROJECT NUMBER 20-51

DATE 08/12/2024

DSA APPLICATION NO. 02-122784

FILE NO. 20-H3

PTN NO. 65243-154

DRAWN BY Author

REVISIONS

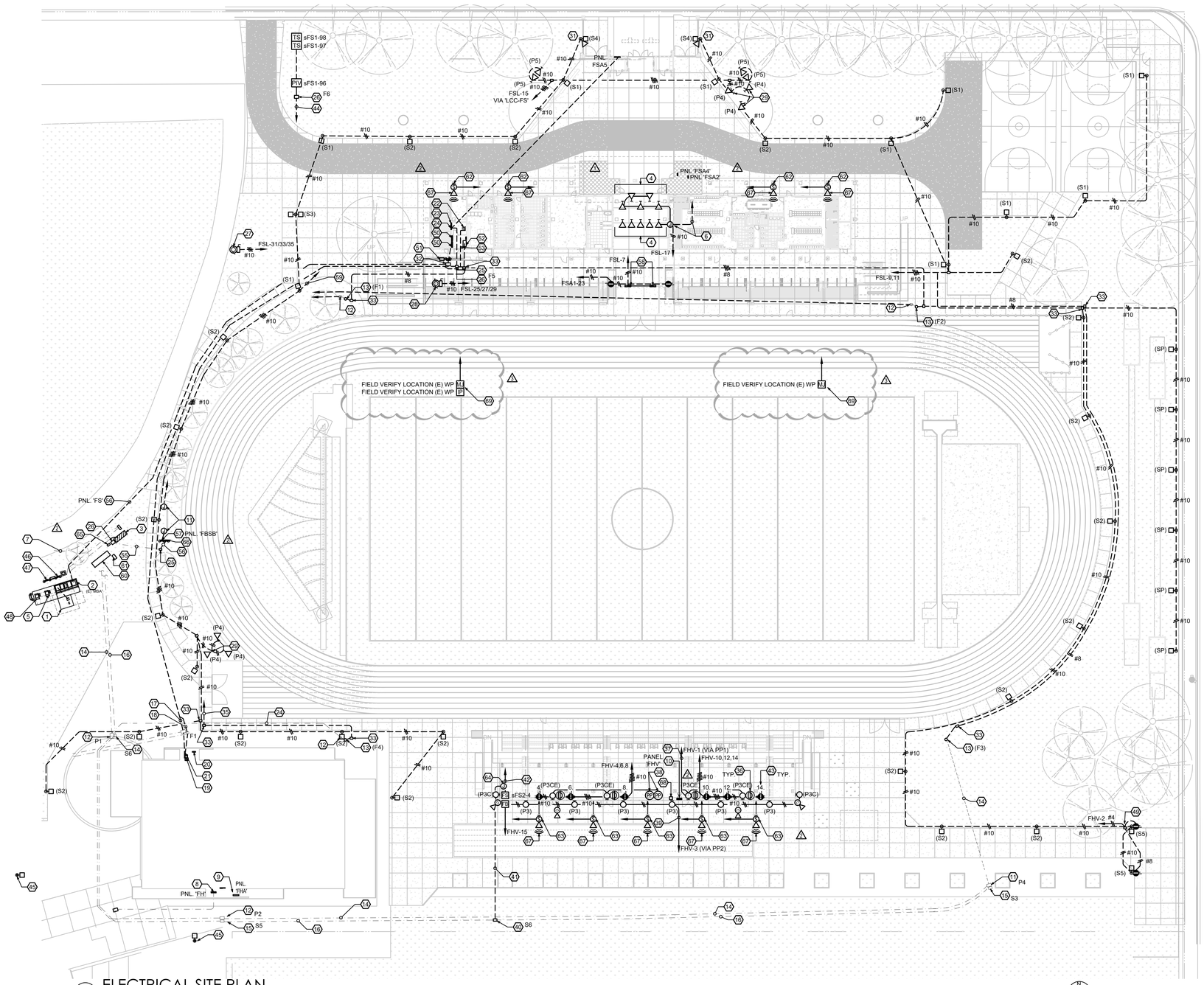
#	DESCRIPTION	DATE
1	ADDENDUM 01	08/19/2025
3	ADDENDUM 03	08/27/2025

CONSTRUCTION DOCUMENTS

DOOR & WINDOW SCHEDULE

AX8.1

BIM 360://Madera USD_20-51_MHS Field House/20-51_MHS STADIUM_V21.rvt
8/27/2025 8:58:33 PM



1 ELECTRICAL SITE PLAN
SCALE: 1"=30'-0"

KEYNOTES

1. (E) PAD MOUNTED P.G.&E. TRANSFORMER. DSA #02-121624.
2. (E) PAD MOUNTED MAIN SWITCHBOARD 'MSA'. 2000A BUS/1600A MAIN, 277/480V, 3Ø, 4W, 65kA SCCR FULLY RATED, NEMA 3R, SOLID NEUTRAL. DSA #02-121624.
3. (E) PAD MOUNTED MAIN SWITCHBOARD 'MSB'. DSA #02-108565.
4. (5) FIXTURE TYPE 'P6' MOUNTED TO BLEACHER BEAM OVER ENTRANCE. MOUNT PER DETAIL A10/EX1.1. ROUTE POWER CONDUIT U.G. TO PANEL 'FSL' AND DMX CONTROL CONDUIT TO BUILDING 'C'. SEE SHEET EC3.1 FOR ADDITIONAL INFORMATION. COORDINATE WITH DISTRICT REPRESENTATIVE PRIOR TO INSTALLATION FOR AIMING.
5. (E) BATTERY ENERGY STORAGE SYSTEM, BESS01. DSA #02-121624.
6. PROVIDE DMX JUNCTION BOX TO COMBINE POWER AND DMX CONTROL WIRING INTO SINGLE FIXTURE CABLE. PROVIDE (3) JUNCTION BOXES TO WIRE EACH FIXTURE TO IT'S OWN CABLE ASSEMBLY. ACUITY #254PW3 DPI4W HYD. CONNECT JUNCTION BOX TO DMX CONTROLLER IS BROADCAST BOOTH IN BUILDING 'C', SECOND FLOOR.
7. APPROXIMATE LOCATION OF EXISTING UNDERGROUND PATHWAY FOR EXISTING SOLAR SYSTEM LOCATED AT PARKING LOT ON COYOTE LANE. EXERCISE CAUTION WHEN DIGGING IN THIS AREA AND LOCATE CONDUITS PRIOR TO EXCAVATING. OTHER UNDERGROUND PATHWAYS FOR SPORTS LIGHTING, LANDSCAPING, ETC. MAY BE PRESENT IN THIS AREA. DSA #02-119152.
8. (E) PANEL 'FH'. DSA #02-121624.
9. (E) PANEL 'FHA'. DSA #02-121624.
10. NEW MINI POWER ZONE 'FHV'. 10KVA, 120/240V, 1Ø, 3W, 10KA SCCR, NEMA 3R MOUNTED TO BLOCK WALL. SEE DETAIL D15/EX2.4.
11. CONNECT NEW SCOREBOARD. SEE DETAIL D5/EX2.4. PROVIDE 2"C TO PRESS BOX BROADCAST ROOM . SUPPLY NEW 8 CONDUCTOR 50 MICRON MULTIMODE FIBER OPTIC CABLE WITH TERMINATIONS PER SCOREBOARD MANUFACTURER'S SPECIFICATIONS FROM THE NEW SCOREBOARD TO PRESS BOX WITH SUFFICIENT LENGTH TO REACH TERMINATION POINT AT FIBER OPTIC CONVERTERS AT SCOREBOARD AND PRESS BOX PLUS 6' OF SERVICE LOOP AT EACH END. SERVICE LOOP MAY BE INSTALLED IN CLOSEST PULL BOX. COORDINATE POWER CONNECTIONS WITH SCOREBOARD SUPPLIER.
1.25"C. PANEL 'FBSB'
NEVCO MODEL #3685-IC, 120V, 8.6A, 2#10
(28) 10MM DISPLAY MODULES, 208V, 2.9A EA, 16#10
F/O CONVERTER, 120V, 0.1A, 2#10
1#10 GRD.
SEE DETAIL D5/EX2.4. PROVIDE AND INTALL J-BOX PER DETAIL L18/EX2.5.
12. (E) SPORTS LIGHTING PULL BOX TO REMAIN. DSA #02-108565.
13. (E) SPORTS LIGHTING POLE TO REMAIN. INSTALL NEW FIXTURES AND AIM PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. FIXTURE POLE DESIGNATIONS COORDINATE TO MUSCO DRAWINGS. PROVIDE ALL NEW WIRING BACK TO SOURCE. RECONNECT CONDUIT AS REQUIRED AND PROVIDE NEW CONDUCTORS (1-1/2"C. 3#6, 1#6 CU GRD. FOR MAIN LIGHTS TO 'MSB' VIA MUSCO CONTROL AND MONITORING CABINET (SEE KEYNOTE 65) FOR COMPLETE AND OPERABLE SYSTEM. PROVIDE 1"C. 2#8, 1#8 CU GRD. TO 'INV-SL' IN NEW BUILDING FOR BLEACHER EGRESS FIXTURE. PROVIDE #2/0 LIGHTNING PROTECTION GROUNDING CONDUCTOR DOWN POLE AND CONNECT TO 3/4" X 10' COPPER CLAD GROUND ROD ADJACENT TO BASE OF LIGHT POLE. BOND TO EGC AT POLE BASE PER MUSCO INSTALLATION INSTRUCTION. DSA #02-108565.
14. (E) SPORTS LIGHTING CONDUITS TO REMAIN. SEE SINGLE LINE DIAGRAM FOR CONDUIT AND CONDUCTOR INFORMATION. DSA #02-108565.
15. (E) SOUND SYSTEM PULL BOX TO REMAIN. DSA #02-108565.
16. (E) SOUND SYSTEM CONDUIT TO REMAIN. RECONNECT AS REQUIRED. PROVIDE NEW SOUND SYSTEM CONDUCTORS AS SHOWN ON RISER. DSA #02-108565.
17. PROVIDE (2)3"C. PROVIDE (1) MAXCELL MXED64283 (3", 3-CELL, DETECTABLE) INNERDUCT IN EACH CONDUIT. INSTALL MAXCELL STRICTLY PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE (1) 12-STR SM FIBER OPTIC CABLE, (1) 25-PAIR CAT3 OSP CABLE TO 'IDF-FS' VIA 'STC-FS'. SEE DETAIL L5/EX2.3.
18. PROVIDE 2"C (1)#AD6W. FOR FIRE ALARM TO 'FACP-FS'. SEE DETAIL L5/EX2.3
19. (E) 'IDF-F'. DSA #02-121624.
20. (E) 'FACP-F'. DSA #02-121624.
21. (E) SIGNAL TERMINAL CABINET 'STC-F'. DSA #02-121624.
22. (N) 'IDF-FS'.
23. (N) 'FACP-FS'
24. (N) SIGNAL TERMINAL CABINET 'STC-FS'.
25. PROVIDE B1730BOX (BOX), B1730-12 (EXTENSION) AND B1730-51JH LID MARKED "COMMUNICATION" AND INTERCEPTION POINT. INSTALL BOX PER DETAIL L13/EX2.3. ORIENT PULL BOX WITH ANY ADJACENT CONCRETE, EDGES, JOINTS, ETC.
26. PROVIDE B1017BOX (BOX), B1017-12 (EXTENSION) & B1017-51JH (LID). MARK LID "FIRE ALARM". INSTALL PER DETAIL L13/EX2.3. ORIENT PULL BOX WITH ANY ADJACENT CONCRETE, EDGES, JOINTS, ETC.
27. CONNECT NEW IRRIGATION BOOSTER PUMP. 5HP, 480V, 3Ø. 1"C. 3#10, 1#10 GRD. COORDINATE WITH IRRIGATION PLANS FOR EXACT LOCATION AND IRRIGATION CONTRACTOR.
28. CONNECT NEW DOMESTIC DUPLEX BOOSTER PUMP. 2X2HP, 480V, 3Ø. 1"C. 3#10, 1#10 GRD. COORDINATE WITH PLUMBING CONTRACTOR.
29. PROVIDE NEW FLAGPOLE LIGHTS. COORDINATE WITH FLAGPOLE SUPPLIER.
30. PROVIDE NEW LANDSCAPE TREE UPLIGHTS. COORDINATE WITH LANDSCAPE.
31. AIM POLE TOP FLOOD LIGHT TO ILLUMINATE THE UPPER SIGN PORTION OF THE TICKET BOOTH BUILDING. THE FIXTURE SHALL BE AIMED SO AS TO AVOID GLARE AND BLINDING OF PEOPLE IN AND AROUND THE TICKET BOOTH BUILDING.
32. PROVIDE B2436BOX (BOX), B2436-12 (EXTENSION) & B2436-51JH (LID). MARK LID "ELECTRICAL". INSTALL PER DETAIL L13/EX2.3. ORIENT PULL BOX WITH ANY ADJACENT CONCRETE, EDGES, JOINTS, ETC.
33. PROVIDE B1017BOX (BOX), B1017-12 (EXTENSION) & B1017-51JH (LID). MARK LID "LIGHTING". INSTALL PER DETAIL L13/EX2.3. ORIENT PULL BOX WITH ANY ADJACENT CONCRETE, EDGES, JOINTS, ETC.
34. PROVIDE 1-1/4"C. 4#8, 1#8 GRD. FOR SPORTS POLE BLEACHER EGRESS LIGHTING. SEE DETAIL L9/EX2.3.
35. PROVIDE 1"C. 2#6, 1#8 GRD. FOR SPORTS POLE BLEACHER EGRESS LIGHTING. CONNECT TO DESIGNATED EGRESS LIGHTING FIXTURE AT POLE TOP PER MUSCO DRAWINGS. CONNECT TO CIRCUIT FSL-41, VIA EMERGENCY INVERTER 'INV-SL' AND MUSCO 'ALIC' PANEL IN ELECTRICAL ROOM. SEE DETAIL L9/EX2.3.
36. PROVIDE DIGITAL DIMMING SWITCH UNDER BLEACHERS AT ACCESS DOOR FOR CONTROL OF UNDER BLEACHER LIGHTING. SWITCH SHALL BE NLIGHT #nPODM DX WH LT. PROVIDE WEATHER PROOF BOX WITH CLEAR WEATHERPROOF WHILE-IN-USE COVER TAYMAC MM420C OR EQUAL. PROGRAM CONTROLS FOR MANUAL ON/OFF AND SWEEP OFF PER OWNER.
37. ROUTE CIRCUIT VIA POWERPACK #2. SEE KEYNOTE 36 ABOVE.
38. (2) DIMMING POWERPACK. nLIGHT #nPP16 D EFP LT. ONE POWERPACK SHALL BE FOR THE UNDERBLEACHER LIGHTS AND THE SECOND SHALL BE FOR THE LIGHTS ON THE "EXTERIOR" OF THE UNDERBLEACHER SOUNDWALL. INSTALL POWERPACKS IN WEATHER PROOF ENCLOSURE. CONNECT POWERPACK TO LIGHTING CONTROL CABINET IN FIELDHOUSE. PROVIDE 1"C. (1) CAT5 OUTSIDE PLANT RATED.
39. ROUTE CIRCUIT VIA POWERPACK #1. PROGRAM FOR TIME CLOCK CONTROL TO OPERATE ON THE SAME SCHEDULE AS OTHER EXTERIOR LIGHTING.
40. PROVIDE B1017BOX (BOX), B1017-12 (EXTENSION) & B1017-51JH (LID). MARK LID "ELECTRICAL". INSTALL PER DETAIL L13/EX2.3. ORIENT PULL BOX WITH ANY ADJACENT CONCRETE, EDGES, JOINTS, ETC.
41. PROVIDE 1-1/2"C. FOR STADIUM AUDIO CONDUCTORS.
42. 1"C. (1)DW TO 'FATC-F' VIA F1 PULL BOX. CONNECT TO FLOW FOR UNDERBLEACHER SPRINKLERS.
43. INSTALL RECEPTACLES UNDER BLEACHERS AT +42" A.F.F., TYP.
44. 1"C. (3)DW TO 'FATC-FS' VIA F5 PULL BOX. CONNECT TO FLOW AND TAMPER SWITCHES FOR STADIUM FIRE SERVICE.
45. (E) SITE LIGHTING FIXTURE TO REMAIN. DSA #02-119114.
46. (E) PANEL 'ESSL'. SEE PANEL SCHEDULE, SHEET EX2.2. DSA #02-121624.
47. (E) PANEL 'ESS'. SEE PANEL SCHEDULE, SHEET EX2.2. DSA #02-121624.
48. (N) BATTERY ENERGY STORAGE SYSTEM, BESS-2. SEE SINGLE LINE DIAGRAM, G15/EX2.1 AND SHEET EX2.8. INSTALL ON EXISTING HOUSEKEEPING PAD INSTALLED UNDER APPLICATION #02-121624 PER DETAILS A18/EX2.8. MAINTAIN ALL REQUIRED CLEARANCES AROUND SYSTEM PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE THE FOLLOWING RENEWABLES LABELS: 15, 16, 17, 18 & 19. SEE SHEETS EX2.9. SYSTEM CONSISTS OF ONE 60KW INVERTER WITH PCS AND ONE 60KWH BATTERY CABINET CONTAINING THE BATTERY STORAGE MODULES. PAD SHALL HAVE A MINIMUM OF 2'-0" SPACE FROM THE MOUNTING FASTENERS TO THE EDGE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE WORKING AREA OF THE EQUIPMENT PAD SHALL EXTEND TO PROVIDE AN UNOBSTRUCTED SPACE 42" DEEP.
49. PROVIDE B1017BOX (BOX), B1017-12 (EXTENSION) & B1017-51JH (LID). MARK LID "ELECTRICAL" NEAR BASE OF POLE FOR RECEPTACLE POWER INTO AND OUT OF POLE BASE. MAKE SPLICE IN POLE, OR PROVIDE WATERPROOF SPLICE IN PULL BOX. INSTALL PER DETAIL L13/EX2.3. ORIENT PULL BOX WITH ANY ADJACENT CONCRETE, EDGES, JOINTS, ETC.
50. (N) PANEL 'FS'. SEE SINGLE LINE DIAGRAM, SHEET EX2.1 & SCHEDULE , SHEET EX2.2.
51. (N) TRANSFORMER 'TFSA'. SEE SINGLE LINE DIAGRAM, SHEET EX2.1.
52. (N) INVERTER 'INV-SL'. MOUNT PER DETAIL F5/EX1.2.
53. (N) MUSCO 'ALIC' PANEL. MOUNT PER DETAIL K15/EX1.2.
54. (E) TRANSFORMER 'TE' TO REMAIN. 480-120/208V, 3PH, 4W, NEMA 3R. SQUARE D #112T3H. DSA #02-108565.
55. (E) (2)4" CONDUITS. PROVIDE NEW CONDUCTORS IN EXISTING CONDUIT PER SINGLE LINE DIAGRAM, SHEET EX2.1. DSA #02-108565.
56. (N) FEEDER PER SINGLE LINE DIAGRAM, SHEET EX2.1.
57. (N) PANEL 'FSSB' PER SCHEDULE. MOUNT PER DETAIL L8/EX2.5.
58. PROVIDE (2) TYPE 'P7E' FIXTURES UNDER BLEACHERS. SEE DETAIL L10/EX1.3.
59. 1"C. 4#10, 1#10 GRD. FSL-9 (SITE FIXTURES). FSL-15 (FLAG POLE, ROUTE VIA FSL-15 VIA 'LCC-FS').
60. REINSTALL EXISTING GENERATOR ON NEW CONCRETE PAD PER DETAIL H12/EX2.5.
61. REINSTALL EXISTING A.T.S. ON NEW CONCRETE PAD PER DETAIL H18/EX2.5.
62. PROVIDE SOUND SYSTEM SPEAKER ON BLEACHER COLUMN PER DETAIL G11/EX3.1. PROVIDE 3/4"C W/ WESTPENN AQ227 CABLE FROM SOUND SYSTEM SPEAKERS ON BLEACHER COLUMN TO AV RACK IN PRESS BOX.
63. PROVIDE SOUND SYSTEM SPEAKER ON BLEACHER HSS POLE PER DETAIL G11/EX3.1. PROVIDE 3/4"C W/ WESTPENN AQ227 CABLE FROM SOUND SYSTEM SPEAKERS ON BLEACHER POLE TO AV RACK IN PRESS BOX. VERIFY EXACT LOCATION IN FIELD.
64. INSTALL JUNCTION BOX 12X10X6 NEMA 3R (EATON #12106 RTHC NK, 7.7LB) UNDER BLEACHERS FOR STADIUM AUDIO. TRANSITION FROM BLEACHER STRUCTURE TO BLOCK SIMILAR TO DETAIL D8/EX2.5.
65. REPLACE EXISTING MUSCO CONTROL AND MONITORING CABINET ON EXISTING MOUNTING FRAME (DSA #02-108565, DETAIL 5/E-1). PROVIDE NEW 1"C. (1) BELDEN #7937A TO MUSCO COMMUNICATIONS CABINET IN BROADCAST ROOM IN PRESS BOX. PROVIDE 1"C. 4#10 TO ALIC PANEL IN BUILDING 'A' ELECTRICAL ROOM. PROVIDE DEDICATED 20A, 120V CIRCUIT FROM PANEL 'ESSL' FOR CONTROL AND ONE DEDICATED 20A, 120V CIRCUIT FOR 20A, 120V, WEATHER RESISTANT RECEPTACLE WITH WEATHERPROOF WHILE-IN-USE COVER MOUNTED TO SIDE OF CONTROLLER. 1"C. 4#10, 1#10 GRD. ESSL-4,6.
66. INSTALL 400A, 208V, 3P, N3R FUSED DISCONNECT BETWEEN (E) XFMR. AND (N) PANEL 'FBSB' FOR PROTECTION OF PANEL. INSTALL PER DETAIL C13/EX2.3.
67. PROVIDE OUTDOOR WAP CONNECTION POINT BELOW SPEAKER. 3/4"C. (2) CAT6A. COORDINATE EXACT HEIGHT FOR WAP WITH DISTRICT PRIOR TO INSTALLATION.
68. PROVIDE OUTDOOR IDF CABINET WITH 3000BTU AIR CONDITIONER MOUNTED TO BLOCK WALL UNDER VISITOR BLEACHER. INSTALL PER DETAIL B10/EX3.1. HUBBELL #IR222APG WITH #RAC3 AIR CONDITIONER AND #REKGB GROUNDING BUSBAR. MAX. WEIGHT: 300 LBS. DIMENSIONS: 24"W x 24"D x 24"H. PROVIDE 3/4"C. 4#12, 1#12 GRD TO PANEL 'FHV-5,7' FOR IDF AIR CONDITIONER AND INTERIOR EQUIPMENT. PROVIDE 2"C. WITH 6-STR SM FIBER TO FIELHOUSE DATA RACK 'IDF-F'.
69. FIELD VERIFY LOCATION OF EXISTING FIELD LEVEL INPUT JACKS. RECONNECT EXISTING JACKS TO NEW AV SYSTEM. PROVIDE 1"C TO AV SYSTEM IN BROADCAST C204. PROVIDE CABLING PER RISER.

PBK
ARCHITECT PBK Architects, Inc.
FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL STADIUM
200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

MADERA 19 66 UNIFIED SCHOOL DISTRICT

PROFESSIONAL SEAL
LICENSED ARCHITECT — MICHAEL R. SCHOEN — No. C-34185 — REGISTERED DATE 08.26.2027 — STATE OF CALIFORNIA

PROJECT NUMBER 20-51
DATE 08/22/2023
DSA APPLICATION NO.
FILE NO. 20-H3
PTN NO. 65243-153
DRAWN BY XXX

REVISIONS

#	DESCRIPTION	DATE
1	ADDENDUM #1	08/18/2025
2	ADDENDUM #2	08/22/2025
3	ADDENDUM #3	08/27/2025

CONSTRUCTION DOCUMENTS

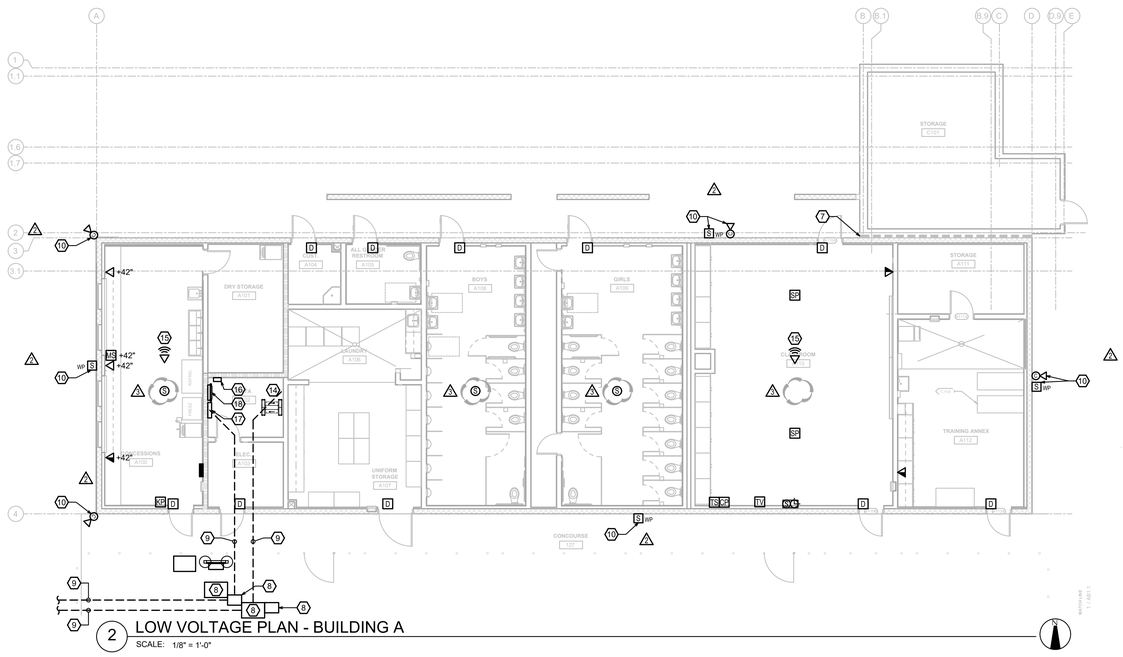
ENLARGED ELECTRICAL SITE PLAN

ES1.2

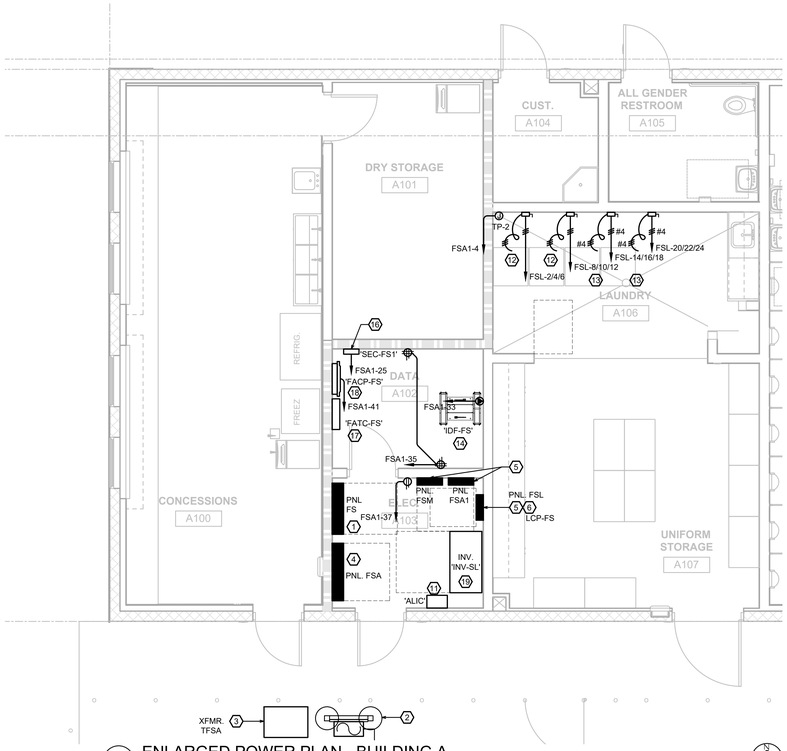
REGISTERED PROFESSIONAL ENGINEER — R.J. HARDIN — No. 9125 — ELECTRICAL — STATE OF CALIFORNIA

Hardin-Davidson Engineering
356 Pollasky Ave, Suite 200
Clovis, CA 93612
559.323.4995 tel
559.323.4928 fax

20-51_MHS STADIUM_V21_detached.rvt
3/18/2024 10:14:46 AM



1 POWER PLAN - BUILDING A
SCALE: 1/8" = 1'-0"



3 ENLARGED POWER PLAN - BUILDING A
SCALE: 1/4" = 1'-0"

CONDUIT ROUTING NOTES

UNLESS OTHERWISE NOTED, CONDUITS SHALL BE ROUTED AS FOLLOWS:

1. CONDUITS WITH ORIGINS OR TERMINATION AT EXTERIOR OUTLETS ARE TO BE ROUTED IN THE CMU BLOCKS.
2. CONDUITS WITH ORIGINS OR TERMINATIONS AT INTERIOR OUTLETS OF THE EXTERIOR CMU WALL SHALL BE RAN IN THE FURRING.
3. CONDUITS WITH ORIGINS OR TERMINATIONS AT INTERIOR WALLS SHALL BE RUN WITHIN THOSE WALLS.

DRAWING KEY NOTES

1. PANELBOARD 'FS'. 600A, 277/480V, 3Ø, 4W, NEMA 1,SURFACE MOUNT. SEE SINGLE LINE DIAGRAM. MOUNT PER DETAIL G13/EX2.3.
2. TRANSFORMER 'TFSA' FUSED DISCONNECT SWITCH. FUSED DISCONNECT SWITCH. SEE SINGLE LINE DIAGRAM, SHEET EX2.1. MOUNT PER DETAIL C13/EX2.3.
3. 480-120/208V, TRANSFORMER "TFSA'. SEE SINGLE LINE DIAGRAM, SHEET EX2.1 MOUNT PER DETAIL C5/EX2.3.
4. PANELBOARD 'FSA'. 800A, 120/208V, 3Ø, 4W, NEMA 1, SURFACE MOUNT. SEE SINGLE LINE DIAGRAM. MOUNT PER DETAIL G13/EX2.3
5. PROVIDE PANELBOARD PER SCHEDULE ON SHEET EX2.2 AND INSTALL PER DETAILG9/EX2.3.
6. PROVIDE LIGHTING CONTROL PANEL PER SCHEDULE ON SHEET EX1.2 AND INSTALL PER DETAIL G9/EX2.3.
7. 1-HOUR RATED WALL. SEE PENETRATION DETAIL A18/EX2.3 AND OUTLET DETAIL E18/EX2.3.
8. PULL BOXES. SEE SHEET ES1.2.
9. CONDUITS AND CONDUCTORS PER SINGLE LINE DIAGRAM, SHEET EX2.1 AND SHEET ES1.2.
10. WHERE OUTLET BOXES ARE LOCATED IN CMU WALL. SEE DETAIL H10/EX2.4.
11. SPORT LIGHTING BLEACHER EGRESS CONTROL PANEL 'ALIC'. PROVIDED WITH MUSCO SPORTS LIGHTING PACKAGE. COORDINATE WITH SUPPLIER. PROVIDE .5 KVA, 277V-120VAC SEALED TRANSFORMER TO STEP DOWN CONTROL POWER FROM INVERTER 277V POWER. CONNECT TRANSFORMER TO 10A/1P CIRCUIT BREAKER IN 'INV-SL'.
12. CONNECT WASHER. 6.3A, 480V, 3Ø, 3W. PROVIDE HEAVY-DUTY, 30A, 480V, 3 POLE, NEMA 1, NON-FUSED DISCONNECT SWITCH. 3/4"C. 3#12, 1#12 GRD.
13. CONNECT DRYER. 45A, 480V, 3Ø, 3W. PROVIDE HEAVY-DUTY 60A, 480V, 3 POLE, NEMA 1, NON-FUSED DISCONNECT SWITCH. 1"C. 3#4, 1#10 GRD.
14. IDF-FS. INSTALL PER DETAIL D5/EX3.1.
15. PROVIDE WAP CONNECTION ABOVE ACCESSIBLE CEILING PER DETAIL L10/EX3.1.
16. INTRUSION DETECTION SYSTEM 'SEC-FS1'. COORDINATE WITH INTRUSION VENDOR.
17. FIRE ALARM TERMINAL CABINET 'STC-FS1'. SEE SHEET EA4.1.
18. FIRE ALARM NETWORK CONTROL PANEL 'FACP-FS'. SEE SHEET EA4.1.
19. SPORTS LIGHTING INVERTER 'INV-SL'. MOUNT PER DETAIL F5/EX1.2.

PBK

ARCHITECT PBK Architects, Inc.
FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL STADIUM

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

MADERA 19 66 UNIFIED SCHOOL DISTRICT

PROFESSIONAL SEAL

LICENSED ARCHITECT — MICHAEL R. SCHOEV — No. C-30165 — RENEWAL DATE FEB 28, 2027 — STATE OF CALIFORNIA

PROJECT NUMBER	20-51
DATE	08/22/2023
DSA APPLICATION NO.	
FILE NO.	20-H3
PTN NO.	65243-153
DRAWN BY	XXX

REVISIONS

#	DESCRIPTION	DATE
1	ADDENDUM #1	08/18/2025
2	ADDENDUM #2	08/22/2025
3	ADDENDUM #3	08/27/2025

CONSTRUCTION DOCUMENTS

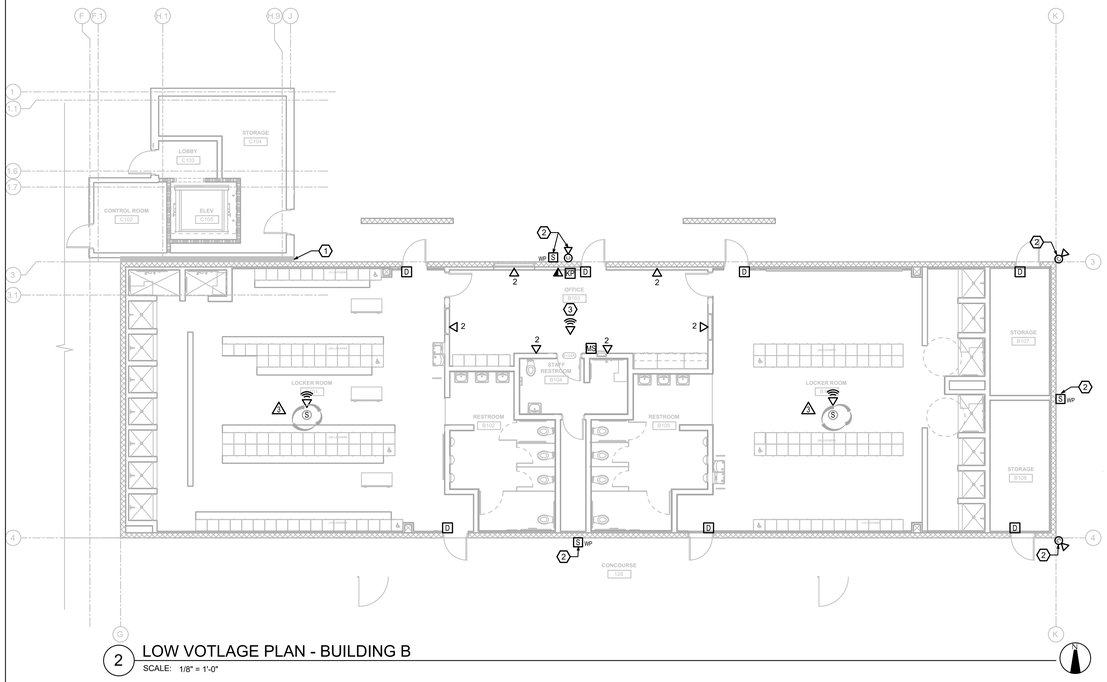
POWER & LOW. VOLT. PLANS BUILDING A

EA1.1

REGISTERED PROFESSIONAL ENGINEER — R. J. HARDIN — No. 9125 — ELECTRICAL — STATE OF CALIFORNIA

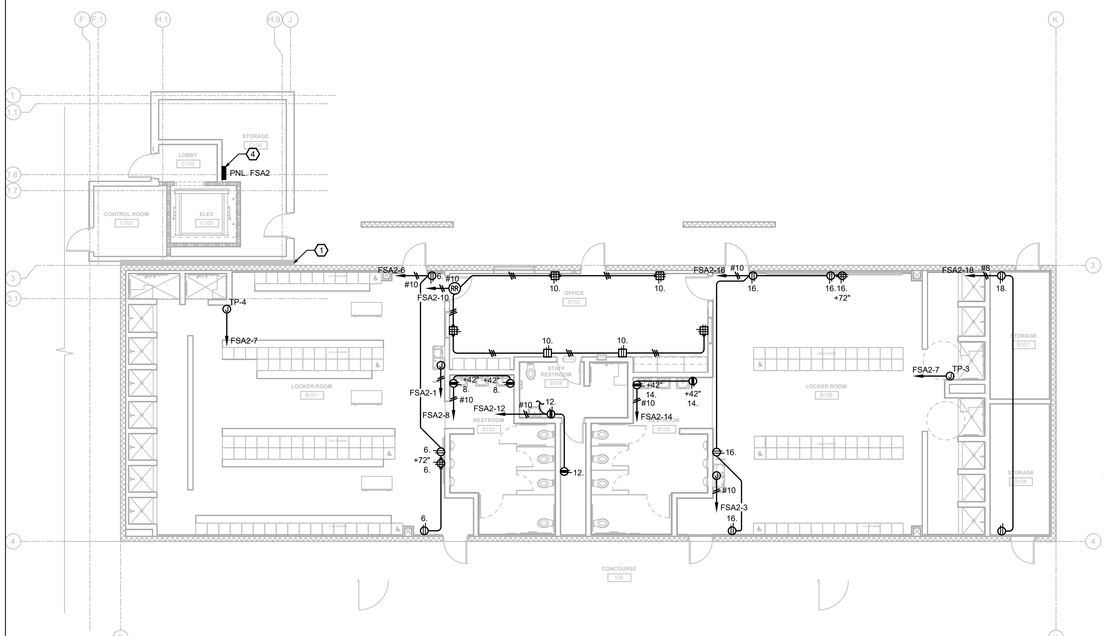
Hardin-Davidson Engineering
356 Pollasky Ave.
Suite 200
Clovis, CA 93612
559.323.4995 tel
559.323.4928 fax

20-51_MHS STADIUM_V21_detached.rvt
3/18/2024 10:14:46 AM



2 LOW VOTLAGE PLAN - BUILDING B

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



1 POWER PLAN - BUILDING B

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

CONDUIT ROUTING NOTES

UNLESS OTHERWISE NOTED, CONDUITS SHALL BE ROUTED AS FOLLOWS:

1. CONDUITS WITH ORIGINS OR TERMINATION AT EXTERIOR OUTLETS ARE TO BE ROUTED IN THE CMU BLOCKS.
2. CONDUITS WITH ORIGINS OR TERMINATIONS AT INTERIOR OUTLETS OF THE EXTERIOR CMU WALL SHALL BE RAN IN THE FURRING.
3. CONDUITS WITH ORIGINS OR TERMINATIONS AT INTERIOR WALLS SHALL BE RUN WITHIN THOSE WALLS.

DRAWING KEY NOTES

1. SEISMIC EXPANSION JOINT. ALL CONDUITS CROSSING THE EXPANSION JOINT SHALL BE INSTALLED PER DETAIL D8/EX2.5.
2. WHERE OUTLET BOXES ARE LOCATED IN CMU WALL, SEE DETAIL H10/EX2.4.
3. PROVIDE WAP CONNECTION ABOVE ACCESSIBLE CEILING PER DETAIL L10/EX3.1.
4. PANEL 'FSA2'. SEE SHEET EC1.1.

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL STADIUM

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

MADERA 19 66 UNIFIED SCHOOL DISTRICT

PROFESSIONAL SEAL

LICENSED ARCHITECT — MICHAEL R. SCHOEN — No. C-30165 — REGISTERED DATE FEB 28, 2027 — STATE OF CALIFORNIA

PROJECT NUMBER	20-51
DATE	08/22/2023
DSA APPLICATION NO.	
FILE NO.	20-H3
PTN NO.	65243-153
DRAWN BY	XXX

REVISIONS

#	DESCRIPTION	DATE
1	ADDENDUM #1	08/18/2025
2	ADDENDUM #2	08/22/2025
3	ADDENDUM #3	08/27/2025

CONSTRUCTION DOCUMENTS

POWER & LOW. VOLT. PLAN BUILDING B

EB1.1

REGISTERED PROFESSIONAL ENGINEER — R. J. HARDIN — No. 9125 — ELECTRICAL — STATE OF CALIFORNIA

Hardin-Davidson Engineering
356 Pollasky Ave.
Suite 200
Clovis, CA 93612
559.323.4995 tel
559.323.4928 fax

20-51_MHS STADIUM_V21_detached.rvt
3/18/2024 10:14:46 AM

CONDUIT ROUTING NOTES

UNLESS OTHERWISE NOTED, CONDUITS SHALL BE ROUTED AS FOLLOWS:

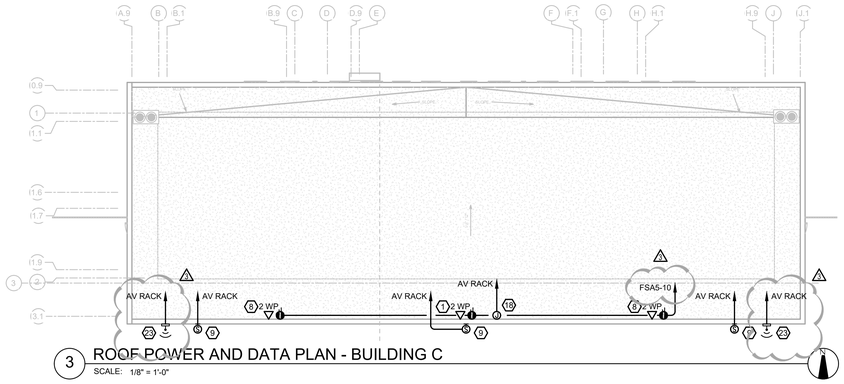
1. CONDUITS WITH ORIGINS OR TERMINATIONS AT WALLS SHALL BE RUN WITHIN THOSE WALLS.

EXCEPTIONS:

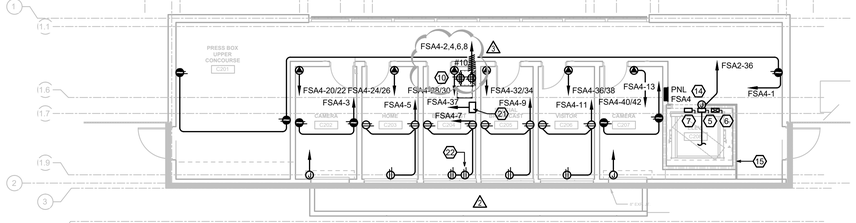
1. WHERE CONDUITS ARE TERMINATING AT SURFACE MOUNT PANELS, THEY MAY BE SURFACE MOUNTED TO THOSE WALLS.
2. WHERE CONDUITS ARE RAN IN THE CAVITY OF THE PRESS BOX STRUCTURE NOT NORMALLY OCCUPIED.

DRAWING KEY NOTES

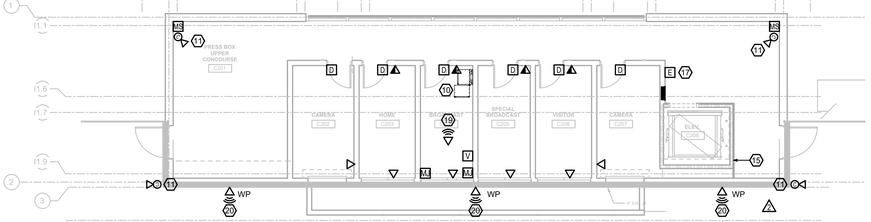
1. PANEL 'FSA2'. SEE SINGLE LINE DIAGRAM ON SHEET EX2.1 AND PANEL SCHEDULE ON SHEET EX2.2. MOUNT PER DETAIL G9/EX2.3.
2. ELEVATOR POWER MODULE SWITCH. SEE SINGLE LINE DIAGRAM, KEYNOTE 4, SHEET EX2.1.
3. 1-1/4" 3#4 CU, 1#4 CU GRD. G.E.C. SHALL BE THE SAME SIZE AS THE PHASE CONDUCTORS PER ELEVATOR MANUFACTURER'S REQUIREMENTS.
4. TO ELEVATOR LOCAL DISCONNECT AT THE TOP OF ELEVATOR SHAFT. SEE SHEET E2.2.
5. LOCAL ELEVATOR DISCONNECT. SEE SHEET E2.1 FOR POWER SOURCE IN EQUIPMENT ROOM.
6. ELEVATOR DRIVE. COORDINATE WITH ELEVATOR SUPPLIER.
7. ELEVATOR CAB DISCONNECT. ROUTE ELEVATOR POWER CKT FSA2-38. 3/4"C. 2#12, 1#12 GRD.
8. PROVIDE WEATHERPROOF WHILE-IN-USE COVER ON DATA OUTLETS ON ROOF FOR FUTURE CAMERA SYSTEM. PROVIDE (2) DATA CABLES AT EACH LOCATION PER SPECIFICATIONS.
9. STADIUM PA SYSTEM SPEAKER MOUNTED TO PRESS BOX SOFFIT. SEE DETAIL B5/EX3.1.
10. STADIUM AV RACK 'IDF-FS2'. SEE DETAIL L5/EX3.1. 1"C. TO AV RACK WITH #12 SPEAKER CABLE.
11. PROVIDE CEILING MOUNTED CCTV OUTLET.
12. SEISMIC EXPANSION JOINT. ALL CONDUITS CROSSING THE EXPANSION JOINT SHALL BE INSTALLED PER DETAIL D8/EX2.5.
13. INTRUSION DETECTION SYSTEM 'SEC-FS2'. COORDINATE WITH INTRUSION VENDOR.
14. PANEL 'FSA4'. SEE SINGLE LINE DIAGRAM ON SHEET EX2.1 AND PANEL SCHEDULE ON SHEET EX2.2. MOUNT PER DETAIL L15/EX2.4.
15. 1 HOUR RATED WALL. SEE DETAILS A18/EX2.3 AND E18/EX2.3 FOR OUTLET BOXES AND PENETRATIONS.
16. MOUNT CAMERA TO UNDERSIDE OF SECOND FLOOR.
17. PROVIDE TWO WAY COMMUNICATIONS SYSTEM FOR ELEVATOR COMPLETE & OPERATING WITH IP CALL BOX, ELEVATOR LANDING SIGNAGE, IP BASE STATION, MASTER THAT ALLOWS STAFF OR 911 CENTER TO RESPOND, UPS, & REQUIRED CABLING. CORNEL SENTINAL AOR, RATH OR APPROVED EQUAL. VERIFY ALL LOCATIONS.
18. ANTENNA LOCATION FOR AV SYSTEM. SEE SPECIFICATIONS FOR ANTENNA CABLING REQUIREMENTS.
19. PROVIDE WAP CONNECTION ABOVE ACCESSIBLE CEILING PER DETAIL L10/EX3.1.
20. PROVIDE WEATHERPROOF WAP CONNECTION. COORDINATE WITH DISTRICT REPRESENTATIVE FOR EXACT LOCATION REQUIREMENTS PRIOR TO INSTALLATION.
21. MUSCO COMMUNICATIONS CABINET. MOUNT PER DETAIL D10/EX2.4. MOUNT 80" TO BOTTOM OF CABINET. 3/4"C 2#12, 1#10 GRD. VERIFY LOCATION WITH DISTRICT REPRESENTATIVE PRIOR TO INSTALLATION.
22. MUSCO CONTROL TOUCHSCREEN. COORDINATE EXACT LOCATION WITH DISTRICT REPRESENTATIVE PRIOR TO INSTALLATION. UNIT PLUGS INTO STANDARD 20A, 120V RECEPTACLE.
23. WIRELESS MICROPHONE ANTENNA. WINEGUARD ELITE 7550. WEIGHT 4.5LBS. MOUNT TO UNDERSIDE OF ROOF.



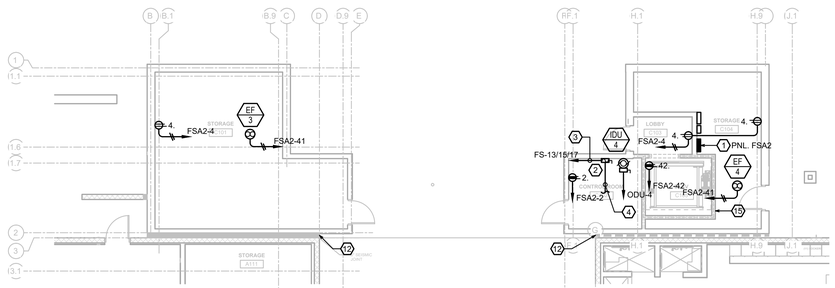
3 ROOF POWER AND DATA PLAN - BUILDING C
SCALE: 1/8" = 1'-0"



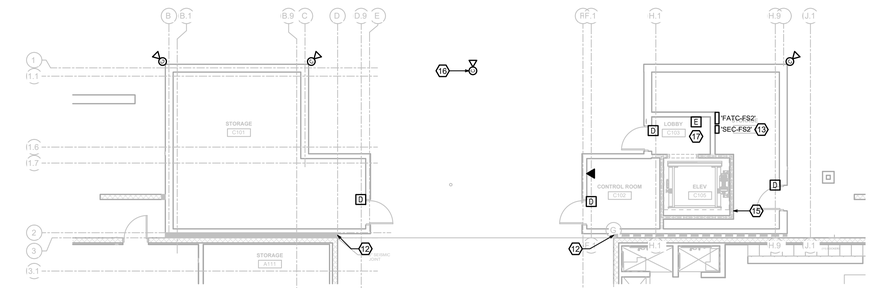
2 POWER PLAN - SECOND FLOOR BUILDING C
SCALE: 1/8" = 1'-0"



5 DATA/COMM PLAN - SECOND FLOOR BUILDING C
SCALE: 1/8" = 1'-0"



1 POWER PLAN - FIRST FLOOR BUILDING C
SCALE: 1/8" = 1'-0"



4 DATA/COMM PLAN - FIRST FLOOR BUILDING C
SCALE: 1/8" = 1'-0"

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL STADIUM

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

MADERA 19 66 UNIFIED SCHOOL DISTRICT

PROFESSIONAL SEAL

LICENSED ARCHITECT — MICHAEL R. SCHERY — No. C-30165 — REGISTERED DATE FEB 28, 2027 — STATE OF CALIFORNIA

PROJECT NUMBER	20-51
DATE	08/22/2023
DSA APPLICATION NO.	
FILE NO.	20-H3
PTN NO.	65243-153
DRAWN BY	XXX

REVISIONS

#	DESCRIPTION	DATE
1	ADDENDUM #1	08/18/2025
2	ADDENDUM #2	08/22/2025
3	ADDENDUM #3	08/27/2025

CONSTRUCTION DOCUMENTS

ELEC. PLANS BUILDING C

EC1.1

REGISTERED PROFESSIONAL ENGINEER — R. J. HARDIN — No. 9125 — ELECTRICAL — STATE OF CALIFORNIA

Hardin-Davidson Engineering
356 Pollasky Ave.
Suite 200
Clovis, CA 93612
559.323.4995 tel
559.323.4928 fax

20-51_MHS STADIUM_V21_detached.rvt
3/18/2024 10:14:46 AM

LOW VOLTAGE GENERAL SCOPE:

1. THE CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL DATA AND VOICE COMMUNICATIONS LOCAL AREA NETWORK (LAN), INCLUDING MAIN AND INTERMEDIATE DATA FRAMES, 24-STRAND SINGLEMODE FIBER OPTIC CABLING FROM THE CAMPUS IDF TO TELECOM RM. 123 IDF, 12-STRAND SINGLEMODE FIBER OPTIC CABLING FROM THE TELECOM RM. 123 IDF TO THE IDF RM. 126 IDF, FIBER OPTIC TERMINATIONS TO LC CONNECTORS (VERIFY AND MAINTAIN POLARITY), COPPER CAT6A HORIZONTAL CABLING THROUGHOUT, LABELING, LADDER RACKING, CABLE MANAGEMENT, MANAGED POWER DISTRIBUTION UNITS (PDUs), TERMINATION OF ALL CABLES, PATCH PANELS WITH PATCH CABLES FOR EVERY PORT (INCLUDING PORTS IN A PATCH PANEL THAT ARE UNUSED), COMMUNICATIONS GROUND BUS BAR AND GROUND CONNECTION, GROUNDING OF ALL METALLIC FRAMES AND LADDER RACKING WITH PAINT REMOVED AT LUGS, UNINTERRUPTABLE POWER SUPPLIES WITH 30 MINUTES BACKUP TIME, DATA AND COMMUNICATION OUTLETS, WIRELESS ACCESS POINT OUTLETS, CAMERA OUTLETS, AND TESTING AND REPORTS FOR ALL INSTALLED FIBER AND COPPER CABLES AND OUTLETS. NETWORK ELECTRONICS SUCH AS GATEWAYS AND SWITCHES SHALL BE FURNISHED BY THE OWNER AND INSTALLED BY THE CONTRACTOR. DELIVER REPORTS TO OWNER.

2. THE CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL IP PUBLIC ADDRESS SYSTEM, INCLUDING HEAD END SOFTWARE, INTERFACES WITH A/V SYSTEMS TO OVERRIDE THOSE SYSTEMS WHEN ANNOUNCEMENTS ARE MADE, INTERFACES WITH THE VOIP SYSTEM TO ALLOW ANNOUNCEMENTS BY USE OF HANDSETS, INTERFACE WITH FIRE ALARM SYSTEM TO DISPLAY A FIRE ALERT WHEN THE FIRE ALARM SYSTEM IS ACTIVATED, IP INDOOR AND OUTDOOR SPEAKERS, IP SPEAKER/CLOCKS, IP LARGE FORMAT DISPLAYS, LICENSES, SYSTEM PROGRAMMING, OWNER COORDINATION DURING COMMISSIONING, AND TESTING AND REPORTS. NOTE A HYBRID IP-ANALOG SYSTEM IS NOT AN ACCEPTABLE SUBSTITUTION FOR THIS SYSTEM.

3. THE CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL, AUTOMATIC, FIRE ALARM SYSTEM WITH EMERGENCY VOICE/ALARM COMMUNICATIONS, TO INCLUDE CONTROL PANELS, ANNUNCIATORS, OPERATING CONSOLES, POWER SUPPLIES, AMPLIFIERS, PULL STATIONS, SMOKE AND HEAT DETECTION DEVICES, ADDRESSABLE INPUT AND OUTPUT MODULES, SPEAKER STROBES, SPEAKERS, 6-STRAND SINGLE MODE FIBER OPTIC CABLING LINK TO EXISTING CAMPUS FIRE ALARM SYSTEM, LOCAL COPPER CABLING, INTERFACE WITH IP PA SYSTEM DO DISPLAY "FIRE ALARM" ON THE CLOCK DISPLAY, LABELING, PROGRAMMING, TESTING, AND REPORTS. DELIVER REPORTS TO OWNER FOR REVIEW.

LOW VOLTAGE GENERAL NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL CONTACT EACH SIGNAL SYSTEM VENDOR AND THOROUGHLY INVESTIGATE THE EXPANDABILITY OF ALL EXISTING SYSTEMS. THE CONTRACTOR'S BID SHALL INCLUDE ALL REQUIRED COMPONENTS, PROGRAMMING, CABLING, UPGRADES, ETC. TO INTEGRATE THE WORK SHOWN IN DIV. 26 DRAWINGS AND PROVIDE FOR FULLY FUNCTIONAL LOW VOLTAGE SYSTEMS.

2. EXISTING PULL BOX LOCATIONS ARE DIAGRAMMATIC. FIELD VERIFY EXACT LOCATIONS. ADD CONDUITS TO EXISTING PULL BOXES WHERE INDICATED. REPAIR ANY DAMAGE INCURRED.

3. TERMINAL CABINETS TO BE WIEGMANN RHC SERIES, OR EQUAL, W/ MOUNTING PANELS / PLYWOOD BACK BOARD. INSTALL ALL REQUIRED TERMINAL STRIPS, PUNCH DOWN BLOCKS, ETC.

4. INSTALL NYLON PULL LINE WITH ALL CABLE RUNS IN UNDERGROUND CONDUITS.

5. INSTALL CABLING IN J-HOOKS. SEE DETAIL E7/X/E104.

GENERAL ELECTRICAL NOTES:

1. ALL WORK SHALL MEET THE LATEST ADOPTED ADDITIONS OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24 AND ALL OTHER APPLICABLE REGULATIONS, WHICH INCLUDE:

CALIFORNIA BUILDING CODE	2022
CALIFORNIA ELECTRICAL CODE	2022
NON RESIDENTIAL CEC ENERGY STANDARDS	2022

2. NOTHING IN THE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

3. IT IS THE INTENTION OF THESE PLANS AND SPECIFICATIONS TO COVER EVERYTHING REQUIRED TO PROVIDE FOR COMPLETE AND OPERATIVE SYSTEMS. THE CONTRACTOR IS TO FURNISH LABOR, MATERIAL, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC. REQUIRED TO ACCOMPLISH THIS RESULT, ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE INSTALLATION IS TO BE INCLUDED, WHETHER OR NOT SPECIFICALLY SHOWN OR MENTIONED.

4. THE CONTRACTOR SHALL EXAMINE THE SITE AND EXISTING VISIBLE CONDITIONS AND MAKE ALLOWANCES IN THE BID FOR ANY CONDITIONS NOT SHOWN ON THE ELECTRICAL DOCUMENTS.

5. THE PLANS AND SPECIFICATIONS ARE INTENDED TO BE USED AS CONSTRUCTION GUIDELINES AND ARE NOT THE TOTAL INSTRUMENT OF CONTRACT DOCUMENTS. IT IS NOT THE INTENTION OF ANY CONSTRUCTION PLANS TO DIVIDE WORK AMONG DIFFERENT TRADES. VERIFY THE SCOPE OF WORK WITH THE ARCHITECT AND THE GENERAL CONTRACTOR.

6. ELECTRICAL ROUTING IS DIAGRAMMATIC ONLY. ACTUAL ROUTING & PHYSICAL CONDITIONS MAY VARY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL ROUTING, CONNECTIONS, & PROVISION OF ALL APPURTENANCES NECESSARY FOR A COMPLETE & OPERATING SYSTEM.

7. ELECTRICAL EQUIPMENT SHALL HAVE AN APPROVED TESTING LABORATORY LABEL ATTACHED (UL, CSA ETC.) PER CEC 110.2.

8. PROVIDE LABELING AND DIRECTORIES FOR ALL SWITCHBOARDS AND PANELBOARDS PER CEC 408.4.

9. ELECTRICAL EQUIPMENT SHALL HAVE A SHORT CIRCUIT CURRENT RATING CAPABLE OF WITHSTANDING THE AVAILABLE SHORT CIRCUIT CURRENT PER CEC 110.9.

10. PROVIDE MINIMUM 30" WIDE x 78" HIGH x 36" DEEP [42" DEEP] WORK CLEARANCES IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT 120/208V 3Ø 4W [277/480V 3Ø 4W] PER CEC 110.26.

11. ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUIT OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE MOUNTED BETWEEN 15" AFF AND 48" AFF AND SHALL COMPLY WITH CBC SECTION 11B-308. THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX. IF THE REACH IS OBSTRUCTED (E.G. BY CASEWORK, COUNTERS, ETC.), RECEPTACLES SHALL BE LOCATED WITHIN THE REACH RANGES SPECIFIED IN CBC 11B-308.2.2 AND 11B-308.3.2.

12. CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF A ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES, OR COOLING, HEATING AND VENTILATING EQUIPMENT SHALL BE MOUNTED BETWEEN 15" AFF AND 48" AFF AND SHALL COMPLY WITH CBC SECTION 11B-308. THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX. IF THE REACH IS OBSTRUCTED (E.G. BY CASEWORK, COUNTERS, ETC.), SWITCHES AND CONTROLS SHALL BE LOCATED WITHIN THE REACH RANGES SPECIFIED IN CBC 11B-308.2.2 AND 11B-308.3.2.

13. ALL WALL AND SURFACE MOUNTED FIXTURES PROTRUDING IN THE PATH OF TRAVEL (POT) OR COMMON PEDESTRIAN WAYS SHALL COMPLY WITH CBC 11B-307.2, OR SHALL BE MOUNTED LESS THAN 27" AFF OR GREATER THAN 80" AFF, OR SHALL BE PROVIDED WITH A BARRIER CONFORMING TO CBC 11B-307.4.

14. EMERGENCY EGRESS LIGHTING SHALL PROVIDE A MINIMUM LUMINANCE OF 1 FOOTCANDLE AT THE WALKING SURFACE FOR A MINIMUM OF 90 MINUTES.

15. FIRE ALARM EQUIPMENT SHALL BE SERVED BY DEDICATED FIRE ALARM BRANCH CIRCUITS PER NFPA 72 10.6.5.1.2. THE CIRCUIT NUMBER SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM EQUIPMENT PER NFPA 10.6.5.2.1. THE CIRCUIT BREAKER SHALL BE EQUIPPED WITH RED HANDLE AND LOCK-ON DEVICE, AND PERMANENTLY IDENTIFIED AS "FIRE ALARM CIRCUIT" PER NFPA 72 10.6.5.2.2, 10.6.5.2.3, 10.6.5.2.4, AND 10.6.5.4.

16. WIRING FOR 120/208V AND 277/480V SYSTEMS SHALL BE MIN. #12 AWG THWN-2 COPPER. ALL WIRING TO BE IN RACEWAYS. ALL RACEWAYS TO BE CONCEALED WITHIN WALLS & CEILINGS. WHERE EXISTING WALLS HAVE PLYWOOD TO REMAIN, MC CABLE & CUT-IN BOXES MAY BE USED FOR VERTICAL WIRING TO AVOID CUTTING WALLS FOR HORIZONTAL WIRING. FLEXIBLE CONDUIT FOR VERTICAL DATA CABLING RUNS MAY BE USED.

17. FEEDERS SIZE #4 AND LARGER SHALL BE MEGGER TESTED. TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER.

18. COLORS/FINISHES/MATERIALS FOR ALL ELECTRICAL DEVICES, PLATES, LIGHT FIXTURES, ETC. SHALL BE CHOSEN BY THE ARCHITECT.

19. CONTRACTOR SHALL EXTEND ALL SIGNAL AND FIRE ALARM SYSTEMS AS REQUIRED. MODIFY HEAD-IN EQUIPMENT TO ACCOMMODATE NEW DEVICES AS REQUIRED. VERIFY THE CONDITION AND EXPANDABILITY OF ALL HEAD-IN EQUIPMENT PRIOR TO BID AND MODIFY ACCORDINGLY.

20. CALL USA UNDERGROUND ALERT AND VERIFY WITH DISTRICT THE DESIRED ROUTING AND LOCATIONS OF UNDERGROUND CONDUITS AND STRUCTURES PRIOR TO TRENCHING.

21. EXISTING EQUIPMENT TO BE REMOVED AND/OR REPLACED SHALL BE DELIVERED TO THE DISTRICT MAINTENANCE DEPARTMENT OR DISPOSED OF, AT THE DISCRETION OF THE DISTRICT.

22. ALL CONDUITS UNDER CONCRETE OR ASPHALT WILL HAVE 24" MINIMUM COVER OF ROCK FREE NATIVE SOIL, METALLIC WARNING TAPE AT 12", AND NO ENCASEMENT REQUIRED. ALL CONDUITS THAT HAVE CONDUCTORS WITH A POTENTIAL OF 250 VOLT TO GROUND OR GREATER, THAT ARE NOT UNDER ASPHALT AND/OR CONCRETE SHALL REQUIRE 1,500 PSI CONCRETE ENCASEMENT, METALLIC WARNING TAPE AT 12", AND A MINIMUM COVER FROM TOP OF ENCASEMENT OF 24". ALL CONDUITS THAT HAVE CONDUCTORS WITH A POTENTIAL OF LESS THAN 250 VOLTS TO GROUND, THAT ARE NOT UNDER ASPHALT AND/OR CONCRETE WILL HAVE 30" MINIMUM COVER OF NATIVE SOIL, METALLIC WARNING TAPE AT 12" AND NO ENCASEMENT REQUIRED.

23. INSTALL GALVANIZED RIGID STEEL RISERS & ELBOWS WHERE THEY OCCUR. WRAP GALVANIZED RIGID STEEL BELOW GRADE. PVC SHALL NOT BE INSTALLED ABOVE GRADE.

24. CONDUIT INSTALLED ABOVE GRADE SHALL BE MIN. 3/4" TRADE SIZE. CONDUIT BELOW GRADE SHALL BE MIN. 1" TRADE SIZE.

25. PROVIDE (4) 1" CONDUIT STUBS FROM NEW ELECTRICAL PANEL TO ACCESSIBLE ATTIC SPACE FOR FUTURE USE.

26. CIRCUIT BREAKERS SERVING FIRE ALARM EQUIPMENT SHALL HAVE A RED HANDLE AND LOCK-ON DEVICE.

27. HOLES ARE NOT ALLOWED THROUGH TOP PLATES OF BEARING WALLS AND SHEAR WALLS.

28. INCLUDE FIRE STOP SYSTEMS REQUIRED FOR ALL WORK AFFECTED BY FIRE RATED ASSEMBLIES.

29. INCLUDE ALL WORK REQUIRED TO INVESTIGATE, DEMOLISH, & RECONNECT EXISTING ITEMS.

LIGHTING GENERAL NOTES:

1. THE CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM OF LIGHT FIXTURES AND CONTROLS THAT COMPLY WITH THE REQUIREMENTS OF CALIFORNIA ENERGY COMMISSION TITLE 24.

2. PROVIDE A COMPLETE AND OPERATIONAL CONTROLS PACKAGE IN LIGHTING AREAS. PROVIDE WALL SWITCHES, SENSORS, POWER PACKS, MISCELLANEOUS APPURTENANCES, FACTORY CABLING, AND FACTORY COMMISSIONING.

3. AN EQUAL SUBSTITUTE PACKAGE BY ANOTHER MANUFACTURER MAY BE ACCEPTABLE. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL REQUIRED COMPONENTS, ADDITIONAL WIRING FOR DIMMING OPERATION OF LIGHT FIXTURES, AND ANYTHING ELSE NEEDED FOR A COMPLETE AND OPERATIONAL SYSTEM. SUBMIT SUBSTITUTE PACKAGE, INCLUDING SHOP DRAWINGS, TO ENGINEER FOR REVIEW AND APPROVAL. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY RESULT IN REJECTION OF SUBSTITUTE COMPONENTS.

4. THE PLANS GENERALLY SHOW THE LOCATION OF SWITCHES, SENSORS, CONTROL MODULES ETC. ACTUAL LOCATIONS AND INSTALLATION REQUIREMENTS SHALL BE DETERMINED BY THE MANUFACTURER. SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL.

5. PROVIDE FACTORY COMMISSIONING, TO INCLUDE COMPLETE CONTROL WIRING/ CALIBRATION/ PROGRAMMING OF LIGHTING CONTROL COMPONENTS.

6. LIGHTING SYSTEM ACCEPTANCE TESTING IS REQUIRED AS PER TITLE 24. THE CONTRACTOR SHALL INCLUDE ACCEPTANCE TESTING COSTS IN BID. THE CONTRACTOR IS RESPONSIBLE TO MAKE ANY ADJUSTMENTS NECESSARY TO ACHIEVE ACCEPTANCE.

7. LIGHTING FIXTURE COLORS, WHEN NOT SPECIFIED, SHALL BE SELECTED BY THE ARCHITECT'S OFFICE. DO NOT SUBMIT COLORS THAT HAVE NOT BEEN APPROVED BY THE ARCHITECT.

8. THE OUTDOOR LIGHTING SYSTEMS SHALL COMPLY WITH ALL OF THE FOLLOWING:
   A. THE MINIMUM REQUIREMENTS IN CALIFORNIA ENERGY CODE FOR LIGHTING ZONE 3.
   B. BACKLIGHT, UPLIGHT, AND GLARE (BUG) RATINGS AS DEFINED IN IES TM-15-11.
   C. ALLOWABLE BUG RATINGS NOT EXCEEDING THOSE SHOWN ON TABLE 5.106.8. (CAL GREEN 5.106.8)

ELEC. EQUIPMENT ANCHORAGE NOTES:

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16, CHAPTERS 13, 26 AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING ELECTRICAL UTILITY SERVICE. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL ELECTRICAL COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

ELEC. DISTRIBUTION SYSTEM BRACING NOTES:

THE ELECTRICAL DISTRIBUTION SYSTEM SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16, SECTION 13.3 AS DEFINED IN ASCE 7-16, SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

OPTION 1: THE ELECTRICAL DISTRIBUTION SYSTEM IS DETAILED ON THE APPROVED DRAWINGS WITH SPECIFIC NOTES AND DETAILS.

ELECTRICAL SYMBOLS:

- LIGHT FIXTURE, CEILING OR WALL MOUNTED
- LIGHT FIXTURE EQUIPPED WITH EMERGENCY BATTERY BACKUP
- LIGHT FIXTURE, RECESSED CEILING, SURFACE CEILING, OR WALL MOUNTED
- LIGHT FIXTURE WITH EMERGENCY BATTERY BACKUP
- POLE LIGHT
- EMERGENCY EXIT LIGHT
- EMERGENCY EXIT LIGHT WITH EMERGENCY BATTERY BACKUP
- SINGLE POLE SWITCH, WALL MOUNTED +48" TO TOP OF BOX, UNLESS OTHERWISE NOTED
- INV — INVERTER
- WALL MOUNTED DUAL TECH OCCUPANCY SENSOR SWITCH, 0-10V DIMMING, AT +48' AFF TO TOP OF BOX
- DIGITAL DIMMER SWITCH, AT +48' AFF TO TOP OF BOX
- DIGITAL "FRESCO GRAPHICAL TOUCHSCREEN DIMMING CONTROLLER AT +48 AFF TO TOP OF BOX
- DIGITAL OCCUPANCY SENSOR W/ PHOTOSENSOR DUAL-TECHNOLOGY CEILING MOUNT
- GW — DIGITAL GATEWAY
- BR — DIGITAL BRIDGE
- PP — DIMMING POWER PACK VERIFY 0-10V, 2- OR 3-WIRE MLV, OR ELV BY FIXTURE
- PP E — DIMMING POWER PACK W/ EMERGENCY CONTROL VERIFY 0-10V, 2- OR 3-WIRE MLV, OR ELV BY FIXTURE
- RR — RECEPTACLE RELAY CONTROLLED BY OCCUPANCY SENSOR
- DUPLEX RECEPTACLE, WALL MOUNTED +15" TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED
- E — RED DUPLEX RECEPTACLE ON STANDBY POWER, WALL MOUNTED +15" TO BOTTOM OF BOX, UNLESS OTHERWISE
- PTV — DUPLEX RECEPTACLE, CEILING MOUNTED AT PROJECTION TELEVISION
- FOUR-PLEX RECEPTACLE, WALL MOUNTED +15" TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED
- WEATHERPROOF, G.F.I. PROTECTED DUPLEX RECEPTACLE, WALL MOUNTED +15" TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED
- G.F.I. PROTECTED DUPLEX RECEPTACLE, WALL MOUNTED +15" TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED
- DUPLEX RECEPTACLE, HALF UN-SWITCHED & HALF LIGHTING CONTROLLER SWITCHED, WALL MOUNTED +15" TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED. EATON #WR-20
- FOUR-PLEX RECEPTACLE, HALF UN-SWITCHED & HALF LIGHTING CONTROLLER SWITCHED, WALL MOUNTED +15" TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED. EATON #(2)WR-20
- FLOOR POCKET OR BOX AS NOTED
- SPECIAL RECEPTACLE AS NOTED
- FIRE/SMOKE DAMPER MOTOR
- JUNCTION BOX
- MOTOR CONNECTION AND FUSIBLE DISCONNECT SWITCH, FUSE AS REQUIRED, NEMA 3R FOR OUTDOOR
- MOTOR CONNECTION, STARTER W/ OVERLOADS, AND FUSIBLE DISCONNECT SWITCH, FUSE AS REQUIRED, NEMA 3R FOR OUTDOOR
- POWER DISTRIBUTION BOARD OR WIRE GUTTER AS NOTED
- T — TRANSFORMER
- TERMINAL CABINET OR CONTROL PANEL AS NOTED
- EXISTING CONDUIT/WIRING TO BE DEMOLISHED
- EXISTING CONDUIT/WIRING
- LV — LOW VOLTAGE LIGHTING CONTROL CABLING
- WIRES IN CONDUIT, CONCEALED IN OR UNDER FLOOR
- WIRES IN CONDUIT, CONCEALED IN WALL OR CEILING
- A-2 — HOMERUN OF CONDUIT AND WIRING, CIRCUIT NO. 2 TO PANEL 'A'
- CROSS HATCHES INDICATE NUMBER OF #12 AWG. CONDUCTORS IN CONDUIT, WHEN MORE THAN TWO. WIRE SIZE INDICATED ON PLANS WHEN OTHER #12 AWG. PROVIDE GROUND PER CEC 250. (LARGE HATCHES ARE NEUTRAL CONDUCTORS, SMALL HATCHES ARE HOT OR SWITCH-LEG CONDUCTORS, CURVED HATCHES ARE 0-10V PURPLE & GREY CONDUCTORS)
- SURFACE / FLUSH — PANELBOARD
- SWP — PA SPEAKER, WP HORN & ENCLOSURE: ATLAS SOUND #IP-HVP SPEAKER AMD #IP-FEST-IH (FLUSH MOUNT) OR #IP-SEST-IH (SURFACE MOUNT) ENCLOSURE WITH CAT6 CABLE TO IDF
- CLOCK: ATLAS SOUND #IP-DM CLOCK AND #IP-FEC-DM (FLUSH MOUNT) OR #IP-SEC-DM (SURFACE MOUNT) ENCLOSURE WITH CAT6 CABLE TO IDF
- S — FLUSH PA WALL SPEAKER: ATLAS SOUND #IP-SM SPEAKER AND #IP-FEST-SD (FLUSH MOUNT) OR #IP-SEA-SD (SURFACE MOUNT) ENCLOSURE WITH CAT6 CABLE TO IDF
- S — FLUSH PA CEILING SPEAKER: ATLAS SOUND #IP-SM SPEAKER AND #IP-STBE (FLUSH MOUNT) OR #IP-SEA-SD (SURFACE MOUNT) ENCLOSURE WITH CAT6 CABLE TO IDF
- ATLAS SOUND #IP-SDM SPEAKER/CLOCK AND #IP-FEST-SD (FLUSH MOUNT) OR #IP-SEST-IH (SURFACE MOUNT) ENCLOSURE WITH CAT6 CABLE TO IDK
- IP CAMERA OUTLET (SAME AS SINGLE DATA OUTLET)
- SINGLE CAT6 DATA OUTLET: PROVIDE 4-11/15" BOX WITH ONE GANG RING FLUSH IN WALL AT +15" TO BOTTOM OF BOX, (UNLESS NOTED) 1-1/4"C TO CEILING SPACE & (1) CAT6 CABLE TO IDF
- 2 — COMBO DATA/(2) CAT6 JACK OUTLET: PROVIDE 4-11/15" BOX WITH ONE GANG RING FLUSH IN WALL AT +15" TO BOTTOM OF BOX, (UNLESS NOTED) 1-1/4"C TO CEILING SPACE & (2) CAT6 CABLES TO IDF
- SINGLE TEL. CAT6 OUTLET: PROVIDE 4-11/15" BOX WITH ONE GANG RING FLUSH IN WALL AT +15" TO BOTTOM OF BOX, (UNLESS NOTED) 1-1/4"C TO CEILING SPACE & (1) CAT6 CABLE TO IDF
- W — SINGLE WALL TELEPHONE CAT6 OUTLET: PROVIDE 4-11/16" BOX WITH ONE GANG RING FLUSH IN WALL AT +48" TO BOTTOM OF BOX, 1-1/4"C TO CEILING SPACE & (1) CAT6 CABLE TO IDF
- WIRELESS ACCESS POINT, DUAL CAT6A DATA OUTLET: PROVIDE 2 PORT SURFACE JACK IN CEILING SPACE ON SUPPORT WIRE, (2) CAT-6A CABLES TO IDF. MOUNT PER DETAIL E13/X/104.
- WALL MOUNT DATA/TELEPHONE OUTLET AT +18" AFF, U.O.N. (1) DATA JACK AND (1) TELEPHONE JACK U.O.N.
- ⚠1 TV — WALL TV OUTLET: PROVIDE 3-GANG RING FLUSH IN WALL WITH 2"C TO CEILING SPACE (2) DATA JACK AND CAT6 CABLES TO IDF. (UNLESS NOTED OTHERWISE)
- TS — TEACHER'S STATION OUTLET: PROVIDE 1-GANG RING WITH 2"C TO CEILING SPACE.
- CP — TEACHERS CONTROL STATION
- SP — CLASSROOM AV CEILING SPEAKER
- SS — GYM SOUND SYSTEM SPEAKER
- M — MICROPHONE INPUT, XLR PLATE
- M WP — MICROPHONE INPUT, XLR PLATE, WEATHER PROOF
- V — VOLUME CONTROLLER
- CR — CARD READER: PROVIDE 4S BOX WITH 3/4"C TO CEILING SPACE. VERIFY WITH SECURITY CONTRACTOR.
- D — DOOR CONTACT: PROVIDE 3/4"C TO CEILING SPACE. VERIFY WITH SECURITY CONTRACTOR.
- KP — SECURITY KEYPAD: PROVIDE 4S BOX WITH 3/4"C TO CEILING SPACE. VERIFY WITH SECURITY CONTRACTOR.

(E)	EXISTING
(N)	NEW
W.P.	WEATHERPROOF
U.O.N.	UNLESS OTHERWISE NOTED

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL STADIUM

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

MADERA 19 66 UNIFIED SCHOOL DISTRICT

PROFESSIONAL SEAL

LICENSED ARCHITECT — MICHAEL R. SCHOEN — No. C-30286 — RENEWAL DATE 08.31.2027 — STATE OF CALIFORNIA

PROJECT NUMBER 20-51

DATE 08/22/2023

DSA APPLICATION NO.

FILE NO. 20-H3

PTN NO. 65243-153

DRAWN BY XXX

REVISIONS

#	DESCRIPTION	DATE
⚠1	ADDENDUM #1	08/18/2025
⚠2	ADDENDUM #2	08/22/2025
⚠3	ADDENDUM #3	08/27/2025

CONSTRUCTION DOCUMENTS

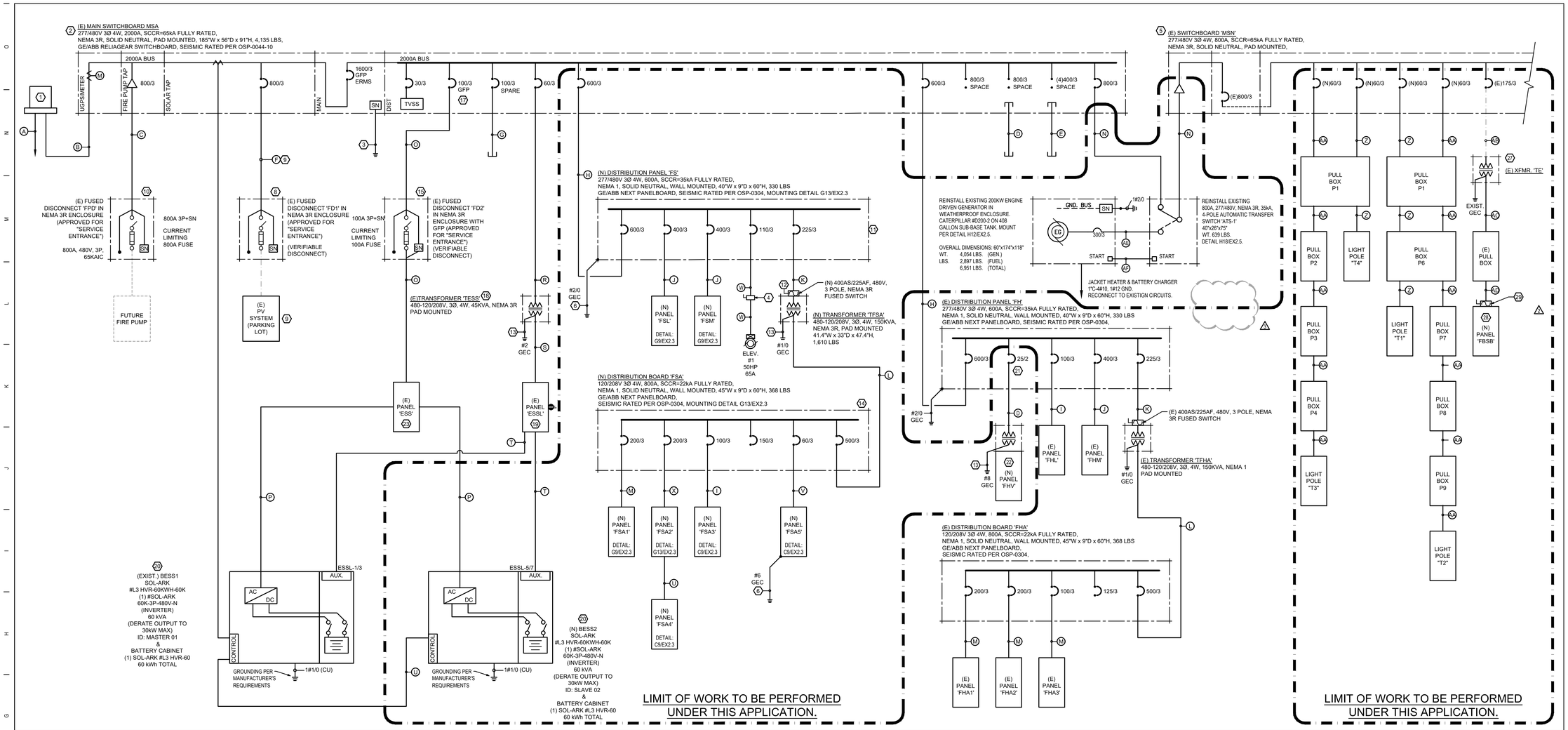
ELECTRICAL GENERAL NOTES & SYMBOLS

EX0.1

REGISTERED PROFESSIONAL ENGINEER — R. J. HARDIN — No. 9125 — ELECTRICAL — STATE OF CALIFORNIA

Hardin-Davidson Engineering
356 Pollasky Ave.
Suite 200
Clovis, CA 93612
559.323.4995 tel
559.323.4928 fax

20-51_MHS STADIUM_V21_detached.rvt
3/18/2024 10:14:46 AM



G15 SINGLE LINE DIAGRAM

NO SCALE

KEYNOTES

1. (E) PAD MOUNTED P.G.&E. TRANSFORMER.
2. (E) PAD MOUNTED MAIN SWITCHBOARD 'MSA'. 2000A BUS/1600A MAIN, 277/480V, 3Ø, 4W, 65kA SCCR FULLY RATED, NEMA 3R, SOLID NEUTRAL, PAD MOUNTED.
3. ELECTRODE CONDUCTOR PER DETAIL L5/EX2.3.
4. PROVIDE BUSSMAN QUICK-SPEC POWER MODULE SWITCH ELEVATOR DISCONNECT #PS1 T4B R2 K G B F1. CONNECT PER ELEVATOR INSPECTOR'S REQUIREMENTS FOR SHUNT TRIP, RECALL, MAINTENANCE, & BATTERY LOWERING. PROVIDE FUSES PER MANUFACTURER'S REQUIREMENTS. SWITCH PROVIDES SHUNT TRIP OF ELEVATOR POWER.
5. (E) PAD MOUNTED MAIN SWITCHBOARD 'MSB'.
6. BOND TO BUILDING STRUCTURAL STEEL, COLD WATER PIPING, PER C.E.C. ARTICLE 250. PROVIDE 3/4" X 10' COPPER CLAD GROUND ROD.
7. NOT USED.
8. (E) SOLAR DISCONNECT TO REMAIN.
9. (E) SOLAR PHOTOVOLTAIC SYSTEM TO REMAIN.
10. (E) 800A FUSED FIRE PUMP DISCONNECT.
11. (N) 600A, 277/480V, 3Ø, 4W, 35KA SCCR FULLY RATED, NEMA 1, DISTRIBUTION BOARD.
12. 150kVA TRANSFORMER: 480/208/120V 3Ø 4W, 80°C RISE, NEMA 3R, K-4 RATED. TRANSFORMER SHALL BE INSULATION CLASS 220 OR HIGHER. PAD MOUNT PER DETAIL C5/EX2.3. PROVIDE FUSED DISCONNECT SWITCH ADJACENT TO TRANSFORMER ON WALL. MOUNT PER DETAIL C13/EX2.3.
13. TRANSFORMER GROUNDING ELECTRODE CONDUCTOR PER DETAIL G5/EX2.3.
14. (N) 800A, 600A MAIN, 120/208V, 3Ø, 4W, 22KA SCCR FULLY RATED, NEMA 1, DISTRIBUTION BOARD. MOUNT PER DETAIL G9/EX2.3.
15. (E) PG&E COMPLIANT VERIFIABLE DISCONNECT, 800A, 4-POLE, 277/480V, 200KAIC.
16. NOT USED
17. (E) BATTERY ENERGY STORAGE SYSTEM CIRCUIT BREAKER.
18. (E) 45kVA TRANSFORMER: 480/208/120V 3Ø 4W, 80°C RISE, NEMA 3R, K-1 RATED.
19. (E) 150A, 120/208V, 3Ø, 4W, 10KA SCCR FULLY RATED, NEMA 3R, PANELBOARD 'ESSL'.
20. 60KVA/120KWH, 277/480V, 3Ø, 4W, NEMA 3R BATTERY ENERGY STORAGE SYSTEM. MOUNT PER DETAIL A18/EX2.8.
21. PROVIDE NEW 25A/2P, 35 KAIC, CIRCUIT BREAKER IN EXISTING PANEL 'FH'. PROVIDE ALL REQUIRED DEAD FRONT, FILLER PLATES, ETC. AS REQUIRED.
22. 10KVA MINI POWERZONE: 480V/240/120V 1Ø 3W. WALL MOUNTED PER DETAIL D15/EX2.4. WEIGHT: 220 LB. DIMENSIONS: 16"W X 12"D X 41"H
23. (E) 125A, 277/480V, 3Ø, 4W, 35KA SCCR FULLY RATED, NEMA 3R, PANELBOARD 'ESS'.
24. (E) 112.5KVA, 480-120/208V, 3Ø, 4W, NEMA 3R TRANSFORMER TO REMAIN. DSA #02-108565.
25. (N) 400A, 120/208V, 3Ø, 4W, NEMA 3R PANELBOARD. SEE DETAIL L8/EX2.5.
26. (N) 400AS/400AF, 208V, 3 POLE, NEMA 3R FUSED SWITCH. SEE PER DETAIL C13/EX2.3.

VOLTAGE DROP CALCULATIONS

No.	Feeder Origin	Feeder Destination	Potential at Origin (P_i) (Volts)	System	Design Current (Amps)	Raceway Type	Sets of Cond.	Conductor Trade Size	Conductor Cross-Sectional Area (CM)	Conductor Material	DC Conductor Material Constant (K)	Q	Distance (ft)	Voltage Drop (VD) (Volts)	Potential at Load (P_l) (Volts)	Percent Voltage Drop (%VD)
1	(E) MSA	(N) PANEL 'FS'	480	AC 3-Phase	600	PVC	2	350 kCMIL	700000	CU	12.9	1.0354	400	7.93	472.07	1.65
2	(N) PANEL 'FS'	(N) PANEL 'FSL'	472.07	AC 3-Phase	400	PVC	1	500 kCMIL	500000	CU	12.9	1.0465	10	0.19	471.88	1.69
3	(N) PANEL 'FS'	(N) PANEL 'FSM'	472.07	AC 3-Phase	400	PVC	1	500 kCMIL	500000	CU	12.9	1.0465	10	0.19	471.88	1.69
4	(N) PANEL 'FS'	(N) ELEVATOR	472.07	AC 3-Phase	65	PVC	1	4	41740	CU	12.9	1.0000	245	8.52	463.54	3.43
5	(N) PANEL 'FS'	(N) XFMR 'TFSA'	472.07	AC 3-Phase	180	PVC	1	4/0	211600	CU	12.9	1.0197	30	0.58	471.49	1.77
6	(N) XFMR 'TFSA'	(N) PANEL 'FSA'	208.00	AC 3-Phase	416	PVC	1	600 kCMIL	600000	CU	12.9	1.0748	20	0.33	207.67	0.16
7	(N) PANEL 'FSA'	(N) PANEL 'FSA1'	207.67	AC 3-Phase	200	Steel	1	3/0	167800	CU	12.9	1.0313	10	0.27	207.39	0.29
8	(N) PANEL 'FSA'	(N) PANEL 'FSA2'	207.67	AC 3-Phase	200	PVC	1	400 kCMIL	400000	CU	12.9	1.0280	200	2.30	205.37	1.26
9	(N) PANEL 'FSA'	(N) PANEL 'FSA3'	207.67	AC 3-Phase	100	Steel	1	3	52620	CU	12.9	1.0000	15	0.64	207.03	0.47
10	(N) PANEL 'FSA2'	(N) PANEL 'FSA4'	205.37	AC 3-Phase	150	Steel	1	1/0	105600	CU	12.9	1.0000	40	1.27	204.10	1.87
11	(N) PANEL 'FSA'	(N) PANEL 'FSA5'	207.67	AC 3-Phase	60	PVC	1	1	83690	CU	12.9	1.0000	170	2.72	204.94	1.47
12	(E) MSA	(E) PANEL 'FH'	472.07	AC 3-Phase	600	PVC	2	350 kCMIL	700000	CU	12.9	1.0354	315	6.25	465.82	1.32
13	(E) PANEL 'FH'	(N) PANEL 'FHV'	465.82	AC 1-Phase	21	PVC	1	2	66360	CU	12.9	1.0000	325	2.63	463.19	1.88
	20A Outlet Circuit	#12 Max Run 5% Drop	120.00	AC 1-Phase	16	Steel	1	12	6530	CU	12.9	1.0000	55	3.48	116.52	2.90
	20A Outlet Circuit	#10 Max Run 5% Drop	120.00	AC 1-Phase	16	Steel	1	10	10380	CU	12.9	1.0000	90	3.58	116.42	2.98
	20A Outlet Circuit	#8 Max Run 5% Drop	120.00	AC 1-Phase	16	Steel	1	8	16510	CU	12.9	1.0000	140	3.50	116.50	2.92
	20A Outlet Circuit	#6 Max Run 5% Drop	120.00	AC 1-Phase	16	Steel	1	6	26240	CU	12.9	1.0000	225	3.54	116.46	2.95
	20A Outlet Circuit	#4 Max Run 5% Drop	120.00	AC 1-Phase	16	Steel	1	4	41740	CU	12.9	1.0000	360	3.56	116.44	2.97
	FSL-11		272.45	AC 1-Phase	6	Steel	1	10	10380	CU	12.9	1.0000	360	5.41	267.04	1.98
	FSL-41	EGRESS SPORTS POLE	272.45	AC 1-Phase	5.4	PVC	1	8	16510	CU	12.9	1.0000	886	7.50	264.95	2.75
	(E) MSB	SPORTS LT POLE	480.00	AC 3-Phase	25	PVC	1	6	26240	CU	12.9	1.0000	1045	22.25	457.75	3.03

A. P.G.&E. PRIMARY CONDUIT. 4"C. PER P.G.&E. REQUIREMENTS.
B. INCOMING P.G.&E. SECONDARY. 7-5"C. PER P.G.&E. REQUIREMENTS.
C. (2)4"C. 4#600 KCMIL CU, 1#1/0 CU GRD.
D. (8)4"C. (SPARE - FUTURE) STUB 10' NORTH OF 'MSA'
E. (2)2"C. (SPARE - FUTURE) STUB TO PULLBOX 'P2'. SEE SHEET ES1.1.
F. (2)3-1/2"C. 3#600 KCMIL CU, 1#3/0 CU NEUT., 1#3/0 CU GRD EA.
G. 2"C. (SPARE - FUTURE PUMP HOUSE)
H. (2)4"C. 4#350 KCMIL CU, 1#1 CU GRD EA.
I. 2"C. 4#3 CU, 1#8 CU GRD.
J. 3"C. 4#500 KCMIL CU, 1#3 CU GRD.
K. 2-1/2"C. 3#4/0 CU, 1#4 CU GRD EA.
L. (2)2"C. 4#250 KCMIL CU, 1#2 CU GRD EA.
M. 2"C. 4#3/0 CU. 1#6 CU GRD.
N. (2)4"C. 4#600 KCMIL CU, 1#1/0 CU GRD. EA.
O. 2"C. 3#3 CU, 1#8 CU GRD.
P. (1)3"C. 4#3 CU, 1#8 CU GRD. (1)3"C SPARE
Q. 1"C. 4#12 CU, 1#12 CU GRD.
R. 1"C. 3#6 CU, 1#8 CU GRD.
S. 2"C. 4#3/0 CU, 1#6 CU GRD.
T. 1-1/4"C. 4#8 CU, 1#10 CU GRD.
U. 1"C. PROVIDE PARALLELING CONTROL CONDUCTORS PER MANUFACTURER.
V. 2"C. 4#1 CU, 1#6 CU GRD.
W. 1"C. 3#4 CU, 1#6 CU GRD.
X. 3"C. 4#400 KCMIL CU, 1#2 CU GRD.
Y. 1-1/4"C. 2#2 CU, 1#2 CU GRD.
Z. 1-1/4"C. 3#6 CU, 1#6 CU GRD.
AA. 1-1/2"C. 3#6 CU, 1#6 CU GRD.
AB. (E) 2"C. 3#2/0 CU, 1#6 CU GRD. DSA #02-108565.
AC. (E) 4"C. (N) 4#500 KCMIL CU, 1#3 CU GRD.
AD. 3-1/2"C. 4#500 KCMIL CU, 1#3 CU GRD.
AE. 4"C. 4#350 KCMIL CU, 1#3 CU GRD.
AF. 1"C. 3#12 (GENERATOR START/STOP

PBK
ARCHITECT PBK Architects, Inc.
FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL STADIUM

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

MADERA 19 66 UNIFIED SCHOOL DISTRICT

PROFESSIONAL SEAL

LICENSED ARCHITECT MICHAEL R. SCHOEN No. C-30186 RENEWAL 08/31/2024 FEB 28, 2027 STATE OF CALIFORNIA

PROJECT NUMBER 20-51

DATE 08/22/2023

DSA APPLICATION NO.

FILE NO. 20-H3

PTN NO. 65243-153

DRAWN BY XXX

REVISIONS

#	DESCRIPTION	DATE
1	ADDENDUM #1	08/18/2025
2	ADDENDUM #2	08/22/2025
3	ADDENDUM #3	08/27/2025

CONSTRUCTION DOCUMENTS

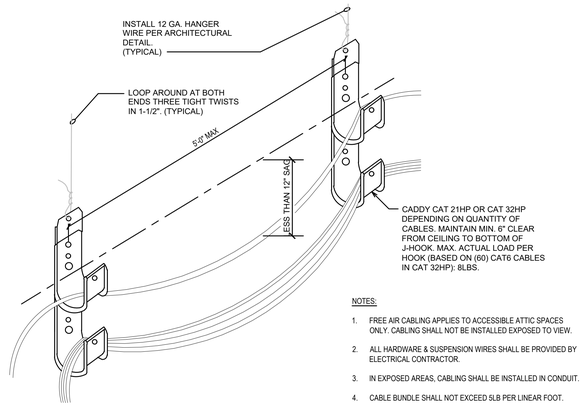
ELECTRICAL SINGLE LINE DIAGRAM

EX2.1

REGISTERED PROFESSIONAL ENGINEER R.J. HARDIN No. 9125 ELECTRICAL STATE OF CALIFORNIA

Hardin-Davidson Engineering
356 Pollasky Ave, Suite 200
Clovis, CA 93612
559.323.4995 tel
559.323.4928 fax

20-51_MHS STADIUM_V21_detached.rvt
3/18/2024 10:14:46 AM

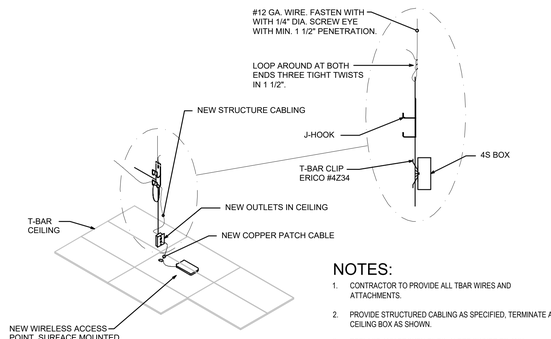


NOTES:

1. FREE AIR CABLING APPLIES TO ACCESSIBLE ATTIC SPACES ONLY. CABLING SHALL NOT BE INSTALLED EXPOSED TO VIEW.
2. ALL HARDWARE & SUSPENSION WIRES SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.
3. IN EXPOSED AREAS, CABLING SHALL BE INSTALLED IN CONDUIT.
4. CABLE BUNDLE SHALL NOT EXCEED 5LB PER LINEAR FOOT.

L15 TYPICAL J-HOOK CABLE SUPPORT DETAIL

SCALE:

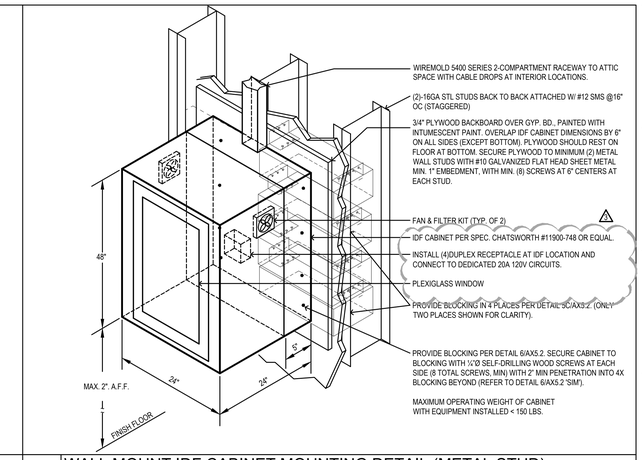


NOTES:

1. CONTRACTOR TO PROVIDE ALL TBAR WIRES AND ATTACHMENTS.
2. PROVIDE STRUCTURED CABLING AS SPECIFIED, TERMINATE AT CEILING BOX AS SHOWN.
3. REPLACE ANY BROKEN TILES. ALERT OWNER TO ANY PREVIOUS DAMAGE PRIOR TO INSTALLATION.

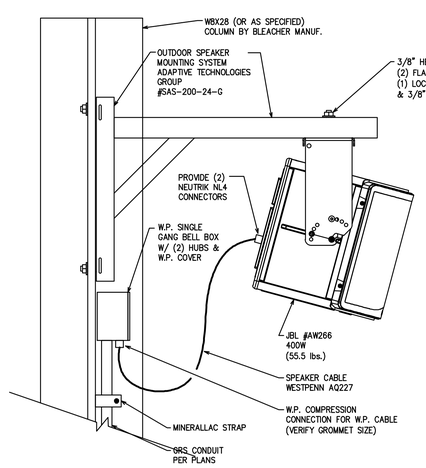
L10 TYPICAL WIRELESS ACCESS POINT AT T-BAR CEILING

SCALE:



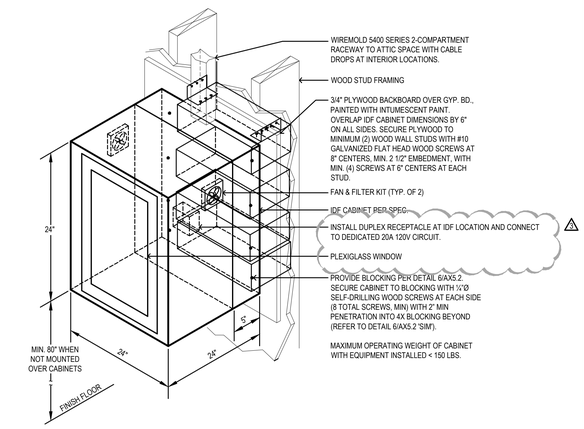
L5 WALL MOUNT IDF CABINET MOUNTING DETAIL (METAL STUD)

SCALE: NO SCALE



G15 OUTDOOR SOUND SYSTEM LOUDSPEAKER MOUNTING DETAIL

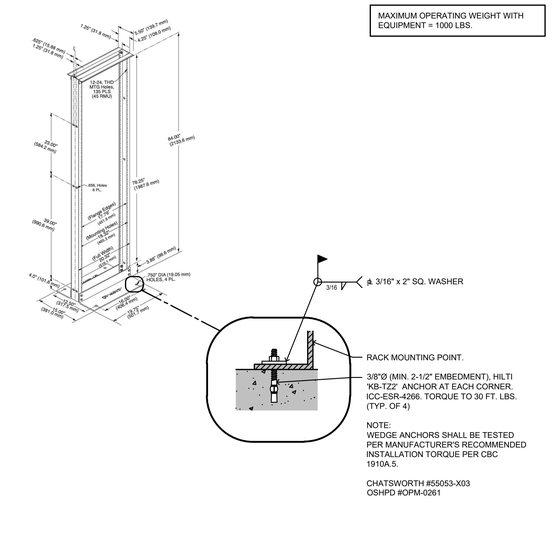
SCALE: NO SCALE



G10 WALL MOUNT IDF CABINET MOUNTING DETAIL

SCALE: NO SCALE

MAXIMUM OPERATING WEIGHT WITH EQUIPMENT = 1000 LBS.

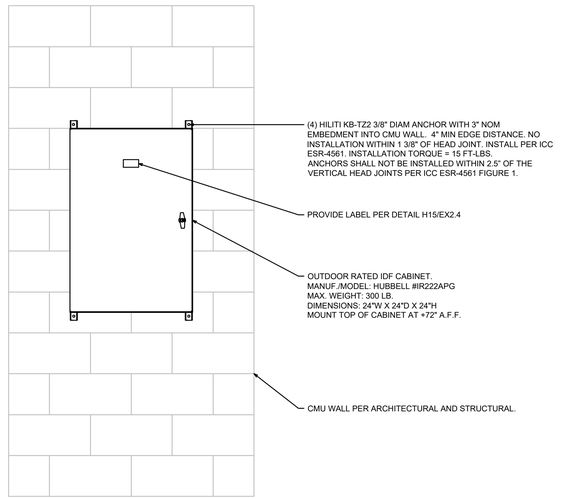


NOTE:
WEDGE ANCHORS SHALL BE TESTED PER MANUFACTURER'S RECOMMENDED INSTALLATION TORQUE PER CBC 1910A.5.

CHATSWORTH #55053-X03
OSHPD #OPM-0261

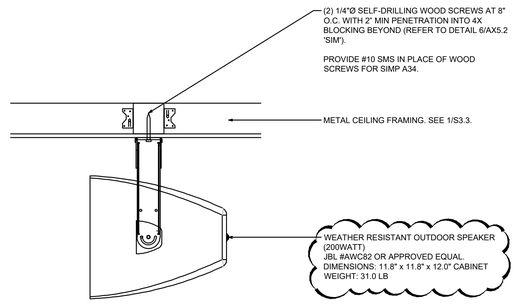
G5 FLOOR MOUNT 2 POST RACK MOUNTING DETAIL

SCALE: NO SCALE



B10 OUTDOOR WALL MOUNT IDF CABINET MOUNTING DETAIL

SCALE: NO SCALE



B5 SPEAKER MOUNTING DETAIL AT PRESS BOX

SCALE: NO SCALE

⚠

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL STADIUM

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

MADERA 19 66 UNIFIED SCHOOL DISTRICT

PROFESSIONAL SEAL

LICENSED ARCHITECT — MICHAEL R. SCHOEN — No. C-26195 — RENEWAL DATE: FEB 28, 2027 — STATE OF CALIFORNIA

PROJECT NUMBER
20-51

DATE
08/22/2023

DSA APPLICATION NO.

FILE NO.
20-H3

PTN NO.
65243-153

DRAWN BY
XXX

REVISIONS

#	DESCRIPTION	DATE
⚠1	ADDENDUM #1	08/18/2025
⚠2	ADDENDUM #2	08/22/2025
⚠3	ADDENDUM #3	08/27/2025

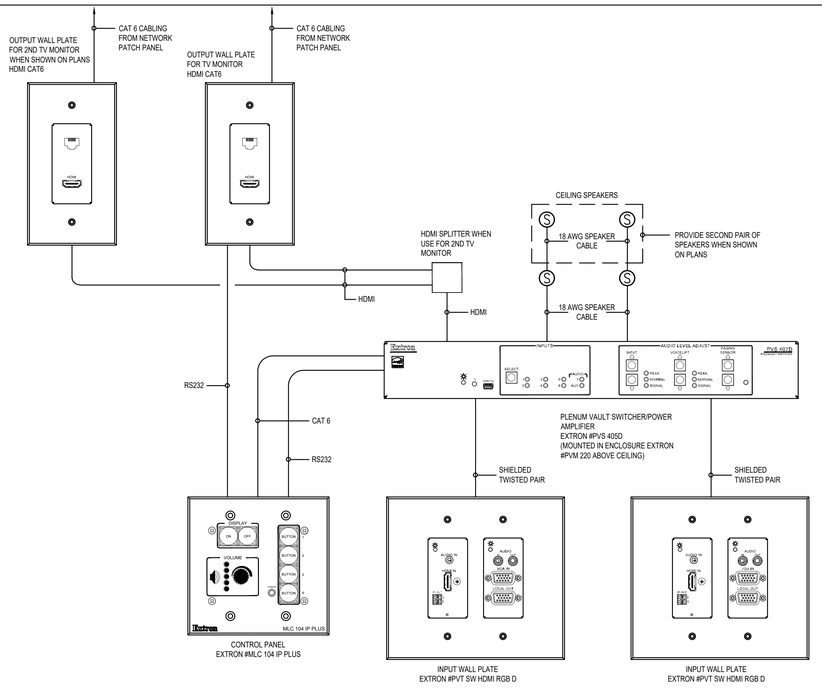
CONSTRUCTION DOCUMENTS

ELECTRICAL LOW VOLTAGE DETAILS

EX3.1

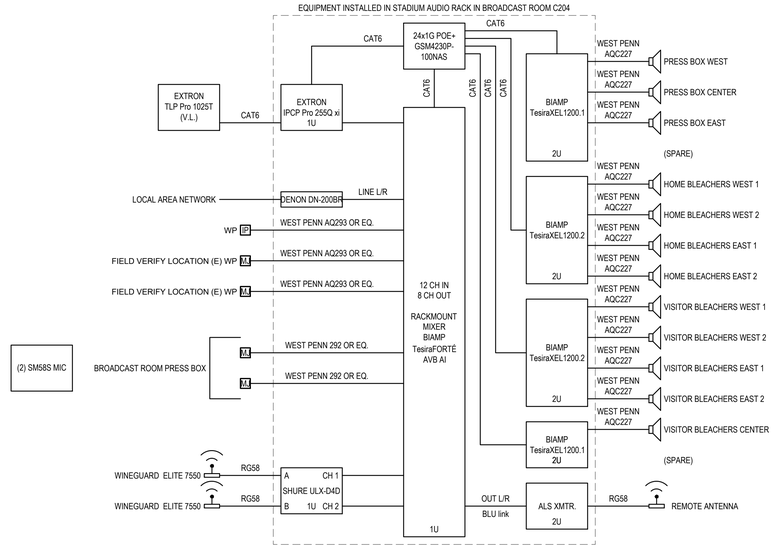
REGISTERED PROFESSIONAL ENGINEER — R.J.HARDIN — No. 9125 — ELECTRICAL — STATE OF CALIFORNIA

Hardin-Davidson Engineering
356 Pollasky Ave, Suite 200
Clovis, CA 93612
559.323.4995 tel
559.323.4928 fax



J18 CLASSROOM AV RISER

SCALE: NO SCALE



J7 STADIUM AUDIO SYSTEM RISER

SCALE: NO SCALE

PBK

ARCHITECT PBK Architects, Inc.

FRESNO
7790 North Palm Avenue
Fresno, CA 93711
559-448-8400 P
559-448-8467 F
PBK.com

MADERA HIGH SCHOOL STADIUM

200 SOUTH "I" STREET
MADERA, CA 93637
CONSTRUCTION DOCUMENTS

MADERA 19 66 UNIFIED SCHOOL DISTRICT

PROFESSIONAL SEAL

LICENSED ARCHITECT — MICHAEL R. SCHOEN — No. C-34165 — REGISTERED DATE 08.28.2027 — STATE OF CALIFORNIA

PROJECT NUMBER
20-51

DATE
08/22/2023

DSA APPLICATION NO.

FILE NO.
20-H3

PTN NO.
65243-153

DRAWN BY
XXX

REVISIONS

#	DESCRIPTION	DATE
1	ADDENDUM #1	08/18/2025
2	ADDENDUM #2	08/22/2025
3	ADDENDUM #3	08/27/2025

CONSTRUCTION DOCUMENTS

ELECTRICAL LOW VOLTAGE DETAILS

EX3.2

REGISTERED PROFESSIONAL ENGINEER — R.J. HARDIN — No. 9125 — ELECTRICAL — STATE OF CALIFORNIA

Hardin-Davidson Engineering
356 Pollasky Ave.
Suite 200
Clovis, CA 93612
559.323.4995 tel
559.323.4928 fax

20-51_MHS STADIUM_V21_detached.rvt
3/18/2024 10:14:46 AM

Memorial Stadium Modernization: Bid No. 073025
Pre-Bid RFI Log

ADDENDUM	ISSUED
ADDENDUM 01	8/19/2025
ADDENDUM 02	8/22/2025
ADDENDUM 03	8/28/2025
ADDENDUM 04	
ADDENDUM 05	

	Question	Response	Submitted by	Posted	Notes
1	Can the bid time be revised to 2:00 PM or 3:00 PM?	Yes, bids are due at 2:00PM	Ardent General	8/19/2025	
2	RFI Description: General Requirements 01 57 15 Integrated Pest Management - Attached is Section 01 57 15 Integrated Pest Management. Is integrated pest management really required fo this project? I have searched the Central Valley and could not find anyone interested in bidding for this work nor anyone or firm that is IPM Star Certified. Is this just for the Stadium and not the Fieldhouse or the entire site during construciton for the full 548 calendar days?	No pest control needed.	Ardent General	8/19/2025	
4	Are there any allowances or contingencies i.e. rebar or steel that are to be carried in the bid amount? Sometimes they are buried in the plans and specs?	It is the responsibility of the Contractor to read through all the Specifications and Plans. Irrigation Plans ask for $8000.00 allowance for the stadium project. The specs ask to provide 10% of the total reinforced steel tonnage in addition to the quanitities. These are some examples, G.C. to verify and include as part of the bid documents.	Harris Construction	8/19/2025	
5	Article 11 of the Notice to Bidders makes reference to Tidal Wave and Earthquake Insurance. Are those insurances a requirement of this bid?	No tidal wave insurance is needed. Other coverages should be included in the builder's risk policy.	Harris Construction	8/19/2025	
6	How many calendar days are we to hold our bid? I could not find that requirement in the specs.	Bids should be held for 90 days.	Harris Construction	8/19/2025	
7	Section 019113 General Commissioning Requirements mentions a commissioning agent. Is the intent of the spec for the GC to provide a third party commissioning agent or can the subcontractor perform that duty?	No commissioning is required.	Harris Construction	8/19/2025	
8	Section 024100 Site Demolition Hazardous Materials Item 3.4.B.1 states to “Identify chemicals, gases, explosives, acids, flammables, or other dangerous materials before proceeding with demolition operations, and notify such jurisdictional agencies as may be required. Collect and legally dispose of such materials at official disposal locations away from the site.” Will these hazardous materials be identified in the plans and specs for the GC to quantity and include a cost in their bid amount?	See Addendum 01 for hazardous materials report.	Harris Construction	8/19/2025	
9	There are 2 Notice Inviting Bid documents. One is loose and one is in the Notice to Bidders. One states to refer to George Cummings via email for questions the other states to refer to Susan Harautuneian via email for questions. Please clarify who we send RFI questions to.	Please send all requests for information to George Cummings at georgecummings@maderausd.org.	Harris Construction	8/19/2025	
10	I’m reaching out regarding the MUSD Memorial Stadium Modernization project. Could you please confirm whether this project requires a PLA or a PSA?	This project does not require a PLA or a PSA.	Escon Builders	8/19/2025	
11	The bid time of 10am is not typical for hard bids. Can that time be changed to 2pm.	Yes, see Addendum 01	Harris Construciton	8/19/2025	
12	EX4.1 Calls out EST as the Fire Alarm System Brand, However the district standard is Gamewell FCI. Can we substitute the EST system for a Gamewell FCI system?	Yes, Gamewell is the district standard. See revised schedule on addendum 02 for stadium and addendum 03 for fieldhouse.	Magnetar	8/19/2025	
13	I was wondering if there was an asbestos or lead report for the Madera HS Stadium Modernization project? I’ve looked on the Builders Exchange Website and in your plan room but did not find one.	See Addendum 01	E.T. Abatement	8/19/2025	
14	I would like to ask if the pre-qualification window can either be extended for our subcontractors or that an electronic submission will be accepted in lieu of the mail in requirement. Thank you for your time and consideration.	We do not plan to extend the prequalification window.	BCI	8/19/2025	
15	Can we email the prequel application to you, or does it need to be mailed?	Applications can be emailed, make sure to include the financials.	Binns Plumbing	8/19/2025	
16	In reviewing the bid instructions for the Memorial Stadium Modernization project, we see the current bid receipt time is 10:00 a.m. PT on 09/04/25. Would you consider moving the bid time to 2:00 p.m. PT on 09/04/25?	Please See Addendum 01	Soltek Pacific	8/19/2025	

17	In the “Bid Forms – Memorial Stadium Modernization” document, item 13 states: “No responses to a Contractor Questionnaire are required to be submitted with a bid on this Contract” and this section is completely crossed out. However, under item 14, letter I, it states: “I. Responses to Contractor Questionnaire (if required; see above).” Based on this, my understanding is that the Contractor Questionnaire is required. Could you please confirm? If so, could you also clarify which document or form number contains this questionnaire?	Not including the prequalification application, no additional questionaire will be required for this project. (MUSD 8/26/2025)	Soltek Pacific		
18	I am reaching out regarding the “Bid Forms – Memorial Stadium Modernization” document, specifically item 14, which summarizes the documents required to be submitted at the time of bid. The CARB Compliance Declaration is not listed among the required documents. However, the CARB Compliance Declaration form itself states: “The bidder must fully execute this document and submit it, including required attachments, with its bid for the above-captioned project.” For the benefit of all bidders and to allow adequate time for the collection of the necessary documentation, we respectfully request that this form not be required at the time of bid but instead be submitted after bid opening if the bidder is determined to be the apparent low bidder. Could you please confirm whether this adjustment can be made for the 09/04/25 bid submission?	The form must be turned in and signed with the certificates for any vehicles that will be on site during construction for the General Contractor. Certificates for subs, would need to be turned in prior to the award of the contract.	Soltek Pacific		
19	Drawing EX2.1, Single Line Diagram, reference new utility transformer and primary / secondary feeders with note 1, stating in part "per PG&E requirments and Rule 16 drawings". Drawing ES1.3, Construction Notes #6, depict similar statements which reference PG&E or utility drawings for pertinent information. Please provide, approved / preliminary, PG&E utility drawings. - Thank you.	Provided PG&E Rule 16 Docs (HDE, 2025-08-20). See Addendum 02	Howe Electric		
20	Page C6.1 Field House. Are the 8” F and 6” W lines intended to be in a joint trench? Only the 6” water line has construction notes. What are the connection requirements for the 8” Fire Line?	Refer to sheet FS.1 for the fire line connection requirements (BCF 08/20/25)	Harris Construction		
21	Page C6.1 and C6.2 Field House. All the existing area for the new 6” Water line from the street to the field house is not shown. Will there be another site plan showing the existing conditions so a patching cost can be quantified so it can be included in the bid amount?	Refer to the keymap on Sheets C6.1 and C6.2 for reference. Sheet C6.1 displays an aerial image to scale of the existing conditions where the new 6" water line is routed from the street to the Fieldhouse shown on Sheet C6.2. Sheet C6.1 contains limits of patching for the work on the street to meet requirements noted in the legend. (BCF 08/20/25)	Harris Construction		
22	Where is the soils report?	Soils Report to be provided in Addendum 02 (PBK 08/20/25)	Harris Construction		
23	Page AS.1 Field House. Are the any existing street improvements required at Coyote Lane to meet the fire lane requirements?	No improvements required at Coyote Lane to meet the fire lane requirements. (PBK 08/20/25)	Harris Construction		
24	What are the temp floor protection requirements prior to the installation of the sealed and epoxy flooring? Polished Concrete also if shown on drawings?	G.C. to follow manufactuer temp and protection requirements. (PBK 08/20/25)	Harris Construction		
25	Page AS.3 Field House. What is to be built at the lower left corner of the field house site? It looks like maybe a concrete bench designation?	See sheet C3.1 for additional information and detail callout. (PBK 08/20/25)	Harris Construction		
26	Detail 6/AX1.1 Field House. What model number is the skate deterrent? Where is it specified?	See detail 7/AX1.1 for Skate deterrent. UseThe Cylinder GrinderMinder model. (PBK 08/20/25)	Harris Construction		
27	Detail 16/AX5.2 Field House. Where is the moisture barrier specified? What type of material is it?	See cast-in-place concrete spec for Moisture barrier. In addition, see revised Metal Locker Spec provided in Addendum 02 (PBK 08/20/25)	Harris Construction		
28	Page EX2.8 Field House. Why is there reference to Solar if the solar is called out as future in the roof plan?	Solar is existing to remain. The calculations shown are required calculations. The Sol-Ark inverter shown is the BESS inverter. (HDE, 2025-08-20)	Harris Construction		
29	Page G0.01 Stadium Scope if Work Item 2. Can you please be more specific on what is required to be included in the bid amount for the track work to be done by the GC. It reads that the owner is to remove the existing track surface and install a new track surface. The GC I think is responsible for “Remediation and or rehab of existing track substrate that may be deemed unfit”. Can you please tell me what that means? A detail of the work would be very helpful.	The District is contracting with Beynon Sports to resurface the all weather track. Beynon with remove existing track surface and assess the condition of the asphalt substrate. The GC will be responsible for rehabbing any asphalt areas that are deemed unfit to support the new track surface. Bidders shall include a rehab allowance of $40,000 for these rehab efforts. This rehab allowance shall not be used for any areas of asphalt that are disturbed by construction activity in the performance of the scope of this contract. (MUSD 8/20/2025)	Harris Construction		

30	Can steel subcontractors with Los Angeles City Certification be used in lieu of AISC Certification? This certification meets or exceeds AISC quality safety standards.	In order to wave AISC Certification contractor should futher explain/prove how LA City Certification meets or exceeds AISC Certification standards and requirments.	BCI		
31	Specification Section 11 40 00 Food Service Equipment specificaitons seem to be in conflict with the plans. The specifications call for items that are not shown on the plans. See attached list. Please clarify.	See revised Food Service equipment Spec on Addendum 02 (PBK 08/21/25)	Ardent General		
32	Can the following requirement be waived? Or can another certification be sufficient to meet this requirement? Per specification 05 12 13 (page 2) Fabricator Qualifications: A qualified fabricator that participates in the AISC Quality Certification Program and is designated an AISC-Certified Plant, Category STD, or is accredited by the IAS Fabricator Inspection Program for Structural Steel (AC 172).	In order to wave AISC Certification contractor should futher explain/prove how a proposed Certification meets or exceeds AISC Certification standards and requirments.	AMG		
33	I am not able to locate any specs on the transaction windows.	See Addendum 03 AX8.1 for transaction window type.	San Joaquin Glass		
34	Above the transaction windows it is calling out for a speak hole in a dual pane unit. We are not able to provide a speak hole in a dual pane unit. Please advise the glass make-up required to accommodate a speak hole or if we are to eliminate the speak hole.	No speaker hole required on transaction windows. Transaction window spec to be provided in upcoming addendum. (PBK 08/22/25)	San Joaquin Glass		
35	I see a mention in the 08800-2 spec sheet 2.E that says to refer to spec section 08 87 13 for Solar Control Film. I don't see this spec section included.	See Solar Control Film provided in Addendum 02	San Joaquin Glass		
36	**Stadium**: The exterior elevation legend on AC1.1 calls for Masonry Tile Pavers (MTP-1). Can you please provide the product information and where this tile occurs.	See AC5.1 for exterior finsihes. Legend on AC1.1 has been removed. See addendum 02	HSL Constructors		
37	**Stadium**: The exterior elevation legend on AC1.1 calls for Masonry Tile Pavers (MTP-1). Can you please provide the product information and where this tile occurs.	See AC5.1 for exterior finsihes. Legend on AC1.1 has been removed. See addendum 02	HSL Constructors		
38	**Stadium**: Wall type EC-X on AX1.0 calls for adhered thin brick veneer that are mechanically fastened. Please confirm that the thin brick is just adhered and not mechanically fastened. If not, please provide the full anchor/fastener product information.	Thin Brick to be adhered to cement plaster base not mechanically fastened (PBK 08/20/25)	HSL Constructors		
39	**Stadium**: There is a CMU sound wall shown per 6/S6.7. It is not called out in the plans. Please confirm the location(s) and extent of this wall. Please also provide the height and color/finish.	See Addendum 02 sheets AS.1, AS.3, and AS.5 (PBK 08/20/25)	HSL Constructors		
40	**Stadium**: The screen walls at buildings A and B (keynote 04.A31 on AA1.1 & AB1.1) are not shown on the building elevations for clarity. Please confirm that these walls follow the CMU pattern of the building. If so, is the split face block finish required on both sides of the wall?	Yes this walls follow the building pattern. Split face block finish to be required on both side of screen wall.	HSL Constructors		
41	**Stadium**: The visitor stadium walls per 2/AS.3 reference 2/S5.2, which only provides a maximum wall height. Please provide the desired height for this wall.	See Addendum 02 sheets AS.1, AS.3, and AS.5 (PBK 08/20/25)	HSL Constructors		
42	**Stadium**: There are no masonry control joint requirements or details in the plans. Are masonry control joints required? If, please provide spacing and a detail.	CMU wall control joints are <u>not</u> required for the Field House or Buildings A & B for Phase 2. The horizontal steel in the CMU walls meets a minimum reinforcing ratio recommended by the National Concrete Masonry Association (NCMA) that permits their omission.	HSL Constructors		
43	**Fieldhouse**: The exterior elevation legend per A5.1 shows CMU-1 up to 4'-8" (7 courses). The actual elevations only show 6 courses of CMU-1. Please confirm which is correct.	See Addendum 02 sheet A5.1 (PBK 08/21/25)	HSL Constructors		
44	**Specifications for both**: Section 042200-2.2-C-1-b calls for a CMU compressive strength of 2,150psi. The structural masonry notes on S1.0 call for a CMU f'm strength of 2,000psi. The manufacturer's typical CMU is 2,000psi and will meet the f'm 2,000psi requirement. Please confirm that a CMU compressive strength of 2,000psi is acceptable.	CMU shall have compressive strengths of 2000 psi per S1.0 (Barcus Structural Engineering 08/19/25)	HSL Constructors		

45	**Specifications for both**: Section 042200-2.2-C-1-c calls for lightweight CMU unless otherwise indicated. The structural masonry notes on S1.0 call for medium weight CMU. The specified integral CMU color (Basalite S-701) is a lightweight color and lightweight CMU is the typical weight produced by the manufacturer. Please confirm it is acceptable for all CMU to be lightweight.	CMU may be medium weight per Sheet S1.0. However, we have no structural objections to using light weight CMU. (Barcus Structural Engineering 08/19/25)	HSL Constructors		
46	Electrical Site plan drawing ES1.3 shows PG&E conduit run from utility pole to new "MSA". During site visit it was mentioned that a portion of this work was already completed. Please advise the extent of work that has been completed for the new ulitity service. - Thank you.	See Addendum 02, RFD 002 response. (HDE 08/25/2025)	Howe Electric		
47	Electrical Single Line Diagram, Sheet EX2.1, shows install of new "(N) Solar Fused Disconnect FD1". This disconnect is also referenced by Key Note 8 which states in part that disconnect is existing (E) to remain. Subject drawing also shows new "(N) PV System (Parking Lot)", referenced by Key Note 9 which identifies (E) Existing Photovoltaic System to remain. Please confirm disconnect FD1 and Parking Lot PV System are existing and shall be connected to new Main Switchboard MSA. - Thank you.	Solar is existing to remain. (HDE, 2025-08-20). See addendum 02	Howe Electric		
48	Electrical Single Line Diagram, Sheet EX2.1, shows Fire Pump disconnect "FDP" as existing. This disconnect is also referenced by Key Note #10 which states in part that disconnect is New. Sheet ES1.3, Key Note #10, also referenced Fire Pump Disconnect as New. Please Confirm disconnect "FDP" is new and to be furnished and installed by contractor. - Thank you.	'FPD' is new. (HDE, 2025-08-20). See Addendum 02	Howe Electric		
49	Electrical Single Line Diagram, Sheet EX2.1, shows install of new 100A 3P fused disconnect "FD2". This disconnect is also referenced by Key Note #15 which calls for a "PG&E compliant verifiable disconnect 800A 4Pole". Please confirm that note is not intended for this disconnect and disconnect size shall be 100A. - Thank you.	Provide 100A 3P Fused Disconnect. (HDE, 2025-08-20)	Howe Electric		
50	Enlarged Electrical Site Plan, Sheet ES1.3, Key Note #39, states in part to provide a 1"C between pull boxes F2, F3, and F4. Fire Alarm Plan, Sheet EX4.1, Riser Diagram, indicates a 2"C between subject pull boxes. Please confirm conduit size and quantity between pull boxes F2, F3 and F4. - Thank You	Provide 2"C. (HDE, 2025-08-20)	Howe Electric		
51	Drawing page A2.2, Color Schedule calls for CMU-1 to be Precision S-701 and CMU-2 to be Precision Natural. These two colors in Precision are almost identical. Please confirm this is the intent or provide direction.	CMU-1 will be revised to S-703 in a forthcoming addendum.	Dorfmeier Masonry		
52	Detail 2/A5.1 has a note stating the plaster is to match the paint colors of the CMU. Is the CMU going to be painted?	No, CMU will not be painted. (PBK 08/21/25)	Dorfmeier Masonry		
53	Details 35 and 37 on page A7.3 show exposed CMU in Room 110 – Electrical. Is the Split Face CMU (CMU-3) to have Split Face on the interior of the Room 110?	No split face on the interior of the Room 110 (PBK 08/20/25)	Dorfmeier Masonry		
54	The instructions state that at the time of bid, we are required to provide the following information: trade, name of company, location, CSLB number, and DIR number Could you please confirm whether we are also required to include the expiration dates for the CSLB license and DIR registration at the time of bid?	Expiration dates of DIR and CSLB Licenses for subs, must be valid. They do not need to be listed at the time of turn in, but they must be valid. These will be checked by staff as part of the bid packet review process	Soltek Pacific		
55	There is no mention of CMU crack control joints in the plans or specs. Are CMU crack control joints required? If so, please provide a detail and spacing.	CMU wall control joints are <u>not</u> required for the Field House or Buildings A & B for Phase 2. The horizontal steel in the CMU walls meets a minimum reinforcing ratio recommended by the National Concrete Masonry Association (NCMA) that permits their omission.	Dorfmeier Masonry		
56	Spec section 042200, 2.2.C.1.b calls for the CMU to have a compressive strength of 2,150 psi. CMU is not manufactured with a compressive strength of 2,150 psi; it is manufactured with a compressive strength of 2,000 or 2,600 psi. Is 2,000 psi CMU acceptable if the f'm of 2,000 is met?	CMU shall have compressive strengths of 2000 psi per S1.0 (Barcus Structural Engineering 08/19/25)	Dorfmeier Masonry		
57	Spec section 042200, 2.2.C.1.c calls for Lightweight CMU. Drawing Page S1.0, Structural Specifications, Structural Masonry note calls for Medium Weight CMU. Are both Lightweight and Medium Weight CMU acceptable?	CMU may be medium weight per Sheet S1.0. However, we have no structural objections to using light weight CMU. (Barcus Structural Engineering 08/19/25)	Dorfmeier Masonry		
58	On the mechanical plans, detail H/M5.0 shows the ODU's mounted to a metal frame. On the architectural plans, detail 28/AX4.1 shows mechanical platforms made from a built-up wood frame with a sheet metal cap. Please clarify which detail to follow for mounting the ODU's on buildings A and B.	ODU should be mounted per detail H/M5.0, detail 28/AX4.1 has been removed from plans. See revised sheet on Addendum 02	Strategic Mechanical		
59	Electrical Single Line Diagram, Sheet EX2.1, identifies a (N) Main 800A breaker at (E) Main Switch Board "MSN". Is subject breaker replacing an existing breaker? If not, does bussing / hardware provisions exist to accept a new breaker? Please advise - Thank you.	The (E) 800A/3P Main CB is to remain in 'MSN'. Provide metering bypass connection if required by removal of PG&E metering equipment. (HD Engineres 08/22/2025)	Howe Electric		

60	Spec Section 10 51 13 states, “Athletic lockers: 2 tier and 6 tier configurations as indicated on drawings.” However, the drawings only provide a total locker count and do not specify the quantities of 2 tier versus 6 tier lockers. Please provide the required quantities for both the 2 tier and 6 tier lockers.	See revised locker spec on Addendum 02	Soltek Pacific		
61	For the coiling doors, @ the field house, door # 101B and 101C - the specs have two different series of doors, the Series 600 (non insulated) and the series 625 (insulated). Please advise as to which series they would like for these two doors.	See Addendum 03, AX8.1 Door Schedule Remarks	Davis Moreno		
62	For the counter doors at both the field house and the stadium, can we please get some specifications on these.	See Addendum 03 spec 08 33 00 Overhead Coiling Service Doors.	Davis Moreno		
63	Is earthquake and flood insurance required. Article 11 Insurance is not clear?	Yes (MUSD 08/27/2025)	Harris Construction		
64	Stadium. Page AB9.1. It looks like Building B is metal studs at the interior walls. What is the purpose of detail B/AB9.1 as it relates to the wood on that detail?	Detail has been removed. See revised sheet on Addendum 02	Harris Construction		
65	Stadium. Page AC7.2 Elevation C201C. What is the wall finish designation? I don’t see that designation on any legends.	Refer to Addendum 01 (PBK 08/21/25)	Harris Construction		
66	Stadium. Page AD4.1. What is the roofing type designation shown? It is not on the roof legend.	Legend has been revised. See revised sheet AD4.1 on Addendum 2 (PBK 08/21/25)	Harris Construction		
67	Stadium. Detail 6/AX3.2. Please confirm there is no caulking required at the expansion joint filler. It looks like caulking is drawn but it is not called out in the detail.	Detail has been removed. See revised sheet on Addendum 02	Harris Construction		
68	Stadium Plans. Where is keynote 11.A1B on page AA1.1 Physical Treatment Gurney specified?	Physical Treatment Gurney to be OFCI	Harris Construction		
69	Stadium Plans Detail 10/AX4.1. Where is the sprayed on fireproofing shown on the beams specified? There is a 07823 Intumescent Fireproofing spec but I don’t see this type of fire proofing in that spec?	See Addendum 03; Detail and building sections have been revised; provide intumescent fireproofing per 07 81 23 (PBK 08/26/25)	Harris Construction		
70	Stadium Plans. Keynote 11.C02 page AA1.1 states refrigerator as “NIC”. Interior elevation A100A on page AA7.1 states refrigerator is “OFCI”. Which is correct?	Refridgerator and Freezer to be CFCI see revised sheet and Food service equipment spec on Addendum 02	Harris Construction		
71	Stadium Plans. Is the Ice Machine shown on page AA7.1 specified in section 11400 Food Service Equipment?	See Adendum 02 for revised Spec Section 11 40 00 for both Stadium and Fieldhouse (PBK 08/21/25)	Harris Construction		
72	Stadium Plans. Keynote 11.E14 on page AA7.2 calls out a “Sports Ice Tub”. Where is this product specified?	See Addendum 03, spec 22 11 04 (PBK 08/26/25)	Harris Construction		
73	Regarding the subcontractor listing requirements which include the subcontractor name, scope of work, location business, DIR #, and License #. To limit mistakes on the bid form due to last second changes is it ok if the DIR # and License # be turned in 24 hours after bid day.	The license # and DIR # are required at bid turn in, so the District can Verify the sub is valid. The expiration dates of the license can be turned in within 24 hrs	Harris Construction		
74	Stadium Mod demolition note RO states to return shipping container to district. Can you please provide a location so shipping costs can be quantified.	See sheet C2.4 for location of Shipping container. (PBK 08/21/25)	Harris Construction		
75	Stadium Plans. Detail D/CX1.5 States under note 2 “Where the existing synthetic turf surfacing is being replaced , not replacement of the shock pad, geotextiles and or subgrade is part of the work unless assessed as defective or damaged. Please confirm that after the assessment if there is work determined to be defective or damaged that it will be handled via change order.	The District will use a portion of the allowance (RFI 29) set aside for any needed track rehab efforts to address any sub-turf remedies. This rehab allowance shall not be used for any areas of asphalt or turf substrate that are disturbed by construction activity in the performance of the scope of this contract.	Harris Construction		
76	Stadium Plans. Page C2.1 Demo legend note RR states to remove & relocate but it does not specify what is to be removed and relocated. Can you please clarify.	RR' signifies a sprinkler head to be removed and replaced per sheets IR1.1 - 1.5	Harris Construction		
77	Stadium Plans. Detail 1/M3.0. This detail states that the ice machine condensing unit is provided by others. Please confirm that the ice machine and condensing unit is NIC.	All Ice Machines are CFCI. See Food service equipment spec on Addendum 02	Harris Construction		
78	The first question is the hardware spec for the stadium portion of the project does not appear to be correct. There are single doors listed with hardware for a pair of doors, single stall restrooms listed with classroom function locks, and other things that don't seem correct. Would you please check with the architect on this issue?	See revised Hardware Spec and Door Schedule	Childs Hardware		
79	The second question is regarding the new door schedule listed in addendum 1 plan page AX8.1. Doors C201A & C201B are listed with hardware set 7 which has a lockset but the door schedule remark calls for panic hardware. Would you please have the architect review and confirm what hardware set we need to quote?	Schedule has been revised to indicate Hardware Set 1 for Doors C201A and C201B	Childs Hardware		
80	The stadium Structural drawings make reference to a Screen System on 2/S4.5 and notes “See Architectural” but there are no architectural drawings that reference this work. Can you please clarify.	Screen system has been replaced with a storefront system shown in the Building C elevations and sheet AX8.1	Harris Construction		
81	Spec section mentions drywall to be hung full height. Note #7 on floor plans mentions full height drywall as well as partial height drywall at non rated walls. Note seems as if it should read Rated walls to extend from floor to deck. Please advise if all walls are to be installed full height or installed per note #7.	Rated walls should extend to the bottom of the deck as stated in fire rated assembly. Non-interior walls can have exceptions, as indicated per note 7. For bid, assume all interior non rated walls extend to roof deck.	Karsyn Construction		

82	SPECIFICATION NUMBER: 07 21 00 SUBJECT: J TRACK INFORMATION NEEDED: 1) There are some exterior details that call for J Track @ the perimeters of the rigid insulation. Specs do not mention J Track. Please confirm if Therma fast J Track is needed. 2) Some exterior details show Z furring @ rigid insulation. The wall types do not mention Z furring. Please confirm if Z furring is required. If so, what is the spacing? 3) 20/AX2.4 mentions 2" rigid. Please confirm 1 ½" rigid is to be used per wall types.	1) J track required as shown on details. 2) Z furring is not required. 3) Yes, 1 1/2" is what is required for this project.	Karsyn Construction		
83	DRAWING NUMBER: AC1.1 SPECIFICATION NUMBER: SUBJECT: ELEVATIONS NEEDED INFORMATION NEEDED: AC1.1 has callouts for 5 & 6 on AC5.1. Elevations are not present on this page. Please provide elevations.	See Addendum 03	Karsyn Construction		
84	DRAWING NUMBER: AA1.1 & AA5.1 SPECIFICATION NUMBER: 04 21 13.13 SUBJECT: THIN BRICK SUBSTRATE INFORMATION NEEDED: West elevation of a building shows thin brick over CMU. There is not a wall type for this condition. Please advise if a cement plaster base is required for this wall type, similar to other thin brick wall types.	See new detail 21/AX2.1 for Thin Brick to CMU connection	Karsyn Construction		
85	DRAWING NUMBER: RCP SPECIFICATION NUMBER: SUBJECT: Gypsum Board vs. Finish Plaster INFORMATION NEEDED: It is very difficult to determine between finish plaster and gypsum board per the ceiling legend. Please confirm that INTERIOR ceilings are to be gypsum board.	Only building D has Cement Plaster Ceiling. Sheet AD3.1 has been revised. See addendum 03.	Karsyn Construction		
86	TILE 093000 TILE BACKER BOARD CLARIFICATION RECOMMENDATION: Per detail 5 on AX5.1, 5/8" cementitious backer board over waterproof membrane is called out behind tile. Interior wall types noted on AX1.0 call for cementitious tile backer board with no mention of waterproof membrane. Per item 3.5.O.1 in specification 093000, TCNA W245 is called out for interior wall tile installation. TCNA W245 calls for coated glass mat water resistant gypsum backer board with optional waterproof membrane. 1) Please clarify which tile backer board to use behind tile on this project. 2) Please also clarify if optional waterproof membrane behind tile backer board is required.	Use cemement board and waterproof membrane. Per detail 5/Ax5.1	Karsyn Construction		
87	Detail 11 on AX2.1 calls for 4" interior metal stud wall for wall type EA-1. Wall type EA-1 on AX1.0 calls for Z girts 36" oc direct attached to CMU wall. 1) Please clarify prefered method of interior metal furring for wall type EA-1	Detail references the wrong wall type. See revised sheet on Addendum 03	Karsyn Construction		
88	There are multiple details noted on AX2.4 showing multiple thicknesses of interior wall rigid insulation (none of which note 1-1/2"). Wall types EA-1 & EB-1 noted on AX1.0 both call for 1-1/2" rigid insulation. 2) Please also confirm wall type EB-1 does not require Z furring 1) Please confirm if wall types EA-1 & EB-1 on AX1.0 is to be used for interior wall rigid insulation	See Addendum 03 for revised AX1.0 and AX2.4. No z-furring at EB-1. Follow wall types for insulation thickness.	Karsyn Construction		
89	Can you please confirm that the bids will be opened and read after they are submitted.	Yes, all bids that are turned in on time will be opened and read in the upstairs confernence room adjacent to Madera USD purchasing department office.	AMG		

90	Is the GC required to provide a job site trailer for inspector/architect/owner use?	See Spec 01 10 00 - 5 1.12 INSPECTOR-DISTRICT-FIELD-OFFICE	AMG		
91	Will the owner be providing a prequalified list or is there a website where we can download the list?	List of prequalified subs has been issued.	AMG		
92	Will the GC be able to use temporary services (water/electrical) from existing site?	Yes, Per Pre-Bidwalk. G.C. will be able to tap to temprorary services on site. Contractor will be required to obtain necessary permits with the City of Madera for any temp services; such as connecting to the Fire Hydrant.	AMG		
93	*** MADERA HIGH SCHOOL FIELDHOUSE *** 1. The layout of landscape areas between sheet AS.3 & sheet L1.1 do not match. Please clarify. 2. Please confirm that the stabilized decomposed granite area in the field house plan will be applied with the same technical specs as in stadium plan.	1. Refer to sheet L1.1 for landscpaing layout 2. Yes, stabilized decomposed granite shall be placed per the technical specification section 321540 as provided in the stadium plan	AMG		
94	*** MADERA HIGH SCHOOL STADIUM *** 1. Please provide the model and detail for the flow sensor. 2. Refer to sheet CX1.5, detail F shows 5" depth of stabilized decomposed granite. However, detail B shows 6" depth. Please clarify. 3. Please confirm if the irrigation master valve exists per part 2.3B/328400. 4. Will this exclude overhead and profit? Overhead will be treated as a change order. 5. Please provide location for notes N & O per irrigation legend on sheet IR1.1.	1. FLOMEC QS200 Ultrasonic Flow Sensor insert with a Flomec 4" Saddle QS2-040-NPS-P 2. Stabilized decomposed granite section shall be constructed per detail [B/CX1.5], with the 6" section. 3. Master Valve is new per Irrigation Legend (IR1.1) and per per detail (F/IR1.6) 4. All costs submitted with the bid shall include overhead and profit. No additional payment will be made. 5. Valves XB-13 and XB-14 are located at southeast corner of the site. Contractor shall locate, remove and return valves to owner.	AMG		
95	Refer to Field House and Stadium project manuals, see section 01 31 00 – 4 PROJECT MANAGEMENT AND COORDINATION, C. Coordination digital data files: c. BIM file incorporation: this is the only place BIM is mentioned in the specifications. QUESTION: Please confirm BIM is required, and if so, what LOD (Level Of Development) we are to model too.	BIM is not required.	NESM		
96	Refer to Original plans, Add. 1 and 2. There are many discrepancies concerning the fencing types, height, and configuration, gate types , height, width, finish and their adjacent fencing. Add. 2 gate schedule does not match height of fence depicted on CX1.2 which conflicts with Ax2.3. Gate schedule is in conflict with horizontal control plans. Gates of different type are in a fence run of a different style fence. Ax2.3 shows perforated screen on the fence as well as the ADA gate. Is perf. Screen required at all ornamental fencing? Please clearly identify what style, & height fence is required at each location, and identify style, height, width, & finish of gates are required at each location.	Gate schedule has been revised to match Civil Drawings and Panic hardware has been defined under comments.	Fresno Fence Connection		
97	Building C 1. Spec is titled 'Hydraulic Elevators' but the basis of design is the Otis Gen3 Core which is a Machine Room-Less (MRL) model. Please confirm KONE is able to bid the job with our MRL model as well. 2. Spec section 2.3.A call for a 'machine roomless (sic), holeless hydraulic elevator. Those are two different model types. Please confirm the MRL is acceptable 3. Specs call for Satin Stainless Steel interior finishes. Please confirm Brushed Stainless Steel is acceptable. Note: stain stainless would be a custom interior finish. 4. S1.1 Building C calls for Importance Factor (I) = 1.25. However, Component Importance Factor is not defined. Typically for buildings of this intent, the value is I = 1.00. Please confirm.	1. Yes, KONE MRL model is allowed, if it fits within the dimensions. Substitution request forms should be filled out. 2. MRL is acceptable. 3. Brushed Stainless Steel is acceptable. Provide Samples of Both brushed Stainless steel finish optios for approval. 4.Per ASCE 7 Ch. 13. We are to assume worse case scenario. Per Sheet S2.2 Ip = 1.5 for the elevators	Swinerton		
98	AISC Certified Shop and Field/IAS accreditation It is respectfully requested that the AISC Certification/IAS Accreditation requirement as set forth in the contract documents under quality assurance be deleted in total and be replaced with "in accordance with AISC specification for structural steel buildings latest edition."	In order to wave AISC Certification contractor should futher explain/prove how a proposed Certification meets or exceeds AISC Certification standards and requirements.	Swinerton		
99	Fieldhouse Tile RFI 1. Rooms R.R. 127, WOMEN 117, and MEN 115 do not contain tile type callouts. Please confirm the tile type(s) for these rooms. 2. Room TOILET 126 includes three tile type callouts: TL-1, TL-4, and TL-7. Please confirm which tile type is correct for this room, or clarify if multiple tile types are intended. 3. Room PHYS. THERAPY ROOM, TL-7 is being called out, however, the hatch provided is similar to TL-1. Please confirm if this room is TL-1 or TL-7.	See Addendum 02 1.Sheet A2.2 for floor tile call outs and interior elevations for wall tile call outs. 2.There are three types; one for the walls, one for the shower and one for the floor. 3.TL-7	Swinerton		

100	Metal Lockers @ Fieldhouse Per Fieldhouse Plans, Building Sections 1 and 2, sheet A6.2, illustrate lockers with “mini” lockers located directly beneath the main units. However, the Interior Elevations on sheets A7.2, A7.3, and A7.4 show single-tier lockers with no mini lockers below. Please confirm which drawing set accurately represents the intended locker configuration for construction.	No mini lockers; Please follow Interior Elevations for locker configuration. (PBK 08/26/25)	Swinerton		
101	ACT for Fieldhouse RCP Plan Per the Reflected Ceiling Plan on Sheet A3.1 of the Fieldhouse Set, the scale representation for Room CONCESSIONS 122 does not align with the ACT-2 ceiling tile callout. The plan currently depicts a 1'x2' tile grid, whereas ACT-2 specifies 2'x4' tiles. Please confirm whether the ceiling tile size in Room CONCESSIONS 122 should be 2'x4' as per ACT-2. If so, provide an updated Reflected Ceiling Plan with the correct scale representation.	ACT-2 is 24"x48" as stated in the legend	Swinerton		
102	TP & BA for Stadium Per Division 10 of the Stadium Specifications, Section 10 80 00 - 2.03 references placement locations for Toilet Bath and Accessories. However, these locations appear to be a copy of the placement locations in the Fieldhouse Specifications. Please confirm and provide the correct placement locations specific to the Stadium plan set to ensure proper coordination and installation.	See revised spec for Stadium and Fieldhouse	Swinerton		
103	Electrical Demo Site plan, sheet ES1.1 note #6 in Stadium drawings reference stand by generator to be reinstalled on new concrete pad and demo existing concrete pad. Electrical Single Line Diagram, Sheet EX2.1, identifies 200KW Generator and 800amp ATS but is not depicted in the limit of work to be performed under this project. Please advise if Generator and ATS relocation is part of this project. If so please provide new location of generator. - Thank you.	Relocation of existing Generator is part of the scope. We have revised the cloud of the single line diagram to indicate where in the plans is added.	Howe Electric		
104	Please provide the aluminum storefront specs.	See Addendum 03 Aluminum-Framed Entrances and Storefronts	San Joaquin Glass		
105	See attached North and East elevations on drawing page A5.1. The CMU pattern at the top of the wall changes from CMU-2 on the East wall to CMU-1 on the North wall (the other side of the corner). Is this the intent?	Continue pattern on North side as it is on East and South. Pattern should be the same on all walls.	Dorfmeier Masonry		
106	From Addendum 02 Sheet AX8.0 in room A112 Training Annex, Tile TL-7 is not specified in the legend. Please advise.	Refer to Color Schedule in AX8.0 for tile type.	Soltek Pacific		
107	Plan page C3.4 general note 11 states to carry $10,000 for corrective substrate at track surface and synthetic track. Addenda 2 RFI 29 states to carry $40,000 for the track surface substrate repair. What total amount are we to carry $50,000 or just $40,000.	Per RFI 29 the contractor shall carry a total of $40,000 alloance for the rehab of asphalt paving. This rehab allowance shall not be used for any areas of asphalt that are disturbed by construction activity in the performance of the scope of this contract. (MUSD 08/26/2025)	Harris Construction		
108	Per the Stadium drawings detail #14 on page AX3.1 shows a top cap of veneer stone shown beyond the windowsills of the building D Ticket Booths. These are not shown on any other page or mentioned in the specs. Please confirm if there is any top cap on this project, if so, please provide a specification section and attachment details.	No veneer stone top cap.	BCI		
109	I am working on a bid for the tile scope on the Madera High School Memorial Stadium project. While reviewing the drawings for the stadium and the field house, I am noticing that the finishes in the field house are not making sense. Field house restroom walls are calling for tiles that do not exist on the finish schedule and the floor tile calls outs appear to be miss-labeled. Below is a list of my assumptions for Field house, please provide direction/clarification at your earliest convenience. Thanks. 117, 115 & 127 Floors to be TL-3 on the A2.2 finish schedule. 130, 126, 106, 103, 112 & 113 Floors to be TL-7 on the finish schedule Shower floors in 119, 103 & 125 to be TL-5 127, 115 & 117 restroom walls to match wall finishes in stadium restrooms (A105, A108 & A109) TL-5 accent at plumbing walls & TL-6 on other walls 113 & 112 restroom walls to be TL-3 per finish legend on page A1.3 119 Shower walls to be TL-4 per finish legend on A1.4 126, 106 & 103 walls to be TL-3 per finish legend on A1.4	See Addendum 02	Fischer Tile and Marble		
110	Field House: In elevation A1.3, restrooms 113 and 112 show the same wall elevation. No wall tile dimensions or heights are specified. Ceiling heights differ between the two rooms (113 = 10’, 112 = 8’). Could you please advise up to what height wall tile should be installed	Both heights at 10'-0"	Soltek Pacific		

111	Field House: For restroom 126, the finish Plan shows TL-4, but the elevation hatch pattern does not indicate the use of TL-4. Please clarify	See Addendum 02	Soltek Pacific		
112	Field House: Restrooms 103, 106, 112, 113, 115, 117, 126, and 127 are noted in the finish schedule as having TSP wall base (transition strip), which is also reflected in the elevations. However, interior detail sheet AX5.1 indicates a tile cove base. Please confirm which is to be followed, and if it is tile base, kindly provide the material specification.	Provide wall base to be transition strip, refer to Section 2.2/ E of Spec 09 30 00 for type.	Soltek Pacific		
113	Field House: In the Women's and Men's restroom elevations, wall tiles TL-10 and TL-12 are shown. However, no material specifications are provided in the finish schedule. Could you please advise with the correct product details?	See Addendum 02	Soltek Pacific		
114	Field House: In office space 125, the finish schedule A2.2 indicates CPT, while the floor plan hatch pattern shows sealed concrete. Please confirm the correct finish and, if it is carpet, provide the material specification.	Office 125 to be sealed concrete	Soltek Pacific		
115	Field House: As per finish schedule A2.2, rooms 115, 117, and 127 show TL floor tile. Could you please confirm which floor tile is to be provided? The A1.3 enlarged floor plan also not specify any finish.	See Addendum 02			
116	Stadium: There appear to be discrepancies in the tile legends shown in the finish plan, elevations, and project manual. Could you please confirm which is to be followed?	See Addendum 02			
117	Stadium: In Building C, rooms C203, C204, C205, and C206 are noted as carpet tile in the finish schedule, but no material specification has been provided. Please advise.	See Addendum 02			
118	Stadium : Could you confirm if there is any floor finish specified in the elevator C105? No specific hatch pattern is provided for this area	Provide LVT-1 for Elevator floor.			
119	Stadium: For Building B, rooms B101 & B106, the floor finish is shown as sealed concrete with rubber base, and the shower area as mosaic tile. Could you clarify the wall base required in the shower areas? Elevation sheet AB7.1 for both rooms show a tile base pattern. Please advise with the correct material.	See Addendum 02 All shower walls to have tile base TL-6			
120	Stadium: In the finish schedule, room A112 indicates TL base, while the interior elevation shows a rubber top set base. Could you please confirm which one to follow? If tile base can you please advise us with the material.	See Addendum 02 Provide tile base TL-8			
121	As per finish plan sheet AX8.0, the finish schedule directs us to refer to the hatch pattern for floor finishes. However, for restrooms A105, A112, B104, and C105, the hatch patterns shown do not align with the specified floor finishes plan. Please advise.	See Addendum 02			
122	Where is the spec for the Wood I Joists?	See Sheet S1.0 "Manufactured wood I-joist" for specifications on the wood I Joist.			
123	Section 04213 Think Brick has the following requirements in the spec: Item 1.5.A.1 states to hire a qualified masonry inspector for continuous inspection of the masonry work. Is this accurate? The owner is paying for testing and inspection. Item 3.9.B.1 states to apply water repellant as specified in section 071900. That section does not exist. Can you please clarify if is required?	Yes, the DSA approved inspector will be hired by the District, through the IOR. Contractor must coordinae with Owner, Architect during the Pre-installation meeting prior to commencing work.			

DOCEMENT 00300

BID FORM

NAME OF BIDDER:_____

The undersigned, hereby declare that we have carefully examined the location of the proposed Work, and have read and examined the Contract Documents, including all plans, specifications, and all addenda, if any, for the following Project:

Bid No. 073025 Memorial Stadium Modernization

We hereby propose to furnish all labor, materials, equipment, tools, transportation, and services, and to discharge all duties and obligations necessary and required to perform and complete the Project in a good and workmanlike manner within the time stipulated for the following TOTAL BID PRICE:

	BID PRICE (IN WRITTEN FORM)	**BID PRICE (IN NUMBERS)**
BASE BID 1 STADIUM 02-122784		
BASE BID 2 FIELDHOUSE 02-121624		
TRACK REHAB ALLOWANCE	**FORTY THOUSAND DOLLARS AND ZERO CENTS**	**$40,000.00**
MEMORIAL TREE ALLOWANCE	**THIRTY THOUSAND DOLLARS AND ZERO CENTS**	**$30,000.00**
ALLOWANCE (Unforeseeable work)	**ONE MILLION TWO HUNDRED FIFTY THOUSAND DOLLARS AND ZERO CENTS**	**$1,250,000.00**
TOTAL BID PRICE		

In case of discrepancy between the written price and the numerical price, the written price shall prevail.

If the Contract Documents specify alternate bid items, the following Alternate Bid amounts shall be added to or deducted from the Total Bid Price entered above (please check the appropriate box), at the District's sole option. The District can choose to include one or more of the Alternate Bids in the Project. If any of the Alternate Bids are selected by the District, the resulting amount shall be added to or deducted from Total Bid Price for the Project. The District may select one or more of the Alternate Bids at the below stated Bid Price up to sixty (60) days following award of the Contract. The District can award/select Alternate Bid items at any time(s).