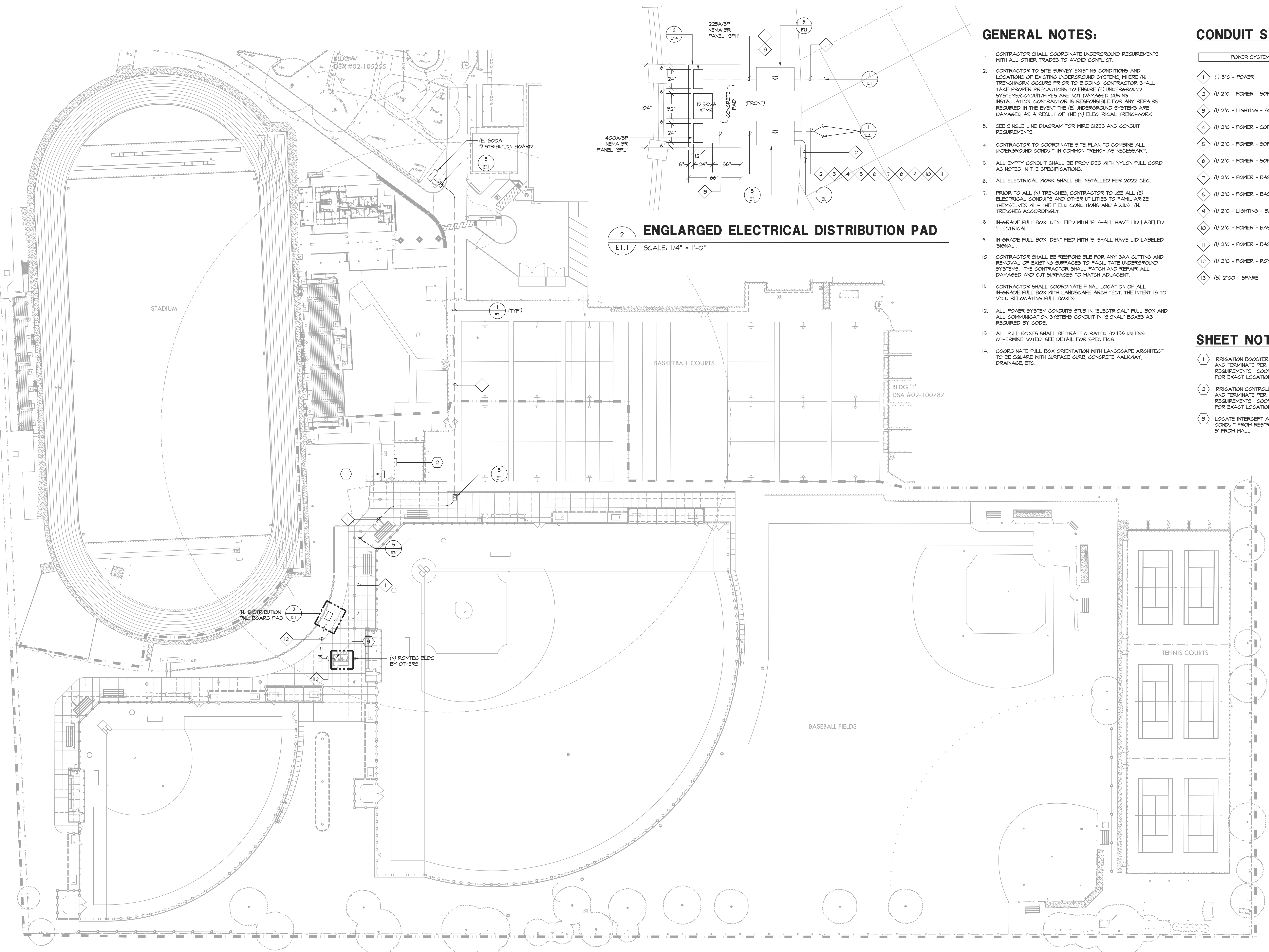


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**GENERAL NOTES:**

- CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICT.
- CONTRACTOR TO SITE SURVEY EXISTING CONDITIONS AND LOCATIONS OF EXISTING UNDERGROUND SYSTEMS (WHERE (N) TRENCHWORK OCCURS PRIOR TO BIDDING. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE (E) UNDERGROUND SYSTEMS/CONDUIT TYPES ARE NOT DAMAGED DURING INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS REQUIRED IN THE EVENT THE (E) UNDERGROUND SYSTEMS ARE DAMAGED AS A RESULT OF THE (N) ELECTRICAL TRENCHWORK.
- SEE SINGLE LINE DIAGRAM FOR WIRE SIZES AND CONDUIT REQUIREMENTS.
- CONTRACTOR TO COORDINATE SITE PLAN TO COMBINE ALL UNDERGROUND CONDUIT IN COMMON TRENCH AS NECESSARY.
- ALL EMPTY CONDUIT SHALL BE PROVIDED WITH NYLON PULL CORD AS NOTED IN THE SPECIFICATIONS.
- ALL ELECTRICAL WORK SHALL BE INSTALLED PER 2022 CEC.
- PRIOR TO ALL (N) TRENCHES, CONTRACTOR TO USE ALL (E) ELECTRICAL CONDUITS AND OTHER UTILITIES TO FAMILIARIZE THEMSELVES WITH THE FIELD CONDITIONS AND ADJUST (N) TRENCHES ACCORDINGLY.
- IN-GRADE PULL BOX IDENTIFIED WITH 'P' SHALL HAVE LID LABELED 'ELECTRICAL'.
- IN-GRADE PULL BOX IDENTIFIED WITH 'S' SHALL HAVE LID LABELED 'SIGNAL'.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SAW CUTTING AND REMOVAL OF EXISTING SURFACES TO FACILITATE UNDERGROUND SYSTEMS. THE CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED AND CUT SURFACES TO MATCH ADJACENT.
- CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ALL IN-GRADE PULL BOX WITH LANDSCAPE ARCHITECT. THE INTENT IS TO VOID RELOCATING PULL BOXES.
- ALL POWER SYSTEM CONDUITS STUB IN 'ELECTRICAL' PULL BOX AND ALL COMMUNICATION SYSTEMS CONDUIT IN 'SIGNAL' BOXES AS REQUIRED BY CODE.
- ALL PULL BOXES SHALL BE TRAFFIC RATED B2486 UNLESS OTHERWISE NOTED. SEE DETAIL FOR SPECIFICS.
- COORDINATE PULL BOX ORIENTATION WITH LANDSCAPE ARCHITECT TO BE SQUARE WITH SURFACE CURB, CONCRETE WALKWAY, DRAINAGE, ETC.

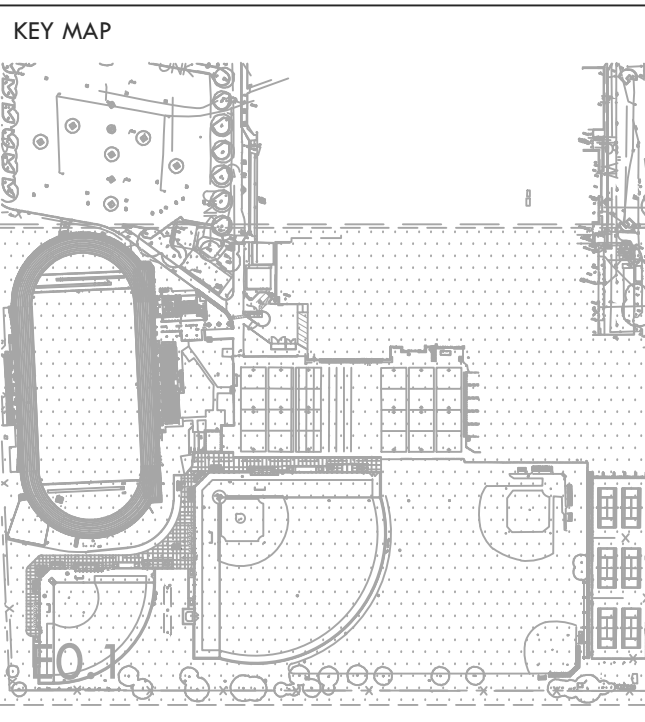
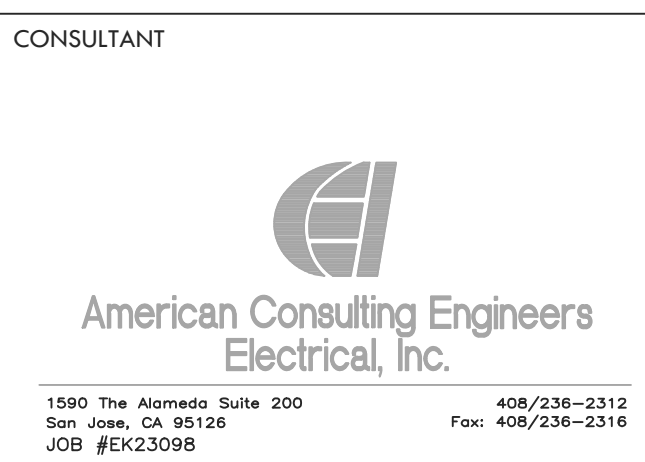
**CONDUIT SCHEDULE:**

POWER SYSTEMS	
1	(1) 3" - POWER
2	(1) 2" - POWER - SOFTBALL SCOREBOARD
3	(1) 2" - LIGHTING - SOFTBALL BATTING CAGE
4	(1) 2" - POWER - SOFTBALL BATTING CAGE
5	(1) 2" - POWER - SOFTBALL DUGOUT
6	(1) 2" - POWER - SOFTBALL BACKSTOP
7	(1) 2" - POWER - BASEBALL SCOREBOARD
8	(1) 2" - POWER - BASEBALL BATTING CAGE
9	(1) 2" - LIGHTING - BASEBALL BATTING CAGE
10	(1) 2" - POWER - BASEBALL DUGOUT
11	(1) 2" - POWER - BASEBALL BACKSTOP
12	(1) 2" - POWER - ROTEC PANEL
13	(2) 2" - SPARE

**SHEET NOTES:**

- IRRIGATION BOOSTER PUMP. CONTRACTOR SHALL INSTALL AND TERMINATE PER EQUIPMENT MANUFACTURER REQUIREMENTS. COORDINATE WITH LANDSCAPE / DISTRICT FOR EXACT LOCATION.
- IRRIGATION CONTROLLER CONTRACTOR SHALL INSTALL AND TERMINATE PER EQUIPMENT MANUFACTURER REQUIREMENTS. COORDINATE WITH LANDSCAPE / DISTRICT FOR EXACT LOCATION.
- LOCATE, INTERCEPT AND EXTEND CONDUIT TO OUTGOING CONDUIT FROM RESTROOM BUILDING THAT IS STUBBED 5' FROM WALL.

**1 ELECTRICAL OVERALL SITE PLAN**  
SCALE: 1" = 40'-0"



**SHEET TITLE**  
ELECTRICAL OVERALL SITE PLAN

**PROJECT NAME**  
JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS

**PROJECT ADDRESS**  
6715 GLORIA DRIVE SACRAMENTO, CA 95831

SUBMITTAL	DATE
50% SUBMITTAL	08/20/23
100% SUBMITTAL	10/25/23

NO.	REVISIONS	DATE

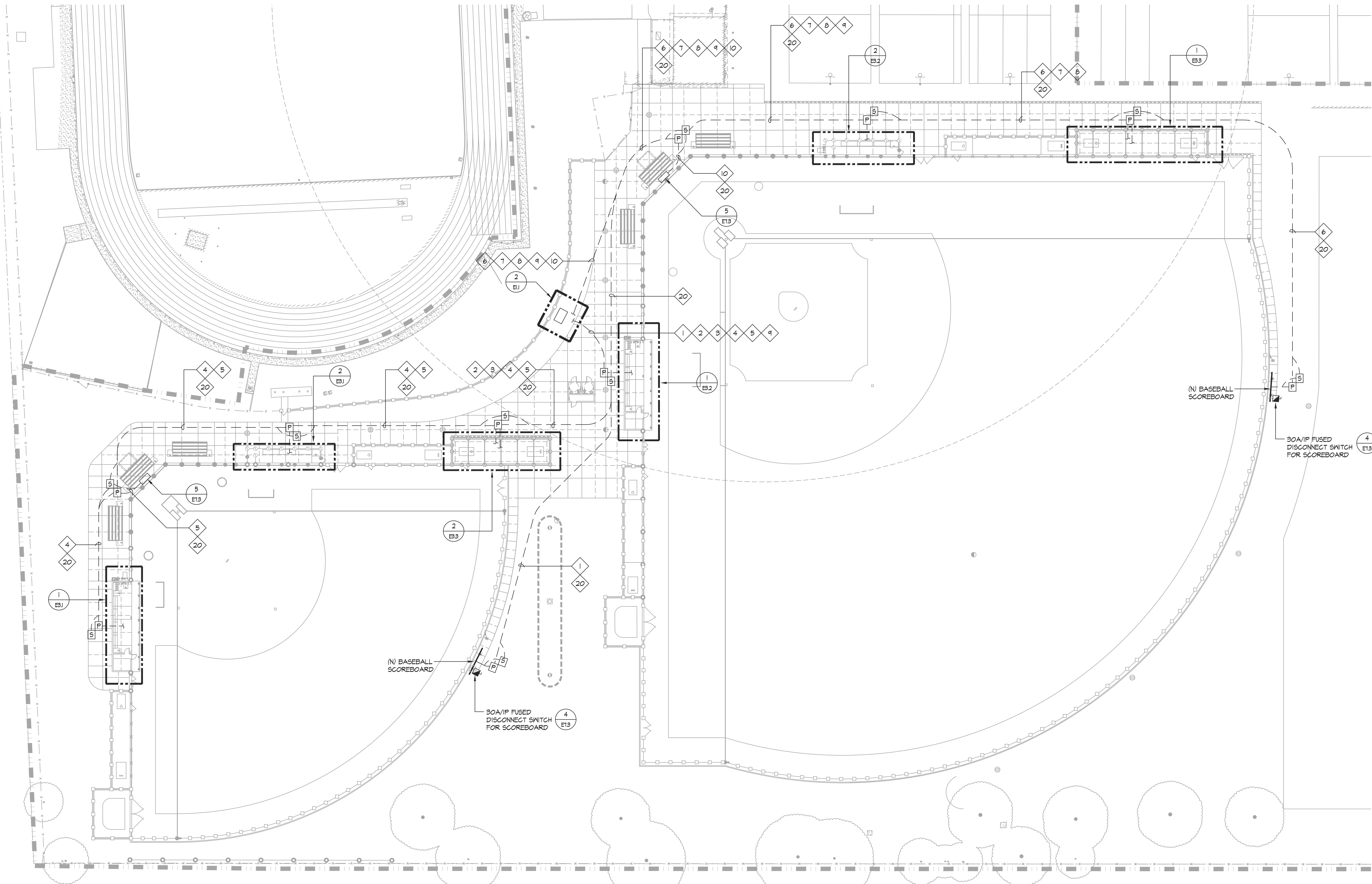
**DRAWN BY** CN      **CHECKED BY** AA/SF  
**DATE ISSUED** 10/25/23      **SCALE** AS NOTED

**PROJ. NO.** 2304200

**SHEET NO.** E1.1



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1  
E2.1

**ELECTRICAL ENLARGED BASEBALL AND SOFTBALL SITE PLAN - NEW**

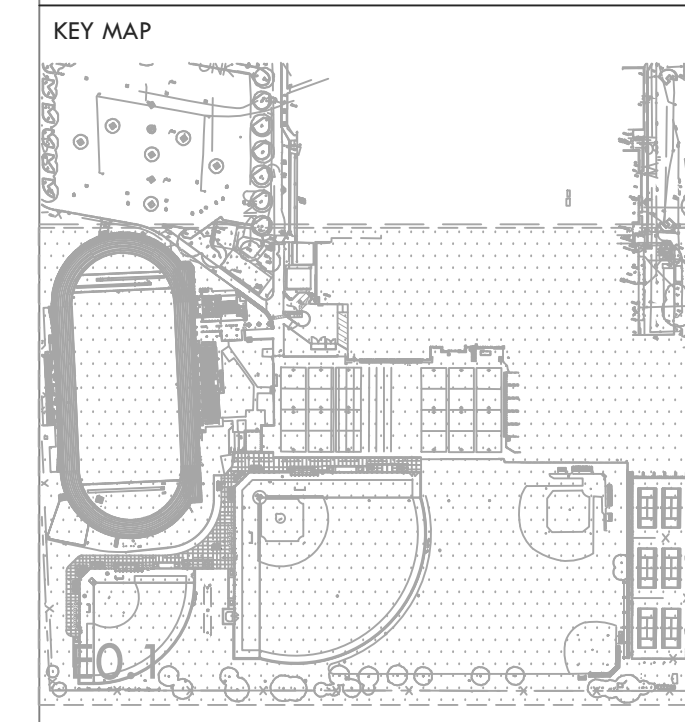
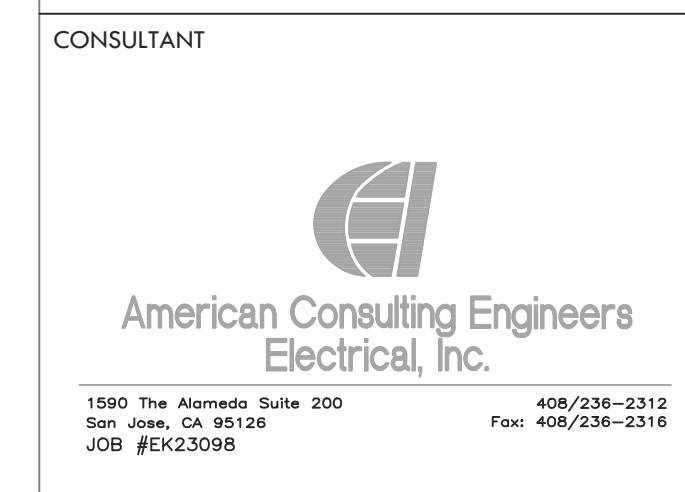
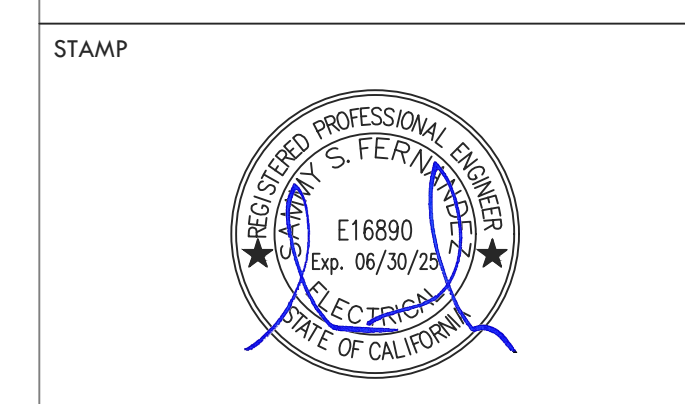
SCALE: 1" = 30'-0"

**GENERAL NOTES:**

- CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRACES TO AVOID CONFLICT.
- CONTRACTOR TO SITE SURVEY EXISTING CONDITIONS AND LOCATIONS OF EXISTING UNDERGROUND SYSTEMS WHERE (N) TRENCHWORK OCCURS PRIOR TO BIDDING. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE (E) UNDERGROUND SYSTEMS/CONDUITS/PIPES ARE NOT DAMAGED DURING INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS REQUIRED IN THE EVENT THE (E) UNDERGROUND SYSTEMS ARE DAMAGED AS A RESULT OF THE (N) ELECTRICAL TRENCHWORK.
- SEE SINGLE LINE DIAGRAM FOR WIRE SIZES AND CONDUIT REQUIREMENTS.
- CONTRACTOR TO COORDINATE SITE PLAN TO COMBINE ALL UNDERGROUND CONDUIT IN COMMON TRENCH AS NECESSARY.
- ALL EMPTY CONDUIT SHALL BE PROVIDED WITH NYLON PULL CORD AS NOTED IN THE SPECIFICATIONS.
- ALL ELECTRICAL WORK SHALL BE INSTALLED PER 2019 CEC.
- PRIOR TO ALL (N) TRENCHES, CONTRACTOR TO USE ALL (E) ELECTRICAL CONDUITS AND OTHER UTILITIES TO FAMILIARIZE THEMSELVES WITH THE FIELD CONDITIONS AND ADJUST (N) TRENCHES ACCORDINGLY.
- IN-GRADE PULL BOX IDENTIFIED WITH 'P' SHALL HAVE LID LABELED 'ELECTRICAL'.
- IN-GRADE PULL BOX IDENTIFIED WITH 'S' SHALL HAVE LID LABELED 'SIGNAL'.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SAW CUTTING AND REMOVAL OF EXISTING SURFACES TO FACILITATE UNDERGROUND SYSTEMS. THE CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED AND CUT SURFACES TO MATCH ADJACENT.
- CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ALL IN-GRADE PULL BOX WITH LANDSCAPE ARCHITECT. THE INTENT IS TO VOID RELOCATING PULL BOXES.
- ALL POWER SYSTEM CONDUITS STUB IN 'ELECTRICAL' PULL BOX AND ALL COMMUNICATION SYSTEMS CONDUIT IN 'SIGNAL' BOXES AS REQUIRED BY CODE.
- ALL PULL BOXES SHALL BE TRAFFIC RATED B2436 UNLESS OTHERWISE NOTED. SEE DETAIL FOR SPECIFICS.
- COORDINATE PULL BOX ORIENTATION WITH LANDSCAPE ARCHITECT TO BE SQUARE WITH SURFACE CURB, CONCRETE WALKWAY, DRAINAGE, ETC.
- IN-GRADE PULL BOX IDENTIFIED WITH 'L' SHALL HAVE LID LABELED 'LIGHTING'.

**CONDUIT SCHEDULE:**

POWER SYSTEMS	
1	(1) 2" - POWER - SOFTBALL SCOREBOARD
2	(1) 2" - LIGHTING - SOFTBALL BATTING CAGE
3	(1) 2" - POWER - SOFTBALL BATTING CAGE
4	(1) 2" - POWER - SOFTBALL DUGOUT
5	(1) 2" - POWER - SOFTBALL BACKSTOP
6	(1) 2" - POWER - BASEBALL SCOREBOARD
7	(1) 2" - POWER - BASEBALL BATTING CAGE
8	(1) 2" - LIGHTING - BASEBALL BATTING CAGE
9	(1) 2" - POWER - BASEBALL DUGOUT
10	(1) 2" - POWER - BASEBALL BACKSTOP
COMMUNICATION SYSTEMS	
20	(2) 2" - SIGNAL



SHEET TITLE  
**ELECTRICAL ENLARGED BASEBALL & SOFTBALL SITE PLAN - NEW**

PROJECT NAME  
**JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS**

PROJECT ADDRESS  
**6715 GLORIA DRIVE SACRAMENTO, CA 95831**

SUBMITTAL	DATE
50% SUBMITTAL	08/20/23
100% SUBMITTAL	10/25/23

NO.	REVISIONS	DATE

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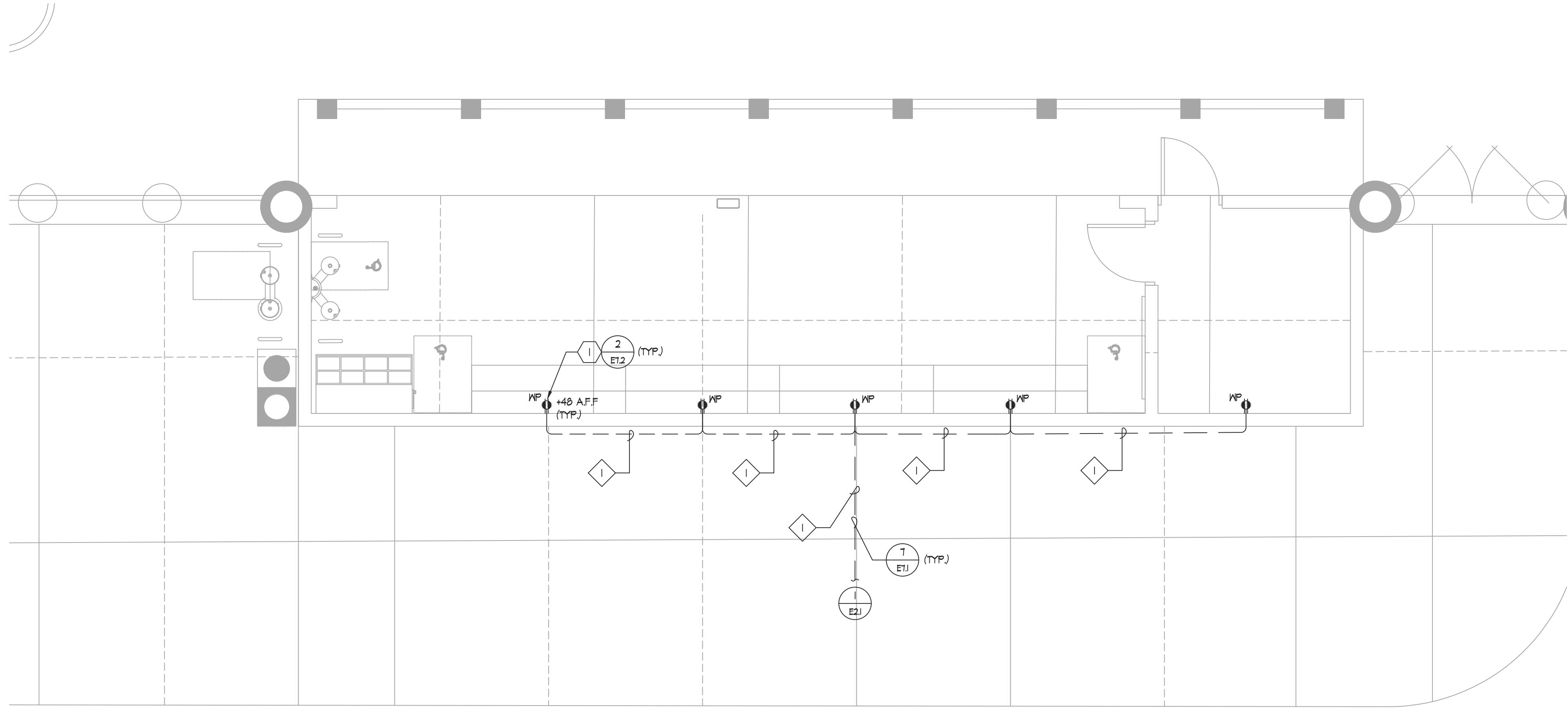
DATE ISSUED: 10/25/23      SCALE: AS NOTED

PROJ. NO.: 2304200

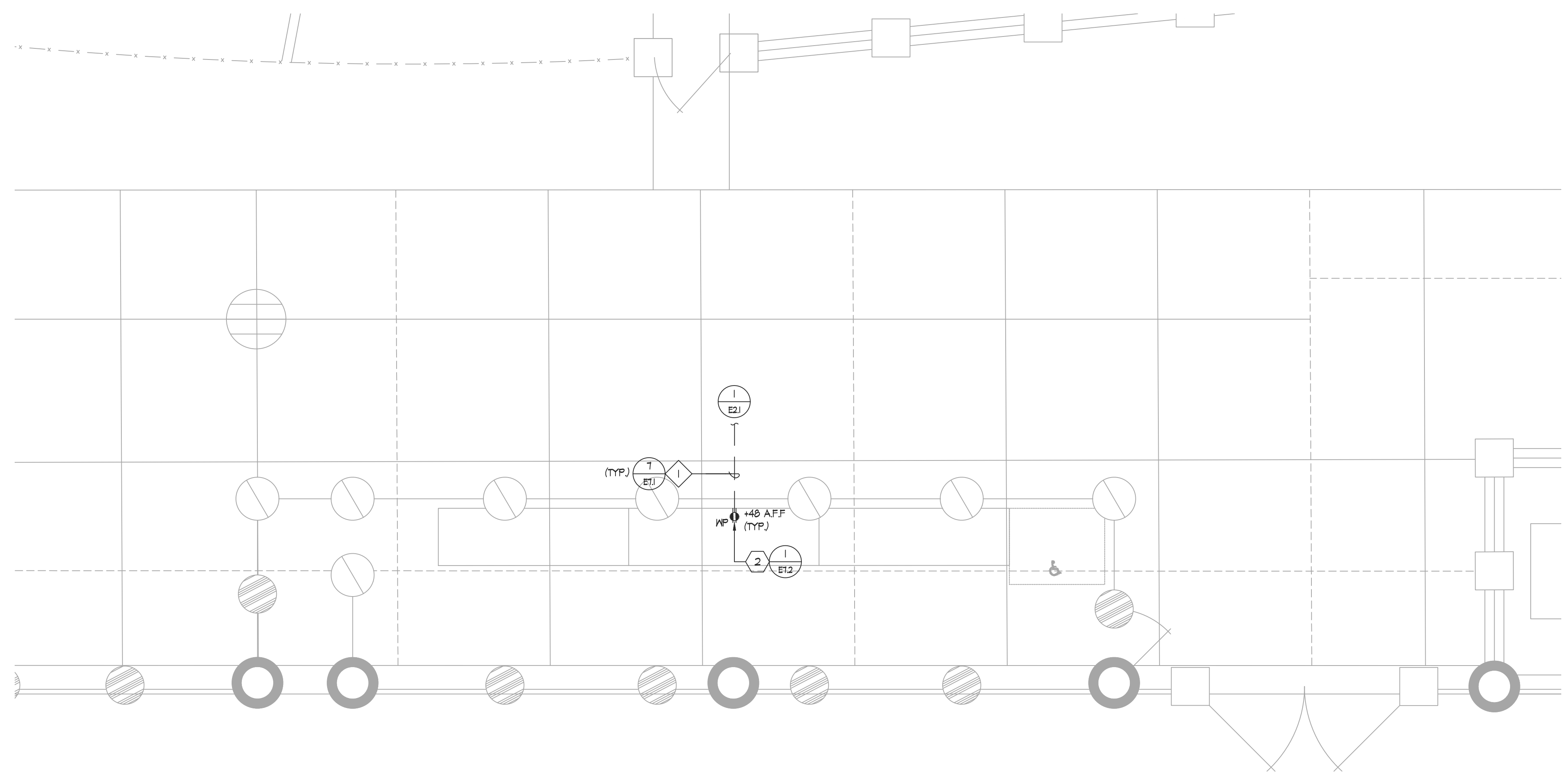
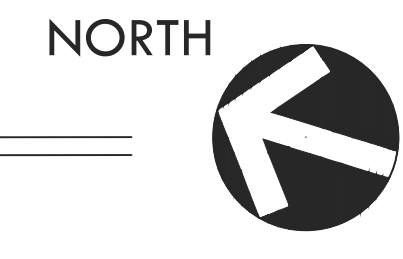
SHEET NO.: **E2.1**







**1 ELECTRICAL PLAN - FIRST BASE DUGOUT (SOFTBALL)**  
 E3.1 SCALE: 1/4" = 1'-0"



**2 ELECTRICAL PLAN - THIRD BASE DUGOUT (SOFTBALL)**  
 E3.1 SCALE: 1/4" = 1'-0"



**GENERAL NOTES:**

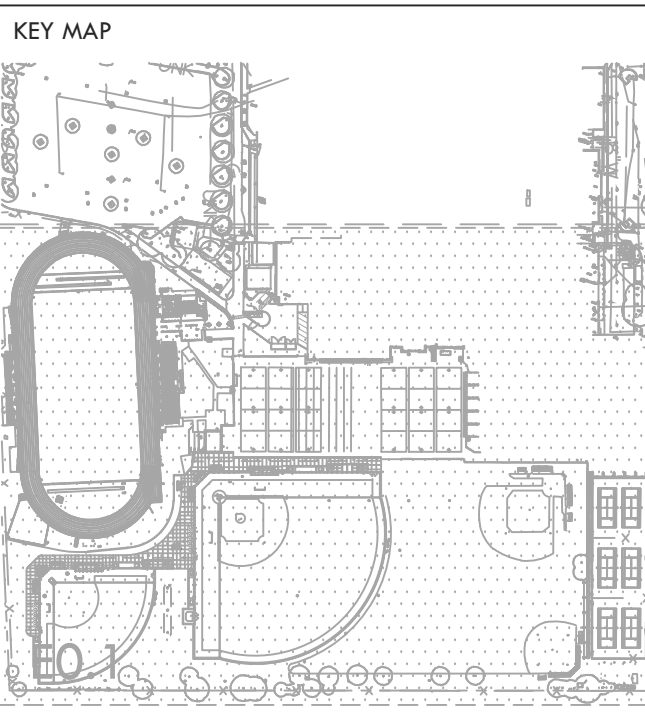
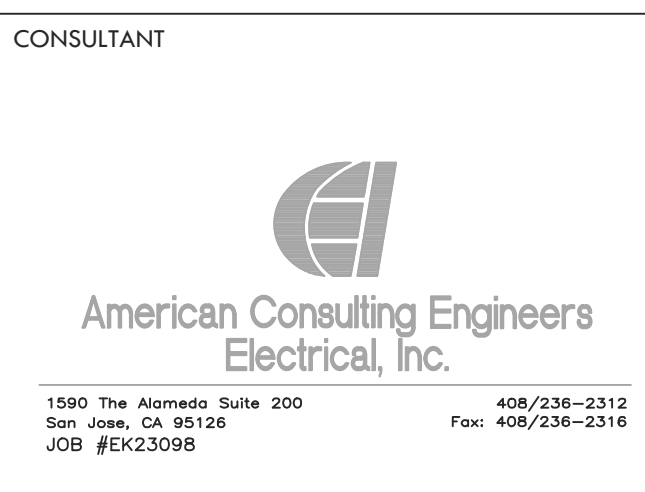
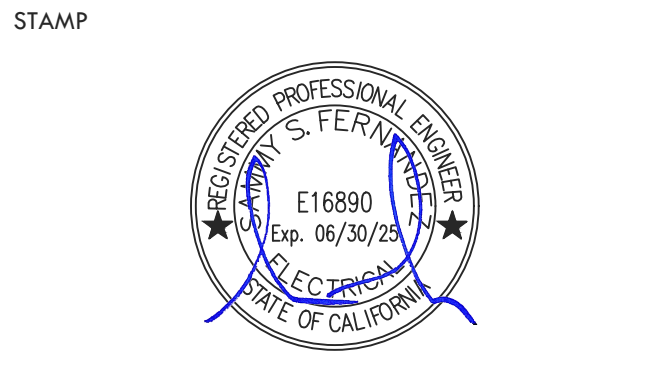
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- LIGHTING AND RECEPTACLE CONDUIT SHALL BE IN SAME TRENCH.
- SEE SINGLE LINE DIAGRAM FOR WIRE SIZES AND CONDUIT REQUIREMENTS.
- CONTRACTOR TO COORDINATE SITE PLAN TO COMBINE ALL UNDERGROUND CONDUIT IN COMMON TRENCH AS NECESSARY.
- ALL EMPTY CONDUIT SHALL BE PROVIDED WITH NYLON PULL CORD AS NOTED IN THE SPECIFICATIONS.
- SEE DETAIL (E1) AND (E2) FOR TRENCHING REQUIREMENTS.
- CONTRACTOR TO PROVIDE ALL MATERIALS, EQUIPMENT, SPORT FIELD LIGHTS, CONTROL CABINETS, WIRING, CONDUITS, ETC TO SUCCESSFULLY INSTALL NEW SPORTFIELD LIGHTING.
- ALL ELECTRICAL WORK SHALL BE INSTALLED PER 2022 CEC.
- ALL CONDUITS FOR OUTLETS AND DATA SHALL BE CONCEALED IN WALL. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH DUGOUT CONTRACTOR IN ADVANCE TO ENSURE THEY ARE AWARE OF CONDUITS TO BE CONCEALED IN CMU WALL.

**SHEET NOTES:**

- PROVIDE AND INSTALL WEATHERPROOF, GFCI, EXTERIOR OUTLET FOR DUGOUT. OUTLET SHALL BE PROVIDED WITH RAIN-TIGHT "WHILE-IN-USE" LOCKABLE COVER PER C.E.C. REQUIREMENTS. OUTLET SHALL BE INSTALLED FLUSH IN CMU WALL. CONTRACTOR SHALL COORDINATE WITH CMU CONTRACTOR TO INSTALL OUTLET FLUSH. CONTRACTOR TO CONFIRM ROUGH-INS WITH ARCHITECT TO ENSURE ALL TRADES ARE COORDINATED.
- PROVIDE AND INSTALL WEATHERPROOF, GFCI, EXTERIOR OUTLET FOR DUGOUT. OUTLET SHALL BE PROVIDED WITH RAIN-TIGHT "WHILE-IN-USE" LOCKABLE COVER PER C.E.C. REQUIREMENTS. CONTRACTOR SHALL COORDINATE WITH CMU CONTRACTOR TO INSTALL OUTLET FLUSH. CONTRACTOR TO CONFIRM ROUGH-INS WITH ARCHITECT TO ENSURE ALL TRADES ARE COORDINATED.

**CONDUIT SCHEDULE:**

- (N) 1 1/2" - RECEPTACLE



**SHEET TITLE**  
 ELECTRICAL PLAN DUGOUTS (SOFTBALL)

**PROJECT NAME**  
 JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS

**PROJECT ADDRESS**  
 6715 GLORIA DRIVE SACRAMENTO, CA 95831

SUBMITTAL	DATE
50% SUBMITTAL	08/20/23
100% SUBMITTAL	10/25/23

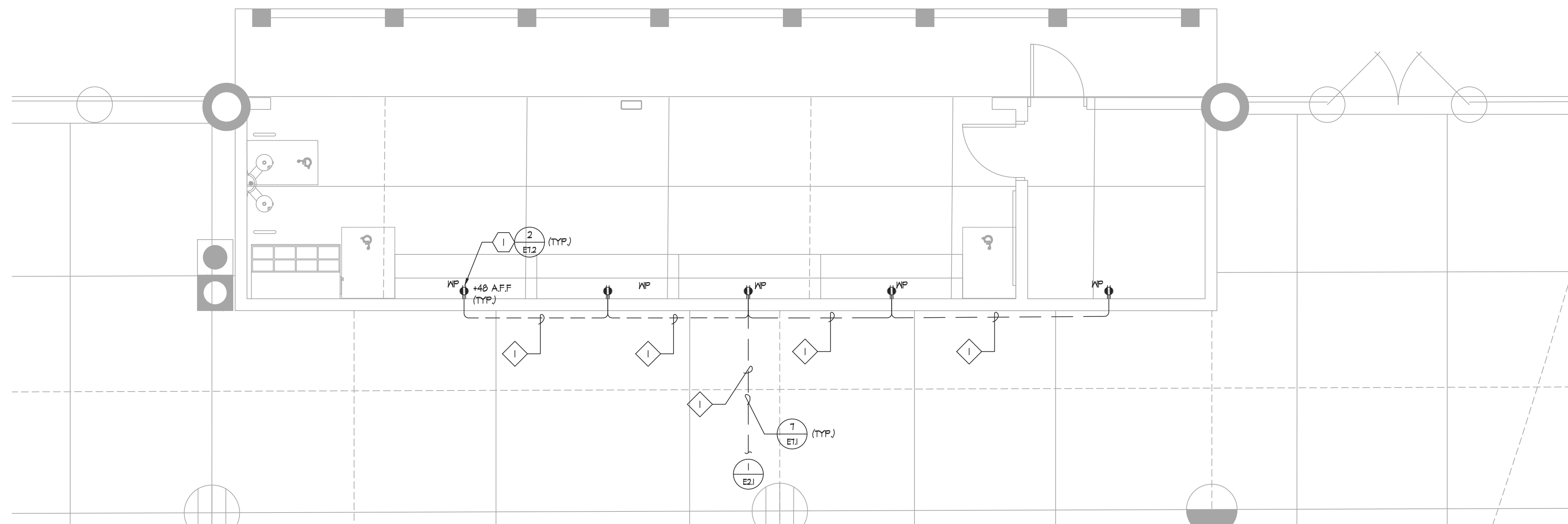
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DATE ISSUED 10/25/23	SCALE AS NOTED
PROJ. NO. 2304200	
SHEET NO. E3.1	

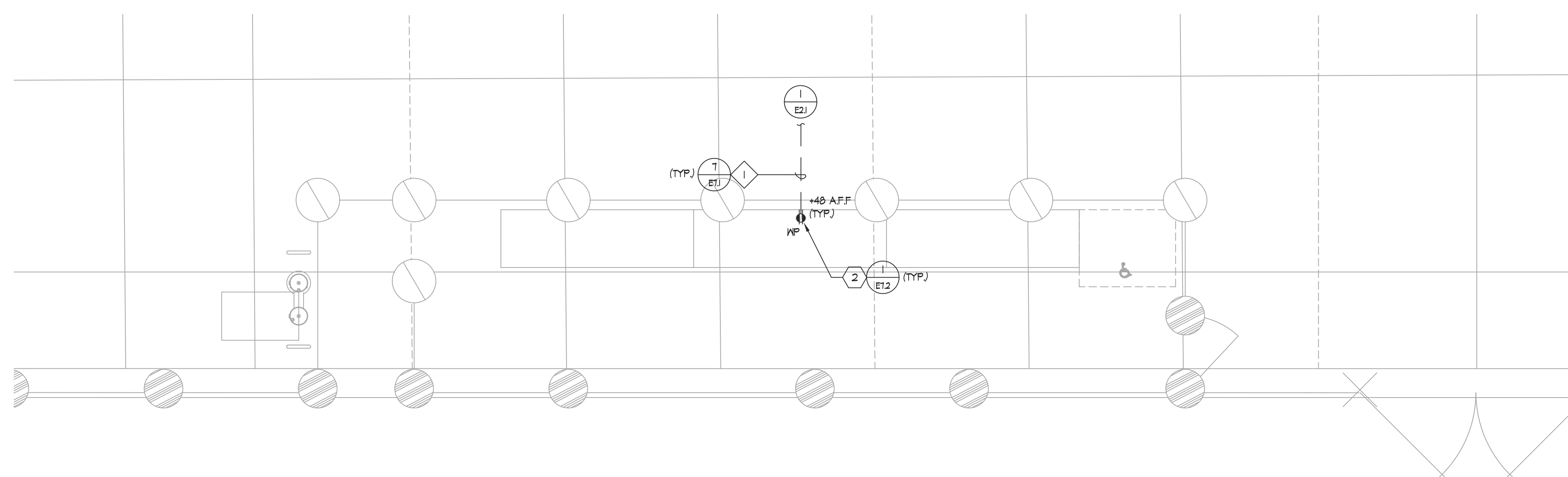
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**1**  
**ELECTRICAL PLAN - FIRST BASE DUGOUT (BASEBALL)**  
 E3.2 SCALE: 1/4" = 1'-0"



**2**  
**ELECTRICAL PLAN - THIRD BASE DUGOUT (BASEBALL)**  
 E3.2 SCALE: 1/4" = 1'-0"

**GENERAL NOTES:**

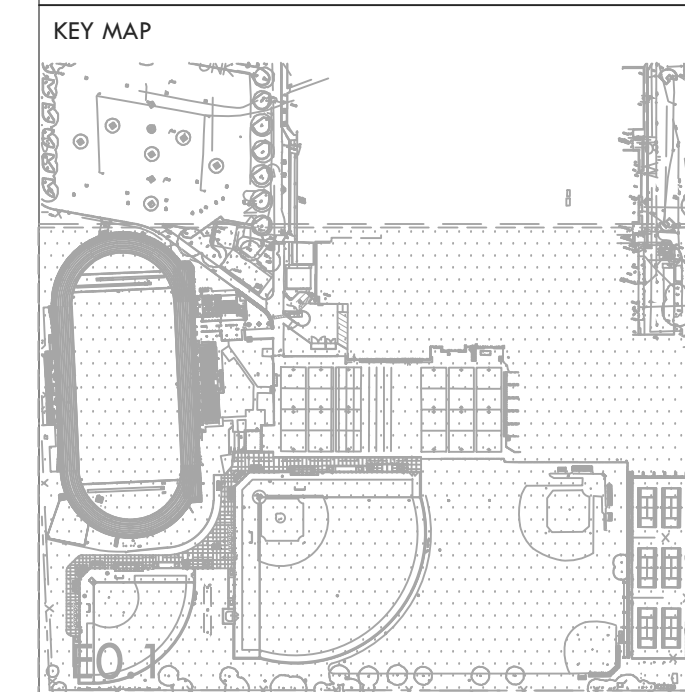
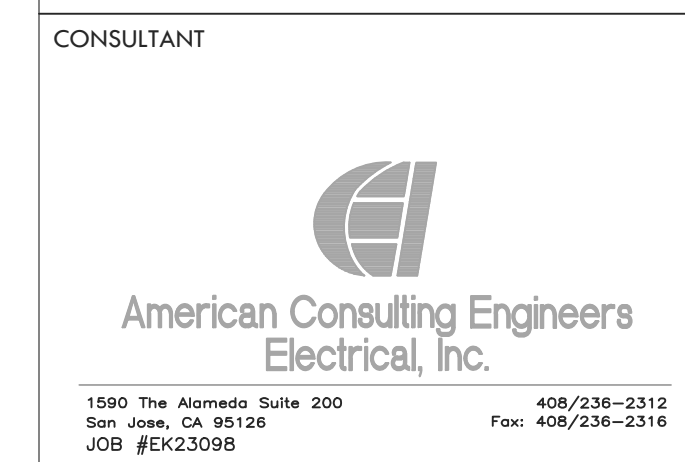
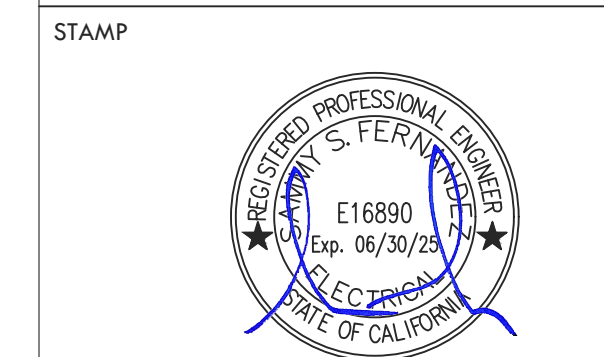
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- LIGHTING AND RECEPTACLE CONDUIT SHALL BE IN SAME TRENCH.
- SEE SINGLE LINE DIAGRAM FOR WIRE SIZES AND CONDUIT REQUIREMENTS.
- CONTRACTOR TO COORDINATE SITE PLAN TO COMBINE ALL UNDERGROUND CONDUIT IN COMMON TRENCH AS NECESSARY.
- ALL EMPTY CONDUIT SHALL BE PROVIDED WITH NYLON PULL CORD AS NOTED IN THE SPECIFICATIONS.
- SEE DETAIL (E1) AND (E2) FOR TRENCHING REQUIREMENTS.
- CONTRACTOR TO PROVIDE ALL MATERIALS, EQUIPMENT, SPORT FIELD LIGHTS, CONTROL CABINETS, WIRING, CONDUITS, ETC TO SUCCESSFULLY INSTALL NEW SPORTFIELD LIGHTING.
- ALL ELECTRICAL WORK SHALL BE INSTALLED PER 2022 CEC.
- ALL CONDUITS FOR OUTLETS AND DATA SHALL BE CONCEALED IN WALL. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH DUGOUT CONTRACTOR IN ADVANCE TO ENSURE THEY ARE AWARE OF CONDUITS TO BE CONCEALED IN CMU WALL.

**SHEET NOTES:**

- PROVIDE AND INSTALL WEATHERPROOF, GFCI, EXTERIOR OUTLET FOR DUGOUT. OUTLET SHALL BE PROVIDED WITH RAIN-TIGHT "WHILE-IN-USE" LOCKABLE COVER PER C.E.C. REQUIREMENTS. OUTLET SHALL BE INSTALLED FLUSH IN CMU WALL. CONTRACTOR SHALL COORDINATE WITH CMU CONTRACTOR TO INSTALL OUTLET FLUSH. CONTRACTOR TO CONFIRM ROUGH-INS WITH ARCHITECT TO ENSURE ALL TRADES ARE COORDINATED.
- PROVIDE AND INSTALL WEATHERPROOF, GFCI, EXTERIOR OUTLET FOR DUGOUT. OUTLET SHALL BE PROVIDED WITH RAIN-TIGHT "WHILE-IN-USE" LOCKABLE COVER PER C.E.C. REQUIREMENTS. CONTRACTOR SHALL COORDINATE WITH CMU CONTRACTOR TO INSTALL OUTLET FLUSH. CONTRACTOR TO CONFIRM ROUGH-INS WITH ARCHITECT TO ENSURE ALL TRADES ARE COORDINATED.

**CONDUIT SCHEDULE:**

- (N) 1 1/2" - RECEPTACLE



**SHEET TITLE**  
ELECTRICAL PLAN DUGOUTS (BASEBALL)

**PROJECT NAME**  
JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS

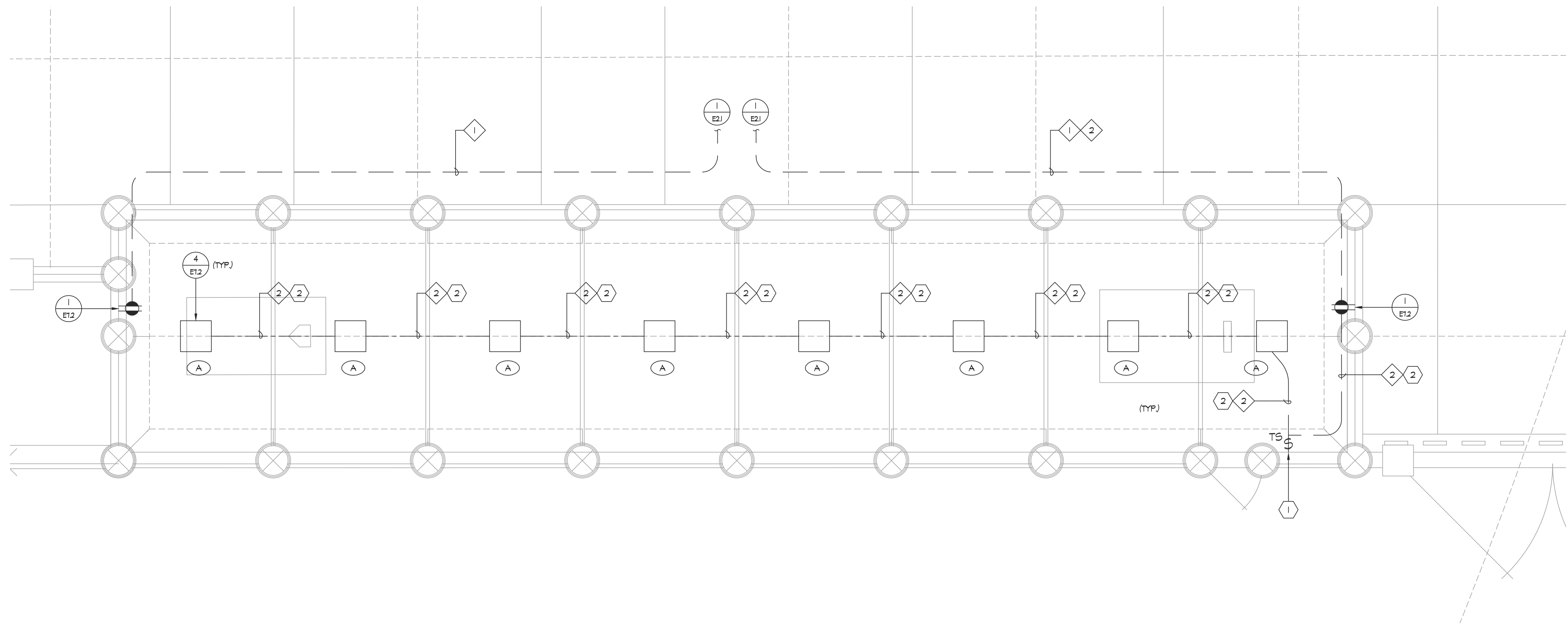
**PROJECT ADDRESS**  
6715 GLORIA DRIVE SACRAMENTO, CA 95831

SUBMITTAL	DATE
50% SUBMITTAL	08/20/23
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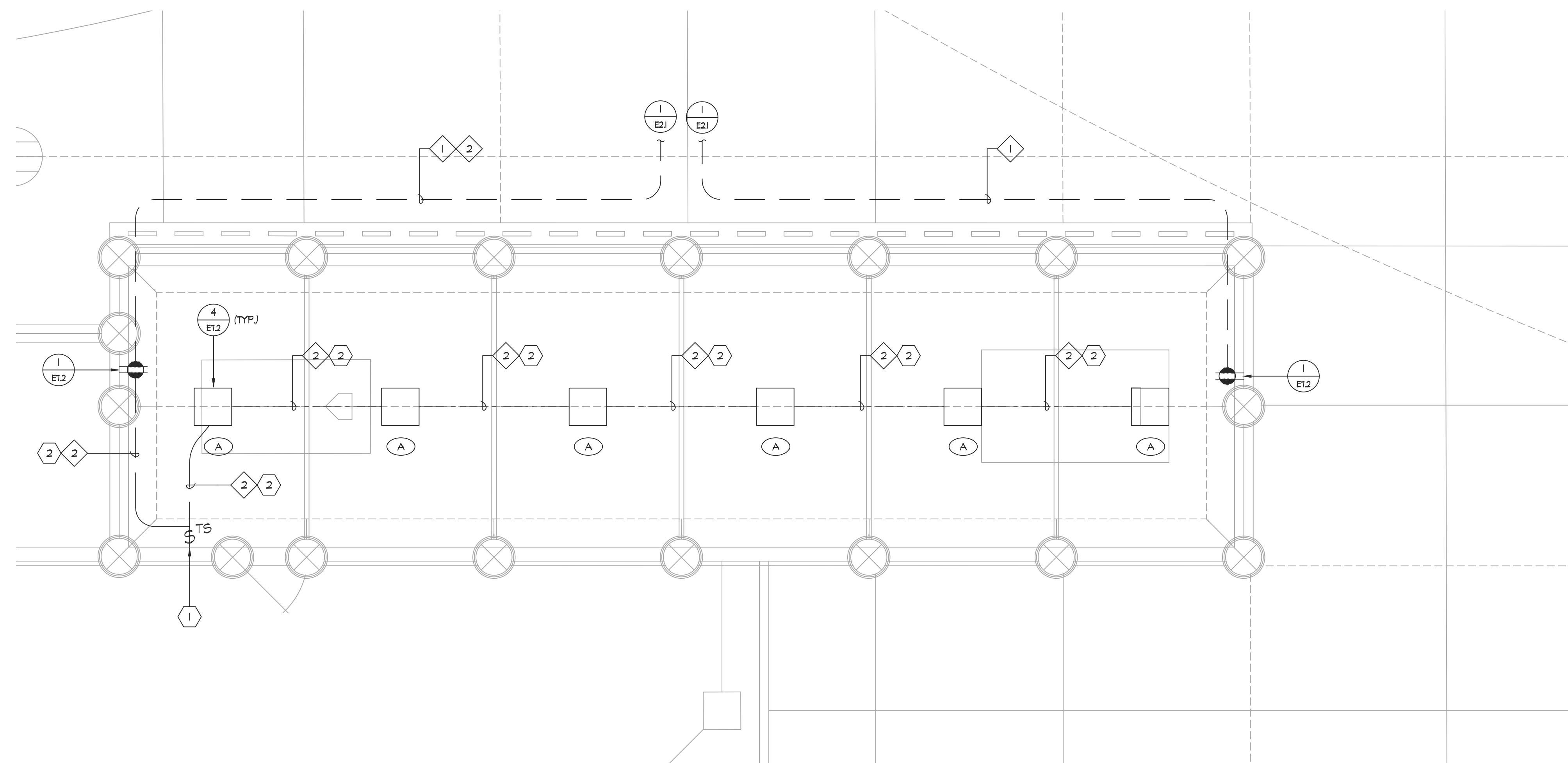
NO.	REVISIONS	DATE

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DATE ISSUED 10/25/23	SCALE AS NOTED
PROJ. NO. 2304200	
SHEET NO. E3.2	





**1 ELECTRICAL FLOOR PLAN - BATTING CAGE (BASEBALL)**  
 E3.3 SCALE: 1/4" = 1'-0"



**2 ELECTRICAL FLOOR PLAN - BATTING CAGE (SOFTBALL)**  
 E3.3 SCALE: 1/4" = 1'-0"



**GENERAL NOTES:**

1. CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICT.
2. CONTRACTOR TO SITE SURVEY EXISTING CONDITIONS AND LOCATIONS OF EXISTING UNDERGROUND SYSTEMS, WHERE (N) TRENCHWORK OCCURS PRIOR TO BIDDING. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE (E) UNDERGROUND SYSTEMS/CONDUIT/PIPES ARE NOT DAMAGED DURING INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS REQUIRED IN THE EVENT THE (E) UNDERGROUND SYSTEMS ARE DAMAGED AS A RESULT OF THE (N) ELECTRICAL TRENCHWORK.
3. LIGHTING AND RECEPTACLE CONDUIT SHALL BE IN SAME TRENCH.
4. SEE SINGLE LINE DIAGRAM FOR WIRE SIZES AND CONDUIT REQUIREMENTS.
5. CONTRACTOR TO COORDINATE SITE PLAN TO COMBINE ALL UNDERGROUND CONDUIT IN COMMON TRENCH AS NECESSARY.
6. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH NYLON PULL CORD AS NOTED IN THE SPECIFICATIONS.
7. SEE DETAIL 1/E1.1 FOR TRENCHING REQUIREMENTS.
8. EXPOSED CONDUIT FOR BATTING CAGE LIGHTING SHALL BE RIGID STEEL CONDUIT.
9. ALL ELECTRICAL WORK SHALL BE INSTALLED PER 2022 CEC.

**SHEET NOTES:**

- 1 PROVIDE (N) TIMER SWITCH IN HEAVY DUTY, NEMA-3R, LOCKABLE, GASKET BOX. TIMER SHALL BE MATSTOPPER "TS-400" TIME SWITCH. CONTRACTOR SHALL PROVIDE ALL REQUIRED ACCESSORIES, CONDUIT, CABLES, ETC. FOR COMPLETE INSTALLATION.
- 2 NEW LIGHTING CONDUIT SHALL BE EXPOSED ON BATTING CAGE FENCE

**CONDUIT SCHEDULE:**

- 1 (N) 1/2" - RECEPTACLE - BATTING CAGE
- 2 (N) 1/2" - LIGHTING - BATTING CAGE



**VERDE DESIGN**  
 LANDSCAPE ARCHITECTURE  
 CIVIL ENGINEERING  
 SPORT PLANNING & DESIGN  
 1843 Iron Point Rd., Suite 140  
 Folsom, CA 95630  
 tel: 916.413.6554  
 fax: 916.413.6525  
 www.VerdeDesign.com

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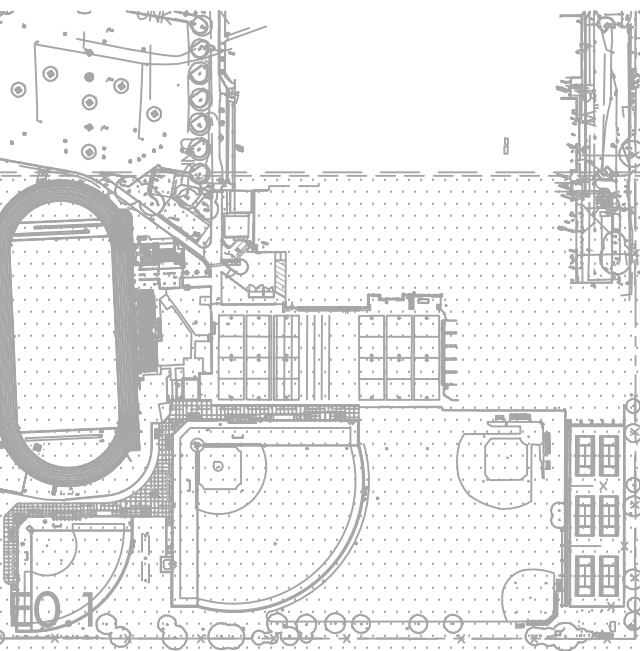
CONSULTANT



**American Consulting Engineers  
 Electrical, Inc.**

1590 The Armetts Suite 200 408/236-2312  
 San Jose, CA 95128 Fax: 408/236-2316  
 JOB #023098

KEY MAP



SHEET TITLE

**ELECTRICAL PLAN  
 - BATTING CAGE -  
 BASEBALL & SOFTBALL**

PROJECT NAME

**JOHN F. KENNEDY  
 HIGH SCHOOL  
 BASEBALL, SOFTBALL,  
 & TENNIS COURT  
 IMPROVEMENTS**

PROJECT ADDRESS

**6715 GLORIA DRIVE  
 SACRAMENTO, CA 95831**

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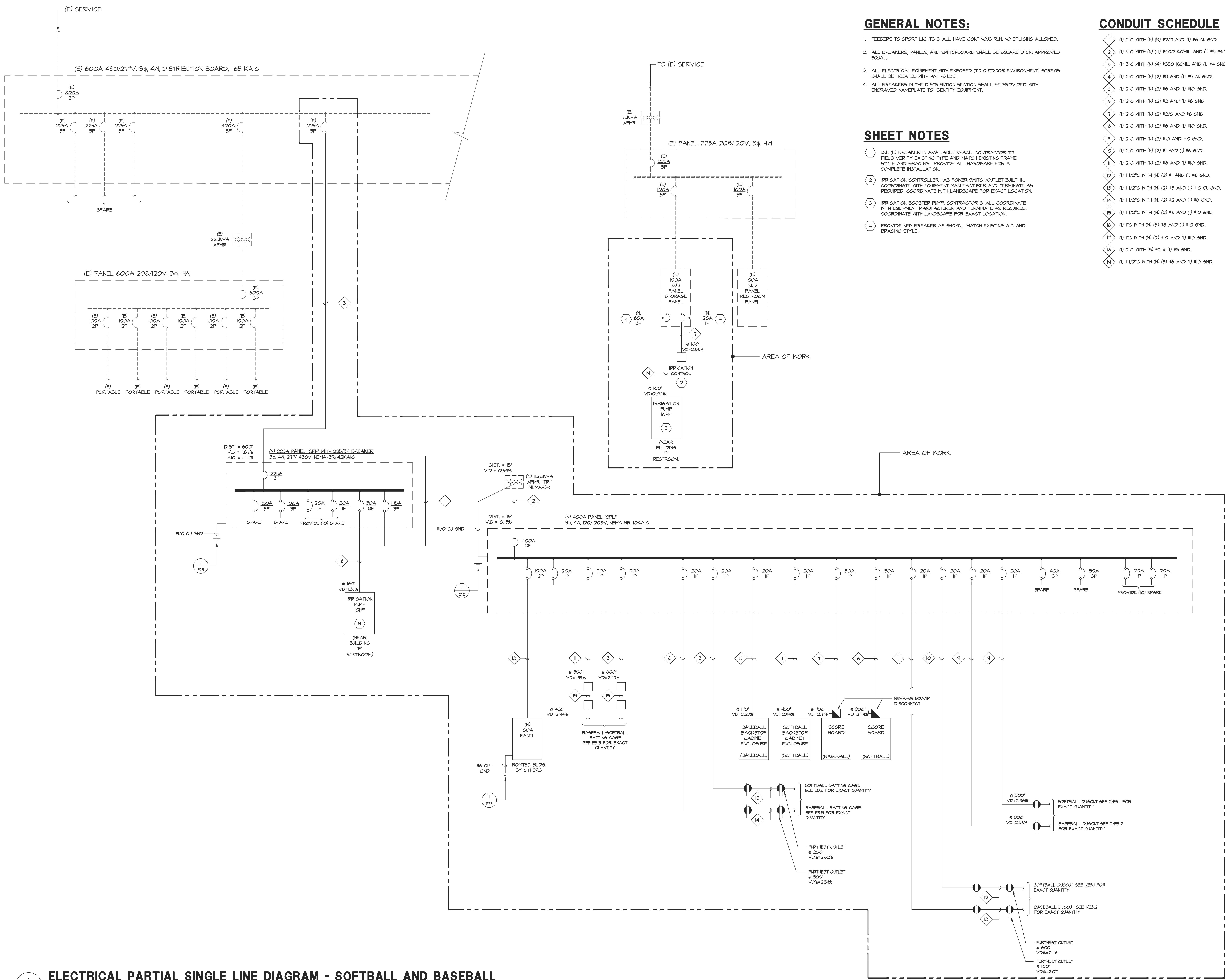
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SHEET NO. **E3.3**

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**GENERAL NOTES:**

1. FEEDERS TO SPORT LIGHTS SHALL HAVE CONTINUOUS RUN, NO SPLICES ALLOWED.
2. ALL BREAKERS, PANELS, AND SWITCHBOARD SHALL BE SQUARE D OR APPROVED EQUAL.
3. ALL ELECTRICAL EQUIPMENT WITH EXPOSED (TO OUTDOOR ENVIRONMENT) SCREWS SHALL BE TREATED WITH ANTI-SIEZE.
4. ALL BREAKERS IN THE DISTRIBUTION SECTION SHALL BE PROVIDED WITH ENGRAVED NAMEPLATE TO IDENTIFY EQUIPMENT.

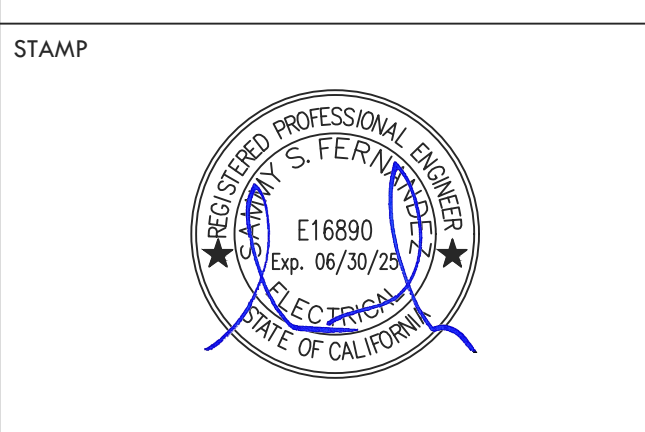
**SHEET NOTES**

1. USE (E) BREAKER IN AVAILABLE SPACE. CONTRACTOR TO FIELD VERIFY EXISTING TYPE AND MATCH EXISTING FRAME STYLE AND BRACING. PROVIDE ALL HARDWARE FOR A COMPLETE INSTALLATION.
2. IRRIGATION CONTROLLER HAS POWER SWITCH/OUTLET BUILT-IN. COORDINATE WITH EQUIPMENT MANUFACTURER AND TERMINATE AS REQUIRED. COORDINATE WITH LANDSCAPE FOR EXACT LOCATION.
3. IRRIGATION BOOSTER PUMP. CONTRACTOR SHALL COORDINATE WITH EQUIPMENT MANUFACTURER AND TERMINATE AS REQUIRED. COORDINATE WITH LANDSCAPE FOR EXACT LOCATION.
4. PROVIDE NEW BREAKER AS SHOWN. MATCH EXISTING AIG AND BRACING STYLE.

**CONDUIT SCHEDULE**

- |    |  |
|----|--|
| 1  | (1) 2" WITH (N) (3) #2/0 AND (1) #6 CU GND.    |
| 2  | (1) 3" WITH (N) (4) #400 KCMIL AND (1) #6 GND. |
| 3  | (1) 3" WITH (N) (4) #550 KCMIL AND (1) #4 GND. |
| 4  | (1) 2" WITH (N) (2) #8 AND (1) #10 CU GND.     |
| 5  | (1) 2" WITH (N) (2) #2 AND (1) #6 GND.         |
| 6  | (1) 2" WITH (N) (2) #2/0 AND #6 GND.           |
| 7  | (1) 2" WITH (N) (2) #2 AND (1) #10 GND.        |
| 8  | (1) 2" WITH (N) (2) #10 AND (1) #10 GND.       |
| 9  | (1) 2" WITH (N) (2) #10 AND (1) #10 GND.       |
| 10 | (1) 2" WITH (N) (2) #10 AND (1) #6 GND.        |
| 11 | (1) 2" WITH (N) (2) #8 AND (1) #10 GND.        |
| 12 | (1) 1 1/2" WITH (N) (2) #1 AND (1) #6 GND.     |
| 13 | (1) 1 1/2" WITH (N) (2) #8 AND (1) #10 CU GND. |
| 14 | (1) 1 1/2" WITH (N) (2) #2 AND (1) #6 GND.     |
| 15 | (1) 1 1/2" WITH (N) (2) #6 AND (1) #10 GND.    |
| 16 | (1) 1" WITH (N) (2) #8 AND (1) #10 GND.        |
| 17 | (1) 1" WITH (N) (2) #10 AND (1) #10 GND.       |
| 18 | (1) 2" WITH (N) (2) #1 AND (1) #6 GND.         |
| 19 | (1) 1 1/2" WITH (N) (3) #6 AND (1) #10 GND.    |

**1 ELECTRICAL PARTIAL SINGLE LINE DIAGRAM - SOFTBALL AND BASEBALL**  
 E5.1 NOT TO SCALE



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 Fax: 408/236-2316 Job #0023098

**ELECTRICAL PARTIAL SINGLE LINE DIAGRAM**

PROJECT NAME  
**JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS**

PROJECT ADDRESS  
**6715 GLORIA DRIVE SACRAMENTO, CA 95831**

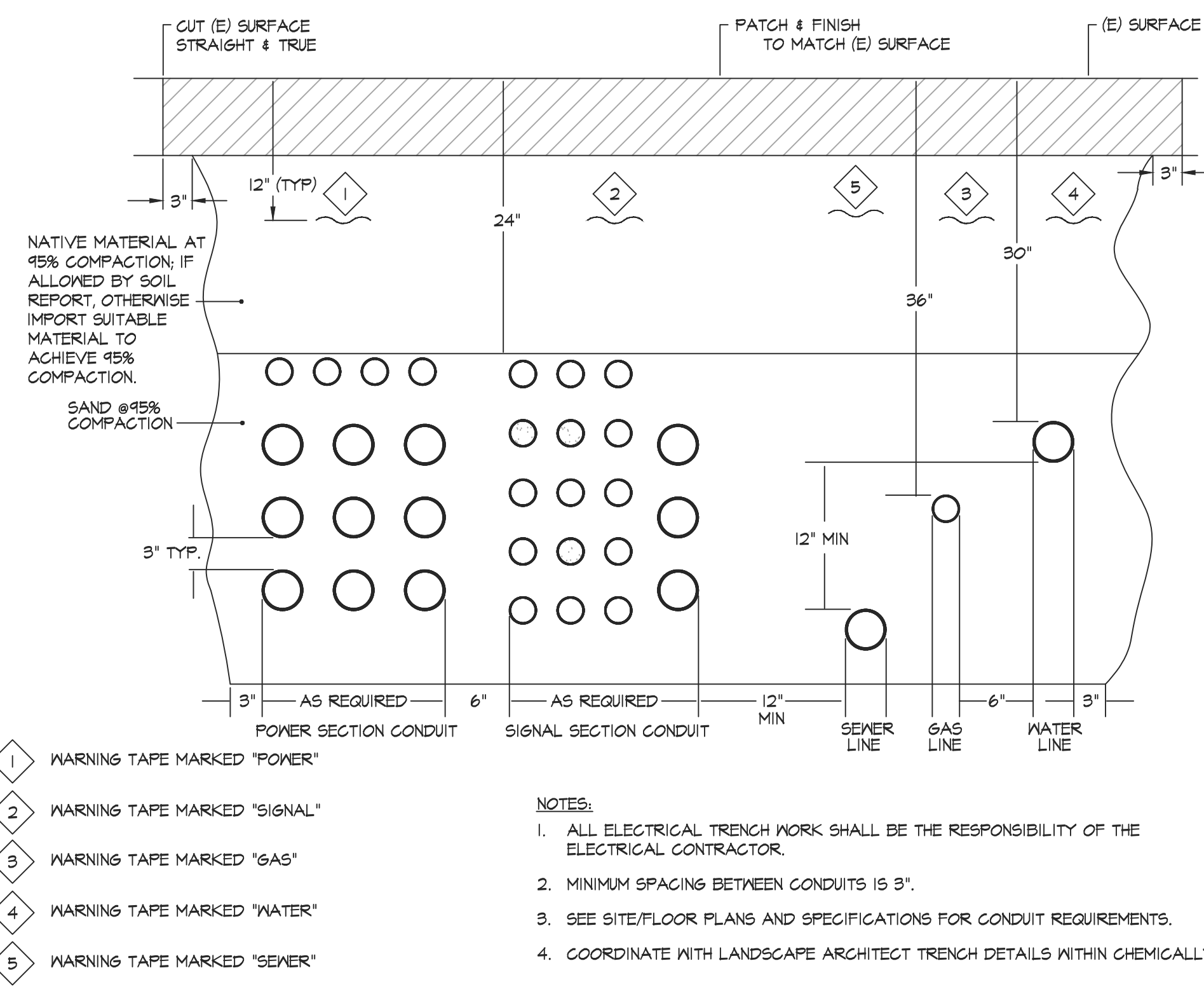
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50% SUBMITTAL	08/20/23
100% SUBMITTAL	10/25/23

NO.	REVISIONS	DATE

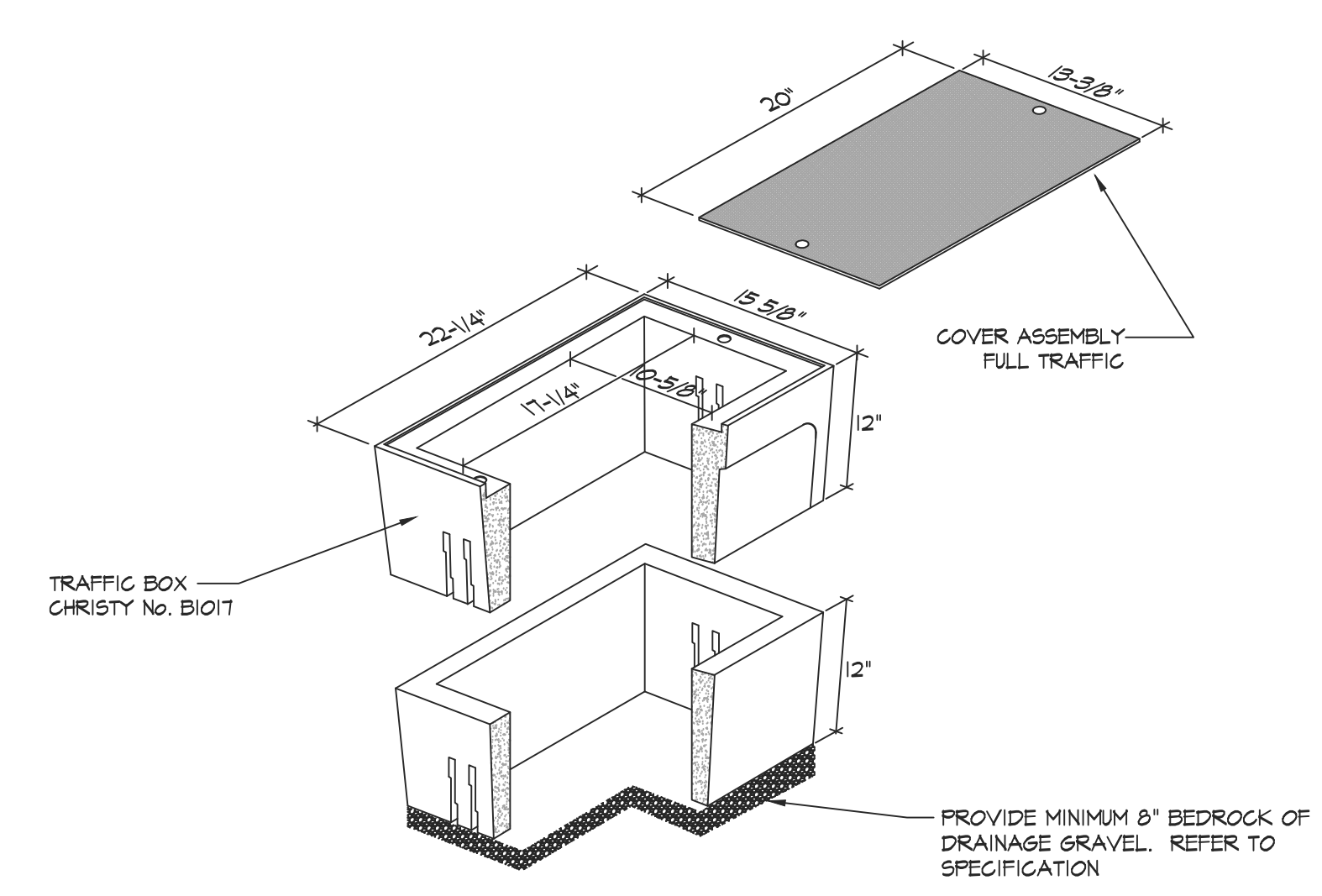
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 DATE ISSUED: 10/25/23 SCALE: AS NOTED

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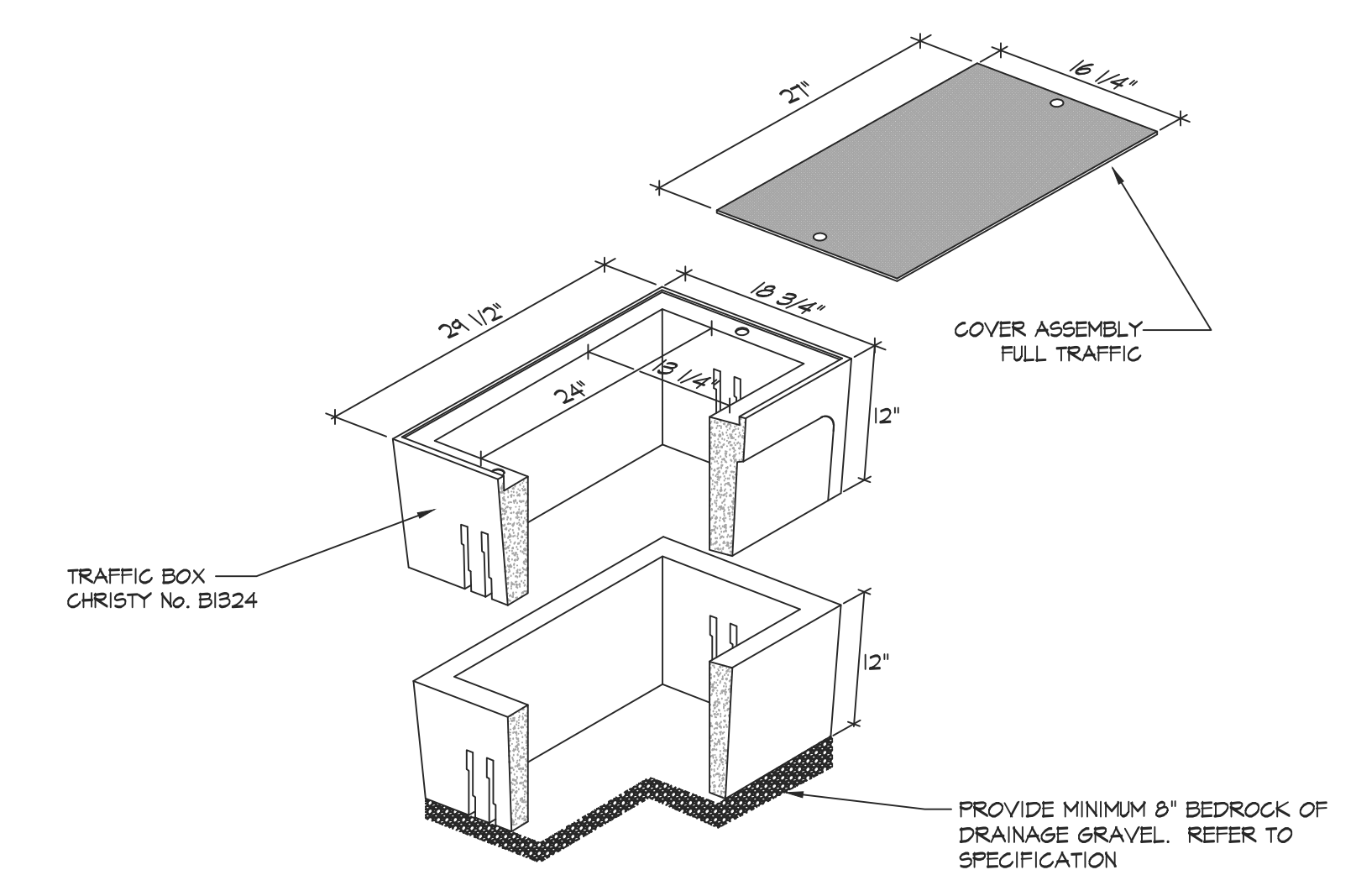


**1** **TYPICAL JOINT TRENCH & DUCT BANK DETAIL**  
 E7.1 NOT TO SCALE



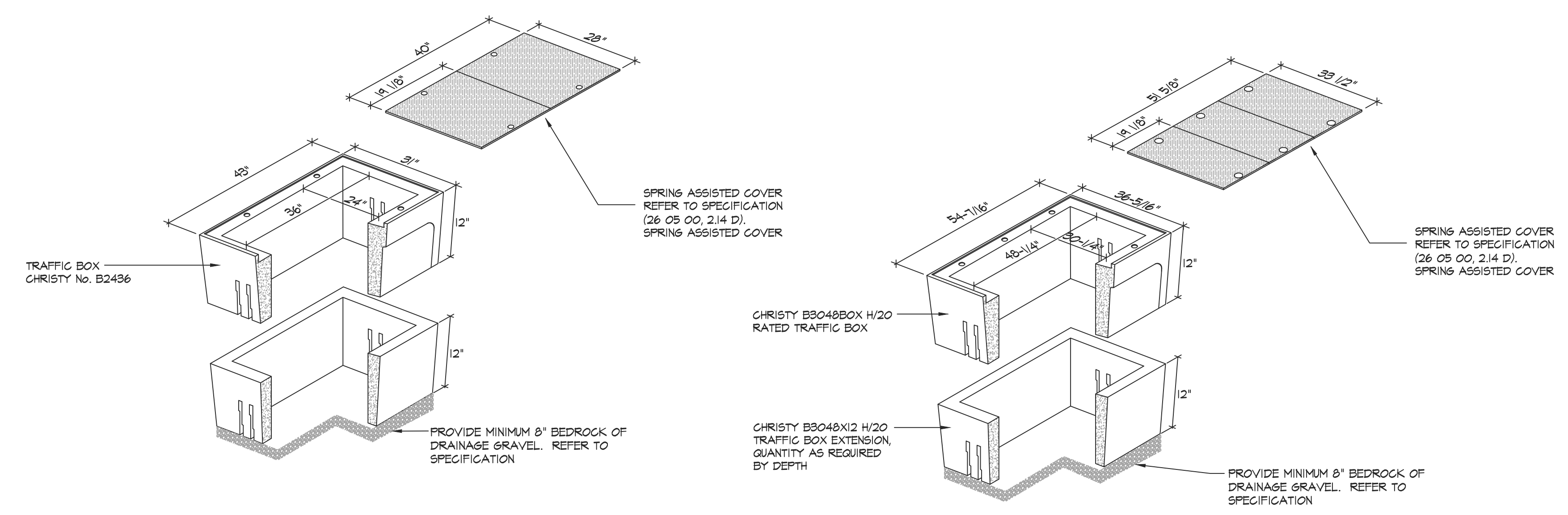
NOTES:  
 1. HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN.  
 2. ALL CONDUITS SHALL ENTER FROM SIDES OF FULL BOX. CONTRACTOR SHALL PROVIDE FULL BOX EXTENSION AS REQUIRED. NO CONDUITS SHALL BE ALLOWED FROM THE BOTTOM OF THE FULL BOX.  
 3. CONTRACTOR SHALL STACK CONDUITS AS REQUIRED TO MEET THE NEC CODE REQUIREMENTS.  
 4. PROVIDE BELL ENDS ON ALL CONDUIT.  
 5. ALL PENETRATIONS INTO BOXES SHALL BE SEALED WITH GROUT.  
 6. PROVIDE 4" DRAIN HOLE WITH MINIMUM 8" CRUSHED ROCK BEDDING AT BOTTOM OF BOX FOR DRAINAGE.

**2** **B1017 ELECTRICAL VAULT**  
 E7.1 NOT TO SCALE (FULL TRAFFIC COVER)



NOTES:  
 1. HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN.  
 2. ALL CONDUITS SHALL ENTER FROM SIDES OF FULL BOX. CONTRACTOR SHALL PROVIDE FULL BOX EXTENSION AS REQUIRED. NO CONDUITS SHALL BE ALLOWED FROM THE BOTTOM OF THE FULL BOX.  
 3. CONTRACTOR SHALL STACK CONDUITS AS REQUIRED TO MEET THE NEC CODE REQUIREMENTS.  
 4. PROVIDE BELL ENDS ON ALL CONDUIT.  
 5. ALL PENETRATIONS INTO BOXES SHALL BE SEALED WITH GROUT.  
 6. PROVIDE 4" DRAIN HOLE WITH MINIMUM 8" CRUSHED ROCK BEDDING AT BOTTOM OF BOX FOR DRAINAGE.

**3** **B1324 ELECTRICAL VAULT**  
 E7.1 NOT TO SCALE (FULL TRAFFIC COVER)

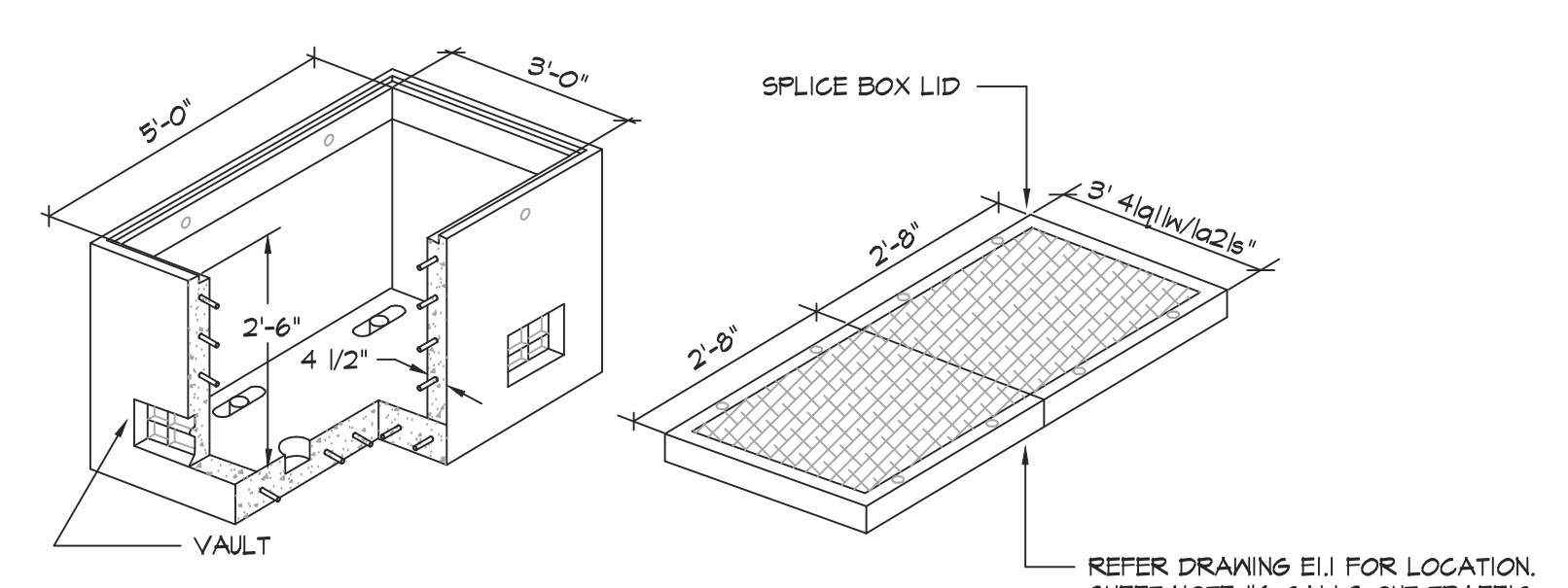


NOTES:  
 1. HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN.  
 2. ALL CONDUITS SHALL ENTER FROM SIDES OF FULL BOX. CONTRACTOR SHALL PROVIDE FULL BOX EXTENSION AS REQUIRED. NO CONDUITS SHALL BE ALLOWED FROM THE BOTTOM OF THE FULL BOX.  
 3. CONTRACTOR SHALL STACK CONDUITS AS REQUIRED TO MEET THE NEC CODE REQUIREMENTS.  
 4. PROVIDE BELL ENDS ON ALL CONDUIT.  
 5. ALL PENETRATIONS INTO BOXES SHALL BE SEALED WITH GROUT.  
 6. PROVIDE 4" DRAIN HOLE WITH MINIMUM 8" CRUSHED ROCK BEDDING AT BOTTOM OF BOX FOR DRAINAGE.

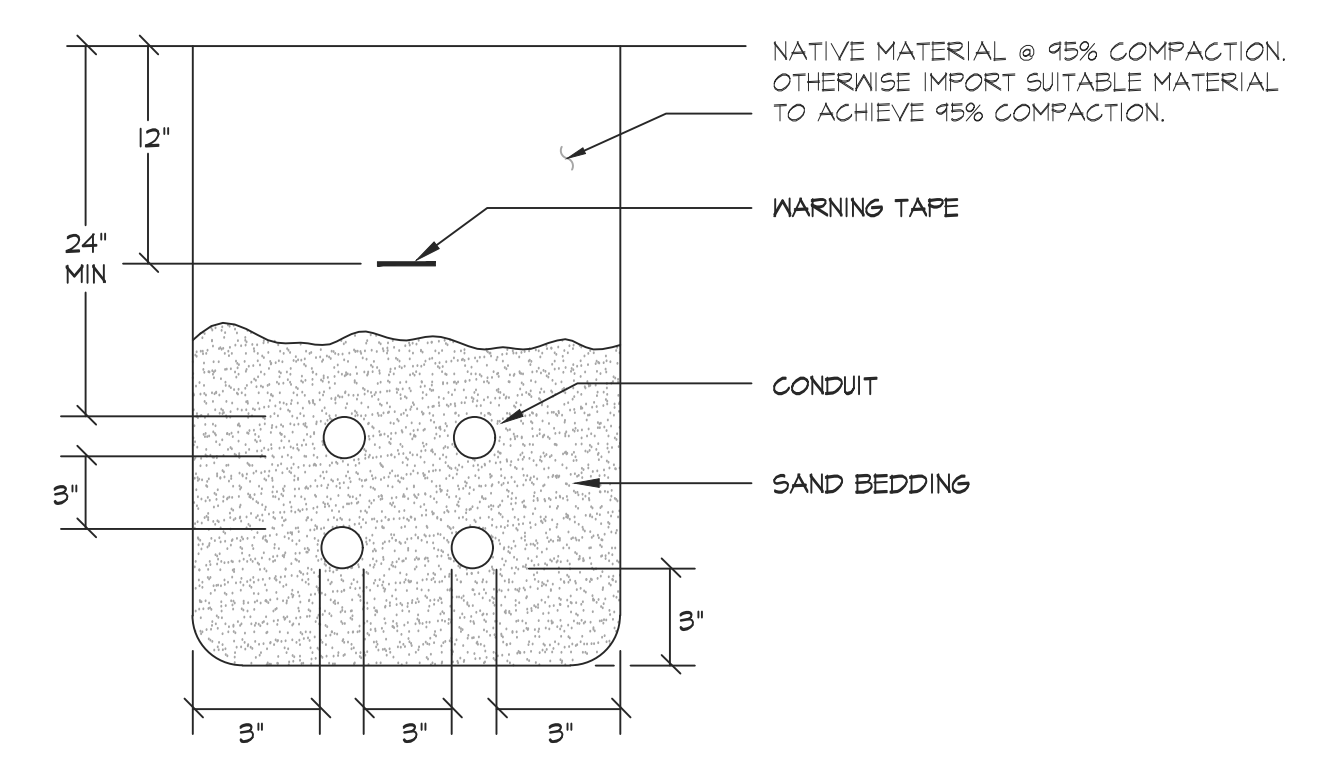
NOTES:  
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 3. CONTRACTOR SHALL STACK CONDUITS AS REQUIRED TO MEET THE NEC CODE REQUIREMENTS.  
 4. PROVIDE BELL ENDS ON ALL CONDUIT.  
 5. ALL PENETRATIONS INTO BOXES SHALL BE SEALED WITH GROUT.  
 6. PROVIDE 4" DRAIN HOLE WITH MINIMUM 8" CRUSHED ROCK BEDDING AT BOTTOM OF BOX FOR DRAINAGE.

**4** **B2436 ELECTRICAL VAULT**  
 E7.1 NOT TO SCALE (FULL TRAFFIC COVER)

**5** **B3048 TRAFFIC BOX DETAIL**  
 E7.1 NOT TO SCALE (FULL TRAFFIC COVER)



**6** **3' X 5' ELECTRICAL VAULT**  
 E7.1 NOT TO SCALE



NOTES:  
 1. COORDINATE WITH LANDSCAPE ARCHITECT TRENCH DETAILS WITHIN CHEMICALLY TREATED AREAS.

**7** **TYPICAL TRENCH DETAIL**  
 E7.1 NOT TO SCALE

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 408/236-2312 Fax: 408/236-2316  
 J09 #0023098

KEYMAP

SHEET TITLE  
**ELECTRICAL DETAILS**

PROJECT NAME  
**JOHN F KENNEDY HIGH SCHOOL BASEBALL AND SOFTBALL FIELDS**

PROJECT ADDRESS  
**6715 GLORIA DR SACRAMENTO, CA 95831**

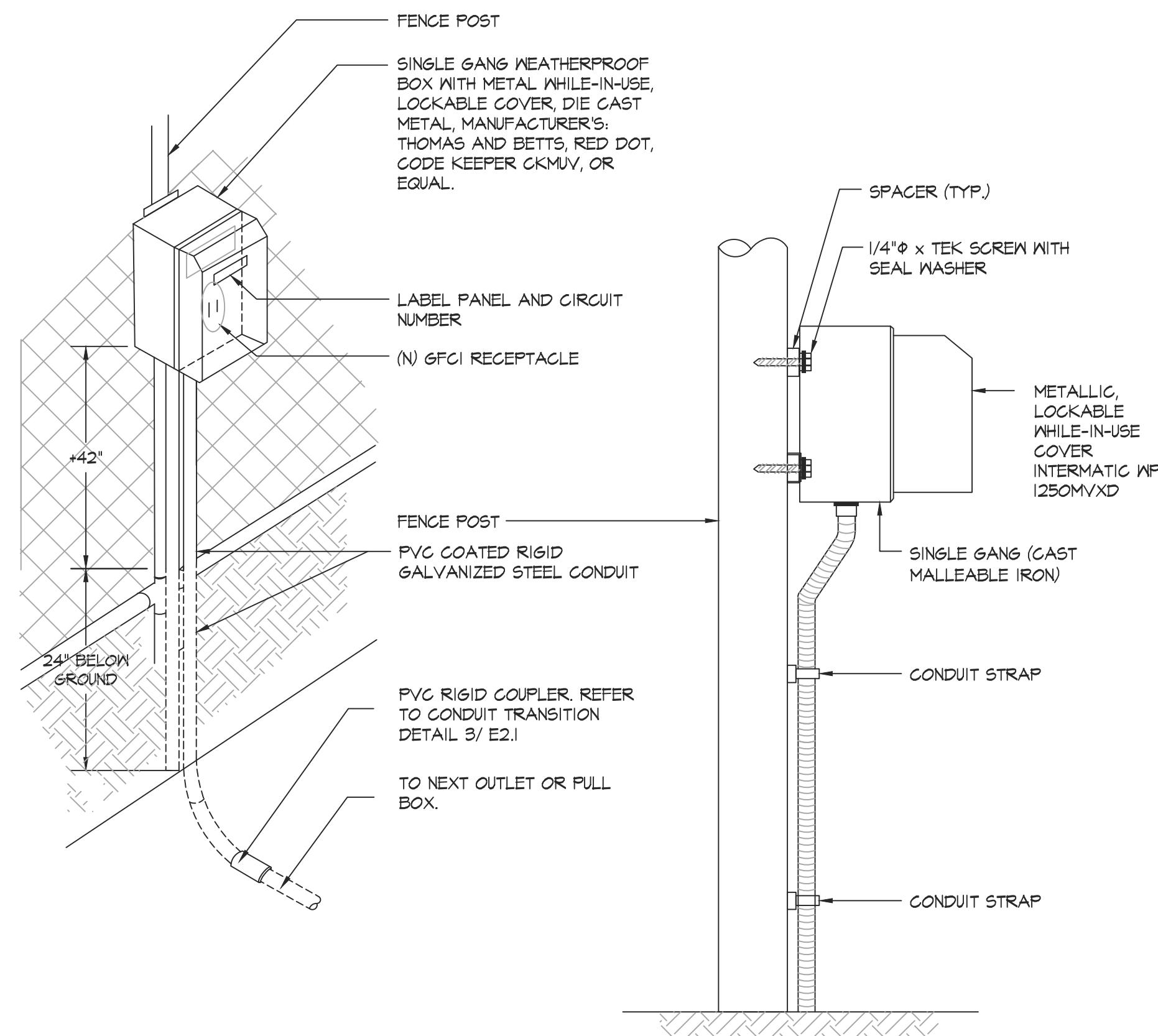
SUBMITTAL	DATE

NO.	REVISIONS	DATE

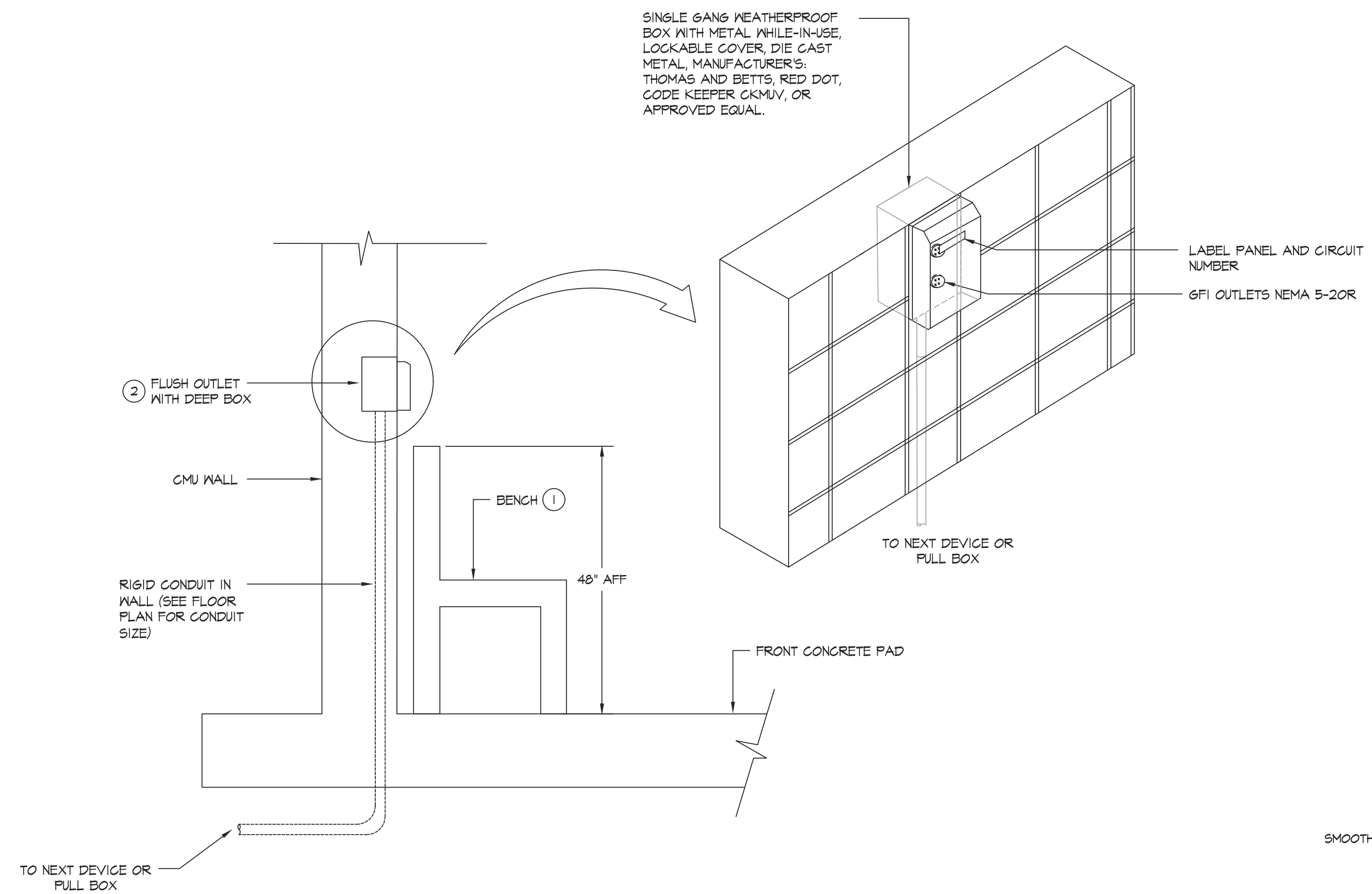
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 PROJ. NO.:  
 SHEET NO.: **E7.1** OF **ELECTRICAL DETAILS**

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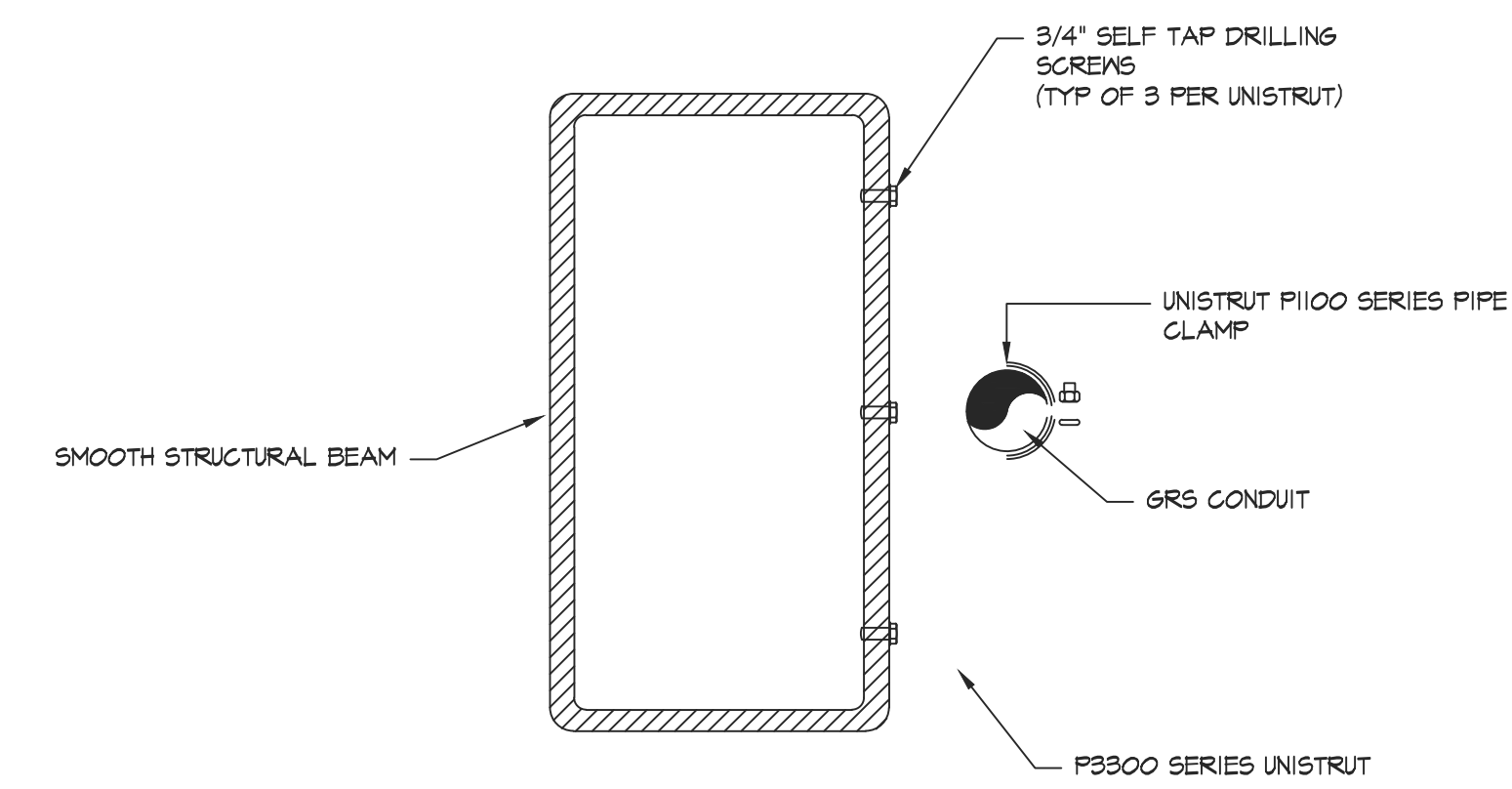
**1 RECEPTACLE MOUNTING**  
E7.2 NOT TO SCALE



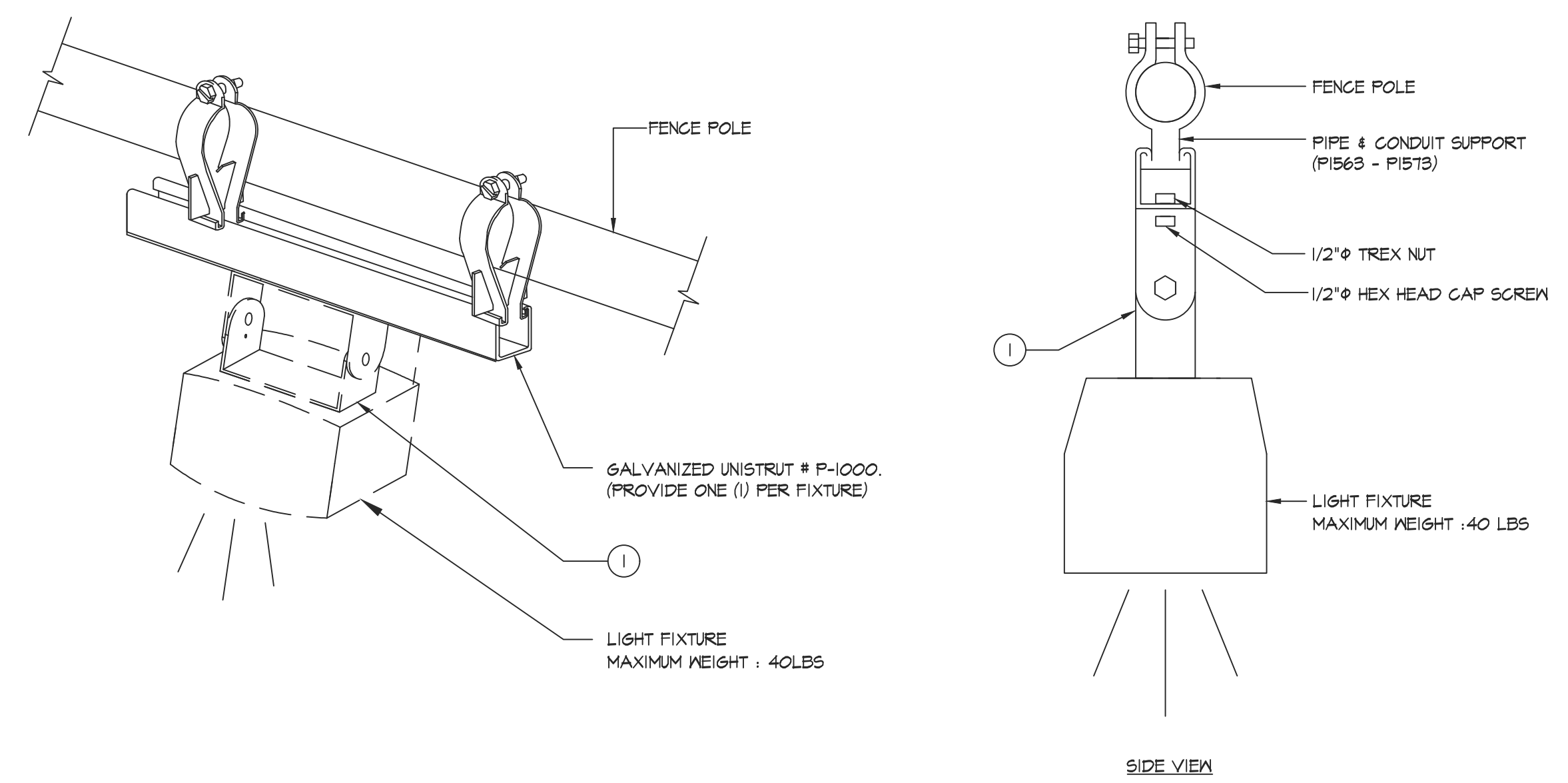
**NOTE:**

- CONTRACTOR TO COORDINATE WITH LANDSCAPE DRAWINGS TO FIND EXACT HEIGHT OF BENCH PRIOR TO ROUGH IN.
- COORDINATE WITH DUGOUT CONTRACTOR (N) CMU WALL. INSTALL BOXES AND CONDUIT CONCEALED IN WALL.

**2 DUGOUT RECEPTACLE MOUNTING**  
E7.2 NOT TO SCALE



**3 CONDUIT SUPPORT DETAIL**  
E7.2 NOT TO SCALE



**FIXTURE MOUNTING NOTES:**

① THE C BRACKETS' ROTATION AND ANGLES OF INSTALLATION SHALL BE ADJUSTED TO MAKE THE LIGHT FIXTURE STRAIGHT OR LEVEL TO THE GROUND.

**4 FIXTURE MOUNTING ON BATTING CAGE**  
E7.2 NOT TO SCALE



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408/236-2316  
JOB #023098

KEY MAP

SHEET TITLE

**ELECTRICAL DETAILS**

PROJECT NAME

**JOHN F. KENNEDY  
HIGH SCHOOL  
BASEBALL, SOFTBALL,  
& TENNIS COURT  
IMPROVEMENTS**

PROJECT ADDRESS

**6715 GLORIA DRIVE  
SACRAMENTO, CA 95831**

SUBMITTAL	DATE
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100% SUBMITTAL	10/25/23

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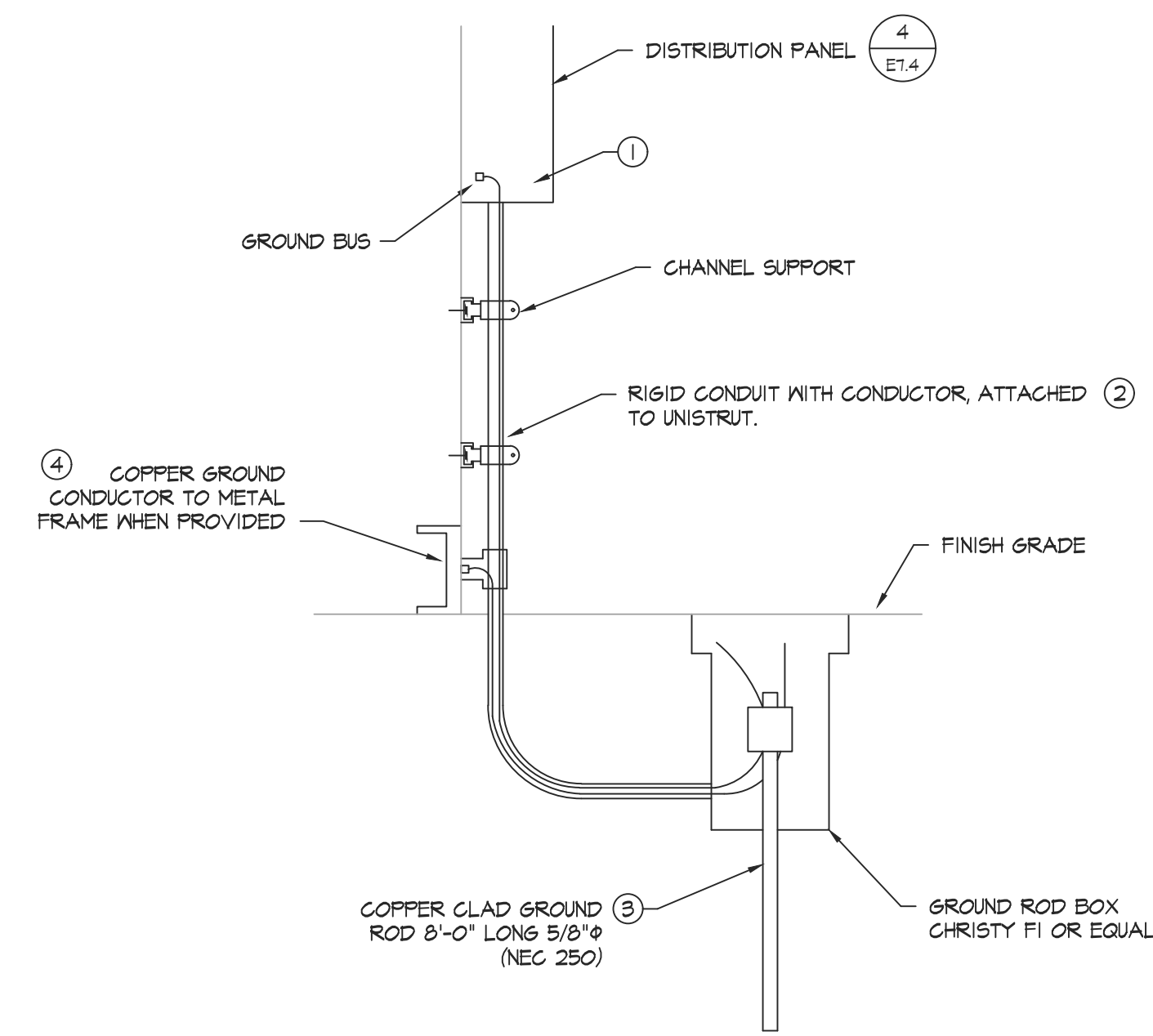
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PROJ. NO. 2304200

SHEET NO. **E7.2** OF **ELECTRICAL DETAILS**

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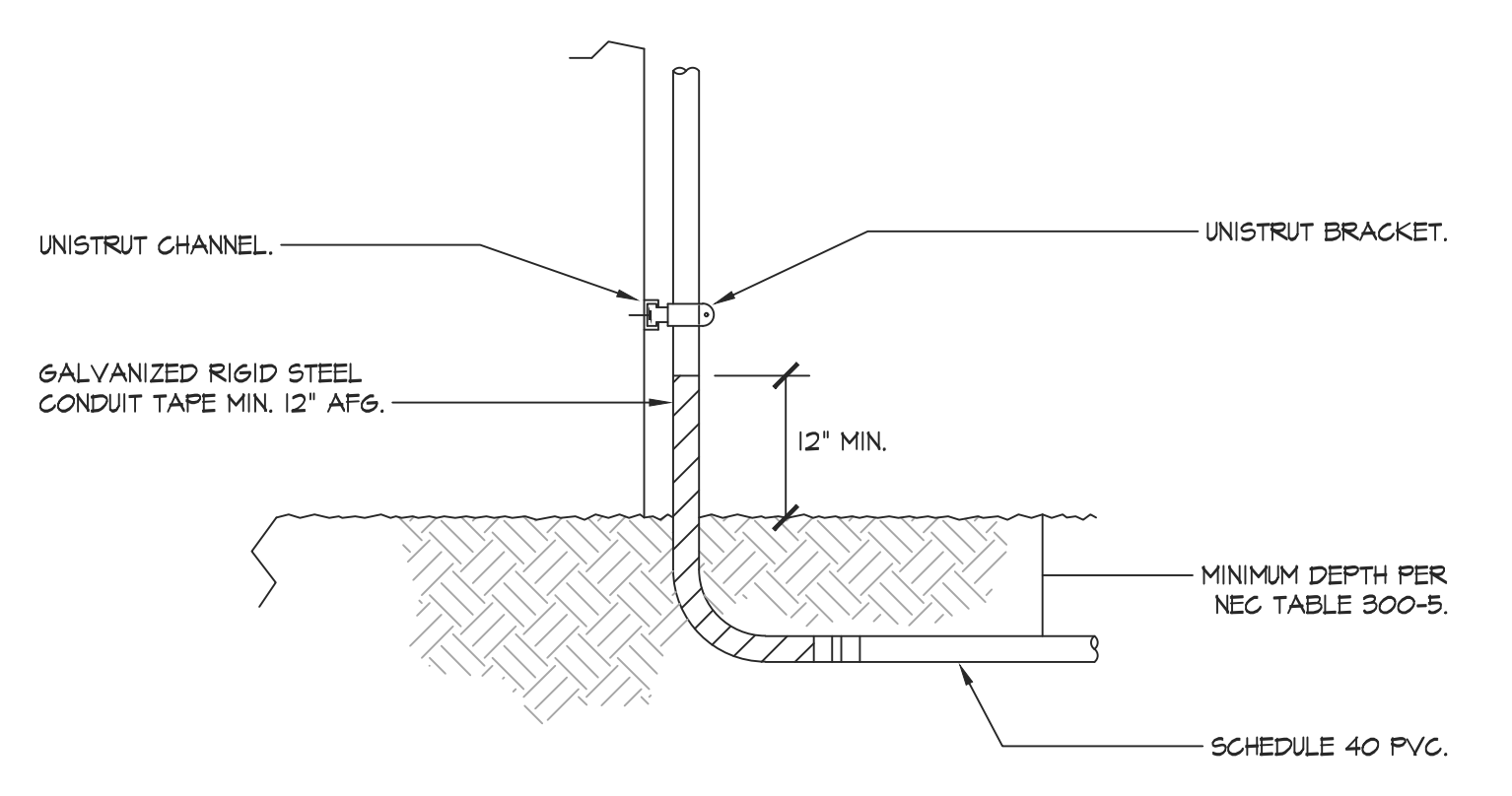




- ① SIZE OF CONDUCTORS SHALL COMPLY WITH NEC TABLE 250-66
- ② BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME (NEC 250-50). IN ADDITION TO DETAIL ABOVE, BOND THE ELECTRICAL GROUND TO NEAREST METALLIC COLD WATER PIPE (NEC 250-50)
- ③ CHECK RESISTANCE TO GROUND, IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS AS REQUIRED. (NEC 250-56)
- ④ ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER. (BOLTING ONLY IS NOT ACCEPTABLE BONDING)

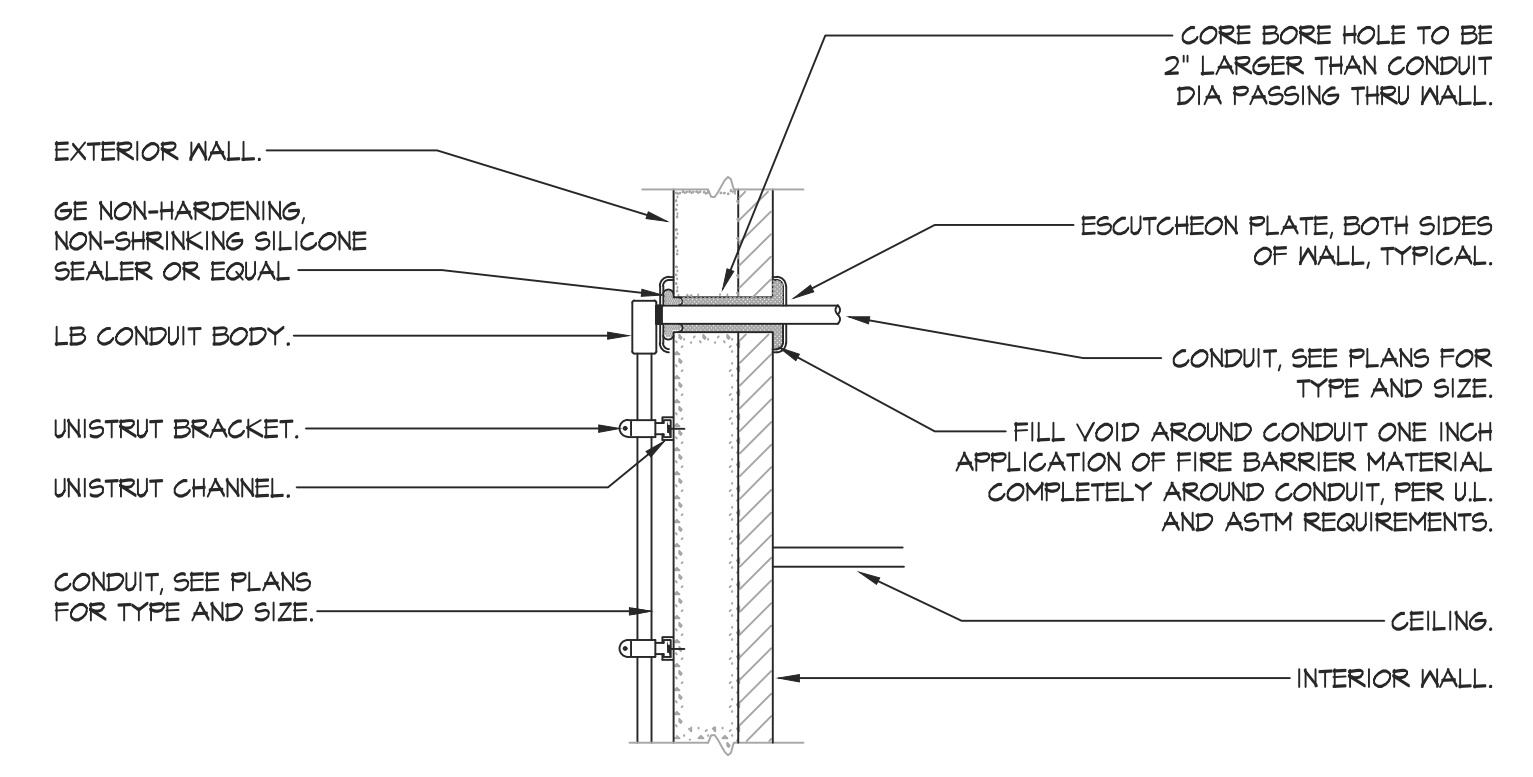
**1 TYPICAL GROUND INSTALLATION**  
E7.3 NOT TO SCALE

NOTE: GROUNDING TEST MUST BE BY INDEPENDENT LICENSED ELECTRICAL CONTRACTOR OR TESTING LABORATORY.



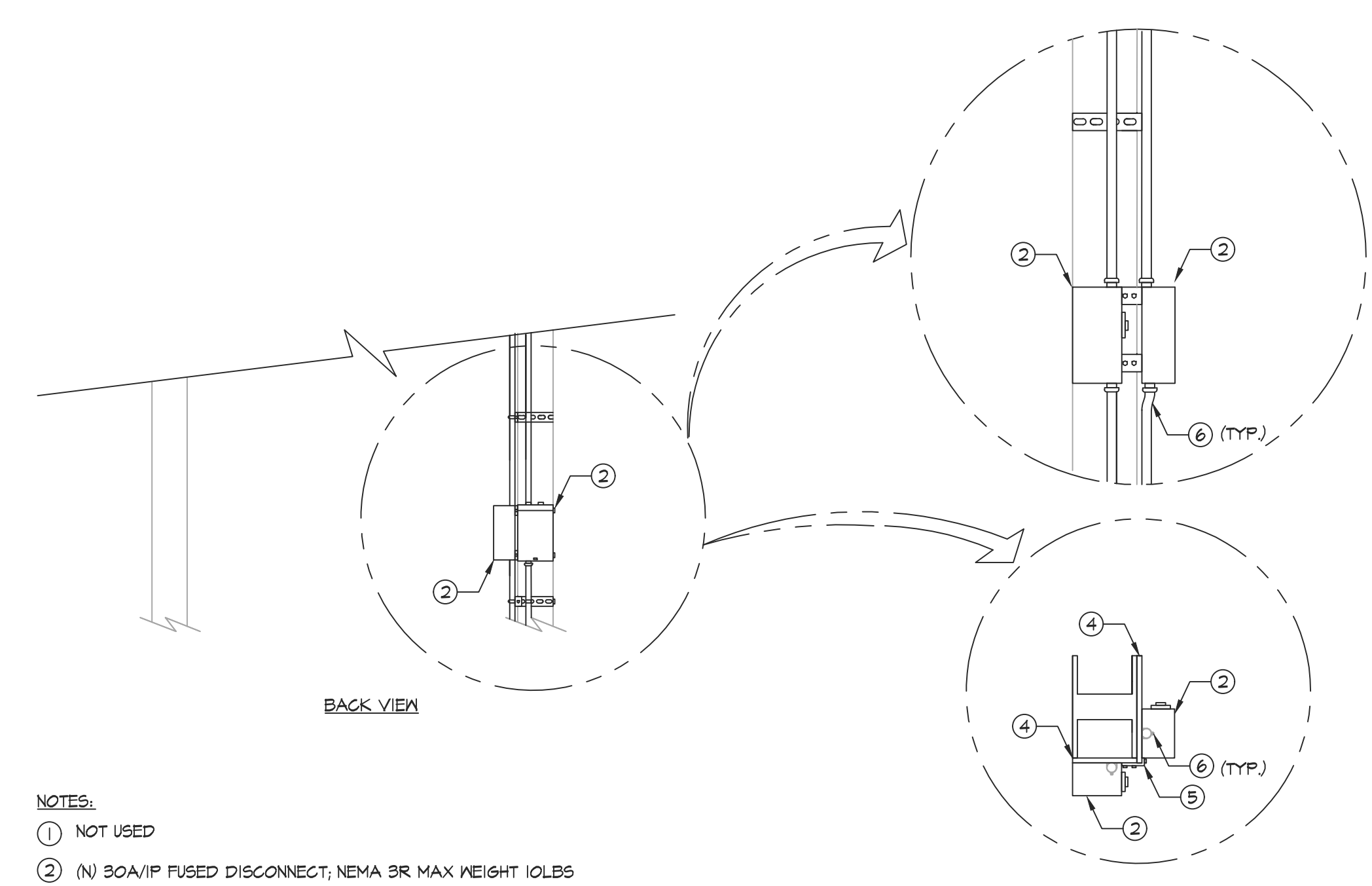
- NOTE:**
- 1. FOR WOOD STUD WALL: USE 3/8" LAG BOLT WITH MIN. 3/4" EMBEDMENT INTO STUDS. (ONE AT EACH END OF BRACKET)
  - 2. FOR CONCRETE WALL: 1/2" HILTI KWIK-BOLT T22 STAINLESS STEEL ANCHOR (ICC ESR-4266) WITH MINIMUM EMBEDMENT OF 3-5/8" IN 4" DEEP HOLE. 1/2" ANCHORS SHALL BE TORQUE-TESTED TO 40 FT-LBS, WHICH MUST BE ATTAINED WITHIN ONE-HALF TURN OF NUT AFTER FIRM CONTACT WITH ANCHOR WASHER. INSTALL ANCHOR PER CGS (HICAS), AND RECOMMENDATIONS IN MANUFACTURER'S ESR REPORT. ANCHOR INSTALLATIONS REQUIRE SPECIAL INSPECTION. (TYPICAL OF (4) PER SECTION)

**2 UNDERGROUND CONDUIT RISER DETAIL**  
E7.3 NOT TO SCALE



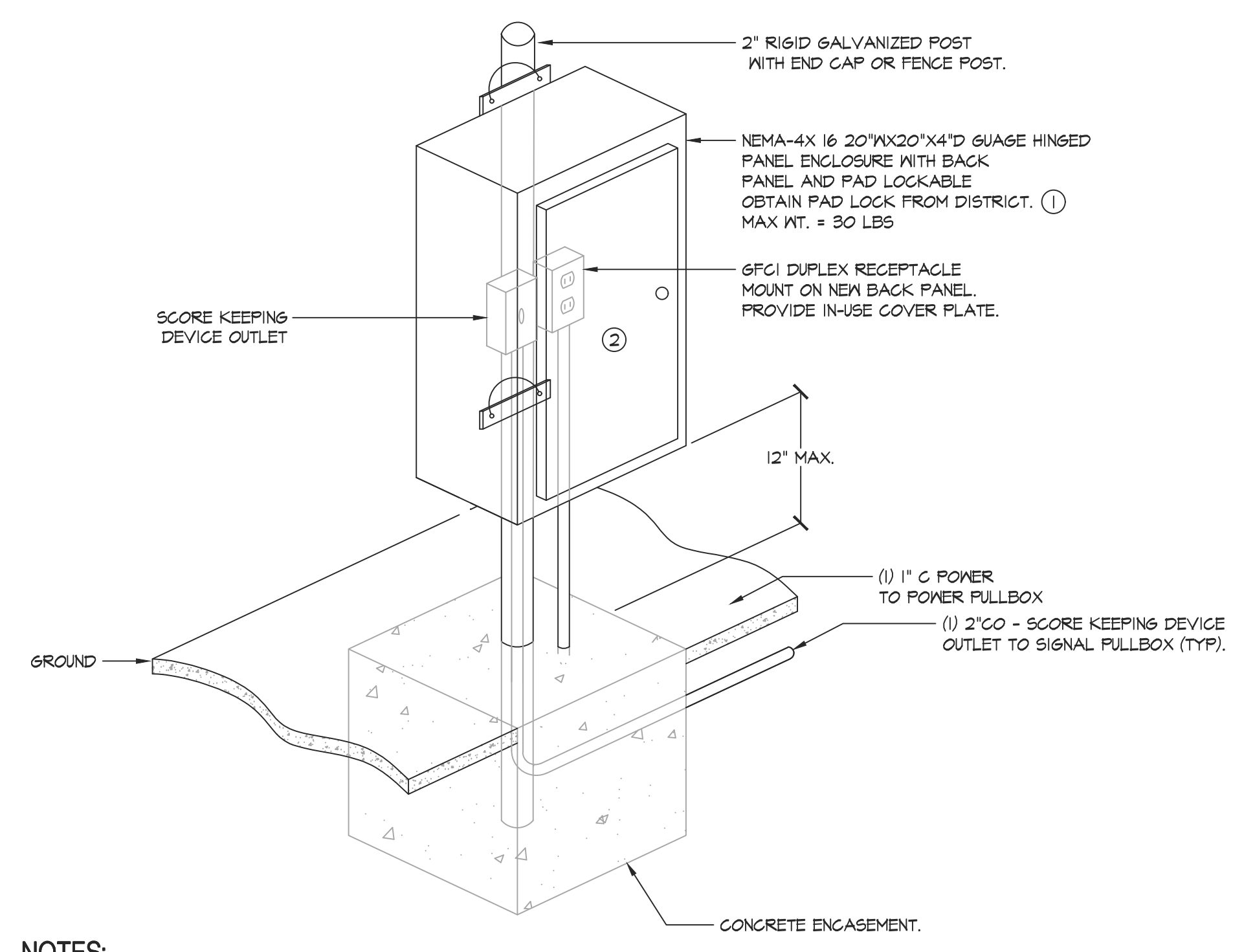
NOTE: PER U.L. FIRE RESISTANCE DIRECTORY SYSTEM M1002

**3 CONDUIT WALL PENETRATION DETAIL**  
E7.3 NOT TO SCALE



- NOTES:**
- ① NOT USED
  - ② (N) BOA/IF FUSED DISCONNECT, NEMA BR MAX WEIGHT 10LBS
  - ③ NOT USED
  - ④ (N) UNISTRUT MOUNTED ON H-BEAM
  - ⑤ (N) 3 HOLE FLUSH FITTING L - BRACKET
  - ⑥ (N) POWER CONDUIT

**4 SCOREBOARD DISCONNECT PANEL MOUNTING**  
E7.3 NOT TO SCALE



- NOTES:**
- ① PULL CAN SHALL BE PROVIDED WITH SEPARATORS TO DIVIDE POWER & SIGNAL. PROVIDE AS REQUIRED TO COMPLY WITH N.E.C. NEMA-4X PULL CAN SHALL BE APPROVED U.L. LISTED.
  - ② PROVIDE ENGRAVED NAME PLATE. IDENTIFY AS SCOREBOARD CONTROL. NAME PLATE SHALL BE PROVIDED PER SPECIFICATIONS.

**5 METAL ENCLOSURE DETAIL**  
E7.3 NOT TO SCALE



**ELECTRICAL DETAILS**

**PROJECT NAME**  
JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS

**PROJECT ADDRESS**  
6715 GLORIA DRIVE  
SACRAMENTO, CA 95831

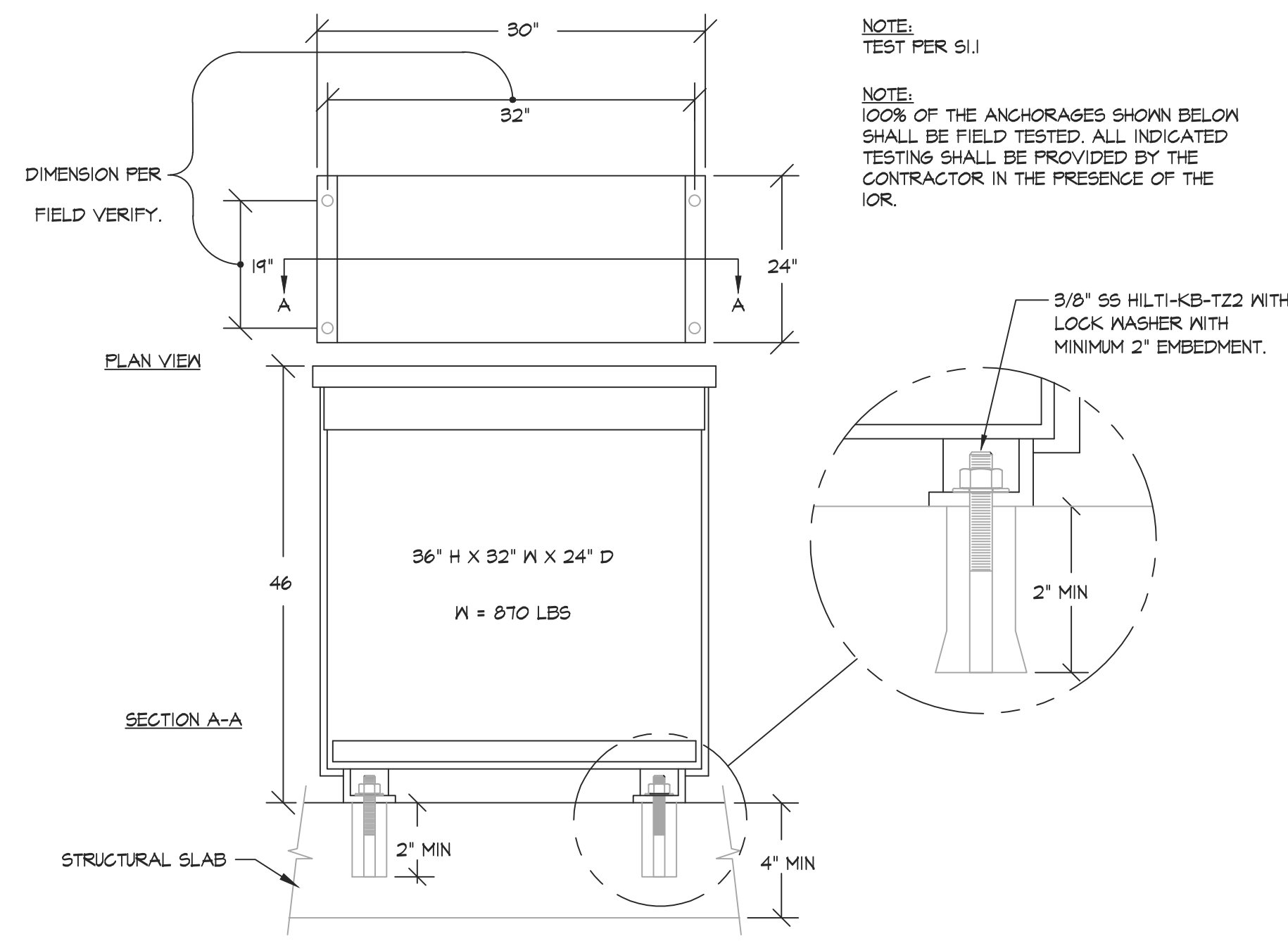
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100% SUBMITTAL	10/25/23

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PROJ. NO. 2304200	
SHEET NO. E7.3	

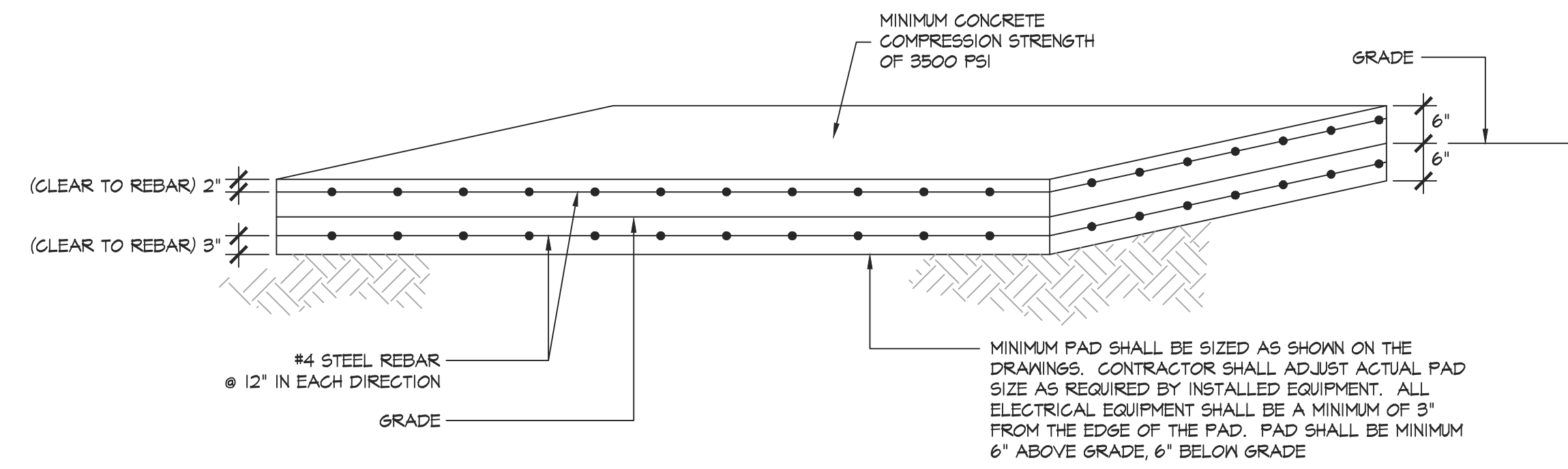
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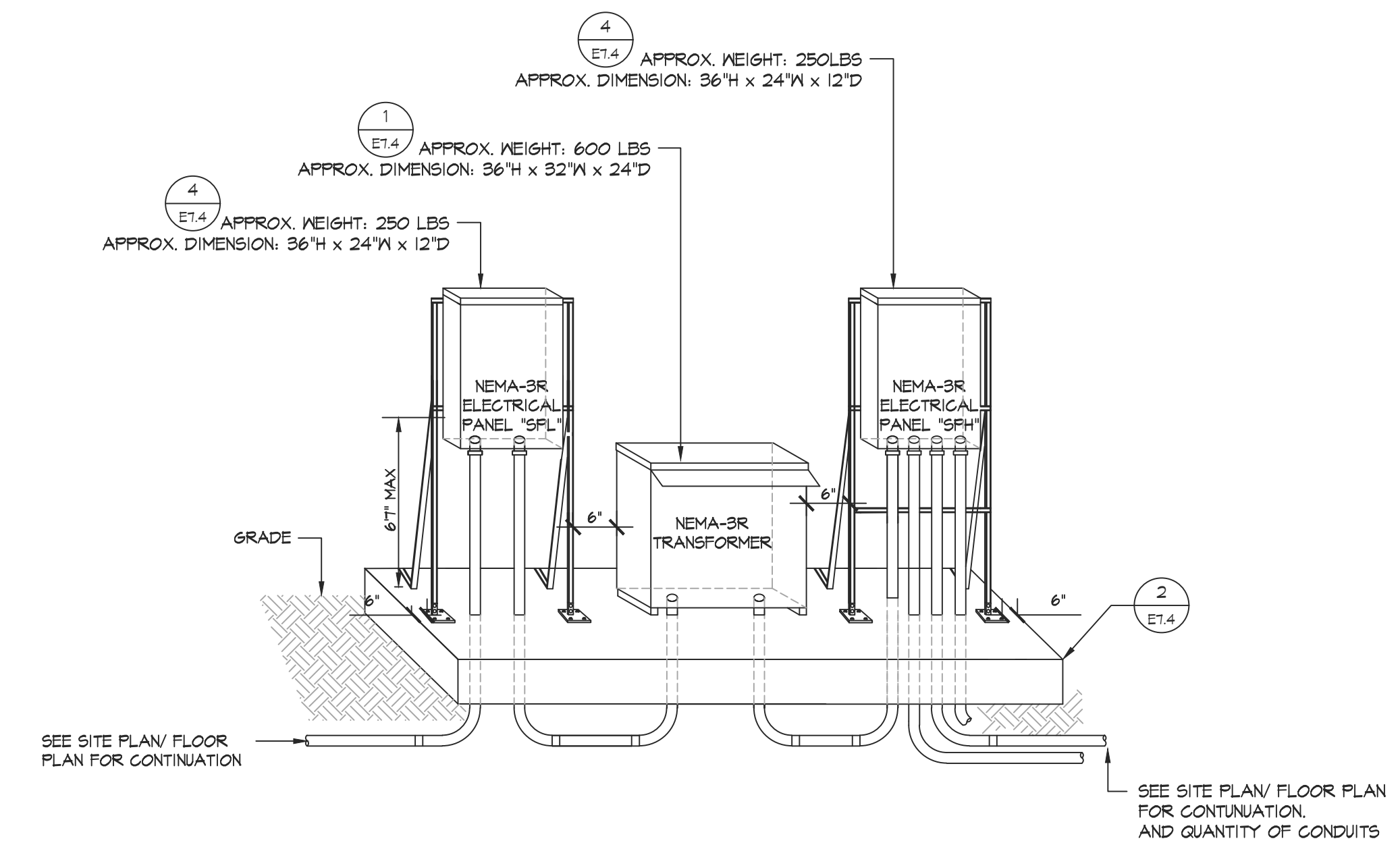
**DISTRIBUTION TRANSFORMER INSTALLATION DETAIL**

1  
E7.4 NOT TO SCALE



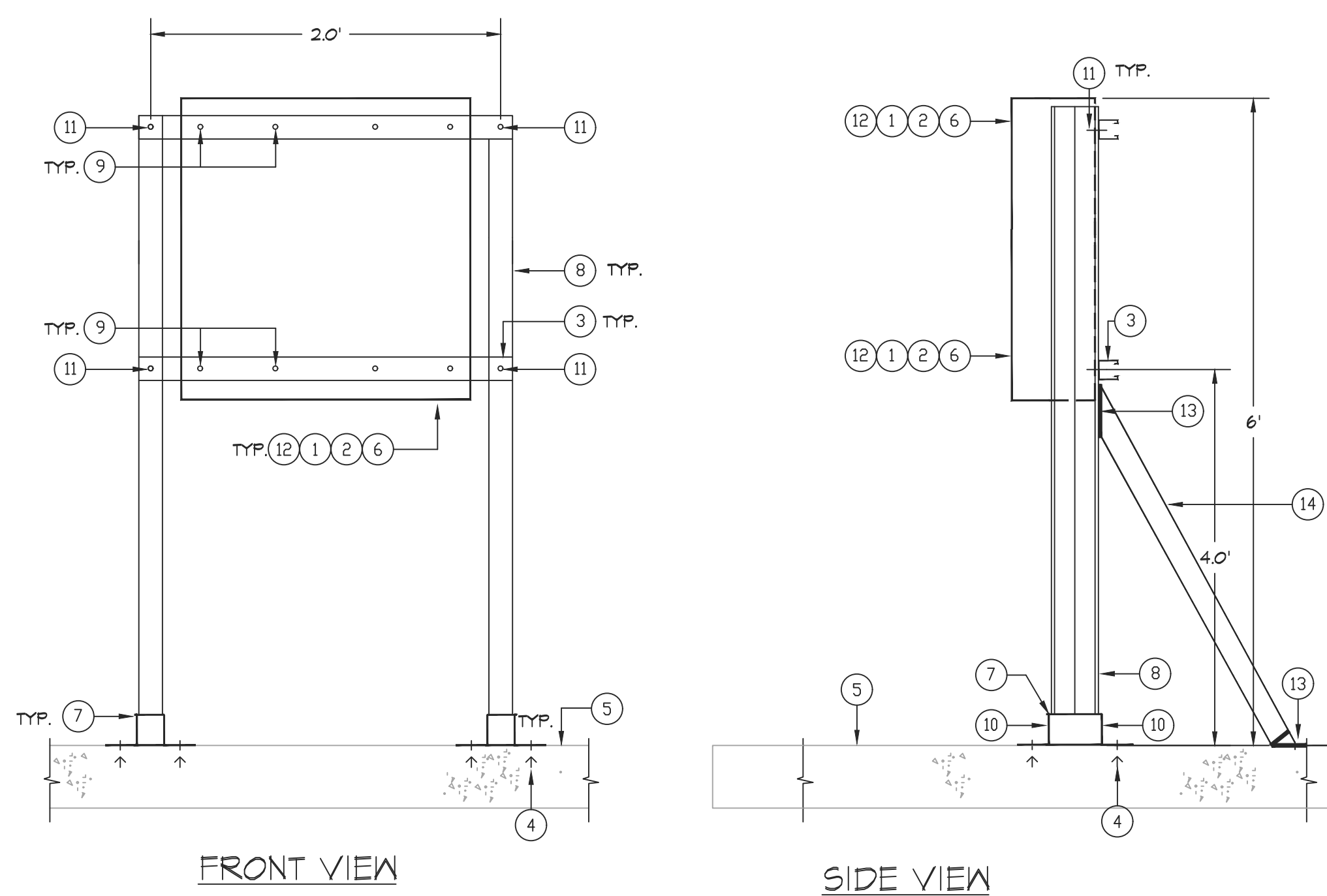
**CONCRETE ELECTRICAL EQUIPMENT PAD**

2  
E7.4 NOT TO SCALE



**NEMA 3R ELECTRICAL PANEL / TRANSFORMER / BREAKER ELEVATION DETAIL**

3  
E7.4 NOT TO SCALE



**ENCLOSED CIRCUIT BREAKER AND PANEL INSTALLATION ON UNISTRUT DETAIL**

4  
E7.4 SCALE: NOT TO SCALE

- 1 ENCLOSED PANELBOARD (MAX WEIGHT 250 LBS)
- 2 TYPE NEMA 3R ENCLOSURE
- 3 PROVIDE UNISTRUT FLOOR SUPPORT P207BAG0 POST BASE
- 4 PROVIDE STAINLESS STEEL 1/2"Ø x 2-3/8" MINIMUM EMBEDMENT KLIK BOLT T22 WEDGE ANCHOR (1CC-ES-ESR 4266), IN MINIMUM 2-5/8" DEEP HOLE. (4) ANCHOR BOLTS PER POST BASE.
- 5 CONCRETE SLAB.
- 6 120/208V PANEL APPROX. DIMENSIONS OF ENCLOSURE 36" H x 24" W x 12" D
- 7 PROVIDE UNISTRUT FLOOR SUPPORT P207BAG0 POST BASE.
- 8 PROVIDE DOUBLE UNISTRUT FLOOR H5 MINIMUM 12 GA GALV STEEL.
- 9 PROVIDE HEX HEAD CAP SCREWS 3/8"Ø WITH HEX NUTS AND WASHERS. (4) CAP SCREWS ARE FOR ATTACHMENT OF PANEL TO REAR STRUTS.
- 10 PROVIDE (2) 1/2" GALV BOLTS FROM P207BAG0 POST BASE INTO VERTICAL UNISTRUT FLOOR. PROVIDE EACH BOLT WITH FLOOR NUT INSIDE STRUT. TYPICAL FOR BOTH P207BA POST BASE.
- 11 PROVIDE 1/2"Ø GALV BOLT FASTENERS AT EACH INTERSECTION.
- 12 277/480V PANEL APPROX. DIMENSIONS OF ENCLOSURE 36" H x 24" W x 12" D
- 13 UNISTRUT BRACKET. PROVIDE P1843 WITH 1/2"Ø M.B. & 1/2"Ø HILTI - KB - T22 TO SLAB.
- 14 UNISTRUT SUPPORT. PROVIDE P1000 WITH 1/2"Ø M.B. EA END.



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JOB #0023098

KEY MAP

SHEET TITLE

**ELECTRICAL DETAILS**

PROJECT NAME

**JOHN F. KENNEDY  
HIGH SCHOOL  
BASEBALL, SOFTBALL,  
& TENNIS COURT  
IMPROVEMENTS**

PROJECT ADDRESS

**6715 GLORIA DRIVE  
SACRAMENTO, CA 95831**

SUBMITTAL	DATE
50% SUBMITTAL	08/20/23
100% SUBMITTAL	10/25/23

NO.	REVISIONS	DATE

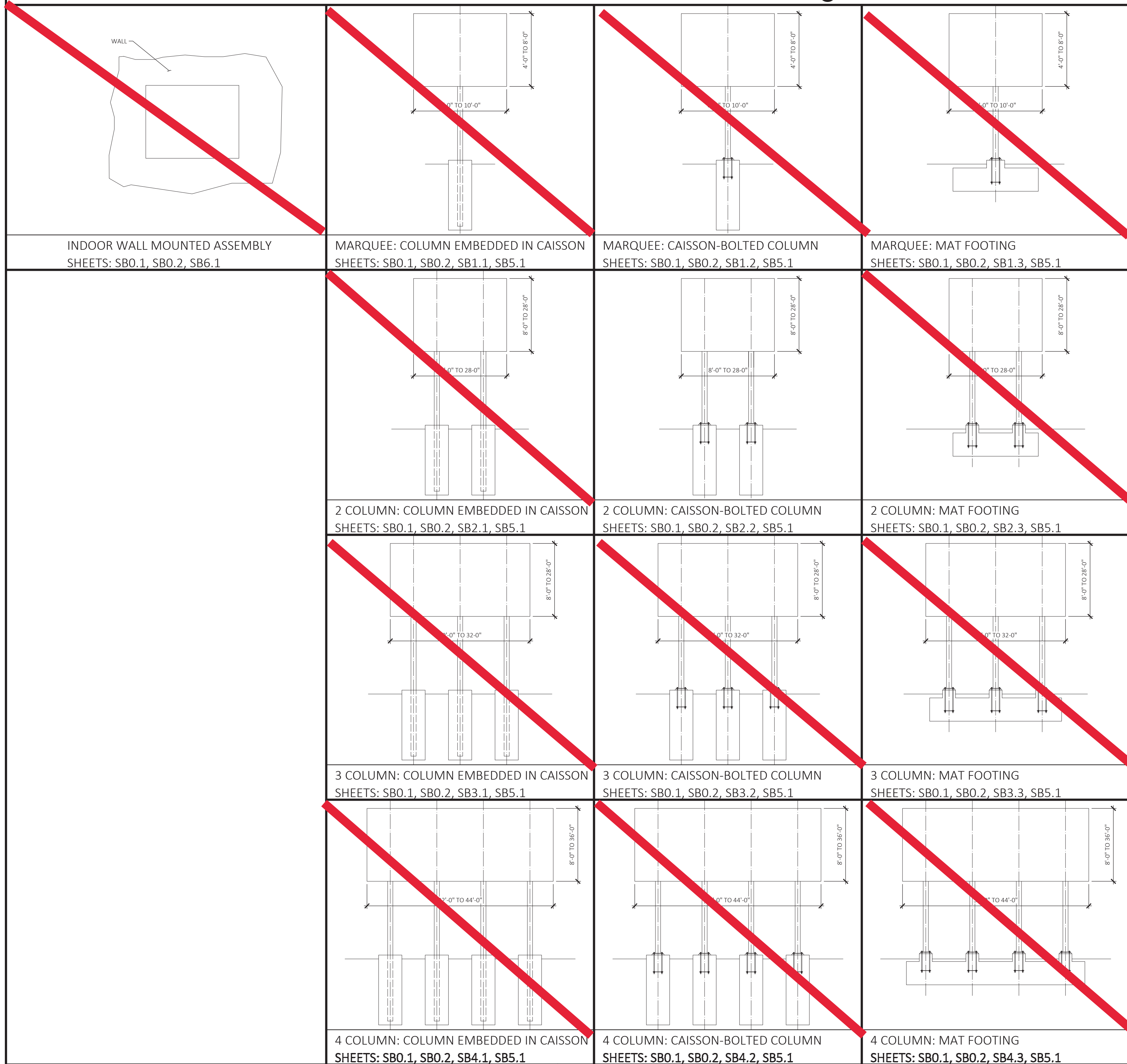
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PROJ. NO. 2304200

SHEET NO. **E7.4**

**ELECTRICAL DETAILS**





INDOOR WALL MOUNTED ASSEMBLY SHEETS: SB0.1, SB0.2, SB6.1

MARQUEE: COLUMN EMBEDDED IN CAISSON SHEETS: SB0.1, SB0.2, SB1.1, SB5.1

MARQUEE: CAISSON-BOLTED COLUMN SHEETS: SB0.1, SB0.2, SB1.2, SB5.1

MARQUEE: MAT FOOTING SHEETS: SB0.1, SB0.2, SB1.3, SB5.1

2 COLUMN: COLUMN EMBEDDED IN CAISSON SHEETS: SB0.1, SB0.2, SB2.1, SB5.1

2 COLUMN: CAISSON-BOLTED COLUMN SHEETS: SB0.1, SB0.2, SB2.2, SB5.1

2 COLUMN: MAT FOOTING SHEETS: SB0.1, SB0.2, SB2.3, SB5.1

3 COLUMN: COLUMN EMBEDDED IN CAISSON SHEETS: SB0.1, SB0.2, SB3.1, SB5.1

3 COLUMN: CAISSON-BOLTED COLUMN SHEETS: SB0.1, SB0.2, SB3.2, SB5.1

3 COLUMN: MAT FOOTING SHEETS: SB0.1, SB0.2, SB3.3, SB5.1

4 COLUMN: COLUMN EMBEDDED IN CAISSON SHEETS: SB0.1, SB0.2, SB4.1, SB5.1

4 COLUMN: CAISSON-BOLTED COLUMN SHEETS: SB0.1, SB0.2, SB4.2, SB5.1

4 COLUMN: MAT FOOTING SHEETS: SB0.1, SB0.2, SB4.3, SB5.1

### TABLE C - SITE SPECIFIC SEISMIC AND WIND VALUES

EARTHQUAKE DESIGN DATA	MAXIMUM	SITE SPECIFIC
Mapped Spectral Response Accelerations (Maximum)	$S_m = 3.73 \text{ g}$	$S_m = 0.620 \text{ g}$
Site Class	$S_s = 1.0 \text{ g}$	$S_s = 0.266 \text{ g}$
Spectral Response Coefficients (Maximum)	$S_w = 2.49 \text{ g}$	$S_w = 0.539 \text{ g}$
Wind Design Data	Value	Value
Design Wind Speed (3-sec gust), $V_{ULT}$	100 mph	95 mph
Exposure Category	C	C

### TABLE B - STRUCTURAL DESIGN VALUES

All values reported are unfactored and strength level, unless noted otherwise

Gravity Design Data	Value
Dead Loads:	
Sign Dead Load	PER SCHEDULE
Snow Loads:	
Ground Snow Load, $P_g$ (Maximum)	30 psf
Deflection Criteria:	
Sign, Wind Load	H/240
Wind Design Data	Value
Design Wind Speed (3-sec gust), $V_{ULT}$	100 mph
Design Wind Speed (3-sec gust), $V_{EXP}$	77 mph
Risk Category	II
Exposure Category	C
Applicable Internal Pressure Coefficient	+0.18
Design Wind Pressure(s) for Components & Cladding (Not specifically designed by the Registered Design Professional, and to be modified by applicable factors per ASCE 7)	$q = 21.8 \text{ psf}$ K <sub>V</sub> VARIES
Earthquake Design Data	Value
Risk Category	II
Importance Factor, $I_e$	1.0
Mapped Spectral Response Accelerations (Maximum)	$S_m = 3.73 \text{ g}$ $S_s = 1.0 \text{ g}$
Site Class	A through E
Spectral Response Coefficients (Maximum)	$S_w = 2.49 \text{ g}$ $S_s = 1.0 \text{ g}$
Seismic Design Category	E
Analysis Procedure Used	Equivalent Lateral Force Procedure (ASCE 7, 12.8)
Basic Seismic-Force Resisting System	Non-Building Structure, ASCE 7-16 Chapter 15
Response Modification Factor, Signs and Billboards Table 15.4-2	R = 3.0
Seismic Response Coefficient	C = 0.83
Design Base Shear	$V = C_s W_p$
Flood Design	
When the scoreboard is located in a flood zone other than Zone X, a letter stamped and signed from a Geotechnical Engineer is needed to validate allowable soil values specified in the PC are still applicable.	
Geotechnical Design Data	Value
Geotechnical Design Based on:	
2022 California Building Code, Chapter 18A, Table 1806.A.2 (Class 5 Material)	
Allowable Soil Bearing Pressure (DL + LL)	1,500 psf
Design Passive Pressure, $P_p$ (Tabular value has been increased per CBC Section 1806A.3.4 for pier design)	100 pcf
Design Skin Friction, $f_s$	100 psf

### TABLE D - SITE FLOOD ZONE

THIS SECTION NOT REQUIRED IF SITE IS IN FLOOD ZONE X

Geotechnical Engineer:	Not Required
Letter Dated:	Not Required

### TABLE A - SCOREBOARD ASSEMBLY WORKSHEET (1)

Nevco Part No. or Description	Part Height [ft.]	Part Width [ft.]	Part Weight [lb]
1608	6'0"	18'0"	320
ADO 18-3	3'0"	18'0"	120
Future ADO 18-3	3'0"	18'0"	120
<b>Total</b>	<b>12'0"</b>	<b>18'0"</b>	<b>560</b>
TOTAL ASSEMBLY DIMENSIONS & WEIGHT (2)			
Total Assembly Height =	12 ft. 0 in.		
Total Assembly Width =	18 ft. 0 in.		
Total Assembly Weight =			560 lbs.
Distance from Finish Grade to Bottom of Sign =	10 ft. 0 in.	Total Height = Total Assembly Height + Distance from Finish Grade to Bottom of Sign =	22 ft. 0 in.
SCOREBOARD ASSEMBLY FOOTNOTES			
1. Verify part number, dimensions, and weight with Nevco			
2. See Step 3 of Scoreboard Assembly Worksheet Instructions			

### SCOREBOARD ASSEMBLY WORKSHEET (TABLE A, C & D) INSTRUCTIONS

STEP 1: DETERMINE DESIRED SCOREBOARD ASSEMBLY. FILL OUT SCOREBOARD ASSEMBLY TABLE (TABLE A BELOW). PROVIDE NEVCO PART NUMBERS, PART HEIGHT, PART WIDTH, AND PART WEIGHTS.

STEP 2: DETERMINE TOTAL ASSEMBLY HEIGHT, WIDTH, AND WEIGHT, TABLE A

STEP 3: BASED ON TOTAL ASSEMBLY WIDTH, DETERMINE THE NUMBER OF REQUIRED COLUMNS. SEE SHEETS SB1.X FOR 1 COLUMN ASSEMBLY OPTIONS, SB2.X FOR 2 COLUMN ASSEMBLY OPTIONS, SB3.X FOR 3 COLUMN ASSEMBLY OPTIONS, SB4.X FOR 4 COLUMN ASSEMBLY OPTIONS, SB6.1 FOR WALL MOUNTED ASSEMBLY OPTIONS (SKIP STEPS 4, 5, & 7)

STEP 4: PICK FOUNDATION TYPE (CAISSON WITH EMBEDDED COLUMN, CAISSON WITH BOLTED COLUMN, OR MAT FOOTING). MARK APPLICABLE SHEET ON SHEET INDEX, SB0.1

STEP 5: MARK APPLICABLE CHECK BOX FOR SCOREBOARD SIZE ON DETAIL 'A' OF SELECTED COLUMN/FOUNDATION OPTION (SHEETS SB1.X, SB2.X, SB3.X OR SB4.X)

STEP 6: FILL IN SITE SPECIFIC SEISMIC AND WIND VALUES TABLE C ON SB0.1

STEP 7: FILL IN SITE SPECIFIC FLOOD ZONE AS REQUIRED, TABLE D ON SB0.1

STEP 8: VERIFY ALL APPLICABLE SHEETS ARE MARKED ON SHEET INDEX, SB0.1. INCLUDE ONLY MARKED SHEETS AS PART OF DSA SUBMITTAL

### SITE SPECIFIC SUBMITTAL REQUIREMENTS

SEE DSA POLICY PL 07-02 FOR ADDITIONAL INSTRUCTIONS REGARDING USE AND APPLICATION OF THIS PRE-CHECK DOCUMENT. ALL SITE SPECIFIC SUBMITTALS SHALL INCLUDE:

- COMPLETED DSA 1 APPLICATION, DSA3, DSA 103, AND FILING FEE AND COPY OF THE PRE-CHECK DOCUMENT WITH APPLICABLE DESIGN OPTION MARKED ON THE MARQUEE, TWO COLUMN, THREE COLUMN, FOUR COLUMN, OR WALL ASSEMBLY SCHEDULES.
- SITE PLAN OF FACILITY IDENTIFYING ALL STRUCTURES BY DSA APPLICATION NUMBER. LOCATION OF SCOREBOARD SHALL BE IDENTIFIED. ELECTRICAL PANEL SERVING THE SCOREBOARD SHALL BE LOCATED AND IDENTIFIED.
- WHERE WIRELESS CONTROLLERS ARE NOT SPECIFIED, AN ACCESSIBLE PATH OF TRAVEL AND ACCESSIBLE SEATING FOR THE SCOREBOARD OPERATOR SHALL BE IDENTIFIED AND PROVIDED.
- PROVIDE AN ELEVATION OF PROPOSED SCOREBOARD IDENTIFYING ALL INSTALLED DISPLAY COMPONENTS, SIGNAGE, TRUSSES, AND ADDITIONAL COMPONENTS IN THE PRE-CHECK DOCUMENT. ALL ELEMENT WEIGHTS SHALL BE SPECIFIED.
- THE APPLICABLE SHEETS SHALL BE IDENTIFIED BY MARKING APPROPRIATE CHECK BOX ON THIS SHEET.
- THE APPLICABLE CONFIGURATION SHALL BE IDENTIFIED BY MARKING APPROPRIATE CHECK BOX ON THE 'A' DETAILS ON THE APPLICABLE SHEET.
- PROVIDE CUT SHEETS OF THE BOARDS, BOXES, AND EQUIPMENT TO BE MOUNTED ON THE STRUCTURE. CUT SHEETS SHALL INCLUDE WEIGHTS AND DIMENSIONS
- SITE SPECIFIC SEISMIC DESIGN CRITERIA SHALL BE PROVIDED IN THE DRAWINGS.
- SITE SPECIFIC BASIC DESIGN WINDSPEED AND SITE EXPOSURE SHALL BE PROVIDED ON THE DRAWINGS, SEE TABLE C.
- STEEL COATING SPECIFICATIONS FOR WEATHER PROTECTION IF DIFFERENT THAN NOTED ON SB0.3
- A GEOHAZARD REPORT IS NOT REQUIRED PER IR A-4.13. IF A SCOREBOARD IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED BY A GEOTECHNICAL ENGINEER IS REQUIRED VALIDATING THE ALLOWABLE SOIL VALUES, PROVIDE INFORMATION IN TABLE D.
- PROVIDE A SITE SPECIFIC DESIGN FOR STRUCTURES THAT DO NOT MEET THE MINIMUM SETBACK REQUIREMENTS.
- PROVIDE A SITE SPECIFIC DESIGN FOR STRUCTURES LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F.
- FOR WALL MOUNTED ASSEMBLIES (SB6.1), STRUCTURAL ANALYSIS AND JUSTIFICATION THAT THE WALL FRAMING IS CAPABLE OF SUPPORTING THE ASSEMBLY FOR VERTICAL AND LATERAL LOADS.

CHECK ALL THAT APPLY	SHEET INDEX
<input checked="" type="checkbox"/> (REQ'D)	SB0.1 COVER SHEET
<input checked="" type="checkbox"/> (REQ'D)	SB0.2 STRUCTURAL NOTES
<input type="checkbox"/>	<del>SB0.3 EXAMPLE DSA 103 TESTING AND INSPECTIONS</del>
<input type="checkbox"/>	<del>SB1.1 MARQUEE CAISSON - EMBEDDED</del>
<input type="checkbox"/>	<del>SB1.2 MARQUEE CAISSON - BOLTED</del>
<input type="checkbox"/>	<del>SB1.3 MARQUEE MAT FOOTING</del>
<input type="checkbox"/>	<del>SB2.1 TWO COLUMN CAISSON - EMBEDDED</del>
<input checked="" type="checkbox"/>	SB2.2 TWO COLUMN CAISSON - BOLTED
<input type="checkbox"/>	<del>SB2.3 TWO COLUMN MAT FOOTING</del>
<input type="checkbox"/>	<del>SB3.1 THREE COLUMN CAISSON - EMBEDDED</del>
<input type="checkbox"/>	<del>SB3.2 THREE COLUMN CAISSON - BOLTED</del>
<input type="checkbox"/>	<del>SB3.3 THREE COLUMN MAT FOOTING</del>
<input type="checkbox"/>	<del>SB4.1 FOUR COLUMN CAISSON - EMBEDDED</del>
<input type="checkbox"/>	<del>SB4.2 FOUR COLUMN CAISSON - BOLTED</del>
<input type="checkbox"/>	<del>SB4.3 FOUR COLUMN MAT FOOTING</del>
<input checked="" type="checkbox"/>	SB5.1 ATTACHMENT DETAILS
<input type="checkbox"/>	<del>SB5.2 OPTIONAL SCOREBOARD FEATURE ATTACHMENT DETAILS</del>
<input type="checkbox"/>	<del>SB5.3 DECORATIVE ALUMINUM TRUSS ATTACHMENT DETAILS</del>
<input type="checkbox"/>	<del>SB5.4 DECORATIVE ALUMINUM TRUSS ATTACHMENT DETAILS &amp; 10mm VIDEO BOARD</del>
<input type="checkbox"/>	<del>SB6.1 INDOOR WALL MOUNTED SCOREBOARD</del>

### CODE INFORMATION

2022 CALIFORNIA BUILDING STANDARDS CODE (TITLE 24, CCR):

2022 ADMINISTRATIVE CODE, PART 1, TITLE 24 CODE OF REGULATIONS (CCR)  
 2022 CALIFORNIA BUILDING CODE VOLUMES 1 & 2, PART 2, TITLE 24 CCR  
 2022 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24 CCR  
 2022 CALIFORNIA MECHANICAL CODE, PART 4, TITLE 24 CCR  
 2022 CALIFORNIA PLUMBING CODE, PART 5, TITLE 24 CCR  
 2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR  
 2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 CCR  
 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 CCR  
 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR

REFERENCED CODE SECTIONS FOR APPLICABLE STANDARDS:  
 2022 CALIFORNIA BUILDING CODE, CHAPTER 35  
 2022 CALIFORNIA FIRE CODE, CHAPTER 80

### GENERAL NOTES AND MATERIAL SPECIFICATIONS

#### GENERAL REQUIREMENTS

- THE ARCHITECT OR PROFESSIONAL ENGINEER IN GENERAL RESPONSIBLE CHARGE SHALL SIGN AND SEAL ALL DRAWINGS AND SPECIFICATIONS PER TITLE 24, PART 1, SECTIONS 4-316(E) AND 4-317 (H).
- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA, OR CONSTRUCTION CHANGE DOCUMENTS APPROVED BY THE DIVISION OF THE STATE ARCHITECT (DSA), AS REQUIRED BY TITLE 24, PART 1, SECTION 4-338.
- THE DISTRICT SHALL EMPLOY A CLASS 2 PROJECT INSPECTOR WHEN OVERALL STRUCTURE HEIGHT IS 35 FEET OR GREATER, OTHERWISE A CLASS 3 PROJECT INSPECTOR MAY BE USED. THE PROJECT INSPECTOR SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK, AND SHALL SUBMIT VERIFIED REPORTS ON A DSA-6 FORM. THE DUTIES OF THE PROJECT INSPECTION ARE DEFINED IN TITLE 24, PART 1, SECTION 4-342.
- ALL SCOREBOARD CONTROLS SHALL BE FULLY ACCESSIBLE VIA WIRELESS CONTROL OR COMPLETE DESIGN SHALL BE DEMONSTRATED IN THE SITE-SPECIFIC APPLICATION.
- ALL ASSEMBLIES SHALL HAVE ELECTRICAL DISCONNECT PER CEC 600.6 AND BE ELECTRICALLY GROUNDED PER CEC 600.7, SEE DETAIL B/SB5.1
- IN FLOOD ZONES, LOCATION OF ELECTRICAL ELEMENTS SHALL CONFORM TO ASCE 24, SECTION 7.2 PER DSA PR-14-01 SECTION 1.2.1.
- SEE PAGE, SB0.2, FOR ALL MATERIAL SPECIFICATIONS AND NOTES.
- PROJECT DESIGN PROFESSIONAL OF RECORD IS RESPONSIBLE FOR PREPARATION OF THE PROJECT SPECIFIC DSA 103 AND IS RESPONSIBLE FOR ALL SHOP DRAWING AND SUBMITTAL REVIEWS. SEE SB0.3 FOR EXAMPLE DSA 103

PROFESSIONAL ENGINEER  
 STATE OF CALIFORNIA  
 No. 5405  
 DATE SIGNED: 08.09.2023

301 East Harris Avenue, Greenville, Illinois 62246  
 Phone: (618) 664-0960  
 www.nevco.com

APPROVED  
 DIV. OF THE STATE ARCHITECT  
 APP: 04-122317 PC  
 REVIEWED FOR:  
 SS  FL  ACS  CG   
 DATE: 09/20/2023

PRE-CHECK (PC) DOCUMENT  
 CODE: 2022

A separate project application for construction is required.

**JOHN F KENNEDY HS,  
 SCOREBOARD ASSEMBLY**

COVER SHEET

BHEET INFORMATION

DATE: 08.09.2023

DRAWN: JMK

CHECKED: MEP

SSG JOB #: S23109

SHEET: SB0.1



## STRUCTURAL NOTES

### GENERAL NOTES

- The following notes, typical details and schedules shall apply to all phases of this project unless otherwise shown or noted.
- Specific notes and details shall take precedence over general notes and typical details.
- All materials and workmanship shall conform to the minimum standards of the 2022 edition Title 24 of the California Building Code (CBC) and such other regulating agencies exercising authority over any portion of the work. The contractor shall have a current copy of the CBC on the job site.
- The "Contract or Construction Documents" shall consist of these notes, details, schedules, plans, and drawings.
- All specifications, including but not limited to materials and products, shall be those put forth in the "Contract or Construction Documents". No substitutions shall be permitted to be used or assumed to be used in the bidding or construction process without written approval by the Structural Engineer of Record.
- The contractor shall examine the "Contract or Construction Documents" and shall notify the Architect or Structural Engineer of Record of any discrepancies he may find before proceeding with the work.
- All information on existing conditions shown on drawings are based on best present knowledge available, but without guarantee of accuracy. The Contractor shall verify and be responsible for all dimensions and conditions at the site and shall notify the Architect or Structural Engineer of Record of any discrepancies between actual site conditions and information shown on or in the "Contract or Construction Documents" before proceeding with work.
- The Contractor shall immediately notify the Architect or Structural Engineer of Record of any condition which in his opinion might endanger the stability of the structure or cause distress of the structure.
- All work shall conform to the best practice prevailing in the various trades comprising work. The Contractor shall be responsible for coordinating the work of all trades.
- These "Contract or Construction Documents" represent the finished structure, and do not indicate the method of construction. The Contractor shall supervise and direct the work and shall be solely responsible for construction means, methods, techniques, sequences and procedures.
- Inspection and approval for fabricator's shops used for fabrication of structural load bearing members, components, materials or assemblies shall conform to CBC Section 1704A.2.5.
  - Labeling (as required or specified) shall be provided in accordance with CBC Section 1703A.5.
  - Evaluation and follow-up inspection services (as required or specified), shall conform to CBC Section 1703A.6.
- The Contractor shall provide temporary bracing and shoring for all structural members as required for structural stability of the structure during all phases of construction.
- The Contractor shall take all steps necessary to ensure proper alignment of the structure after the installation of all structural and finish materials. This shall include any necessary regrading of the structure to determine final position of the completed work.
- Observation visits to the project site by field representatives of Architect and/or Structural Engineer of Record (support services) shall not include inspections of safety or protective measures, nor construction procedures, techniques or methods. Any support services performed by Architect or Structural Engineer of Record during any phase of construction, shall be distinguished from continuous and detailed inspection services (as required by any regulating governmental agency, e.g. the Authority Having Jurisdiction) provided by others. These support services, whether of material or work, are performed solely for the purpose of assisting in quality control and in achieving conformance with contract documents, but do not guarantee Contractor's performance and shall not be construed as supervision of construction.
- These notes, details, drawings and specifications (Contract or Construction Documents) do not carry necessary provisions for construction safety. These documents and all phases of construction hereby contemplated are to be governed, at all times, by applicable provisions of the current California Occupational Safety and Health Act.
- Where any conflict occurs between the requirements of federal, state and local laws, codes, ordinances, rules and regulations, the most stringent shall govern.
- Written dimensions shall have precedence over scaled dimensions.
- Drawings (notes, schedules, details and plans) shall have precedence over Structural Calculations.
- In the event that certain features of the construction are not fully shown on the drawings or called for in the General Notes or Specifications, then their construction shall be of the same character as for similar conditions that are shown or called for.
- ASTM designation and all standards refer to the latest amendments.
- These structural "Contract or Construction Documents" shall not be modified without prior written approval of the Structural Engineer of Record.
- Only structural working drawings approved by the Division of the State Architect are permitted to be used for construction on this project. All other drawings or documents are obsolete and are not permitted on the job site, nor shall they be used for any construction purposes. Contractors using unapproved drawings or documents are solely responsible for all work not performed in accordance with the "approved" drawings.
- A Division of the State Architect certified project inspector employed by the District (Owner) and approved by the Division of the State Architect shall provide continuous inspection of the work. The duties of the inspector are defined in Section 4-342, Part 1, Title 24 California Code of Regulations.

### FOUNDATION NOTES

- Basis: See Structural Design Values Chart, Sheet SB0.1 Table B
- Unexpected soil conditions: Allowable values and foundation design are based upon the minimum values provided in Table 1806A.2 of the 2022 California Building Code. See SB0.1 for values
- Excavate to required depths and dimensions (as indicated in drawings), cut square and smooth with firm level bottoms. Care shall be taken not to over-excavate foundation at lower-elevation and prevent disturbing of soils around higher elevation.
- Footings shall be poured in neat excavations, without side forms whenever possible.
- Carry all foundations to required depths into compacted fill or natural soil (as per Structural Plans and Details).
- All foundation excavations shall be inspected and approved by the Inspector of Record or Geotechnical Engineer prior to forming and placement of reinforcing or concrete.
- Foundations shall not be poured until all required reinforcing steel, sleeves, inserts, conduits, pipes, etc. and formwork is properly placed and inspected by the Authority having Jurisdiction.
- The sides and bottoms of excavations which are to have concrete contact must be moistened several times just prior to pouring upon them.
- De-water footings, as required, to maintain dry working conditions.

### REINFORCING STEEL

- All reinforcing steel shall be deformed intermediate grade bars conforming to ASTM A615, Grade 60 ( $f_y = 60$  ksi) unless noted otherwise.
- Reinforcing steel shall not be welded, unless specifically noted otherwise.
- To hold reinforcing bars in their true position and prevent displacement, standard tie and anchorage devices must be provided. Placing of reinforcement shall conform to ACI 318-19 Section 26.6.2.
- Shop drawings for fabrication of any reinforcing steel shall be approved by Contractor and submitted to Project Specific Architect or Project Specific Structural Engineer of Record, for their review, prior to fabrication.
- Refer to typical details for minimum splice length and minimum radius of bend of reinforcing steel.
- All reinforcing steel splices shall be staggered 24", unless specifically noted or detailed otherwise.
- All reinforcing bar bends shall be made cold.
- Fabrication, erection and placement of reinforcing steel shall conform to Concrete Reinforcing Steel Institute of Standard Practice.
- Reinforcing steel shall be clean of rust, grease or other material likely to impair bond.

### CONCRETE

- All concrete shall have a minimum ultimate compressive strength ( $f'_c$ ) as outlined below at 28 days. All concrete shall be regular weight (unless specifically noted otherwise).
  - Concrete for footings: 4,500 psi  $w/c = 0.45$  max.
- Maximum Fly Ash content shall be 15%, by weight, of total cementitious materials and shall conform to ASTM C618.
- All concrete work shall comply with CBC Chapter 19A and ACI 318-19 and latest edition of ACI Manual of Concrete Practice.
- Special Inspection (as required or specified) shall conform to CBC Chapter 17A.
- Cement shall be portland cement Type V and shall conform to ASTM C150.

- Aggregates shall conform to ASTM C33, provide aggregates from a single source.
- Water shall conform to ASTM C94 and be potable.
- Where not specifically detailed, the minimum concrete cover on reinforcing steel shall be:
  - Concrete cast against and permanently exposed to earth or weather: 3"
- All reinforcing steel, anchor bolts, dowels, inserts and any other hardware to be set in concrete shall be well secured in position prior to pouring of concrete.
- Vibrate all concrete as it is placed, with a mechanical vibrator operated by experienced personnel. The vibrator shall be used to consolidate the concrete, not transport it. Reinforcing and forms shall not be vibrated.
- Formwork design and removal shall conform to ACI 318-19 Section 26.11. Remove forms in accordance with the following minimum schedule:
  - Side forms of footings: Minimum 48 hours
  - Column and pier forms: 72 hours & 70% of design strength
- Concrete shall not free fall more than six feet. Use tremie, pump or other approved methods.
- Concrete shall be maintained in a moist condition for a minimum of 5 days after placement.
- The Contractor may use concrete admixtures as a construction means and methods to execute "Contract or Construction Documents". Use of admixture is solely the responsibility of the Contractor.
- Mix designs shall be prepared by an approved testing laboratory, signed by a licensed engineer and shall be submitted to the Project Specific Design Professional of Record for approval. SSG is not responsible for review or approval of site specific concrete mix design.
- Only one grade of concrete shall be allowed on project site at any one time
- Concrete strength shall be verified by standard cylinder tests (in accordance with CBC Section 1905A.1.16) made by an approved testing laboratory.
- Concrete placed when the air temperature has fallen to, or is expected to fall below 40° shall conform to ACI 318-19 Section 26.5.4, and ACI 306R-16.
- Concrete placed during hot weather shall conform to ACI 318-19 Section 26.5.5, and ACI 308R-14.
- Conduits and sleeves placed within structural concrete shall not be tied directly to structural reinforcement.
  - 1" concrete cover shall be maintained around reinforcement.
- No stakes shall be permitted within the footing section.
- Concrete shall reach minimum 75% design strength or cure for 3 days minimum prior to installation of steel columns and scoreboard components.

### DRILLED CAISSON/PIER AND GRADE BEAM NOTES

- Excavations for drilled caissons/pier shall be performed in compliance with local grading codes and ordinances as well as CBC Chapters 18A and 33A.
- Provide Special Inspection in accordance with CBC Section 1705A.8 and Table 1705A.8.
- Excavations for all drilled caissons/piers shall be approved by the Project Geotechnical Engineer or Project Special Inspector prior to placing of concrete.
- Reinforcement for drilled caissons/pier shall be approved by the Structural Engineer of Record prior to placing in caisson/pier excavation.
- De-water caisson/pier footings and building excavation as required to maintain dry working conditions.
- Caisson/piers are to be poured within 24 hours after completion of drilling operation. Shoring requirements shall be determined by contractor. Contractor shall provide fall protection and safety barriers at and near the drilled hole as required by OSHA and the Authority Having Jurisdiction.
- The Contractor shall be responsible for all shoring, bracing, etc. necessary to support cut and/or fill banks, and existing structures during excavation, and the forming and placement of concrete.
- Bottom of caissons/piers shall be thoroughly cleaned prior to placement of concrete.

### STRUCTURAL STEEL AND WELDING

- All structural steel construction shall conform to AISC 360-16 and AISC 341-16.
  - Fabrication of all structural steel shall be done in the shop of an approved fabricator. Inspection and approval for fabricator's shops used for fabrication of structural load bearing members, components, materials or assemblies shall conform to CBC Section 1704A.2.5.
- All structural steel shall conform to the following specifications:
  - Angles, channels, plates, bars, rounds, and other miscellaneous shapes: Shall conform to ASTM A36 and shall have a minimum yield stress ( $F_y$ ) of 36 ksi.
  - Wide-flange shapes: Shall conform to ASTM A992 and shall have a minimum yield stress ( $F_y$ ) of 50 ksi.
  - Structural tubes: Shall be ASTM A500, Grade C, and shall have a min. yield stress ( $F_y$ ) of 50ksi.
- All structural steel fasteners shall conform to the following specifications:
  - Bolts shall conform to ASTM A307
  - Anchor Bolts shall conform to ASTM F1554, Grade as noted in drawings
  - Carbon steel nuts shall conform to ASTM A563
  - Stainless steel nuts shall conform to ASTM F594.
  - Washers shall conform to ASTM F436
- Special Inspection shall be provided for all structural steel and welding, in accordance with CBC Chapter 17A.
- All structural steel shall be fabricated, erected and welded in accordance with AISC Specifications for Structural Steel Buildings (AISC 360-16) and Code of Standard Practice for Steel Buildings and Bridges (AISC 303-16).
- All welding shall be done by qualified and certified welders.
- Shop drawings for the fabrication of any structural steel shall be approved by the Contractor and submitted to Project Specific Architect or Project Specific Structural Engineer of Record for their review, prior to fabrication.
- No holes other than those specifically detailed shall be allowed through structural steel members. Burning of holes is not permitted.
- All welding shall conform to 'AWS D1.1' specifications for welding. (E-70XX Electrodes).
- Where fillet weld size is not indicated, use 'AWS' minimum size based on the thickness of the thinner part being welded, as specified in AISC Specifications for Structural Steel Buildings (AISC 360-10), Section J2.2.
- All butt welds to be complete joint penetration, unless specifically noted otherwise.
- Welder qualification requirements, welding procedure and welding electrodes for all structural steel (except structural sheet steel, see steel decking) shall conform to CBC Sections 1705A.2.1 and 2204A.1.
- Provide 3" minimum concrete cover around all structural steel below grade.
- Structural steel embedded into concrete shall be uncoated.
- Structural steel shall be hot-dip galvanized (minimum ASTM A123 or A153 Class D) or painted with zinc-rich primer, undercoat, and finish coat; or equivalent paint system.
- All exposed steel fasteners, including cast-in-place anchor bolts/rods, shall be stainless steel (Type 304 minimum), hot-dip galvanized (ASTM A153, Class D minimum or ASTM F2329), or protected with corrosion-preventative coating that demonstrated no more than 2% of red rust in minimum 1,000 hours of exposure in salt spray test per ASTM B117. Zinc plated fasteners do not comply with this requirement.

## ABBREVIATIONS

A.B.	Anchor Bolt	HORIZ.	Horizontal
ABV.	Above	HSS	Hollow Steel Section
ADJ.	Adjacent	HT.	Height
AHJ	Division of the State Architect	ICC	International Building Code
AISC	American Institute of Steel Construction	ICC	International Code Council
AOR	Architect of Record	ID	Inside Diameter
APPROX.	Approximately	IN.	Inch, Inches
ASCE	American Society of Civil Engineers	INT.	Interior
ARCH.	Architect, Architecture	ksi	Kips per Square Inch
ASTM	American Society of Testing and Materials	LL	Live Load
ATR	All Thread Rod	MAX.	Maximum
AWS	American Welding Society	MB	Machine Bolt
B.O.	Bottom of _____	MFR.	Manufactured, Manufacturer
BOT.	Bottom	MIN.	Minimum
b/t	Between	MPH	Miles per Hour
CAC	California Administrative Code	N/R	Not Required
CBC	California Building Code	N.T.S.	Not to Scale
CIP	Cast-in-place	o.c.	On Center
CJP	Complete Joint Penetration	o/v	Over
CL.	Centerline	OD	Outside Diameter
CLR.	Clear	OD	Outside Diameter
COL.	Column	PEN.	Penetration
CONC.	Concrete	PI.	Plate
CONN.	Connection	PIP	Partial Joint Penetration
CONST.	Construction	psi	Pounds per Square Inch
CONT.	Continue, Continuous	PSF	Pounds per Square Foot
Ø	Diameter	REBAR	Reinforcing Bar
DBL.	Double	REINF.	Reinforcement
DET.	Detail	REQD	Required
DI	Dead Load	S.F.	Square Feet
DSA	Division of State Architect	SHT.	Sheet
DWGS.	Drawings	SIM.	Similar
EA.	Each	SMS	Sheet Metal Screw
E.F.	Each Face	SQ.	Square
ELEC.	Electric, Electrical	STAGTD	Staggered
ELEV.	Elevation	STD.	Standard
EMBED.	Embedded, Embedment	STL	Steel
EOR	Engineer of Record	SEOR	Structural Engineer of Record
EQUIP.	Equipment	U.N.O.	Unless Noted Otherwise
E.S.	Each Side	T&B	Top and bottom
E.W.	Each Way	THR'D	Threaded
EXT.	Exterior	T.O.	Top of _____
		TYP.	Typical
FAB.	Fabricated		
FDN.	Foundation		
F.G.	Finish Grade		
F.O.	Face of _____	VERT.	Vertical
FRMG.	Framing	VIF	Verify in Field
FT.	Foot-Feet	w/	With
FTG.	Footing	w/c	Water/Cement Ratio
		WSS	Welded Steel Stud
GAL.	Gauge	WT.	Weight
GALV.	Galvanized		
GEOR	Geotechnical Engineer of Record		

### POST INSTALLED ANCHOR & TESTING

- All post-installed anchors are to be tension tested with the exception that torque testing is allowed if the anchors are specifically designed as torque controlled
- Test quantity of post-installed anchors as noted below:
 

Application	Quantity
Non-structural (Equipment Anchorage, etc.)	50%
Structural	100%
- Apply proof test loads to anchors without removing the nut if possible. If not, remove nut and install a threaded coupler to the same tightness of the original nut using a torque wrench and apply load.
- All tests shall be performed in the presence of the inspector.
- Reaction loads from test fixtures may be applied close to the anchor being tested, provided the anchor is not restrained from withdrawing or restricted from a concrete shear cone type failure mechanism.
- Test equipment is to be calibrated by an approved testing laboratory in accordance with standard recognized procedures.
- The following criteria apply for the acceptance of installed anchors:
  - Hydraulic ram method: anchors tested with a hydraulic jack or spring loaded devices shall maintain the test load for a minimum of 15 seconds and shall exhibit no discernible movement during the tension test, e.g. as evidenced by loosening of the washer under the nut.
  - Torque wrench method: anchors tested with a calibrated torque wrench must attain the manufacturer recommended torque within 1/2 turn of the nut.
    - Wedge or sleeve type: one-quarter turn of the nut from 3/8" sleeve anchor only.
    - Threaded type: one-quarter turn of the screw after initial seating of the screw head.
- If any anchor fails testing, test all anchors of the same type not previously tested until twenty consecutive anchors pass, then resume the initial test frequency. If the anchors are used for the support and bracing of non-structural components (pipe, duct or conduit), the twenty shall be only those anchors installed by the same trade.
- Test loads per ICC ESR, IAPMO, OR UES report
- When installing drilled-in anchors and/or powder driven pins in existing non-prestressed reinforced concrete, use care and caution to avoid cutting or damaging the existing reinforcing bars. When installing them into existing prestressed concrete (pre- or post-tensioned) locate the prestressed tendons by using a non-destructive method prior to installation. Exercise extreme care and caution to avoid cutting or damaging the tendons during installation. Maintain a minimum clearance of one inch between the reinforcement and the drilled-in anchor and/or pin.

### ANCHOR TORQUE TEST VALUES

Anchor Diameter	CONCRETE		MASONRY	
	HILTI KB TZ 2	SIMPSON STRONG BOLT 2	HILTI KB TZ 2	SIMPSON STRONG BOLT 2
3/8"	30 ft-lb	30 ft-lb	15 ft-lb	20 ft-lb
1/2"	50 ft-lb	60 ft-lb	25 ft-lb	35 ft-lb
5/8"	40 ft-lb	90 ft-lb	30 ft-lb	55 ft-lb
3/4"	110 ft-lb	150 ft-lb	50 ft-lb	100 ft-lb

If the manufacturer's recommended installation torque is less than the test torque noted in the table, the manufacturer's recommended installation torque should be used in lieu of the tabulated values.

See manufacturer's ESR report for Maximum Impact Wrench Torque Rating.

**NOTE: FOR TESTING & SPECIAL INSPECTIONS SEE FORM DSA 103 SUBMITTED SEPARATELY**

### EXAMPLE GRAPHICS

HIRAM JOHNSON HIGH SCHOOL, SACRAMENTO, CA

PROOF #58153C-PR

### PROOF INCLUDES:

- Model 1408-ETN Baseball Softball LED Scoreboard  
18W x 61" x 8"D  
Scoreboard Color: #73 Maroon  
Digit Color: White  
Electronic Team Name Color: White
- Non-Illuminated Sign  
18W x 3'H



### SIGNATURE OF APPROVAL

DATE

This rendering is for conceptual purposes only. It may not be to exact scale or specifications and should not be used for installation purposes. Every effort has been made to make it as accurate as possible. Beams and/or pilasters are for illustration only. Engineering specifications may require changes in the quantity, size and/or shape of beams and pilasters to meet installation requirements. Nevco assumes no obligations or liability regarding the viability or applicability of existing structures. THIS DRAWING IS THE PROPERTY OF NEVCO INC. AND SHALL NOT BE REPRODUCED, COPIED, SHARED OR DISTRIBUTED WITH ANYONE OTHER THAN THE INTENDED STAFF OR CLIENT OF THE PROPOSED PROJECT WITHOUT THE EXPRESSED PERMISSION OF NEVCO INC.

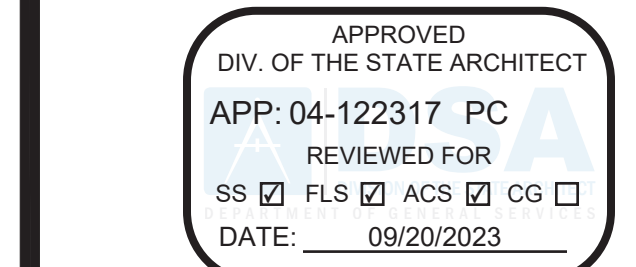
**NEVCO**  
INTEGRATED DISPLAY AND SCORING SOLUTIONS  
WWW.NEVCO.COM



PC SEOR SEAL DATE SIGNED: 08.09.2023

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THANK YOU FOR YOUR INTEREST IN NEVCO SCOREBOARD PRODUCTS

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Phone: (618) 664-0960  
www.nevco.com



DSA STAMP

PRE-CHECK (PC) DOCUMENT  
CODE: 2022  
A separate project application for construction is required.

**JOHN F. KENNEDY HS,  
SCOREBOARD ASSEMBLY**

**STRUCTURAL NOTES & SPECIAL INSPECTIONS**

SHEET INFORMATION

DATE: 08.09.2023

DRAWN: JMK

CHECKED: MEP

SSG JOB #: S23109

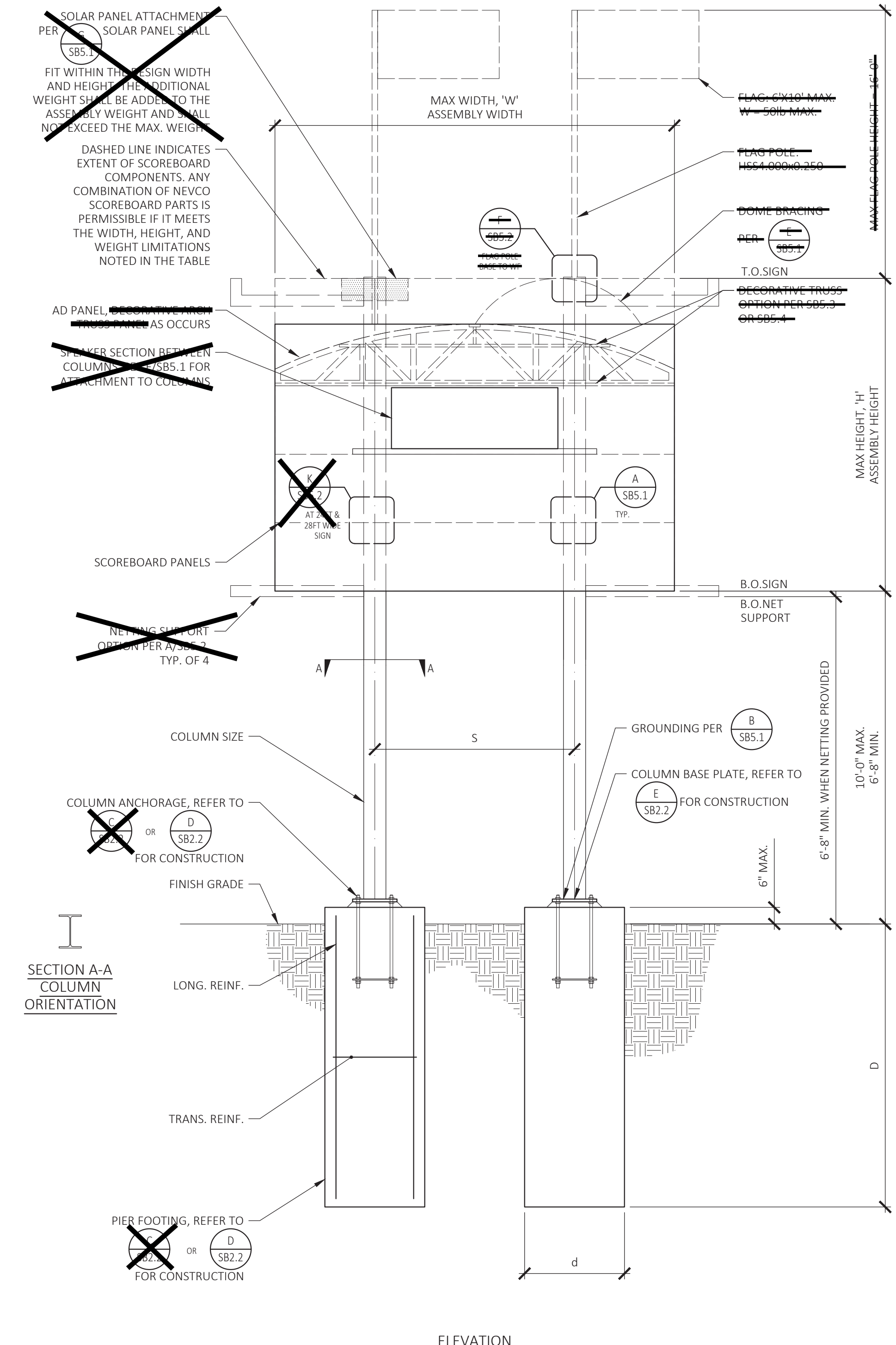
SHEET

**SB0.2**



TWO COLUMN ASSEMBLY																		
ASSEMBLY WIDTH, W	CHECK OPTION THIS APPLICATION	ASSEMBLY CRITERIA				PIER FOOTING CRITERIA (2)				BASE PLATE				ANCHOR RODS				
		MAX. WEIGHT	ASSEMBLY HEIGHT, H	COLUMN SPACING, S	COLUMN SIZE	PIER DIAMETER, d	DEPTH, D	LONG. REINF.	TRANS. REINF. (1)	THICKNESS, t	WIDTH, B	LENGTH, L	WELD	QUANTITY & DIAMETER	GRADE	EDGE DISTANCE, X	GROUT HEIGHT	EMBED
8'-0"		7,700 lbs.	≤ 8'-0"	8'-0"	W8x24	36"Ø	7'-0"	8-#8	#4 @ 42" o.c.	1 1/2"	20"	20"	3/8"	(4) - 1 1/2"	F1554-GR.36	2 1/2"	2"	48"
8'-0"		1,160 lbs.	≤ 12'-0"	8'-0"	W10x33	36"Ø	8'-0"	8-#8	#4 @ 42" o.c.	1 1/2"	20"	20"	3/8"	(4) - 1 1/2"	F1554-GR.36	2 1/2"	2"	48"
8'-0"		1,540 lbs.	≤ 16'-0"	8'-0"	W12x40	36"Ø	9'-0"	8-#8	#4 @ 42" o.c.	1 1/2"	20"	20"	3/8"	(4) - 1 1/2"	F1554-GR.55	2 1/2"	2"	48"
8'-0"		1,920 lbs.	≤ 20'-0"	8'-0"	W14x61	36"Ø	10'-0"	8-#8	#4 @ 42" o.c.	1 1/2"	20"	20"	3/8"	(4) - 1 1/2"	F1554-GR.55	2 1/2"	2"	48"
9'-0"		870 lbs.	≤ 8'-0"	8'-0"	W8x24	36"Ø	7'-3"	8-#8	#4 @ 42" o.c.	1"	20"	20"	3/8"	(4) - 1 1/2"	F1554-GR.36	2 1/2"	2"	48"
9'-0"		1,300 lbs.	≤ 12'-0"	8'-0"	W10x33	36"Ø	8'-3"	8-#8	#4 @ 42" o.c.	1 1/2"	20"	20"	3/8"	(4) - 1 1/2"	F1554-GR.36	2 1/2"	2"	48"
9'-0"		1,730 lbs.	≤ 16'-0"	8'-0"	W12x40	36"Ø	9'-3"	8-#8	#4 @ 42" o.c.	1 1/2"	20"	20"	3/8"	(4) - 1 1/2"	F1554-GR.55	2 1/2"	2"	48"
9'-0"		2,160 lbs.	≤ 20'-0"	8'-0"	W14x61	36"Ø	10'-0"	8-#8	#4 @ 42" o.c.	1 1/2"	20"	20"	3/8"	(4) - 1 1/2"	F1554-GR.55	2 1/2"	2"	48"
10'-0"		960 lbs.	≤ 8'-0"	8'-0"	W8x24	36"Ø	7'-6"	8-#8	#4 @ 42" o.c.	1"	20"	20"	3/8"	(4) - 1 1/2"	F1554-GR.36	2 1/2"	2"	48"
10'-0"		1,440 lbs.	≤ 12'-0"	8'-0"	W10x33	36"Ø	8'-6"	8-#8	#4 @ 42" o.c.	1 1/2"	20"	20"	3/8"	(4) - 1 1/2"	F1554-GR.36	2 1/2"	2"	48"
10'-0"		1,920 lbs.	≤ 16'-0"	8'-0"	W12x40	36"Ø	9'-6"	8-#8	#4 @ 42" o.c.	1 1/2"	20"	20"	3/8"	(4) - 1 1/2"	F1554-GR.105	2 1/2"	2"	48"
10'-0"		2,400 lbs.	≤ 20'-0"	8'-0"	W14x61	36"Ø	10'-6"	8-#8	#4 @ 42" o.c.	1 1/2"	20"	20"	3/8"	(4) - 1 1/2"	F1554-GR.105	2 1/2"	2"	48"
12'-0"		1,160 lbs.	≤ 8'-0"	8'-0"	W10x33	36"Ø	8'-0"	8-#8	#4 @ 42" o.c.	1 1/2"	20"	20"	3/8"	(4) - 1 1/2"	F1554-GR.36	2 1/2"	2"	48"
12'-0"		1,730 lbs.	≤ 12'-0"	8'-0"	W12x40	36"Ø	9'-3"	8-#8	#4 @ 42" o.c.	1 1/2"	20"	20"	3/8"	(4) - 1 1/2"	F1554-GR.55	2 1/2"	2"	48"
12'-0"		2,310 lbs.	≤ 16'-0"	8'-0"	W14x61	36"Ø	10'-3"	8-#8	#4 @ 42" o.c.	1 1/2"	20"	20"	3/8"	(4) - 1 1/2"	F1554-GR.55	2 1/2"	2"	48"
12'-0"		2,880 lbs.	≤ 20'-0"	8'-0"	W16x77	36"Ø	10'-3"	8-#8	#4 @ 42" o.c.	1 1/2"	20"	20"	3/8"	(4) - 1 1/2"	F1554-GR.55	2 1/2"	2"	48"
16'-0"		1,540 lbs.	≤ 8'-0"	8'-0"	W10x33	36"Ø	8'-0"	8-#8	#4 @ 42" o.c.	1 1/2"	20"	20"	3/8"	(4) - 1 1/2"	F1554-GR.36	2 1/2"	2"	48"
16'-0"		2,160 lbs.	≤ 12'-0"	8'-0"	W12x40	36"Ø	9'-0"	8-#8	#4 @ 42" o.c.	1 1/2"	20"	20"	3/8"	(4) - 1 1/2"	F1554-GR.55	2 1/2"	2"	48"
16'-0"		3,080 lbs.	≤ 16'-0"	8'-0"	W14x61	36"Ø	10'-0"	8-#8	#4 @ 42" o.c.	1 1/2"	20"	20"	3/8"	(4) - 1 1/2"	F1554-GR.55	2 1/2"	2"	48"
16'-0"		3,840 lbs.	≤ 20'-0"	8'-0"	W16x77	36"Ø	10'-0"	12-#8	#4 @ 6" o.c.	1 1/2"	20"	20"	3/8"	(4) - 1 1/2"	F1554-GR.105	2 1/2"	2"	48"
16'-0"		1,730 lbs.	≤ 8'-0"	10'-0"	W12x35	36"Ø	9'-0"	8-#8	#4 @ 42" o.c.	1 1/2"	20"	20"	3/8"	(4) - 1 1/2"	F1554-GR.36	2 1/2"	2"	48"
18'-0"	X	2,600 lbs.	≤ 12'-0"	10'-0"	W14x48	42"Ø	10'-0"	8-#8	#4 @ 6" o.c.	1 1/2"	24"	24"	3/8"	(4) - 1 1/2"	F1554-GR.55	2 1/2"	2"	64"
18'-0"		4,320 lbs.	≤ 16'-0"	10'-0"	W16x77	42"Ø	10'-0"	12-#8	#4 @ 6" o.c.	1 1/2"	24"	24"	3/8"	(4) - 1 1/2"	F1554-GR.55	2 1/2"	2"	64"
18'-0"		2,310 lbs.	≤ 8'-0"	14'-0"	W14x43	36"Ø	9'-9"	8-#8	#4 @ 42" o.c.	1 1/2"	24"	24"	3/8"	(4) - 1 1/2"	F1554-GR.55	2 1/2"	2"	64"
18'-0"		3,460 lbs.	≤ 12'-0"	14'-0"	W16x67	36"Ø	11'-9"	8-#8	#4 @ 6" o.c.	1 1/2"	24"	24"	3/8"	(4) - 1 1/2"	F1554-GR.55	2 1/2"	2"	64"
18'-0"		4,610 lbs.	≤ 16'-0"	14'-0"	W18x143	36"Ø	11'-9"	12-#8	#4 @ 6" o.c.	1 1/2"	24"	24"	3/8"	(4) - 1 1/2"	F1554-GR.55	2 1/2"	2"	64"
24'-0"		5,760 lbs.	≤ 20'-0"	14'-0"	W18x143	36"Ø	13'-3"	12-#8	#4 @ 6" o.c.	1 1/2"	24"	24"	3/8"	(4) - 1 1/2"	F1554-GR.55	2 1/2"	2"	64"
24'-0"		6,920 lbs.	≤ 24'-0"	14'-0"	W18x130	36"Ø	14'-6"	12-#8	#4 @ 6" o.c.	2"	30"	30"	CIP	(6) - 1 1/2"	F1554-GR.105	3"	2"	64"
24'-0"		8,070 lbs.	≤ 28'-0"	14'-0"	W18x158	36"Ø	14'-6"	12-#8	#4 @ 6" o.c.	2"	30"	30"	CIP	(6) - 1 1/2"	F1554-GR.105	4"	2"	64"
28'-0"		2,690 lbs.	≤ 8'-0"	14'-0"	W14x43	42"Ø	10'-0"	8-#8	#4 @ 42" o.c.	1 1/2"	24"	24"	3/8"	(4) - 1 1/2"	F1554-GR.55	2 1/2"	2"	64"
28'-0"		4,040 lbs.	≤ 12'-0"	14'-0"	W16x67	42"Ø	11'-3"	8-#8	#4 @ 6" o.c.	1 1/2"	24"	24"	3/8"	(4) - 1 1/2"	F1554-GR.55	3"	2"	64"
28'-0"		5,380 lbs.	≤ 16'-0"	14'-0"	W18x143	42"Ø	11'-3"	12-#8	#4 @ 6" o.c.	2"	24"	24"	3/8"	(4) - 1 1/2"	F1554-GR.55	3"	2"	64"
28'-0"		6,720 lbs.	≤ 20'-0"	14'-0"	W18x143	42"Ø	14'-6"	12-#8	#4 @ 6" o.c.	2"	24"	24"	3/8"	(4) - 1 1/2"	F1554-GR.105	3"	2"	64"
28'-0"		8,070 lbs.	≤ 24'-0"	14'-0"	W18x143	42"Ø	15'-9"	12-#8	#4 @ 6" o.c.	2 1/2"	24"	24"	3/8"	(4) - 1 1/2"	F1554-GR.105	4"	2"	64"
28'-0"		9,410 lbs.	≤ 28'-0"	14'-0"	W18x175	42"Ø	16'-6"	14-#8	#4 @ 6" o.c.	3"	24"	24"	3/8"	(4) - 1 1/2"	F1554-GR.105	4"	2"	64"

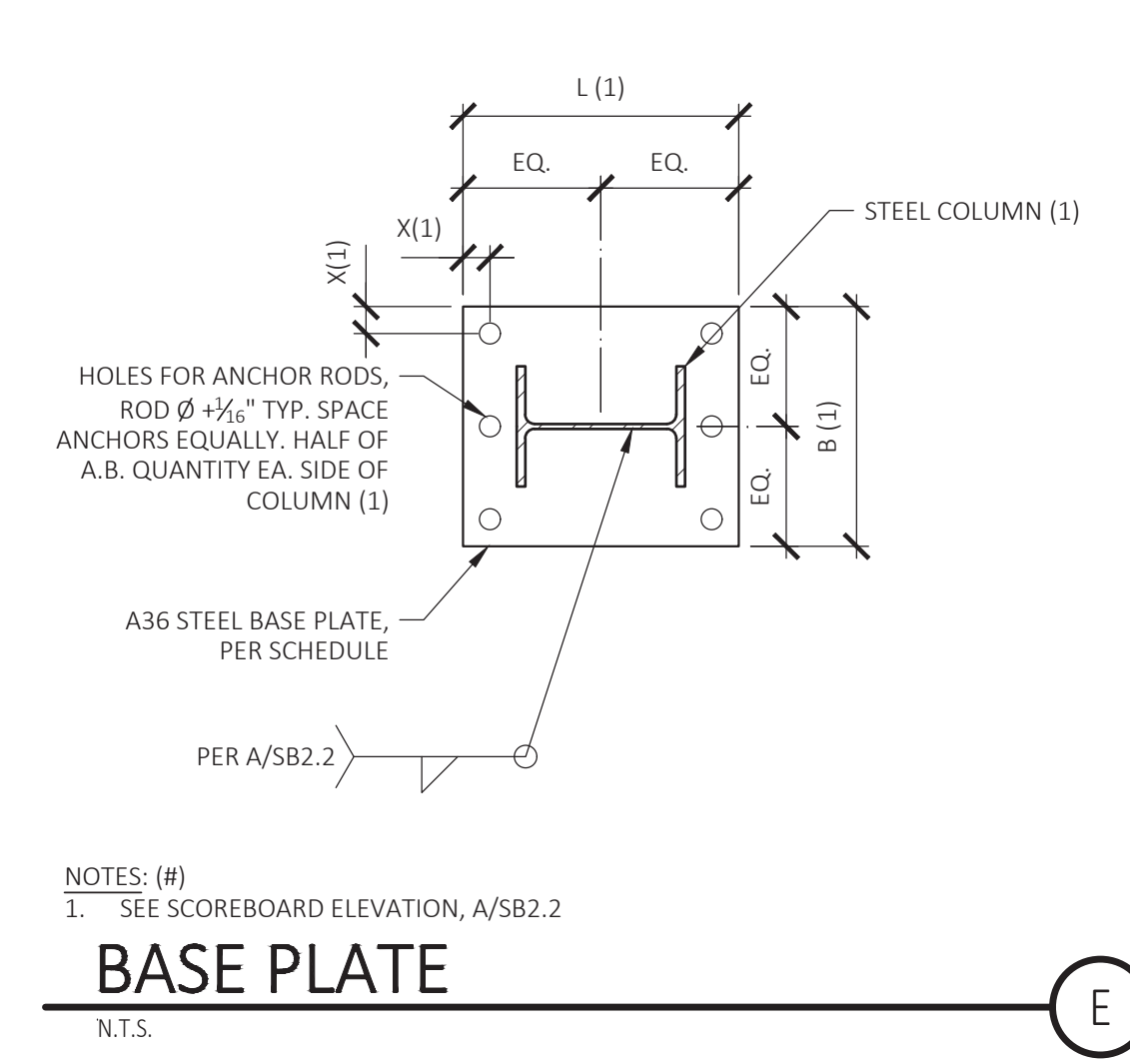
NOTES: (R)  
 1. CONTRACTOR OPTION TO PROVIDE TIES OR SPIRAL REINFORCING. SEE C/SB2.2 FOR THE OPTION, SEE D/SB2.2 FOR SPIRAL OPTION  
 2. CONTRACTOR IS RESPONSIBLE FOR CASING PIERS AND DRILLING SEQUENCING TO PROTECT PIER EXCAVATION



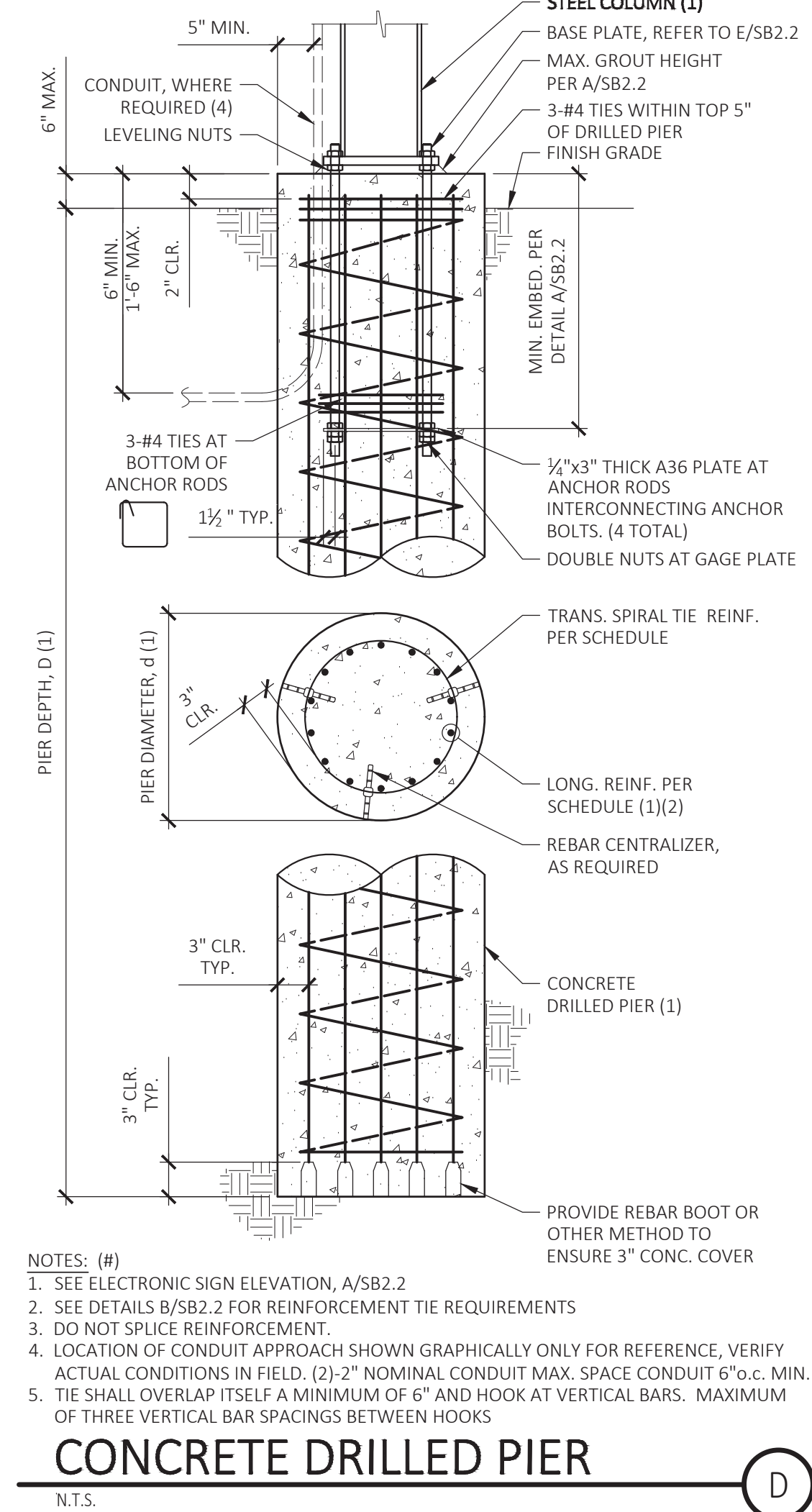
ELEVATION

TWO COLUMN SCOREBOARD INSTALLATION

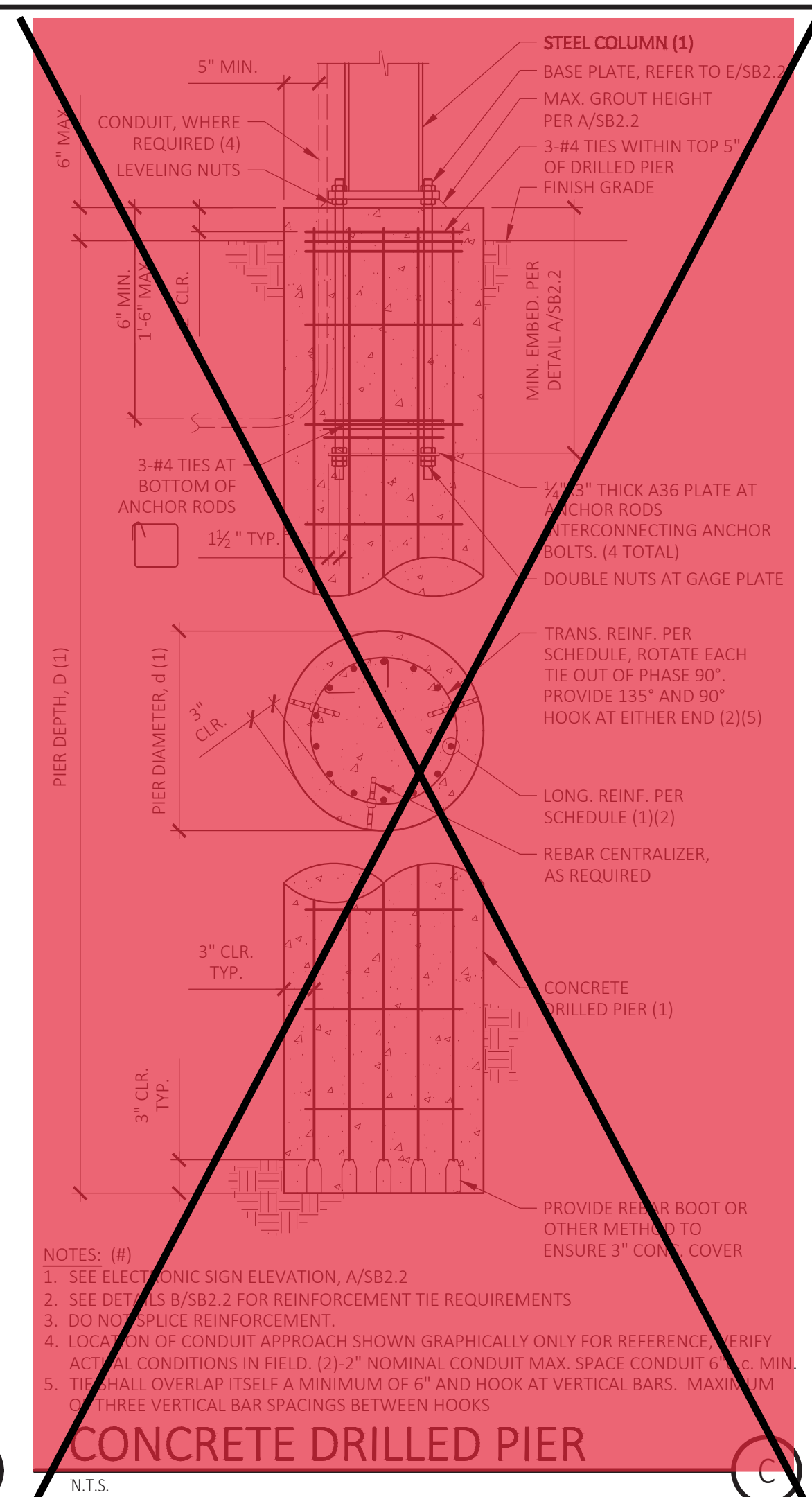
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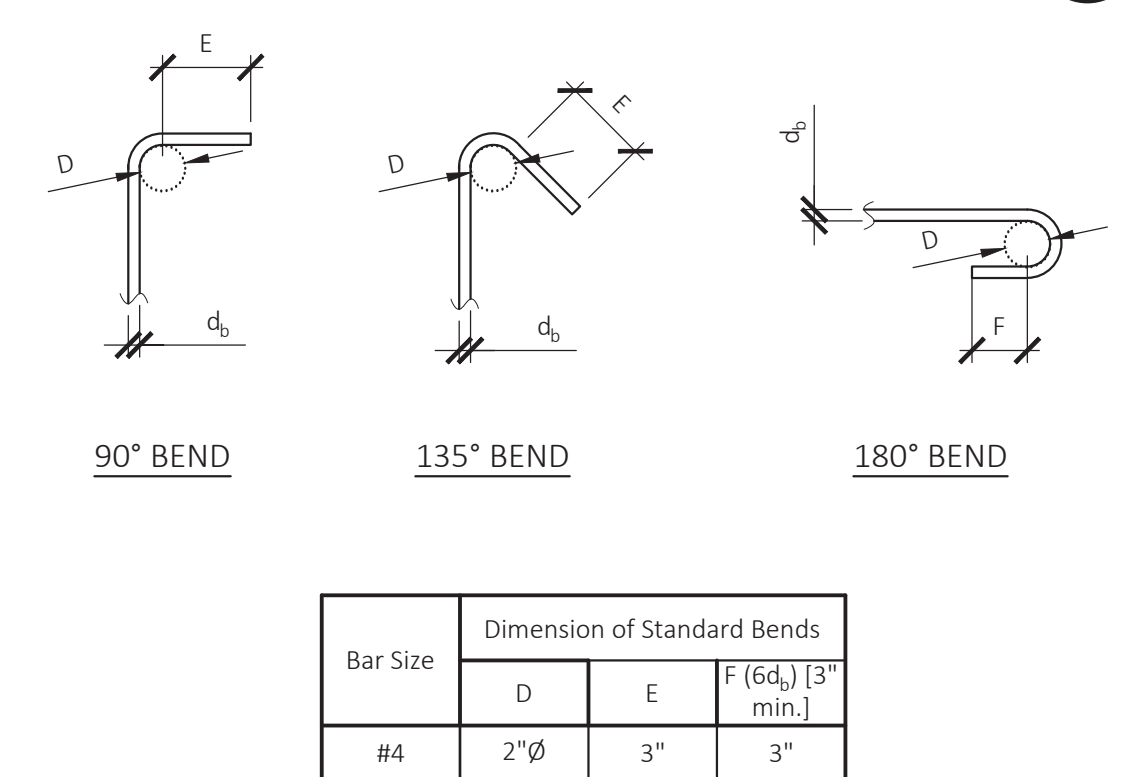
BASE PLATE  
N.T.S.



CONCRETE DRILLED PIER  
N.T.S.



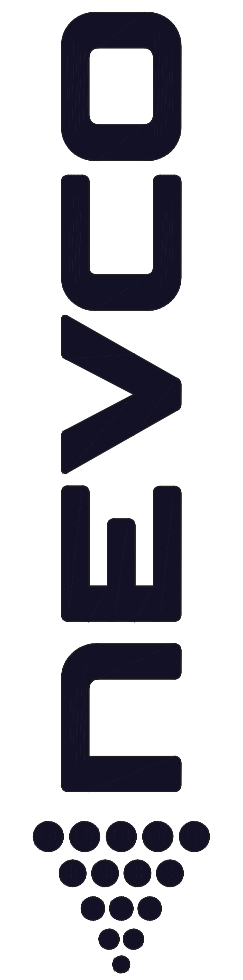
CONCRETE DRILLED PIER  
N.T.S.



TIE AND STIRRUP BENDS  
N.T.S.



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 THANK YOU FOR YOUR INTEREST IN NEVCO SCOREBOARD PRODUCTS



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APPROVED  
 DIV. OF THE STATE ARCHITECT  
 APP: 04-122317 PC  
 REVIEWED FOR  
 SS FL ACS CG  
 DATE: 09/20/2023

PRE-CHECK (PC) DOCUMENT  
 CODE: 2022

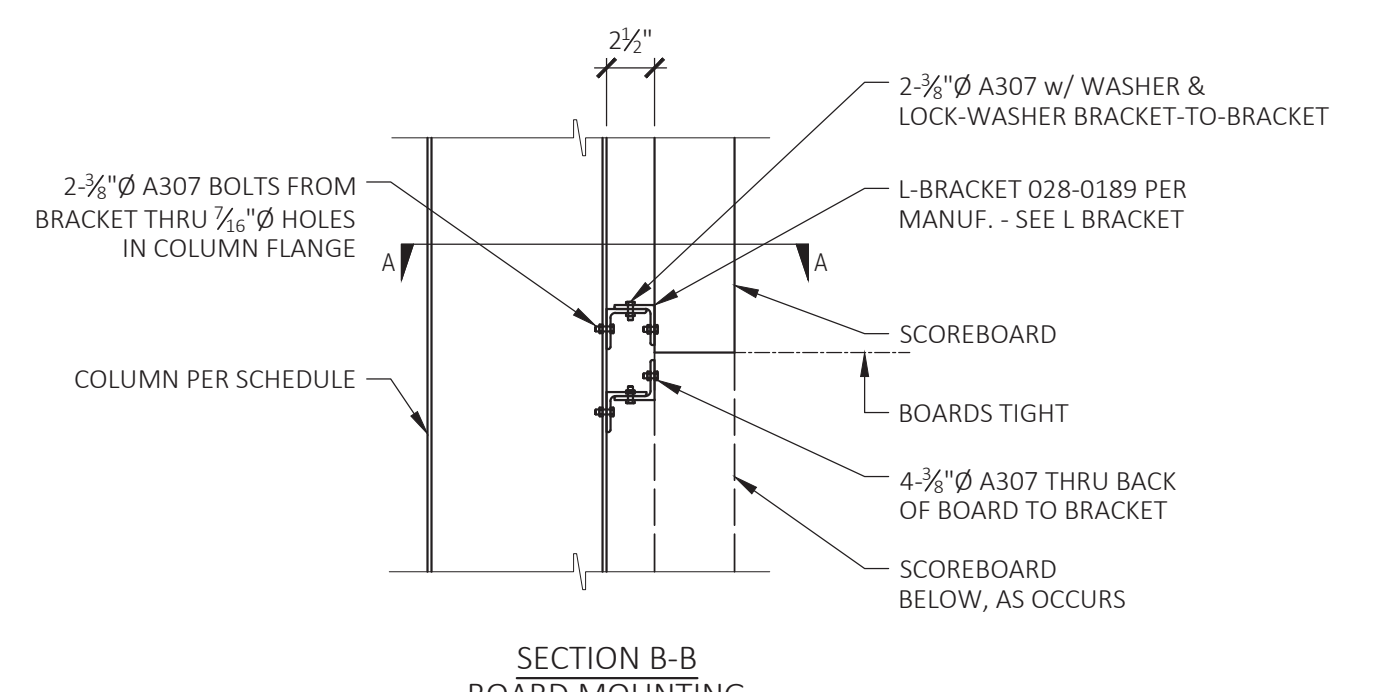
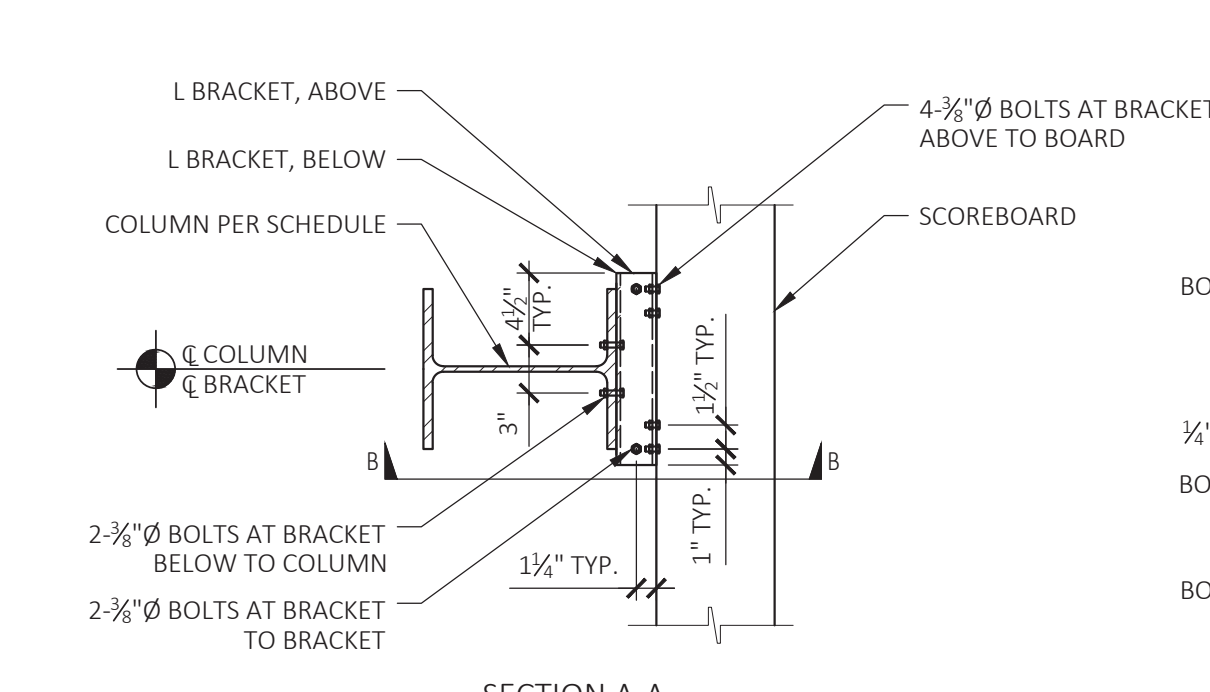
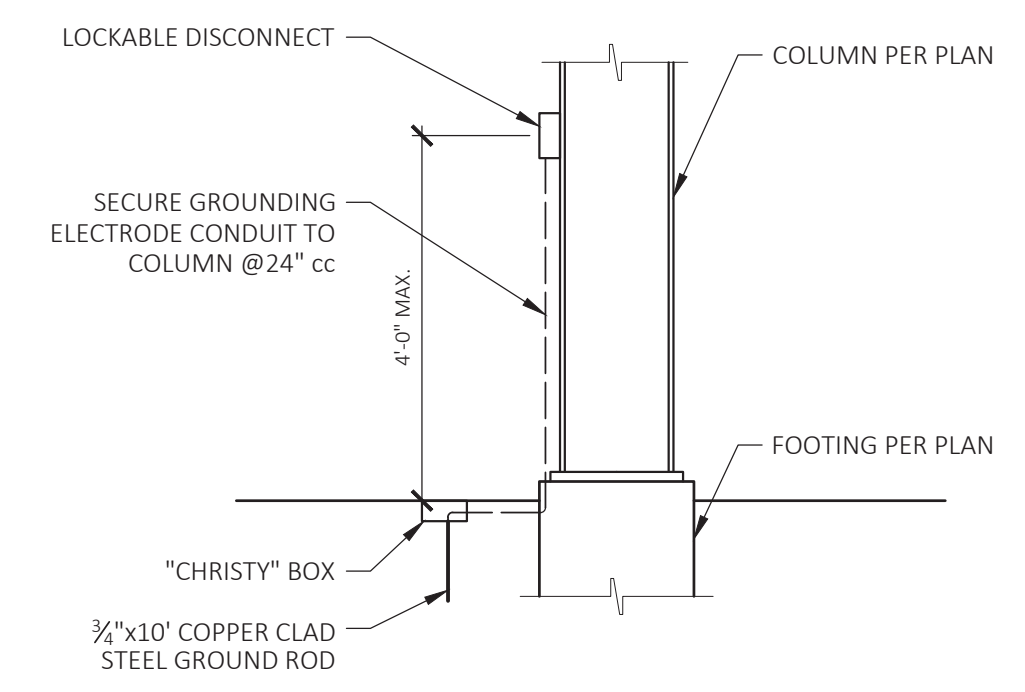
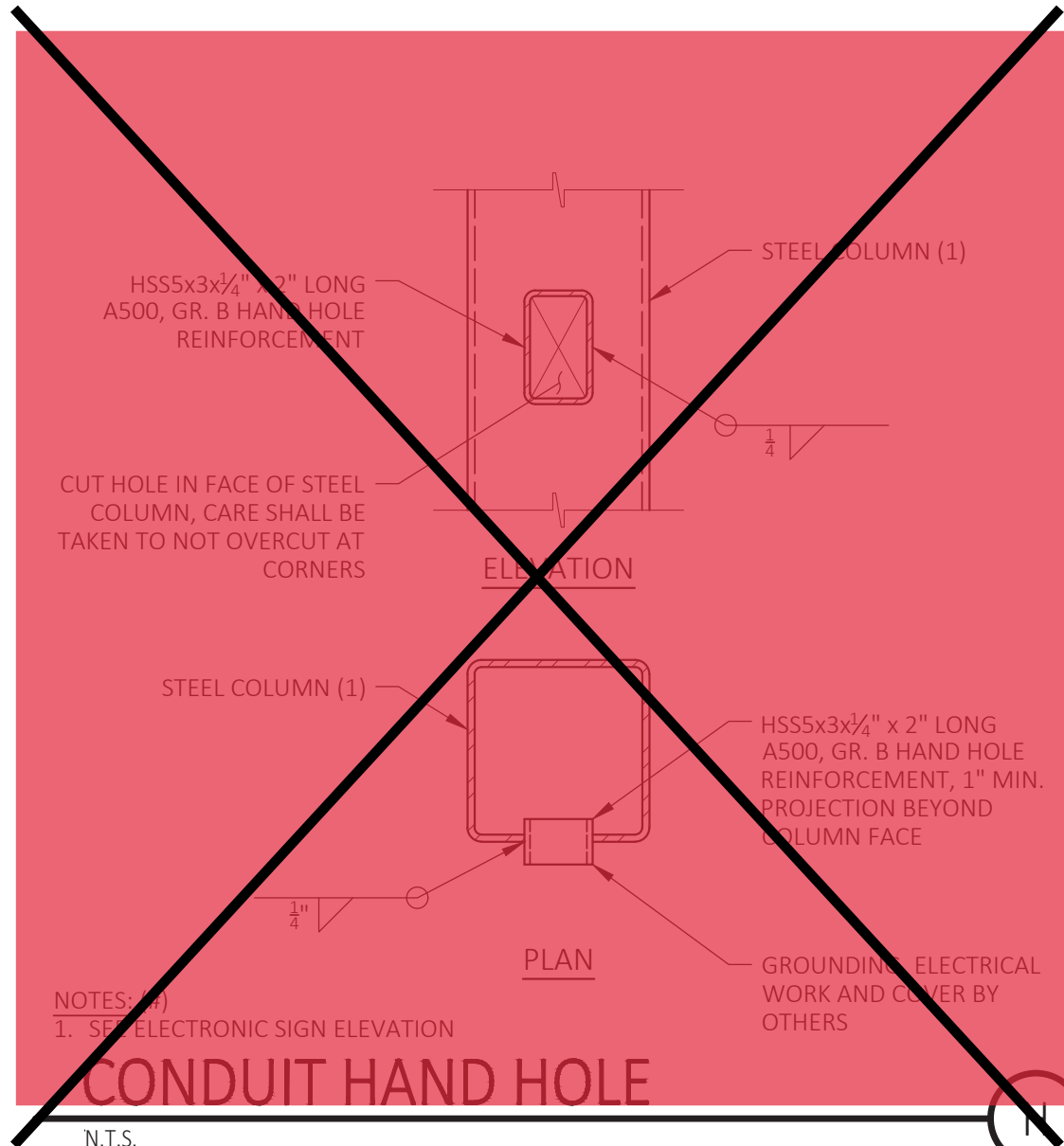
A separate project application for construction is required.

JOHN F. KENNEDY HS.  
 SCOREBOARD ASSEMBLY

TWO COLUMN  
 CAISSON -  
 BOLTED

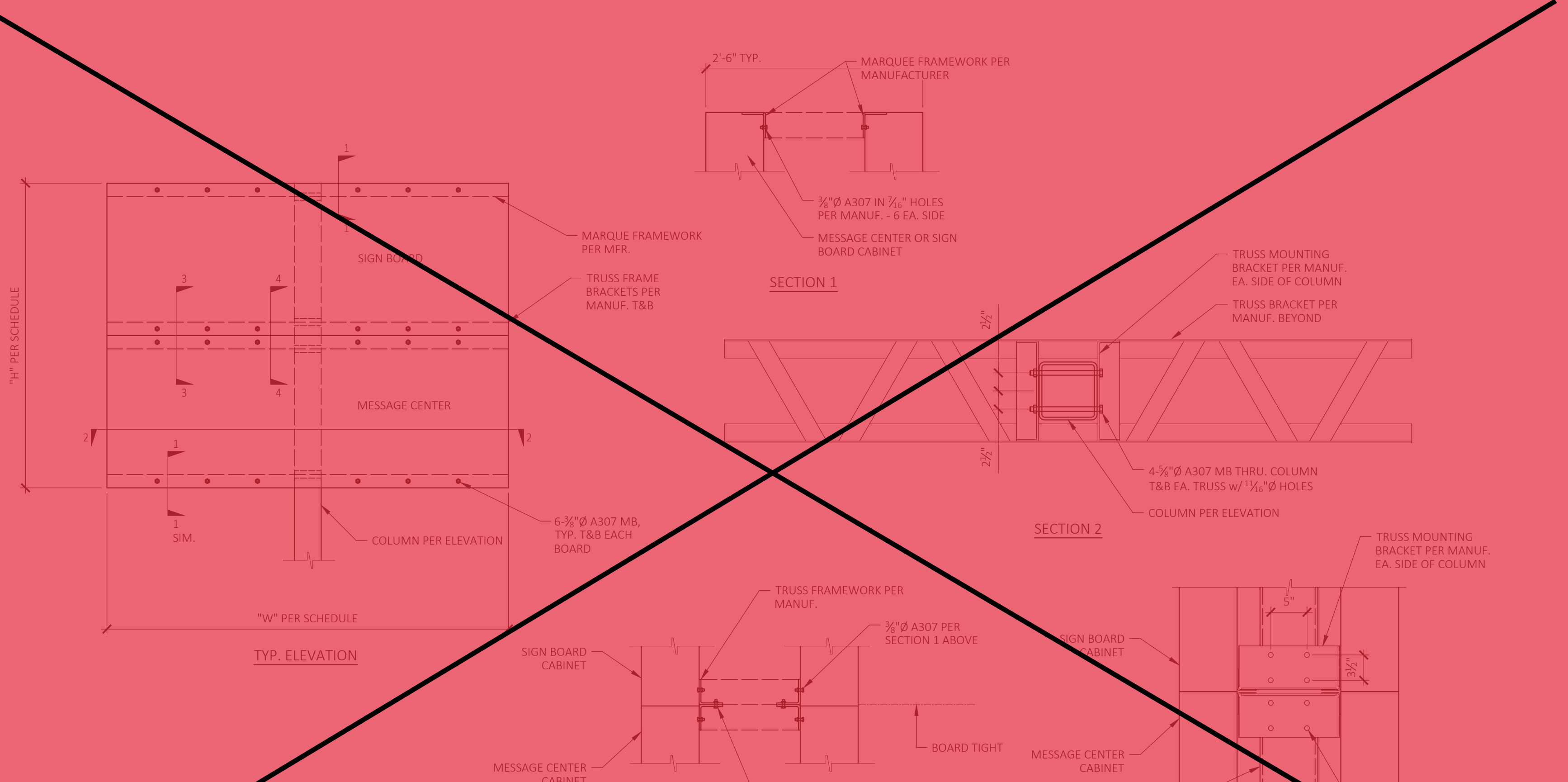
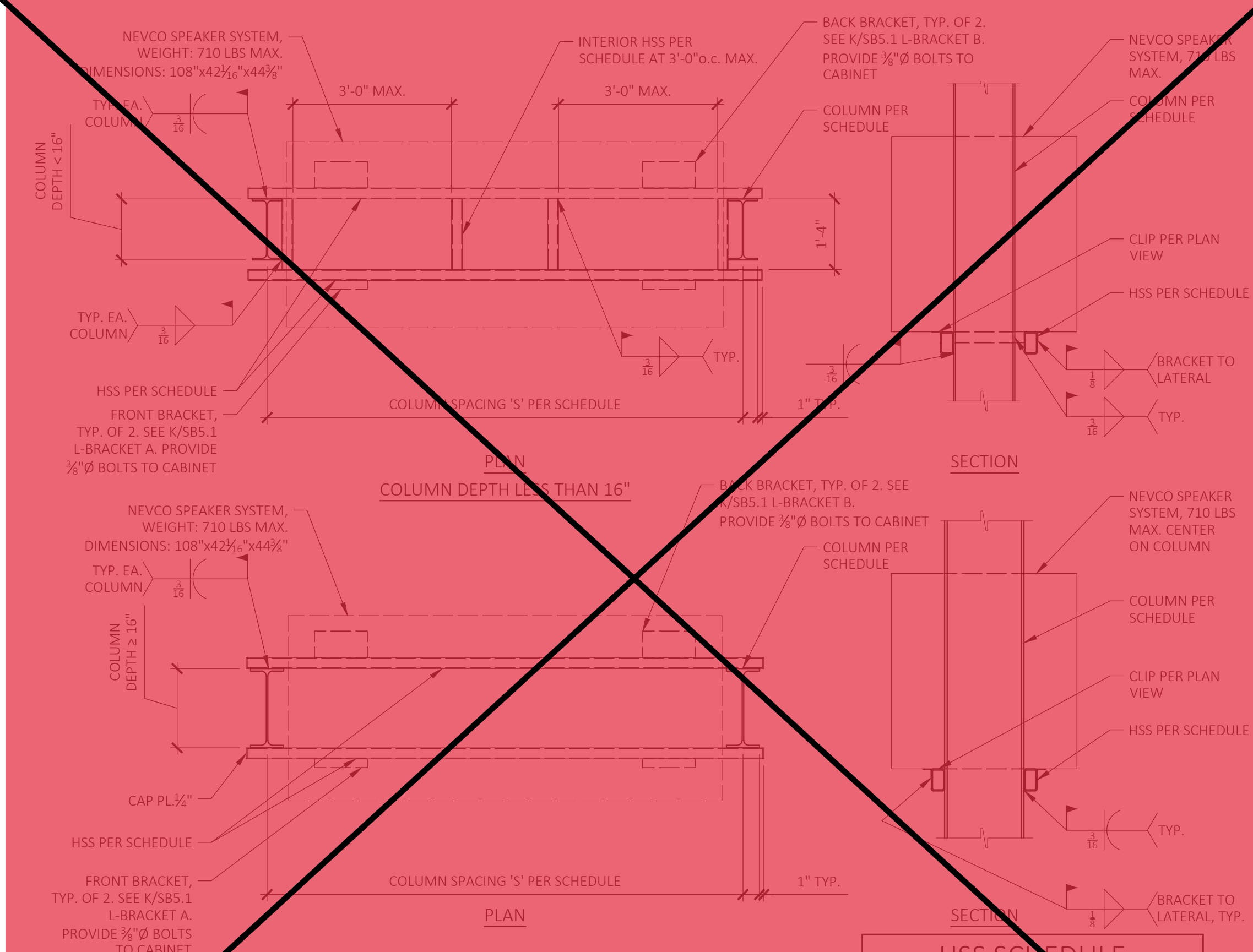
SHEET INFORMATION	
DATE	08.09.2023
DRAWN	JMK
CHECKED	MEP
SSG JOB #	S23109
SHEET	SB2.2





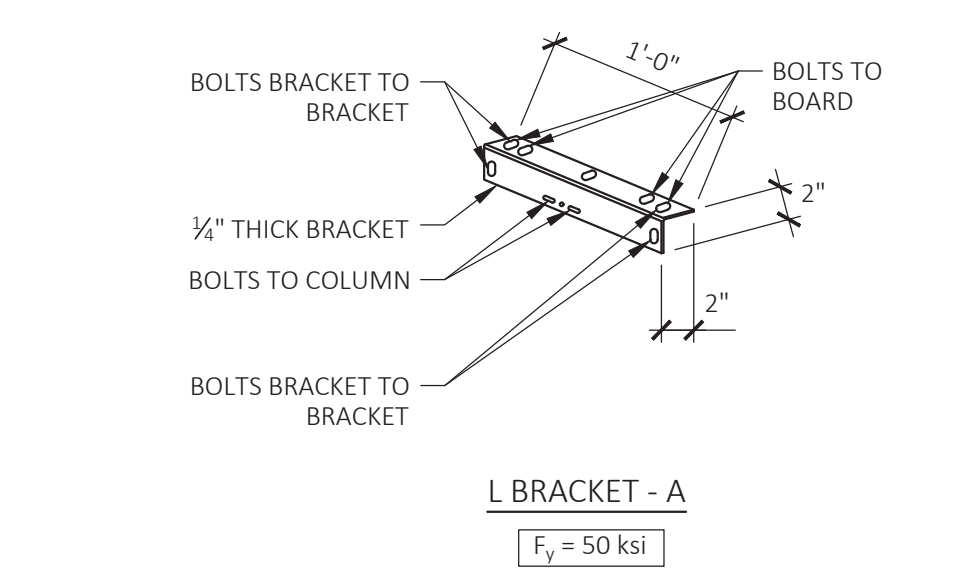
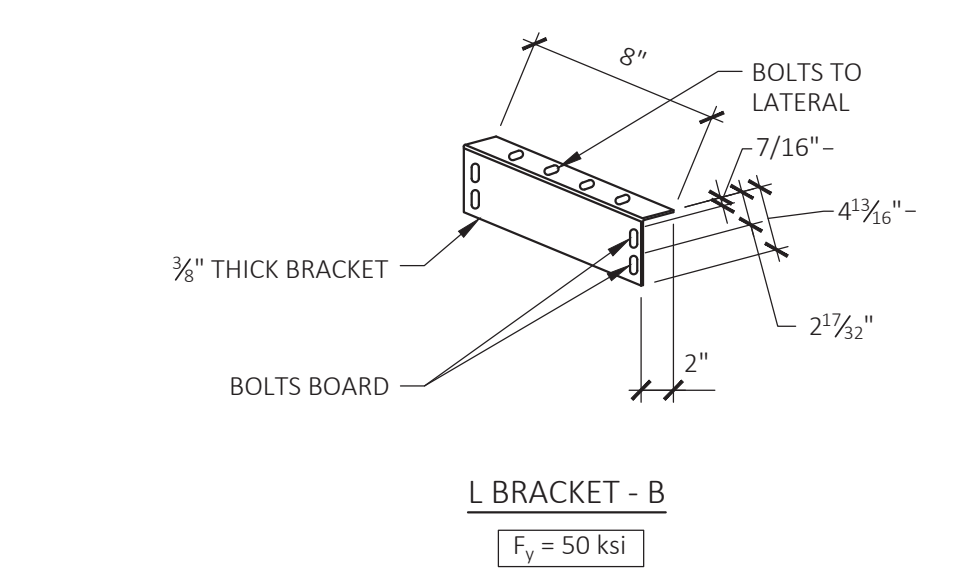
ALL DISPLAYS MUST BE GROUNDED WITH NO MORE THAN 10 OHMS GROUND RESISTANCE.  
 1. ALTERNATE: IT IS PERMISSIBLE TO UTILIZE THE UFER GROUNDING METHOD. DETAILS FOR UFER GROUNDING SHALL BE INCLUDED AS PART OF THE SITE SPECIFIC SUBMITTAL.

SCOREBOARD PART ATTACHMENTS



HSS SCHEDULE

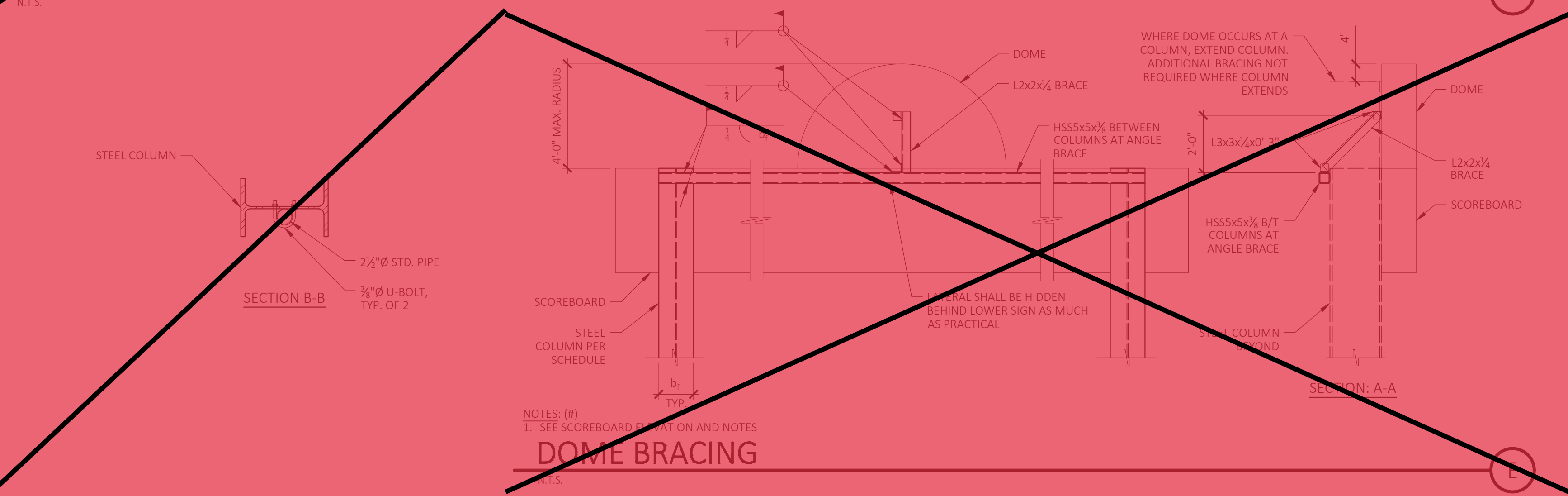
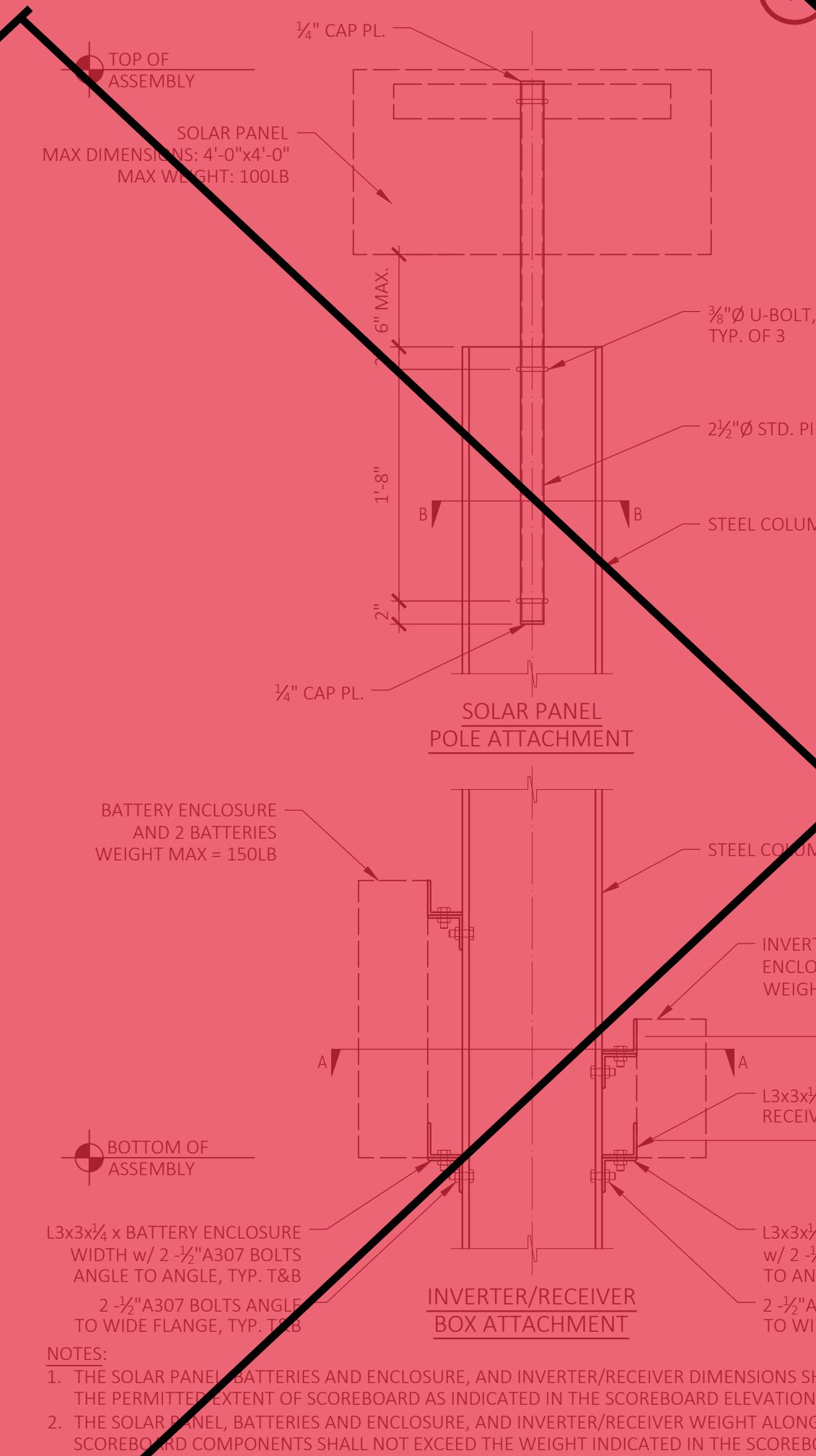
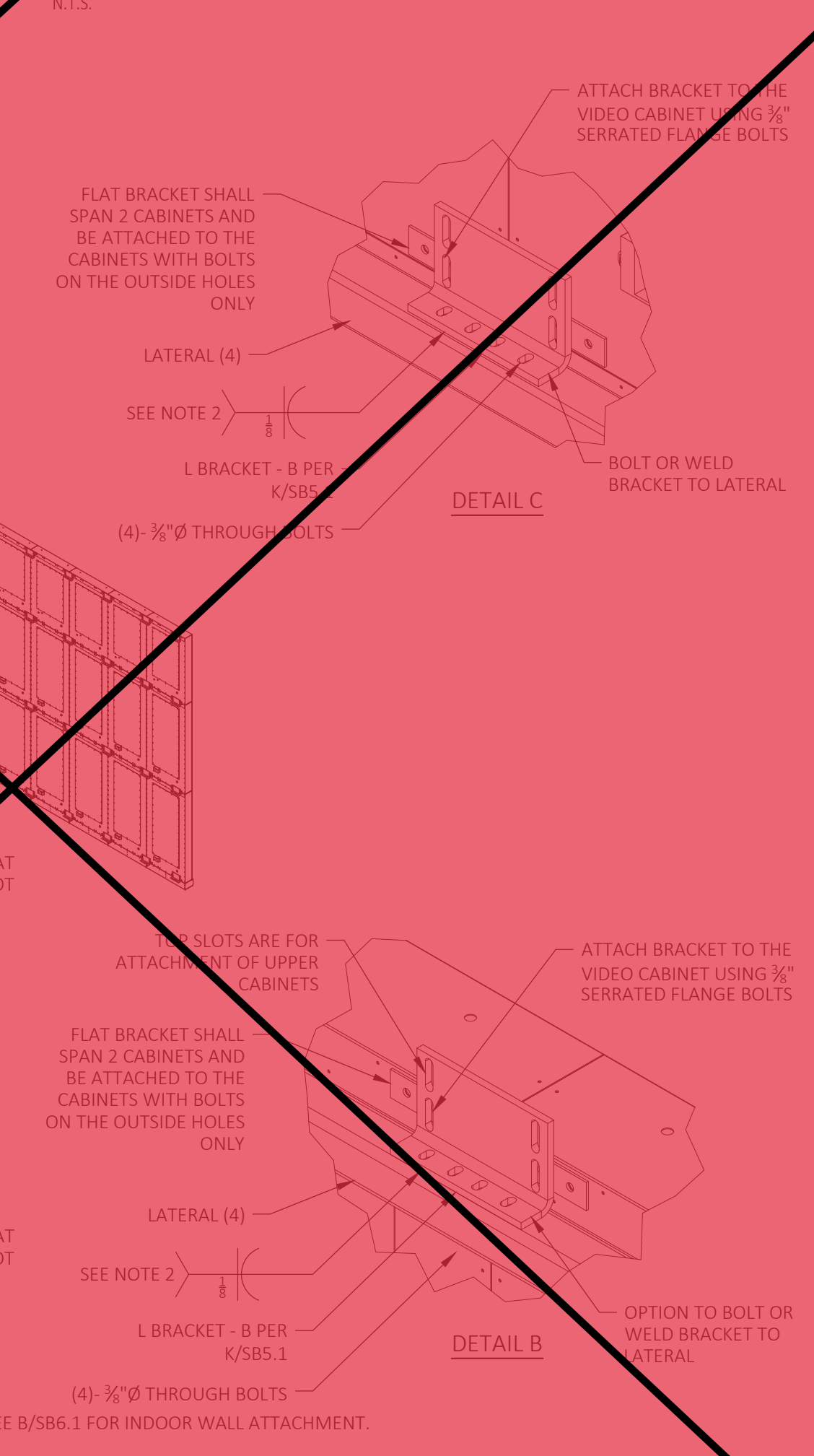
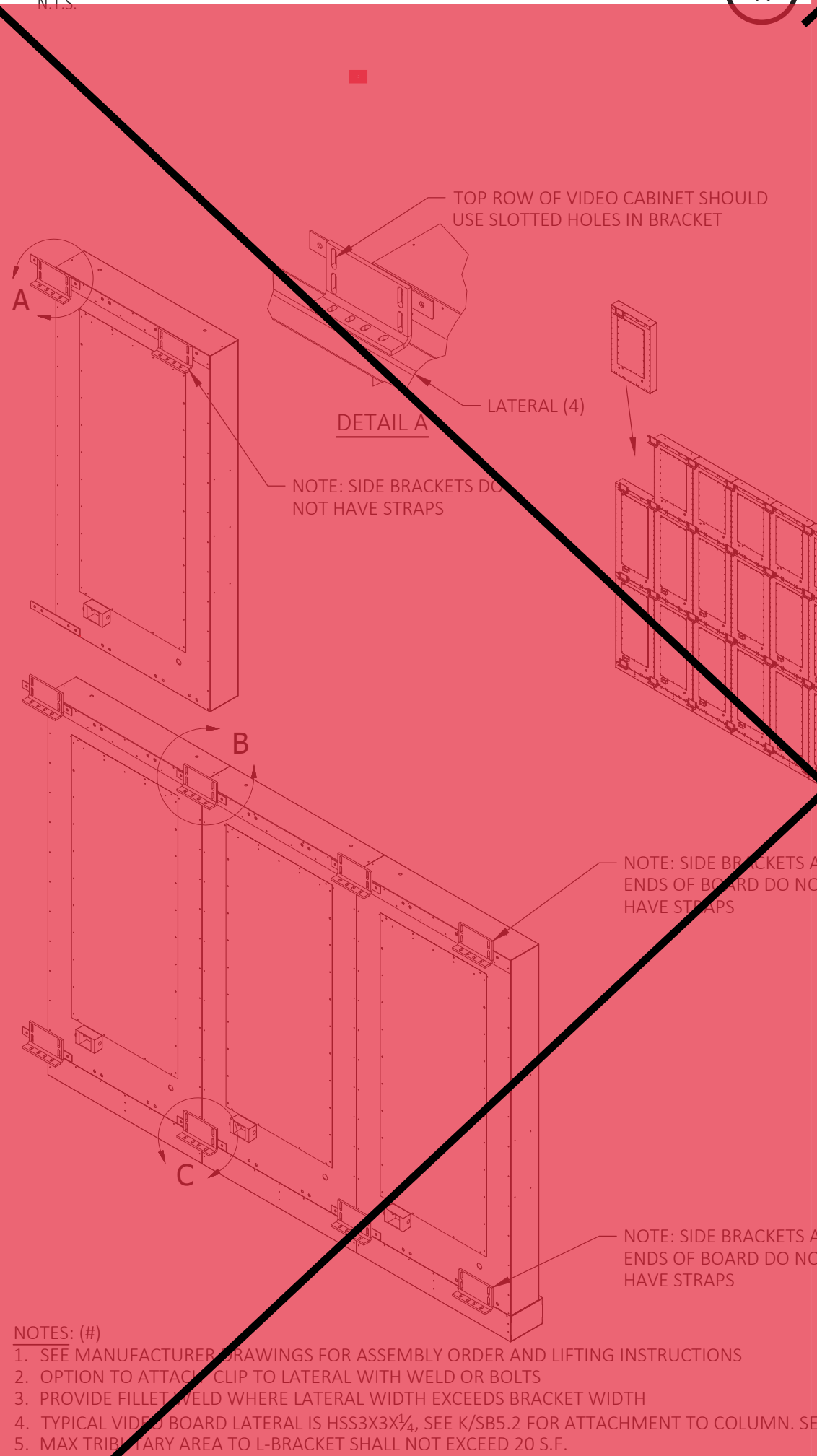
COLUMN SPACING, S	HSS SIZE
10'-0"	HSS4x3x1/2 LLV
12'-0"	HSS4x3x1/2 LLV
14'-0"	HSS4x3x1/2 LLV



L BRACKETS

SPEAKER ATTACHMENT

MARQUEE CENTER INSTALLATION



VIDEO BOARD BRACKET ATTACHMENT

SOLAR PANEL/BATTERY/INVERTER/RECEIVER ATTACHMENT

DOME BRACING

**SSG**  
structural engineers

PROFESSIONAL ENGINEER  
No. 5405  
STATE OF CALIFORNIA

DATE SIGNED: 08.09.2023

**NEVCO**

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APPROVED ARCHITECT  
APP: 04-122317 PC  
REVIEWED FOR:  
SS FL ACS CG  
DATE: 09/20/2023

PRE-CHECK (PC) DOCUMENT  
CODE: 2022

A separate project application for construction is required.

JOHN F. KENNEDY HS, SCOREBOARD ASSEMBLY

ATTACHMENT DETAILS

SHEET INFORMATION

DATE	08.09.2023
DRAWN	JMK
CHECKED	MEP
SSG JOB #	S23109
SHEET	SB5.1





18240 NORTH BANK ROAD - ROSEBURG, OR 97470  
 (541)-496-3541 FAX (541)-496-0803

PROJECT INFORMATION

PROJECT NAME JOHN F. KENNEDY RR FACILITY  
 PROJECT I.D. JFK01  
 MODEL # 2022 SIERRA II 16'-8" W/ MECH RM  
 SITE ADDRESS 6715 GLORIA DR.  
 CITY / STATE SACRAMENTO, CALIFORNIA

SHEET SCHEDULE

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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM  
 JOHN F. KENNEDY RR FACILITY  
 SACRAMENTO, CALIFORNIA



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SHEET TITLE: TITLE SHEET  
 REVISION & SHEET SCHEDULE

PLAN SET#	LJK01		
DATE:	10/16/2023		
REVISIONS			
REV.	DATE:	BY:	
1	10-23-2023	CR	
DRAWN BY:	CR		



REV.	DATE	BY	DESCRIPTION
1	10/23/23	CR	G0,G1,G2,P1,A2.1,A2.2,A3.1,A5.2,S7.1,S7.2,S7.3,S8.1,S8.2,S8.3,S8.4,S10.1,S10.2,R1,R2,P2,E2,E4

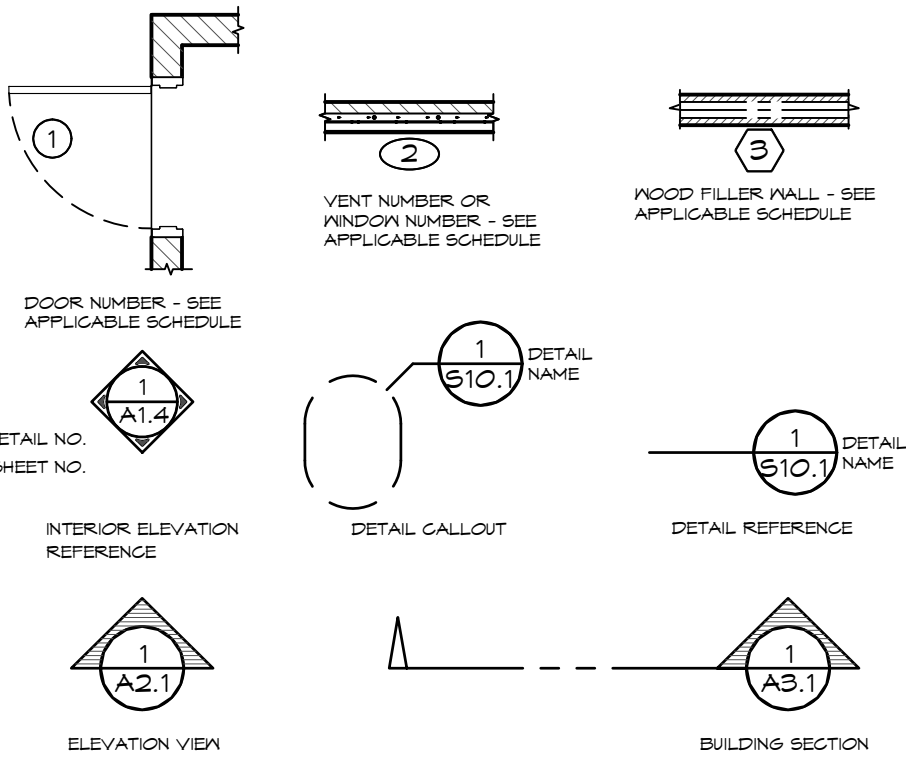
REVISION SCHEDULE

SHEET NO.

GO



**SYMBOL LEGEND**



**ABBREVIATIONS**

AB	ANCHOR BOLT	ND	NAPKIN DISPOSAL
AFF	ABOVE FINISHED FLOOR	NTS	NOT TO SCALE
ATS	AUTOMATIC TRANSFER SWITCH	OC	ON CENTER
BN	BOUNDARY NAIL	OCEW	ON CENTER EACH WAY
BOT	BOTTOM	OSB	ORIENTED STRAND BOARD
BP	BREAKER PANEL	P	PHOTO EYE
CJ	CONTROL JOINT	PCC	PORTLAND CEMENT COMPANY
CL	CENTER LINE	PEN	PANEL EDGE NAILING
CO	CLEAN OUT	PL	PLATE
CMU	CONCRETE MASONRY UNIT	PSF	POUNDS PER SQUARE FOOT
db	NOMINAL BAR DIAMETER	PSI	POUNDS PER SQUARE INCH
DD	DIAPER DECK	PT	PRESSURE TREATED
DIA	DIAMETER	PTD	PAPER TOWEL DISPENSER
DISC	DISCONNECT	PV	PHOTO VOLTAIC
EM	ELECTRIC METER	R4S	ROUGH FOUR SIDES
EN	END NAIL	REQD	REQUIRED
EW	EACH WAY	RO	ROUGH OPENING
FD	FLOOR DRAIN	S4S	SURFACED FOUR SIDES
FF	FINISHED FLOOR	SCH	SCHEDULE
FG	FINISHED GRADE	SD	SOAP DISPENSER
FN	FIELD NAIL	SIP	STRUCTURAL INSULATED PANEL
FRP	FIBERGLASS REINFORCED PANEL	SJ	SAW JOINT
GB	GRAB BAR	SM	SHEET METAL
GLB	GLUE LAMINATED BEAM	SN	SHEAR NAILING
HB	HOSE BIBB	SS	STAINLESS STEEL
HD	HAND DRYER	SST	STRUCTURAL STEEL TUBE
HM	HOLLOW METAL (DOOR)	TBD	TO BE DETERMINED
HTR	HEATER	T&B	TOP & BOTTOM
HYP	HYPOTENUSE	T&G	TONGUE & GROOVE
I.S.	INSTALLER SUPPLIED	TLT	TOILET
KSI	KIPS PER SQUARE INCH	TP	TOILET PAPER DISPENSER
L	STRUCTURAL STEEL ANGLE	TS	TIMER SWITCH
LAV	LAVATORY	TSCD	TOILET SEAT COVER DISPENSER
LF	LIGHT FIXTURE	TYP	TYPICAL
MBP	MAIN BREAKER PANEL	UNO	UNLESS NOTED OTHERWISE
MD	MAIN DISCONNECT	VB	VAPOR BARRIER
MIN	MINIMUM	VTR	VENT THROUGH ROOF
MIR	MIRROR	WH	WATER HEATER
MO	MASONRY OPENING	WWM	WOVEN WIRE MESH
MR	METAL ROOFING	W/	WITH
MS	MILD STEEL		

**GENERAL NOTES**

- THIS PROJECT SHALL COMPLY WITH ALL 2022 CALIFORNIA BUILDING CODES AND STANDARDS IDENTIFIED ON SHEET G2. ALL WORK SHALL MEET OR EXCEED INDUSTRY STANDARDS FOR MATERIALS, WORKMANSHIP, ETC.
- CONTRACTOR SHALL REVIEW THE DRAWINGS THOROUGHLY BEFORE PROCEEDING WITH ANY WORK. ANY DISCREPANCIES FOUND WITHIN THESE DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF ROMTEC. CONTRACTOR SHALL NOT PROCEED WITH ANY WORK HE KNOWS TO BE IN CONFLICT WITH OTHER WORK, OR IS NOT APPROVED BY CODE, UNTIL RESOLVED BY ROMTEC OR THE ENGINEER/ARCHITECT.
- CONTRACTOR SHALL MAINTAIN GENERAL LIABILITY INSURANCE AND WORKER'S COMP. INSURANCE AS PER SPECIFIC STATE MINIMUM REQUIREMENTS.
- FOOTINGS SHALL BE CONSTRUCTED ON UNDISTURBED NATIVE SOIL OR ENGINEER APPROVED FILL. CONTRACTOR TO VERIFY ASSUMED SOIL BEARING CAPACITY NOTED ON SHEET G2. SHOULD SOIL NOT MEET OR EXCEED THE ASSUMED SOIL BEARING CAPACITY, CONTRACTOR TO MODIFY SOIL CONDITIONS TO SATISFY CRITERIA OR NOTIFY THE STRUCTURAL ENGINEER TO REVISE DESIGN PER CONDITIONS ENCOUNTERED. BACKFILL AROUND BUILDING TO PROVIDE SLOPE AWAY FROM BUILDING NOT LESS THAN A 5% SLOPE FOR A MINIMUM DISTANCE OF 10' FROM THE BUILDING, PER 2022 CBC 1804A.3. REFER TO GEOTECHNICAL REPORT BY UES, NO. 4630.2300076.0016, DATED OCTOBER 17, 2023.
- CAST-IN-PLACE CONCRETE: 3000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS 4" +/- 1" SLUMP, WITH MAX 1" AGGREGATE, AND ALL MATERIALS IN ACCORDANCE WITH ACI 318 STANDARD. FINE BROOM FINISH INTERIOR SURFACES AND EXTERIOR SLABS. JOINTS REQUIRED IN FLAT WORK, SEE FOUNDATION DETAILS FOR REQUIREMENTS.
  - CMU BLOCKS "MEDIUM WEIGHT DENSITY" ARE MANUFACTURED TO ASTM C90-16 STANDARDS WITH A MIN COMPRESSIVE STRENGTH  $f_m = 2000$  PSI. ALL CMU BLOCKS MUST BE FULLY GROUTED IN 5 FT MAXIMUM LIFTS AND NOT BE WETTED. THE MORTAR TO BE USED SHALL BE TYPE S 2000 PSI MORTAR CONFORMING TO ASTM C270. MASONRY (CONCRETE) GROUT: 2500 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS 9" +/- 1" SLUMP, WITH MAX 1/2" AGGREGATE, AND TESTED IN ACCORDANCE TO MEET ACI 318. FINE OR COURSE GROUT MAY BE USED IN ACCORDANCE WITH 2022 CBC. CONSOLIDATE GROUT AT THE TIME OF PLACEMENT. CONSOLIDATE POURS EXCEEDING 12 IN. IN HEIGHT BY MECHANICAL VIBRATION, AND RECONSOLIDATE BY MECHANICAL VIBRATION AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED. CONSOLIDATION AND RECONSOLIDATION ARE NORMALLY ACHIEVED WITH A MECHANICAL VIBRATOR. A LOW VELOCITY VIBRATOR WITH A 3/4 IN. HEAD IS USED.
- ANCHOR AND MACHINE BOLTS SHALL BE ASTM A307, UNLESS NOTED OTHERWISE BOLTS SHALL BE INSTALLED PER TURN-OF-NUT INSTALLATION METHOD REQUIRED TURNS FOR PRE-TENSIONING FROM SNUG-TIGHT, U.N.O. IN THIS PLANSET OR BY ANCHOR, BOLT OR FASTENER MANUFACTURER. SCREWS AND MACHINE BOLT CALLOUTS ARE MINIMUM SIZE SIZE ALLOWED, ACTUAL SIZE MAY VARY. STEEL PLATES & SHAPES SHALL BE ASTM A36,  $F_y = 36$  ksi. CONCRETE REINFORCING STEEL (REBAR): ASTM A615 60 ksi. (GRADE 60). WOOD FRAMING SHALL BE #2 & BTR DOUGLAS FIR, UNO. GLU-LAM BEAMS SHALL BE GRADE 24F-V4.
- QUESTIONS CONCERNING MATERIALS OR CONSTRUCTION CONTACT ROMTEC TECHNICAL ASSISTANCE AT: 541-496-3541
- ROMTEC SCOPE SUPPLY AND DESIGN SUBMITTAL (SSDS) IDENTIFY SPECIFIC MODEL, MANUFACTURER & BRAND OF ALL PLUMBING AND ELECTRICAL FIXTURES AND ACCESSORIES. REFER TO THE SSDS FOR SPECIFIC LIST OF ITEMS SUPPLIED BY ROMTEC, ANY ITEMS NOT LISTED IN THE SSDS IS ASSUMED SUPPLIED BY THE INSTALLER.
- THE OWNER / CONTRACTOR MAY EXERCISE DISCRETION IN SELECTING THE FINAL LOCATION FOR NON-DIMENSIONED ACCESSORIES AND FIXTURES (E.G., LIGHTS, COMFORT HEATERS, ETC.)

**NOTE:** ARCHITECT/ENGINEER IS NOT RESPONSIBLE FOR ANY SITE DESIGN OR ENGINEERING AND WILL NOT BE HELD ACCOUNTABLE OR LIABLE FOR ANY ISSUES RELATED TO THIS SITE. IT IS THE OWNER'S RESPONSIBILITY TO ACCURATELY LOCATE THIS BUILDING, SET FLOOR AND ADJACENT ELEVATIONS, DETERMINE SITE IS SUITABLE FOR CONSTRUCTION, VERIFY ALL UTILITIES, ETC.

**RECYCLE**

RECYCLE ALL USED SHIPPING MATERIALS AND LEFT OVER BUILDING MATERIALS



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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM

JOHN F. KENNEDY RR FACILITY  
SACRAMENTO, CALIFORNIA

PLAN SET# LFK01

DATE: 10/16/2023

REVISIONS

REV.	DATE	BY
1	10-23-2023	GR

DRAWN BY: CR

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Project #:

REGISTERED PROFESSIONAL ENGINEER  
DUSTIN K. ROSEBANK  
S 5885  
STATE OF CALIFORNIA

GENERAL NOTES  
SYMBOL LEGEND

SHEET NO. **G1**



**CODES AND STANDARDS**

- 2022 CALIFORNIA BUILDING CODE (CBC), TITLE 24 PART 2 (BASED ON 2021 IBC)
- 2022 CALIFORNIA ELECTRICAL CODE, TITLE 24 PART 3 (BASED ON 2020 NFPA, NEC)
- 2022 CALIFORNIA MECHANICAL CODE, TITLE 24 PART 4 (BASED ON 2021 UMC)
- 2022 CALIFORNIA PLUMBING CODE, TITLE 24 PART 5 (BASED ON 2021 UPC)
- 2022 CALIFORNIA BUILDING ENERGY CODE, TITLE 24 PART 6
- 2022 CALIFORNIA FIRE CODE, TITLE 24 PART 9, (BASED ON 2021 IFC)
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

- ACI AMERICAN CONCRETE INSTITUTE, ACI 318-19, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
- TMS THE MASONRY SOCIETY, TMS 402-16, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES"
- AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION  
"STEEL CONSTRUCTION MANUAL, 15TH EDITION"

**CODE SUMMARY:**  
 OCCUPANCY CLASS.: U  
 CONSTRUCTION: VB  
 AREA: 222 FT<sup>2</sup>  
 AREA ALLOWABLE: 5500 FT<sup>2</sup>  
 HEIGHT: 1 STORY  
 HEIGHT ALLOWABLE: 1 STORY  
 OCCUPANT LOAD: 4

**DESIGN LOADS**

ROOF: LIVE LOAD 20 PSF  
 ROOF: DEAD LOAD 15 PSF

CBC SEISMIC DESIGN CATEGORY D  
 DESIGN WIND SPEED (ULTIMATE) 93 MPH  
 EXPOSURE C  
 ALLOWABLE SOIL BEARING 1500 PSF

PER GEOTECHNICAL ENGINEERING REPORT BY UES, DATED OCTOBER 17, 2023.

**SEISMIC DESIGN DATA:**

RISK CATEGORY: II  
 IMPORTANCE FACTOR: 1.0  
 SS: 0.620  
 S1: 0.266  
 SITE CLASS: D  
 SMS: 0.809  
 SM1: 0.550  
 SDS: 0.539  
 SD1: 0.367  
 SEISMIC DESIGN CATEGORY: D  
 R = 5  
 BASE SHEAR: V = 0.108 W

**WIND DESIGN :**

RISK CATEGORY: II  
 WIND SPEED = 93 MPH  
 EXPOSURE: C  
 INTERNAL PRESSURE COEFE = ± 0.18

BEARING WALL SYSTEM: SPECIAL REINFORCED MASONRY SHEAR WALL

ANALYSIS METHOD: EQUIVALENT STATIC FORCE METHOD

**SPECIAL INSPECTIONS**

SPECIAL INSPECTION AND TESTS OF CONCRETE CONSTRUCTION ARE REQUIRED FOR FOUNDATIONS SUPPORTING CMU WALLS

**SPECIAL INSPECTIONS (TMS 402-16)**

MINIMUM VERIFICATION	REQUIRED FOR QUALITY ASSURANCE (a)			REFERENCE FOR CRITERIA
	LEVEL 1	LEVEL 2	LEVEL 3	TMS 602
PRIOR TO CONSTRUCTION, VERIFICATION OF COMPLIANCE OF SUBMITTALS	R	R	R	ART. 1.5
PRIOR TO CONSTRUCTION, VERIFICATION OF $f_m$ AND $f_{AAC}$ , EXCEPT WHERE SPECIFICALLY EXEMPT BY THE CODE.	NR	R	R	ART. 1.4 B
DURING CONSTRUCTION, VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE.	NR	R	R	ART. 1.5 & 1.6.3
DURING CONSTRUCTION, VERIFICATION OF $f_m$ AND $f_{AAC}$ FOR EVERY 5,000 sq. ft. (465 sq.m).	NR	NR	R	ART. 1.4 B
DURING CONSTRUCTION, VERIFICATION OF PORPORTIONS OF MATERIALS AS DELIVERED TO THE PROJECT SITE FOR PREMIXED OR PREBLENDED MORTAR, PRESTRESSING GROUT, AND GROUT OTHER THAN SELF-CONSOLIDATING GROUT.	NR	NR	R	ART. 1.4 B

(a) R=REQUIRED, NR=NOT REQUIRED

MINIMUM SPECIAL INSPECTION	REQUIRED FOR QUALITY ASSURANCE (a)			REFERENCE FOR CRITERIA	
	LEVEL 1	LEVEL 2	LEVEL 3	TMS 402	TMS 602
1. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
A. PROPORTION OF SITE-PREPARED MORTAR	NR	P	P		ART. 2.1, 2.6 A, & 2.6 C
B. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES	NR	P	P		ART. 2.4 B & 2.4 H
C. GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES	NR	P	P		ART. 3.4 & 3.6 A
D. PRESTRESSING TECHNIQUE	NR	P	P		ART. 3.6 B
E. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	NR	C(b)P(c)	C		ART. 2.1 C.1
F. SAMPLE PANEL CONSTRUCTION	NR	P	C		ART. 2.1 C.1
2. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
A. GROUT SPACE	NR	P	C		ART. 3.2 D & 3.2 F
B. PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES	NR	P	P	SEC. 10.8 & 10.9	ART. 2.4 & 3.6
C. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	NR	P	C	SEC. 6.1, 6.3.1, 6.3.6, & 6.3.7	ART. 2.4 & 3.6
D. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	NR	P	P		ART. 2.6 B & 2.4 G.1.b
3. VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION:					
A. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS	NR	P	P		ART. 1.5
B. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION	NR	P	P		ART. 3.3 B
C. SIZE AND LOCATION OF STRUCTURAL MEMBERS	NR	P	P		ART. 3.3 F
D. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.	NR	P	C	SEC. 1.2.1(e), 6.2.1 & 6.3.1	
E. WELDING OF REINFORCEMENT	NR	C	C	SEC. 6.1.6.1.2	
F. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F(4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F(32.2°C))	NR	P	P		ART. 1.8 C & 1.8 D
G. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	NR	C	C		ART. 3.6 B
H. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	NR	C	C		ART. 3.5 & 3.6 C
I. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	NR	C(b)P(c)	C		ART. 3.3 B.9 & 3.3 F.1.b
4. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	NR	P	C		ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, & 1.4 B.4

(a) FREQUENCY REFERS TO THE FREQUENCY OF INSPECTION, WHICH MAY BE CONTINUOUS DURING THE LISTED TASK OR PERIODICALLY DURING THE LISTED TASK, AS DEFINED IN THE TABLE.  
 NR=NOT REQUIRED, P=PERIODIC, C=CONTINUOUS  
 (b) REQUIRED FOR THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY.  
 (c) REQUIRED AFTER THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY.

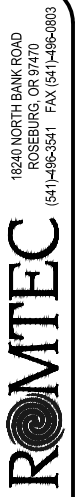
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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM  
**JOHN F. KENNEDY RR FACILITY**  
**SACRAMENTO, CALIFORNIA**  
 SHEET TITLE: DESIGN CRITERIA AND CODE SUMMARY

PLAN SET# LFK01  
 DATE: 10/16/2023  
 REVISIONS  
 REV. 1 DATE: 10-23-2023 BY: CR  
 DRAWN BY: CR



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SHEET NO.

G2



TABLE 1705A.3  
REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARDa	CBC REFERENCE
1. INSPECT AND TEST REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	—	X	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	1908A.3, 1910A.3; [DSA-SS/CC] 1908A.4, 1910A.2, 1909.2.4, 1909.2.5
2. REINFORCING BAR WELDING:				
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706;	—	X	AWS D1.4 ACI 318: 26.6.4	1705A.3.1, 1903A.8
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16", AND		X		
c. INSPECT ALL OTHER WELDS.	X			
3. INSPECT ANCHORS CAST IN CONCRETE.	—	X	ACI 318: 17.8.2, 26.7.2, 26.8.2	—
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS B, C				
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO	X		ACI 318: 17.8.2.4	1705A.3.8, 1910A.5, [DSA-SS/CC] 1909.2.7
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A. RESIST SUSTAINED TENSION LOADS.		X	ACI 318: 17.8.2	1705A.3.8, 1910A.5, [DSA-SS/CC] 1909.2.7
5. VERIFY USE OF REQUIRED DESIGN MIX.	—	X	ACI 318: Ch. 19, 26.4	1903A.5, 1903A.6, 1903A.7, 1904A.1, 1904A.2, 1908A.2, 1908A.3, 1910A.1, [DSA-SS/CC] 1909.2.1, 1909.2.2, 1909.2.3
6. PRIOR TO AND DURING CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	—	ASTM C172 ASTM C31 ACI 318: 26.4, 26.12	1705A.3.5, 1705A.3.6, 1905A.1.16, 1908A.5, 1908A.10, [DSA-SS/CC] 1908.5, 1909.3.7, 1908.10, 1909.4.1
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	—	ACI 318: 26.5, ACI 506: 3.4	1908A.5, 1908A.6, 1908A.7, 1908A.8, 1908A.10, 1908A.12, [DSA-SS/CC] 1909.4.5
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	—	X	ACI 318: 26.5.3-26.5.5	1908A.9
9. INSPECT PRESTRESSED CONCRETE FOR:				
a. APPLICATION OF PRESTRESSING FORCES; AND	X	—		
b. GROUTING OF BONDED PRESTRESSING TENDONS.	X	—	ACI 318: 26.10.2	1705A.3.4
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	—	X	ACI 318: 26.9.2	—
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	—	X	ACI 318: 26.10.2, 26.11.2	1911A.1, [DSA-SS/CC] 1909.5,
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	—	X	ACI 318: 26.11.1.2(b)	1908A.11, [DSA-SS/CC] 1909.4.4

- a. WHERE APPLICABLE, SEE SECTION 1705A.12, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.
- b. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.
- c. INSTALLATION OF ALL ADHESIVE ANCHORS IN HORIZONTAL AND UPWARDLY INCLINED POSITIONS SHALL BE PERFORMED BY AN ACI/CRSI CERTIFIED ADHESIVE ANCHOR INSTALLER, EXCEPT WHERE THE DESIGN TENSION ON THE ANCHORS IS LESS THAN 100 POUNDS AND THOSE ANCHORS ARE CLEARLY NOTED ON THE APPROVED CONSTRUCTION DOCUMENTS OR WHERE THE ANCHORS ARE SHEAR DOWELS ACROSS COLD JOINTS IN SLABS ON GRADE WHERE THE SLAB IS NOT PART OF THE LATERAL FORCE-RESISTING SYSTEM.

TABLE 1705A.2.1  
REQUIRED SPECIAL INSPECTIONS AND TESTS OF STEEL CONSTRUCTION

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARDa	CBC REFERENCEa
1. MATERIAL IDENTIFICATION AND TESTING OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:				
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	—	X	RCSC: 1.5, AISC 360: A3.3, J3.1 and applicable ASTM material standards	2202A.1, [DSA-SS/ CC] 2202.1
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	—	X	RCSC: 1.5 & 2.1; AISC 360: A3.3 & N3.2	—
c. TESTING OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS.	—	—	RCSC: 7.2, Applicable ASTM material standards	2213A.1, [DSA-SS/ CC] 2212.6.1
2. INSPECTION OF HIGH-STRENGTH BOLTING:				
a. SNUG-TIGHT JOINTS.	—	X		
b. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT W/ MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION	—	X	RCSC: 7-9, AISC 360: J3.1, J3.2, M2.5 & N5.6	1705A.2.6, 2204A.2, [DSA-SS/ CC] 2204.2
c. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION.	X	—		



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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM

**JOHN F. KENNEDY RR FACILITY**  
**SACRAMENTO, CALIFORNIA**

PLAN SET#  
**LFK01**

DATE:  
**10/16/2023**

REVISIONS

REV.	DATE:	BY:

DRAWN BY:


CR

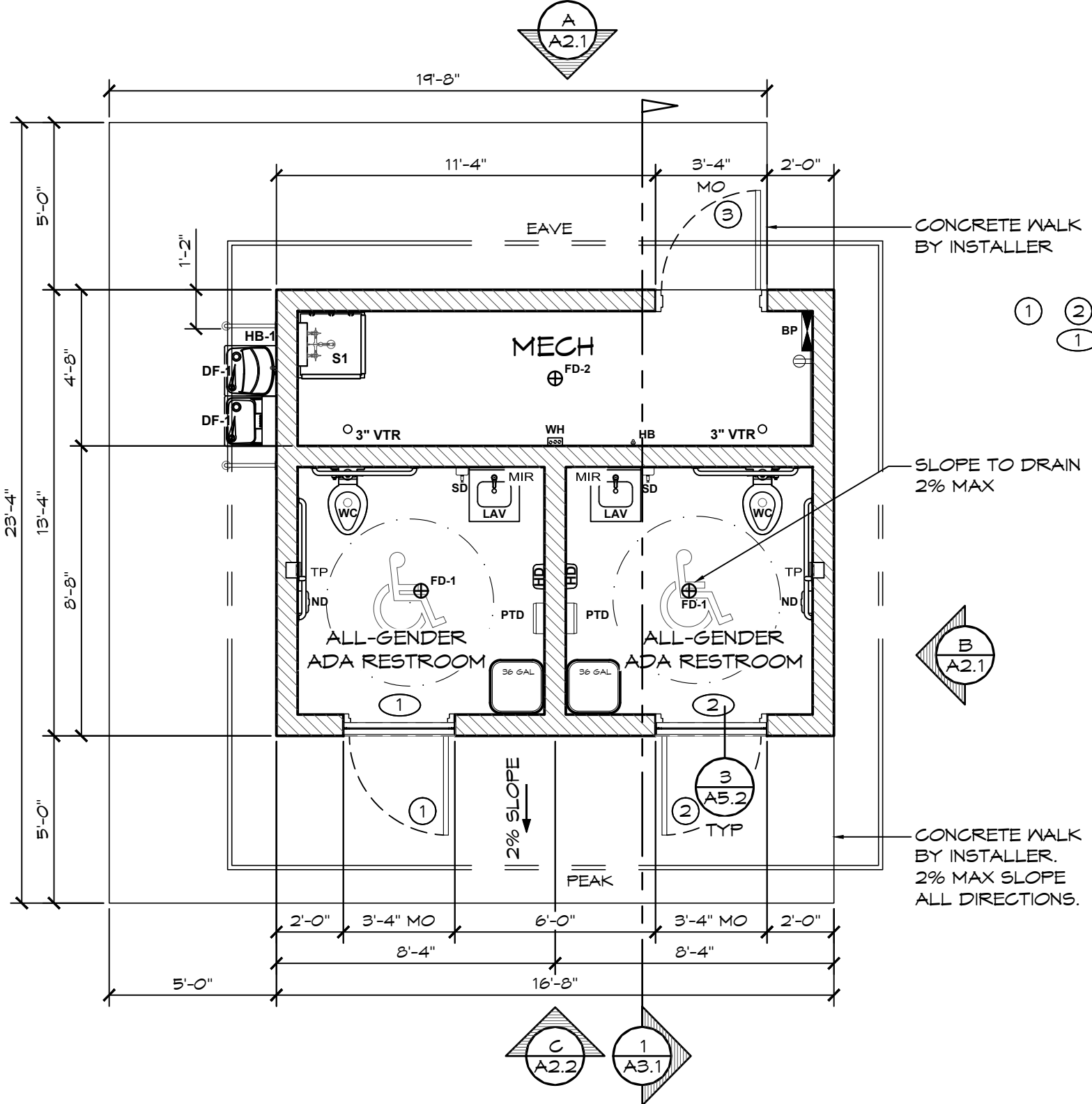
SHEET NO.

G3



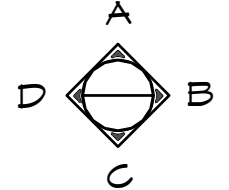
# WALL TYPE SCHEDULE

 8" REINFORCED CONCRETE MASONRY BLOCK WALL WITH MORTAR JOINTS, GROUTED SOLID ALL CELLS RUNNING BOND PATTERN.



- NOTES:
- SEE SHEET A1.2 FOR ADA CLEARANCES.
  - SEE SHEET A5.1 FOR DOOR LEGEND.
  - SEE SHEET A6.1 FOR VENT LEGEND
  - SEE FOUNDATION PLANS AND DETAILS FOR SLAB DESIGN AND DETAILS.
  - SEE G1 FOR LEGEND AND ABBREVIATIONS & A1.3 FOR FIXTURES.

**1 FLOOR PLAN**  
SCALE: 1/4" = 1'-0"



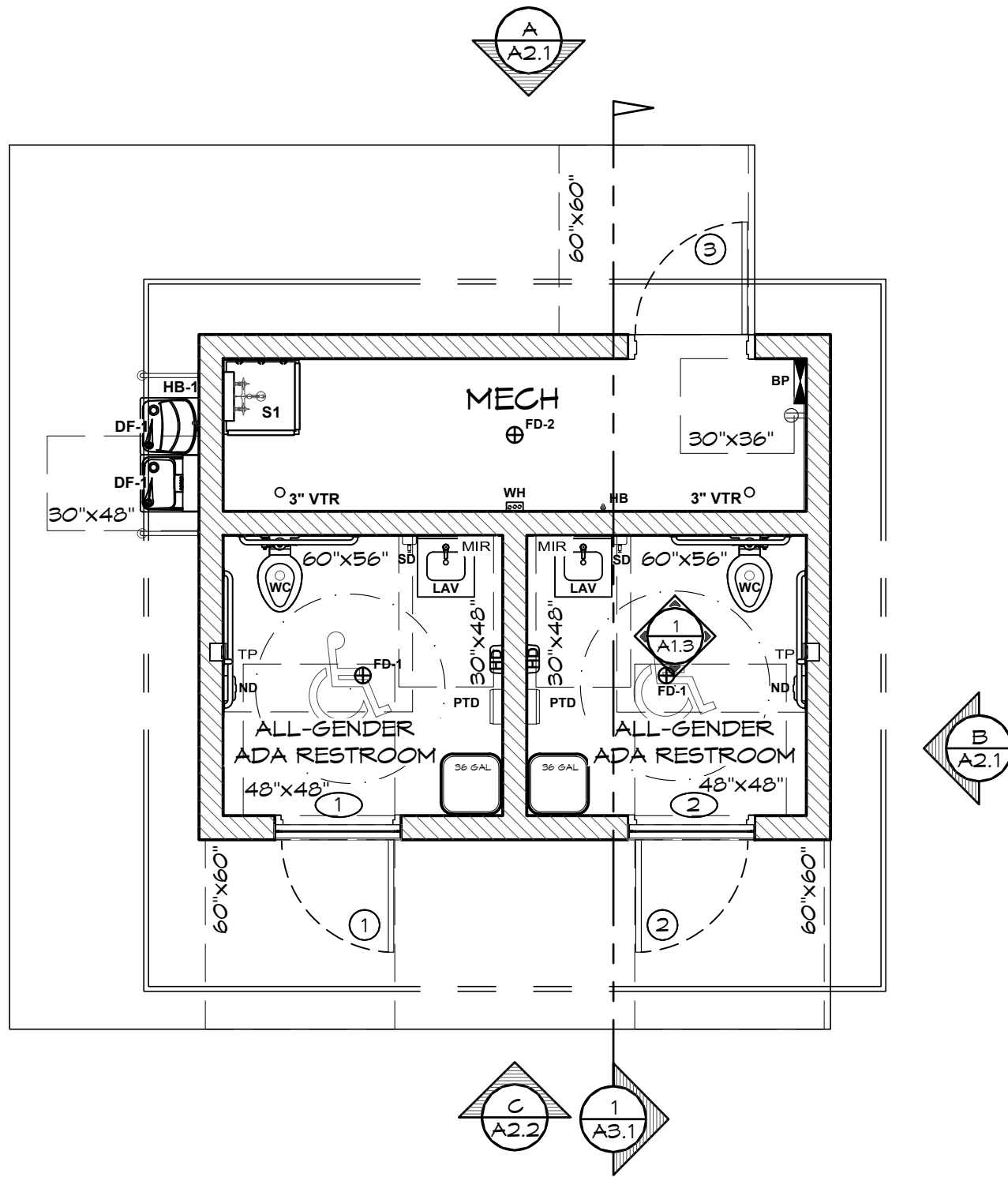
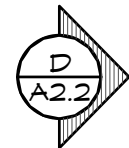
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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM  
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**SACRAMENTO, CALIFORNIA**  
SHEET TITLE: FLOOR PLAN

PLAN SET#	LFK01
DATE:	10/16/2023
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SHEET NO. **A1.1**

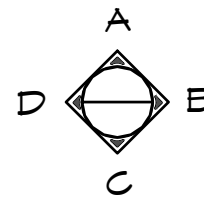




1

ADA RESTROOM FIXTURE CLEAR FLOOR AREA

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



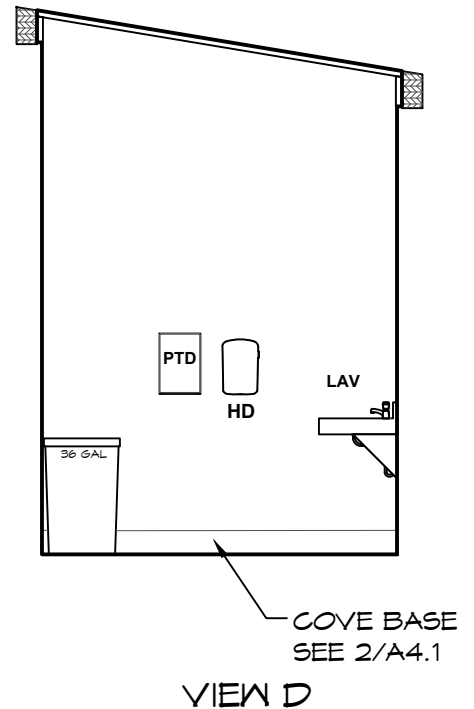
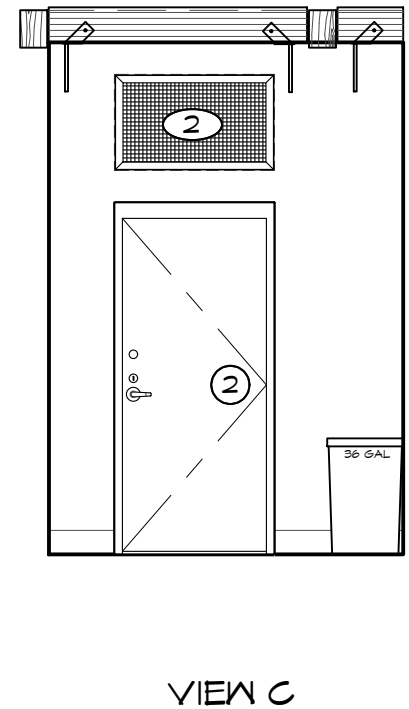
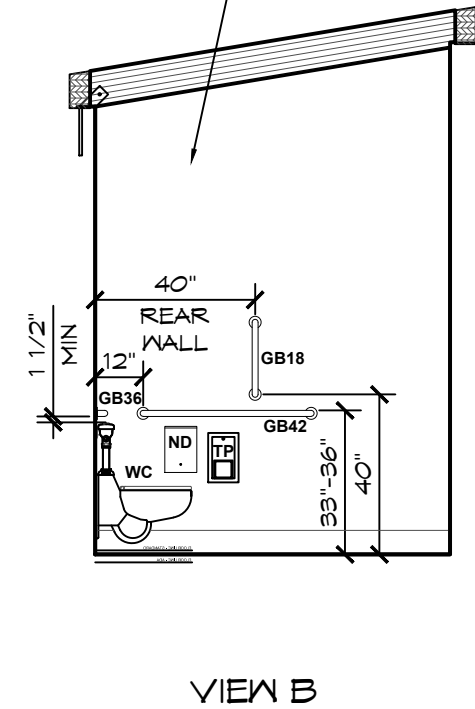
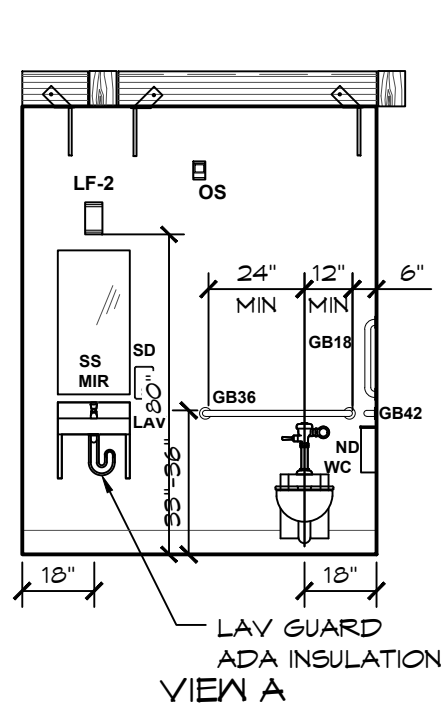
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PLAN SET#	LTK01													
DATE:	10/16/2023													
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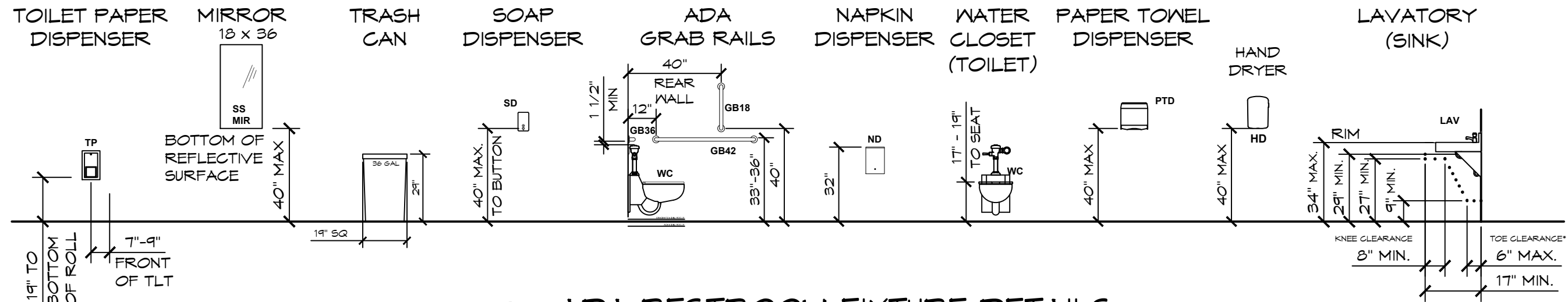
SHEET NO. **A1.2**



WALLS AND PARTITIONS WITHIN 2 FEET OF SERVICE SINKS, URINALS AND WATER CLOSETS SHALL HAVE SMOOTH, HARD, NONABSORBENT SURFACE, TO A HEIGHT OF NOT LESS THAN 4 FEET ABOVE THE FLOOR PER CBC 2022 1210.2.2  
 FLOORS AND WALL BASES SHALL HAVE A SMOOTH, HARD, NONABSORBENT VERTICAL BASE THAT EXTENDS UPWARD ONTO THE WALLS NOT LESS THAN 4 INCHES PER CBC 2022 1210.2.1.  
 FOR EXTERIOR/INTERIOR FINISH SCHEDULE REFER TO SHEET A4.1



**1 ADA RESTROOM INTERIOR ELEVATION VIEWS**  
 SCALE: 1/4" = 1'-0"



**2 ADA RESTROOM FIXTURE DETAILS**  
 SCALE: 1/4" = 1'-0"

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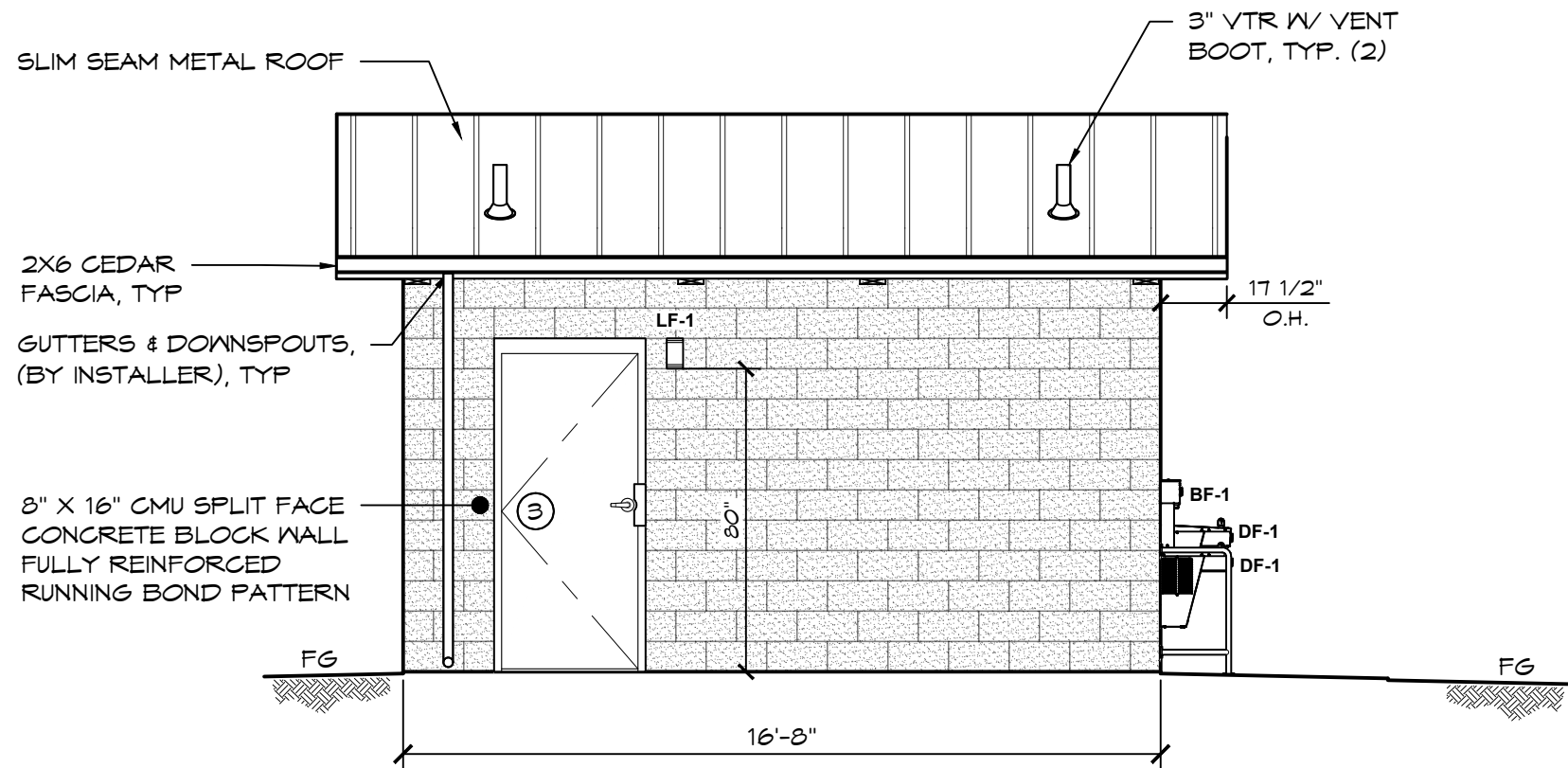
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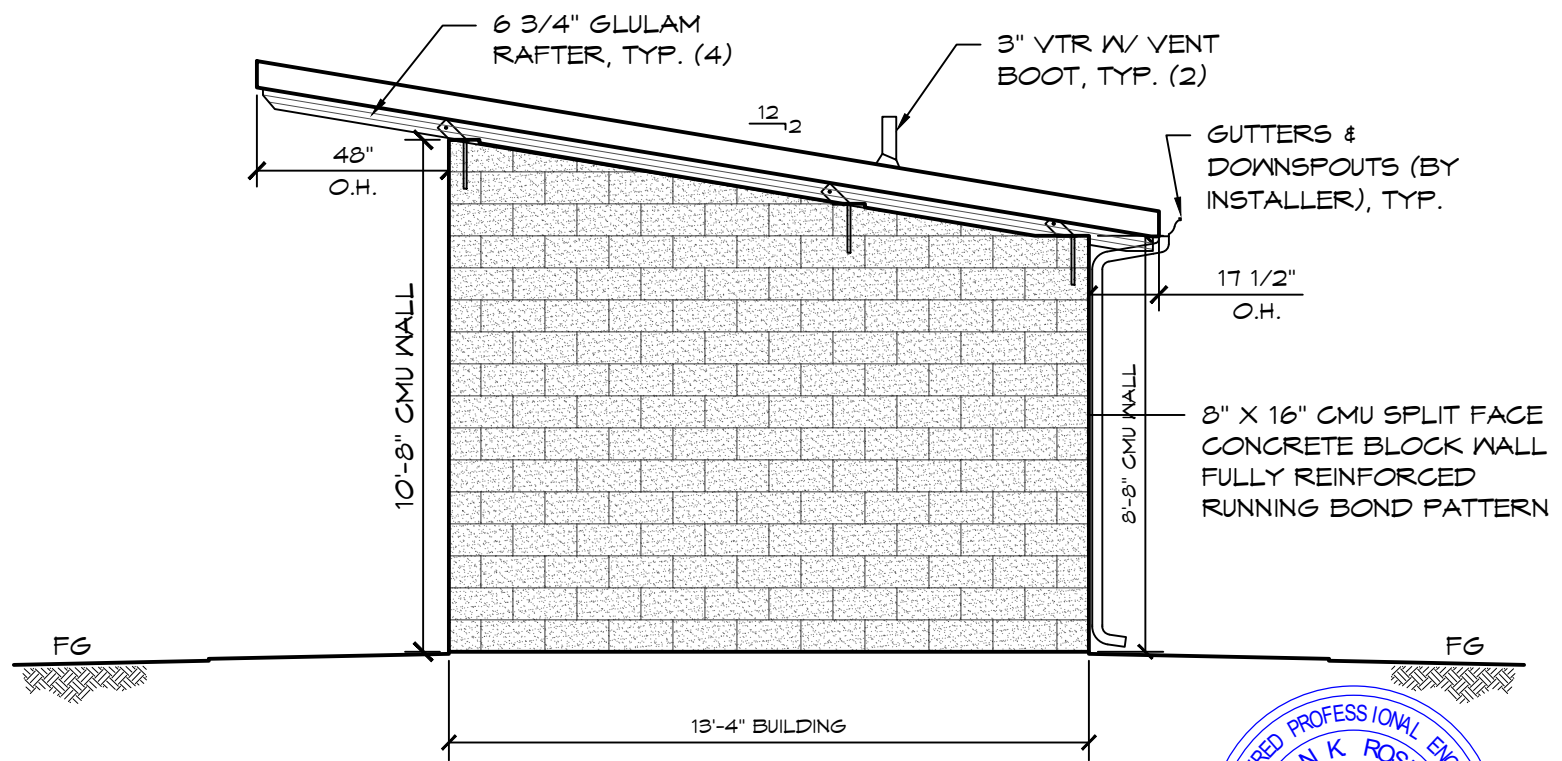


FOR EXTERIOR/INTERIOR FINISH  
SCHEDULE REFER TO SHEET A4.1

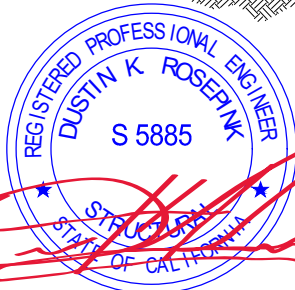


**A** ELEVATION VIEW  
SCALE: 1/4" = 1'-0"

NOTES:  
③ 1. SEE SHEET A5.1 FOR DOOR LEGEND.




**B** ELEVATION VIEW  
SCALE: 1/4" = 1'-0"



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 SHEET TITLE: EXTERIOR ELEVATIONS

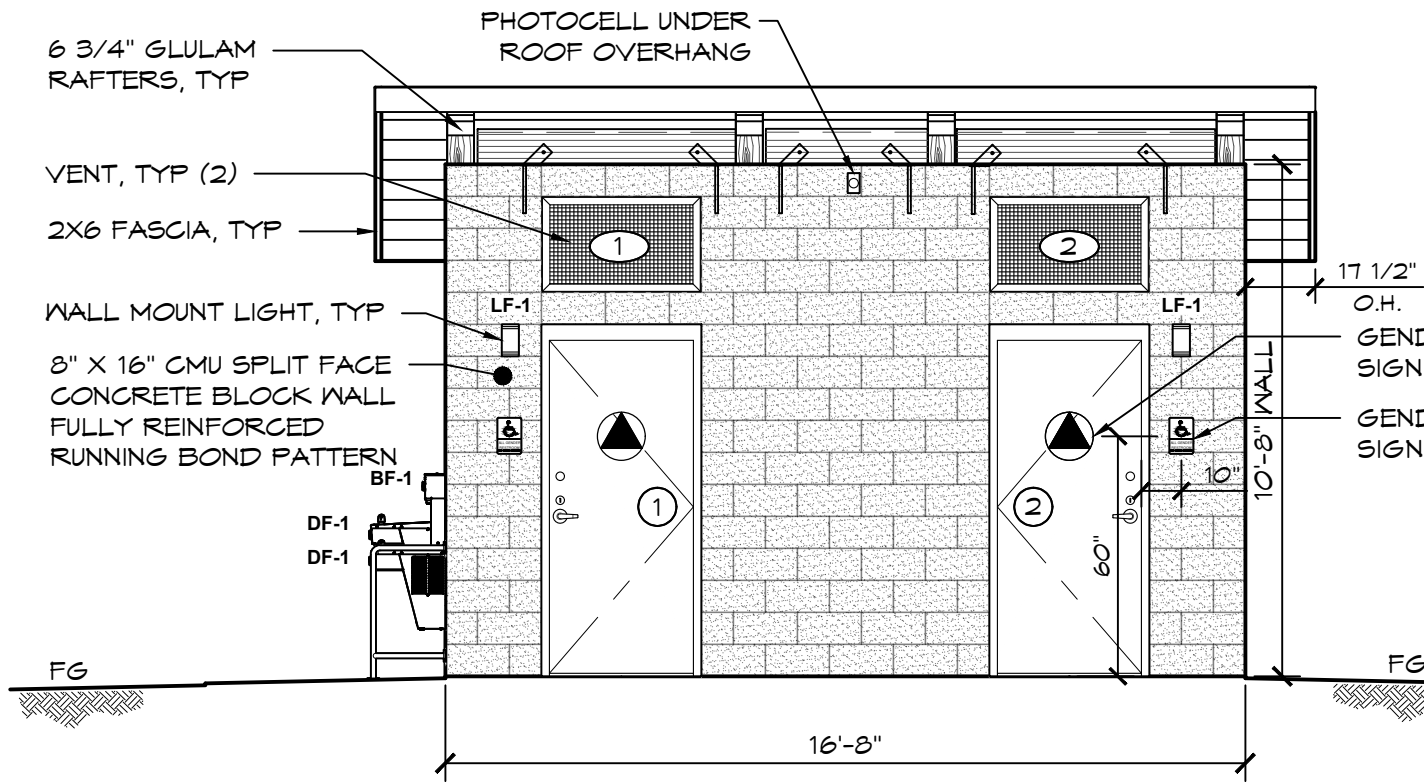
  
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1	10-23-2023	CR	
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SHEET NO. **A2.1**



FOR EXTERIOR/INTERIOR FINISH  
SCHEDULE REFER TO SHEET A4.1

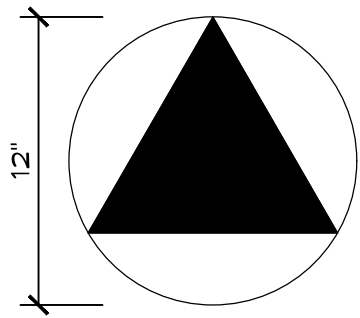


- NOTES:
- ① ② 1. SEE SHEET A5.1 FOR DOOR LEGEND.
  - ① ② 2. SEE SHEETS A6.1 FOR VENT LEGEND.

GENDER NEUTRAL PICTORIAL ADA SIGN PER CBC 2019 11B-703.7.2.6  
GENDER NEUTRAL ISA WITH BRAILLE SIGN PER ADA & CBC 2019 11B-703

SIGNS WITH RAISED CHARACTERS AND BRAILLE SHALL BE LOCATED 48" MINIMUM ABOVE THE FINISHED FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST LINE OF BRAILLE AND 60 INCHES MAXIMUM ABOVE THE FINISHED FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS.

**C** ELEVATION VIEW  
SCALE: 1/4" = 1'-0"



NOTE:  
ALL GENDER SANITARY FACILITIES SIGN SHALL BE IDENTIFIED BY A CIRCLE, 1/4" THICK AND 12" INCHES IN DIAMETER WITH 1/4" THICK TRIANGLE SUPERIMPOSED ON THE CIRCLE AND WITHIN THE 12" DIAMETER

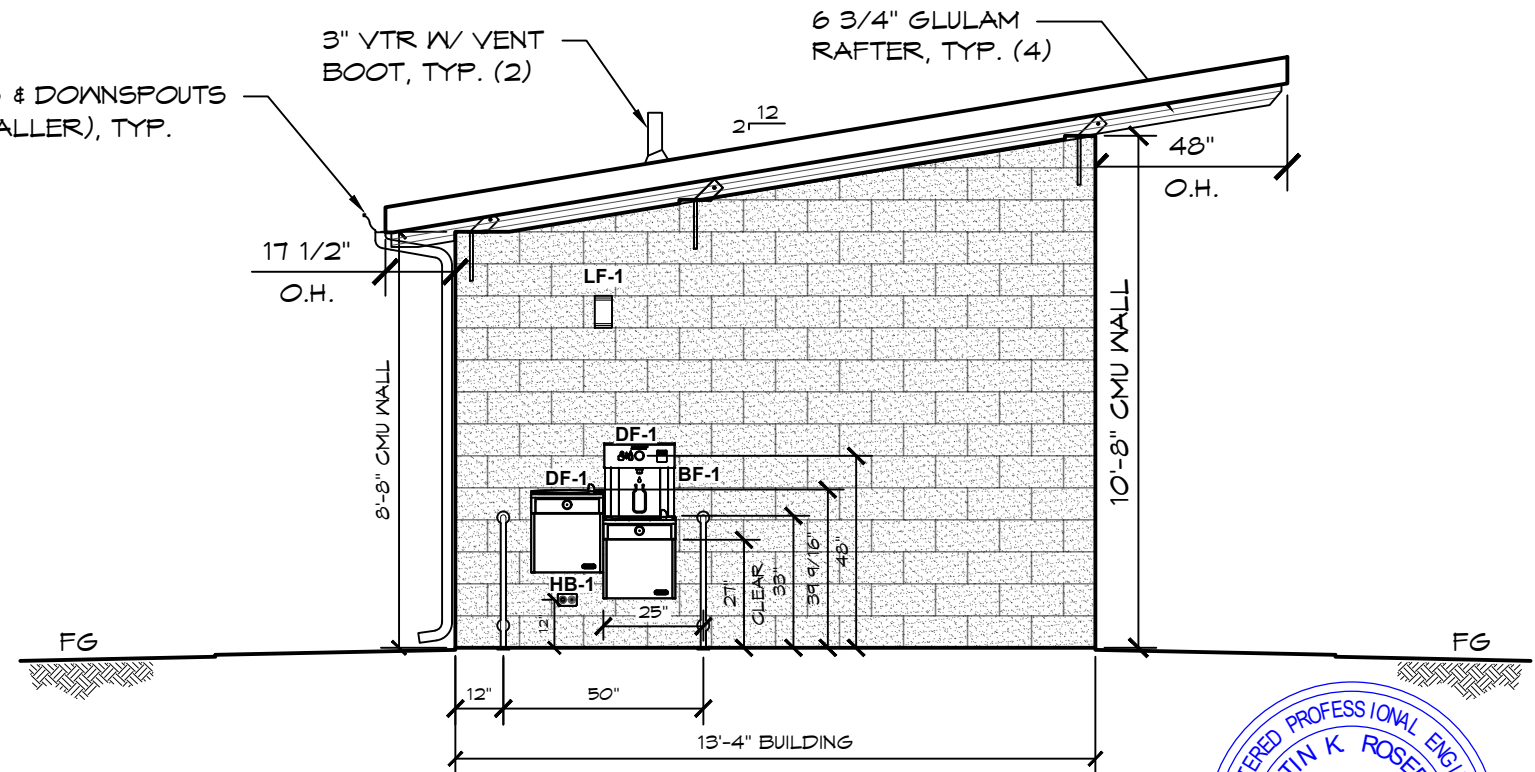


NOTES:

A) CHARACTERS ON SIGNS SHALL BE RAISED 1/32" INCH MINIMUM AND SHALL BE 'SANS SERIF' UPPERCASE CHARACTERS ACCOMPANIED BY GRADE II BRAILLE (WHERE REQUIRED). RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" INCH AND A MAXIMUM OF 2" INCHES HEIGHT.

B) CONTRACTED GRADE II BRAILLE SHALL BE USED WHENEVER BRAILLE IS REQUIRED. DOTS SHALL BE 1/10" TH INCH ON CENTERS IN EACH CELL WITH A 2/10" INCH SPACE BETWEEN CELLS, MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE A RAISED A MINIMUM OF 1/40TH (0.025) INCH ABOVE THE BACKGROUND.

**1** ADA SIGNS DETAIL  
SCALE: 3" = 1'-0"



**D** ELEVATION VIEW  
SCALE: 1/4" = 1'-0"



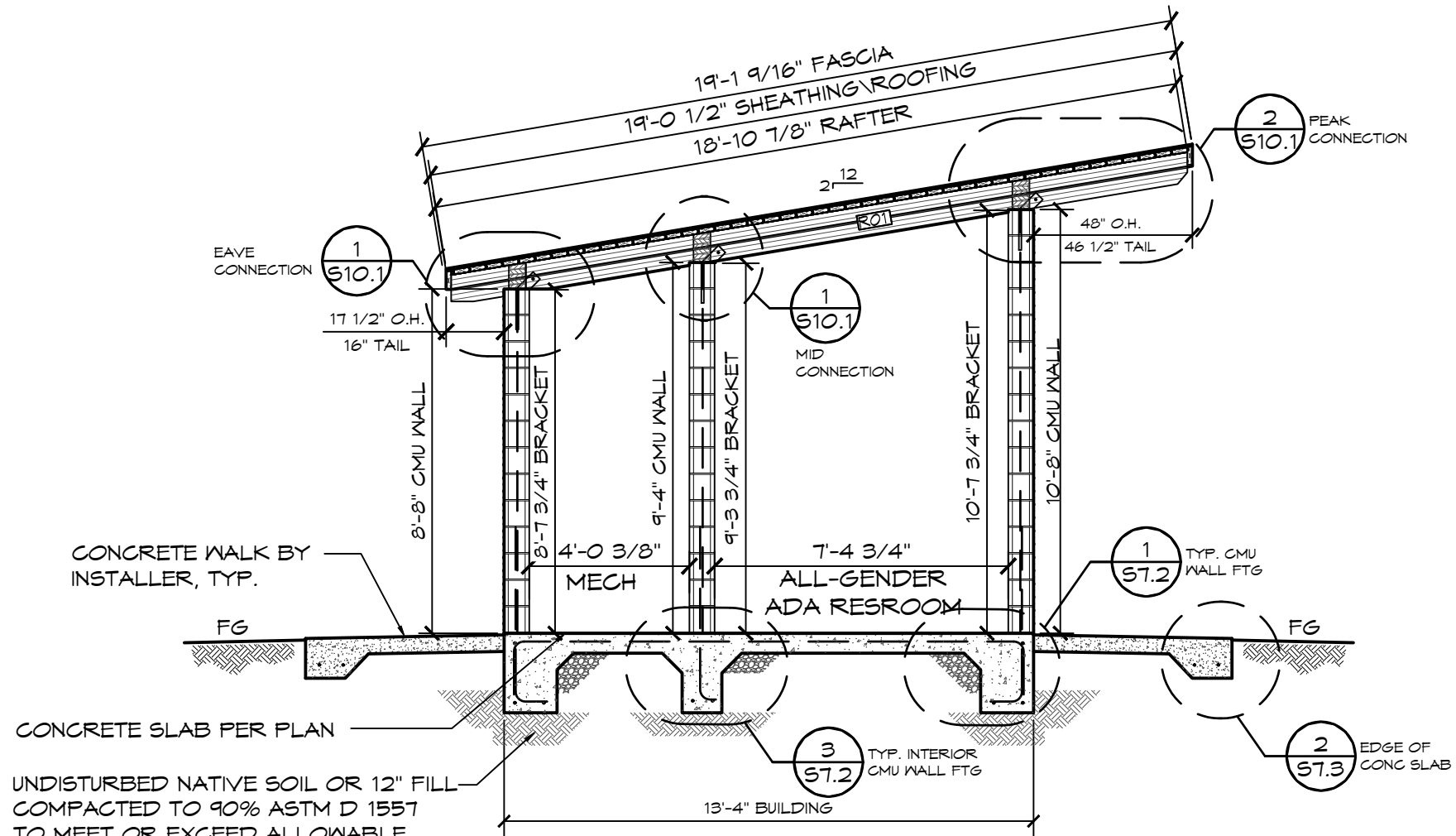
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 SHEET TITLE: EXTERIOR ELEVATIONS  
 PLAN SET# LFK01  
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 REVISIONS  
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CONCRETE WALK BY INSTALLER, TYP.

FG

CONCRETE SLAB PER PLAN

UNDISTURBED NATIVE SOIL OR 12" FILL COMPACTED TO 90% ASTM D 1557 TO MEET OR EXCEED ALLOWABLE BEAR PRESSURE ON SHEET G2. REFER TO GEOTECHNICAL ENGINEERING REPORT.

**1** SECTION VIEW  
SCALE: 1/4" = 1'-0"

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PLAN SET# <b>LFK01</b>		SHEET TITLE: <b>BUILDING SECTIONS</b>
DATE: <b>10/16/2023</b>		
REVISIONS		
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1	10-23-2023	CR
DRAWN BY: <b>CR</b>		

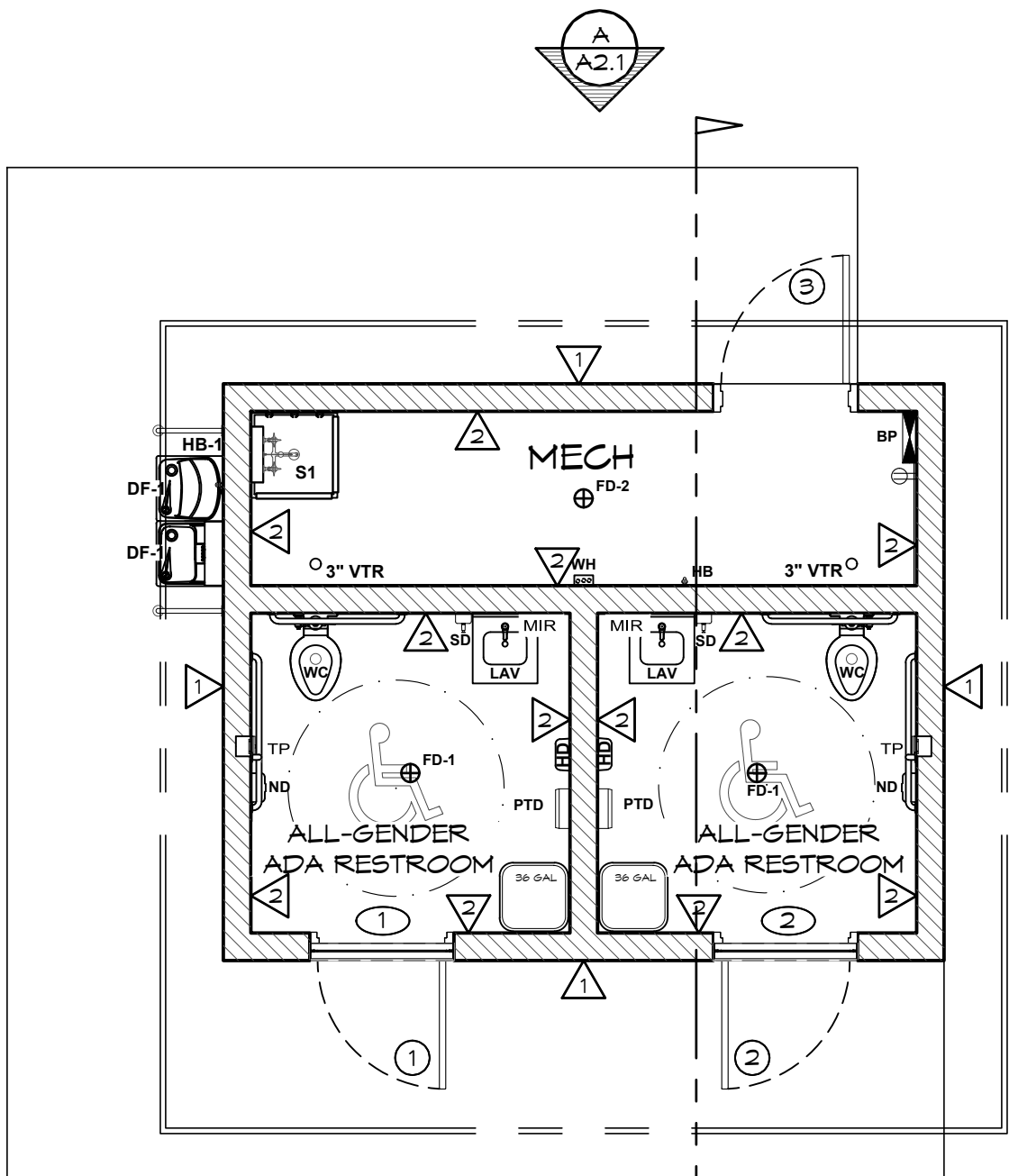


SHEET NO.  
**A3.1**



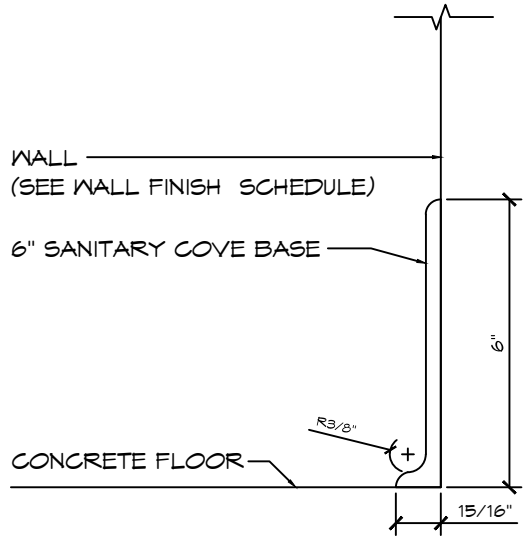
# FINISH SCHEDULE

NO.	LOCATION	FINISH	DETAIL
1	EXTERIOR WALL	8" SPLIT FACE REINFORCED CONCRETE MASONRY BLOCK WALL W/ MORTAR JOINTS, GROUTED SOLID ALL CELLS RUNNING BOND PATTERN.	
2	INTERIOR WALL	PRIMED & (2) COATS OF EPOXY PAINT CMU WALLS FLOOR TO CEILING (INSTALLER SUPPLIED)	
	CEILING	2X6 T&G & GLULAMS TO BE SEALED WITH CLEAR COAT (INSTALLER SUPPLIED)	
	FLOOR	CONCRETE WITH A WATER BASED CONCRETE SEALER (PROVIDED BY INSTALLER)	
	COVE BASE IN RESTROOMS ONLY	SANITARY TILE COVE BASE	DETAIL 2/A4.1



**1** WALL FINISH PLAN  
SCALE: 1/4" = 1'-0"

**2** COVE DETAIL  
SCALE: 3" = 1'-0"



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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM  
 JOHN F. KENNEDY RR FACILITY  
 SACRAMENTO, CALIFORNIA

PLAN SET# LFK01  
 DATE: 10/16/2023  
 REVISIONS  
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REGISTERED PROFESSIONAL ENGINEER  
 DUSTIN K ROSEBINK  
 S 5885  
 STATE OF CALIFORNIA

SHEET NO. A4.1

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**ROMTEC**  
 WALL FINISH SCHEDULE  
 (INTERIOR/EXTERIOR)



## DOOR SCHEDULE

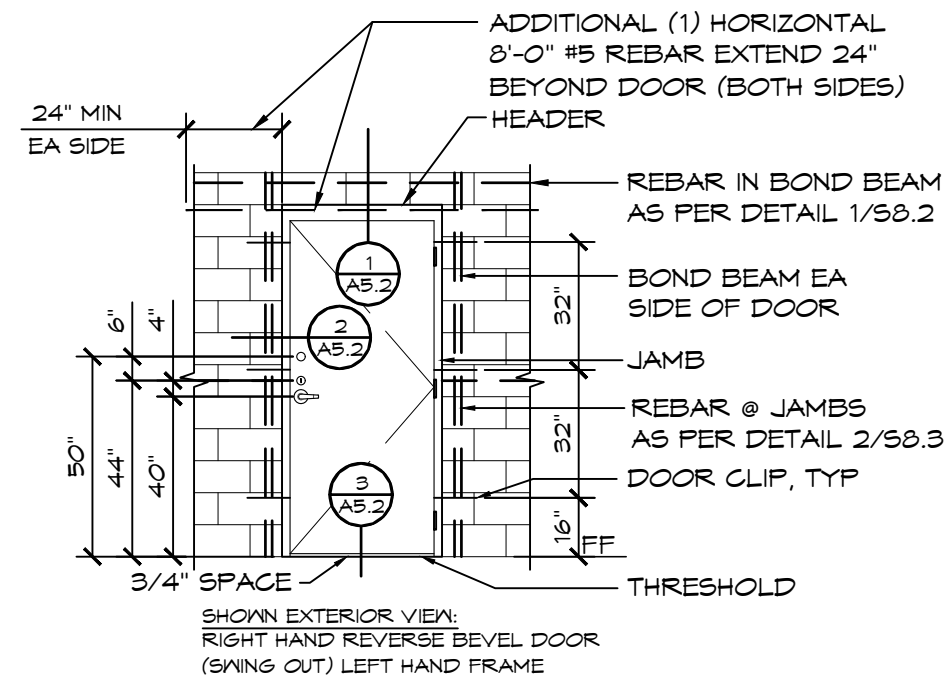
NO	SIZE (WxHxT)	DOOR	FRAME	SWING - DOOR / FRAME	HARDWARE GROUP	REMARKS
1	36"x84"x1 3/4"	SL18	F16	INTERIOR RIGHT HAND (REVERSE) SWING OUT / LEFT HAND	DO~ 1	DOOR DETAIL 1a
2	36"x84"x1 3/4"	SL18	F16	INTERIOR LEFT HAND (REVERSE) SWING OUT / RIGHT HAND	DO~ 1	DOOR DETAIL 1a
3	36"x84"x1 3/4"	SL18	F16	INTERIOR LEFT HAND (REVERSE) SWING OUT / RIGHT HAND	DO~ 2	DOOR DETAIL 1b

## DOOR HARDWARE SCHEDULE (QTYS PER DOOR)

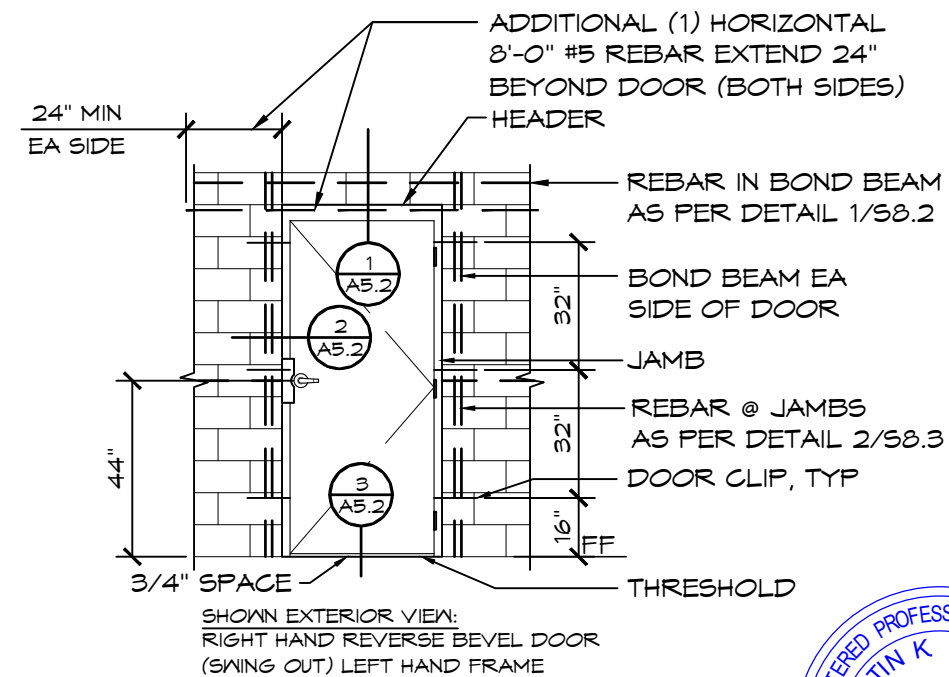
GROUP DO-1	GROUP DO-2	DESCRIPTION
3	3	EACH HINGE 4.5" x 4.5" S.S. (NRP)
1	1	DOOR CLOSER, (USE THRU BOLT ANCHORING OPTION)
1	-	INTERCONNECTED LEVER LOCKSET W/ OCCUPANCY INDICATOR, HAGER - CORRIDOR - (KEY - OUTSIDE / PUSH BUTTON - INSIDE)
1	-	DEADBOLT LOCKSET, SCHLAGE C KEYWAY - ONE-WAY DEADBOLT LOCK, SATIN FINISH - (KEY - OUTSIDE / BLANK - INSIDE)
-	1	LEVER LOCKSET, HAGER - CLASSROOM - (KEY - OUTSIDE / ALWAYS OPEN - INSIDE)
-	1	LATCH GUARD - HAGER
6	6	WIRE DOOR CLIPS

NOTE: THE MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS, WITH SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. WHEN FIRE DOORS ARE UTILIZED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO NOT EXCEED 15 POUNDS. SECTION 11B-404.2.9.

ALL DOOR ~ FACTORY PRIMED (INSTALLER TO PAINT ONSITE)



**1a** DOOR DETAILS  
SCALE: 1/4' = 1'-0"



**1b** DOOR DETAILS  
SCALE: 1/4' = 1'-0"



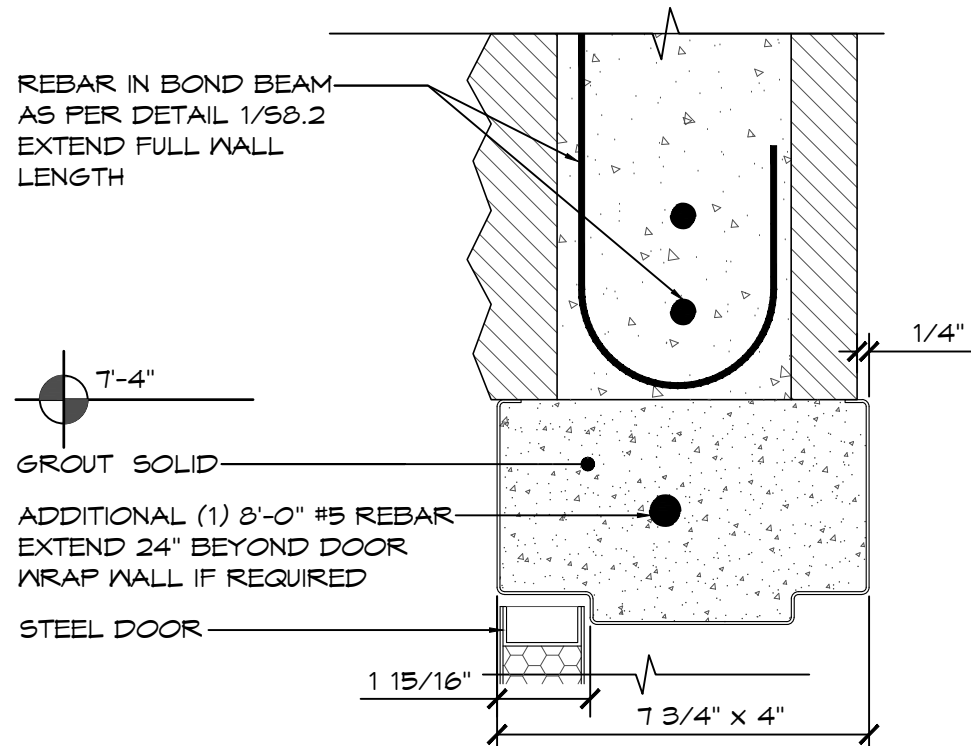
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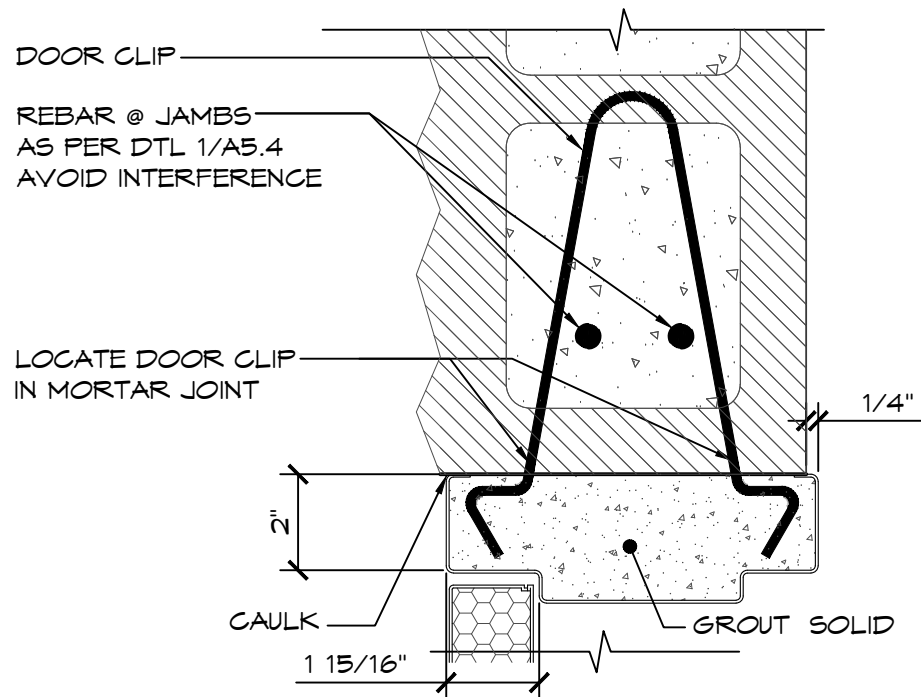
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**SACRAMENTO, CALIFORNIA**  
 SHEET TITLE: DOOR SCHEDULE  
 PLAN SET# LFK01  
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SHEET NO.  
**A5.1**

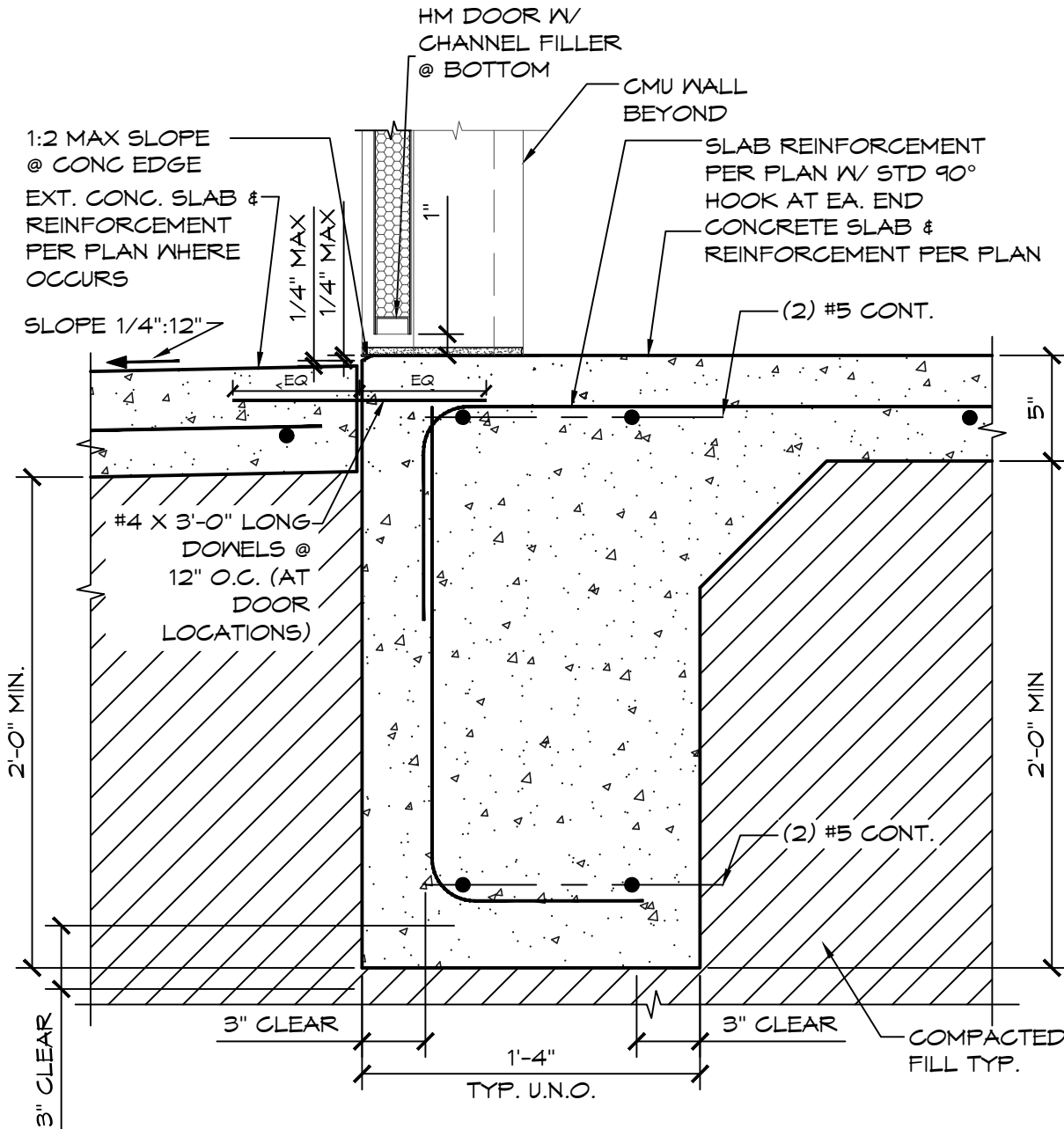




**1** **HEADER DETAIL**  
SCALE: 6" = 1'-0"



**2** **JAMB DETAIL**  
SCALE: 3" = 1'-0"



**3** **THRESHOLD DETAIL**  
SCALE: 1 1/2" = 1'-0"

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(541)-496-3541 FAX (541)-496-0803

**JOHN F. KENNEDY RR FACILITY  
SACRAMENTO, CALIFORNIA**

SHEET TITLE: **DOOR DETAILS**

PLAN SET#	LFK01		
DATE:	10/16/2023		
REVISIONS			
REV.	DATE:	BY:	
1	10-23-2023	CR	
DRAWN BY:	CR		



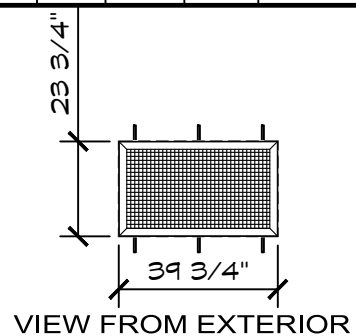


## VENT AND/OR WINDOW SCHEDULE

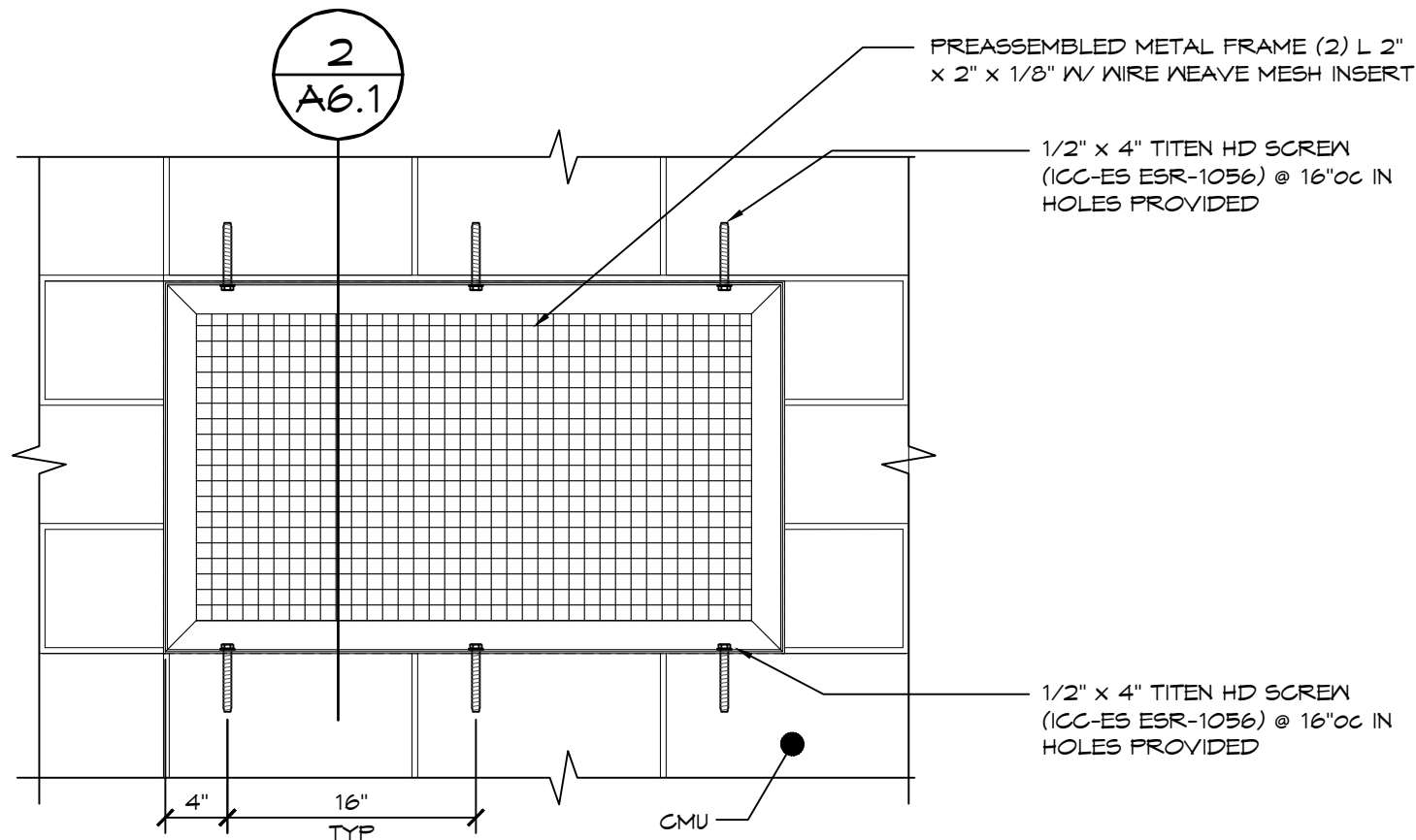
NO	DIMENSIONS	PITCH	INSERT	ROMTEC PRODUCTION #	DIRECTION PER PRODUCTION	FASTENERS			REFERENCE / DETAILS
						SILL	TOP	HYP	
①	39 3/4" x 23 3/4"	N/A	WIRE MESH	PRODUCTION # XN-000-1025		3	3	-	STEEL FRAME
②	39 3/4" x 23 3/4"	N/A	WIRE MESH	PRODUCTION # XN-000-1025		3	3	-	STEEL FRAME

### HARDWARE (QUANTITY PER SCHEDULE)

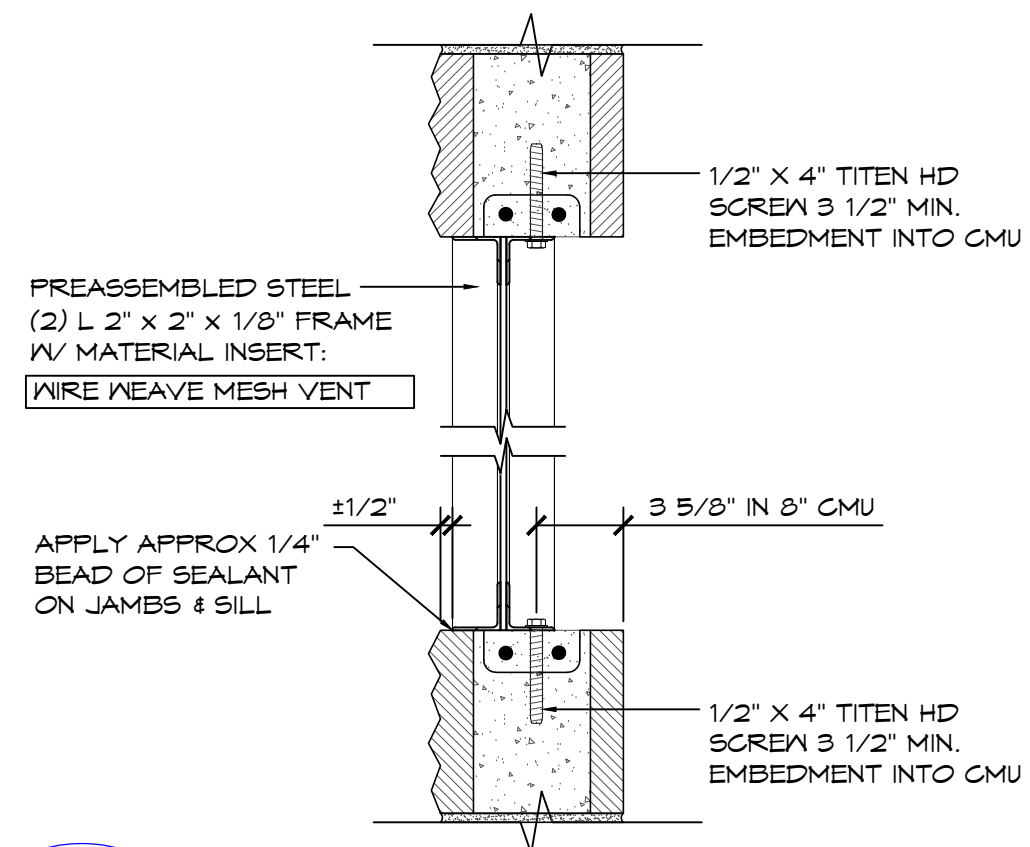
SILL	1/2" x 4"	TITEN HD SCREW (ICC-ES ESR-1056)
TOP	1/2" x 4"	TITEN HD SCREW (ICC-ES ESR-1056)



NOTE: DURING THE CONSTRUCTION PROCESS IT IS COMMON FOR SMALL GAPS TO APPEAR IN ANY NUMBER OF PLACES. ROMTEC DOES NOT PROVIDE CAULK OR ANY OTHER MATERIAL TO FILL THESE SMALL GAPS UNLESS IT IS SPECIFIED IN OUR SUBMITTAL



① VENT DETAIL  
SCALE: 1" = 1'-0"



② SECTION VIEW (SIDE)  
SCALE: 1 1/2" = 1'-0"



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Project #:

**ROMTEC**  
18240 NORTH BANK ROAD  
ROSEBURG, OR 97470  
(541) 486-3541 FAX (541) 486-0803

PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM  
**JOHN F. KENNEDY RR FACILITY**  
**SACRAMENTO, CALIFORNIA**  
SHEET TITLE: VENT SCHEDULE & DETAILS


PLAN SET#	LFK01		
DATE:	10/16/2023		
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REV.	DATE:	BY:	
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SHEET NO.

A6.1

5" CONG SLAB W/ #5 REBAR @ 16" OC EW FROM CENTER OF SLAB.  
 LOCATE REBAR AT SLAB MID-DEPTH.  
 PLACE SLAB OVER 15 MIL STEGO WRAP VAPOR BARRIER, OVER 6" THICK CAPILLARY BREAK OF 3/4" CLEAN CRUSHED ROCK.  
 REFER TO GEOTECHNICAL ENGINEER REPORT.

## WALL TYPE SCHEDULE

 8" REINFORCED CONCRETE MASONRY BLOCK WALL WITH MORTAR JOINTS, GROUTED SOLID ALL CELLS RUNNING BOND PATTERN.

FINISH SLAB WITH A WATER BASED CONCRETE SEALER (PROVIDED BY INSTALLER)

## RECYCLE

RECYCLE ALL USED SHIPPING MATERIALS AND LEFT OVER BUILDING MATERIALS

### NOTES:

#### CONCRETE:

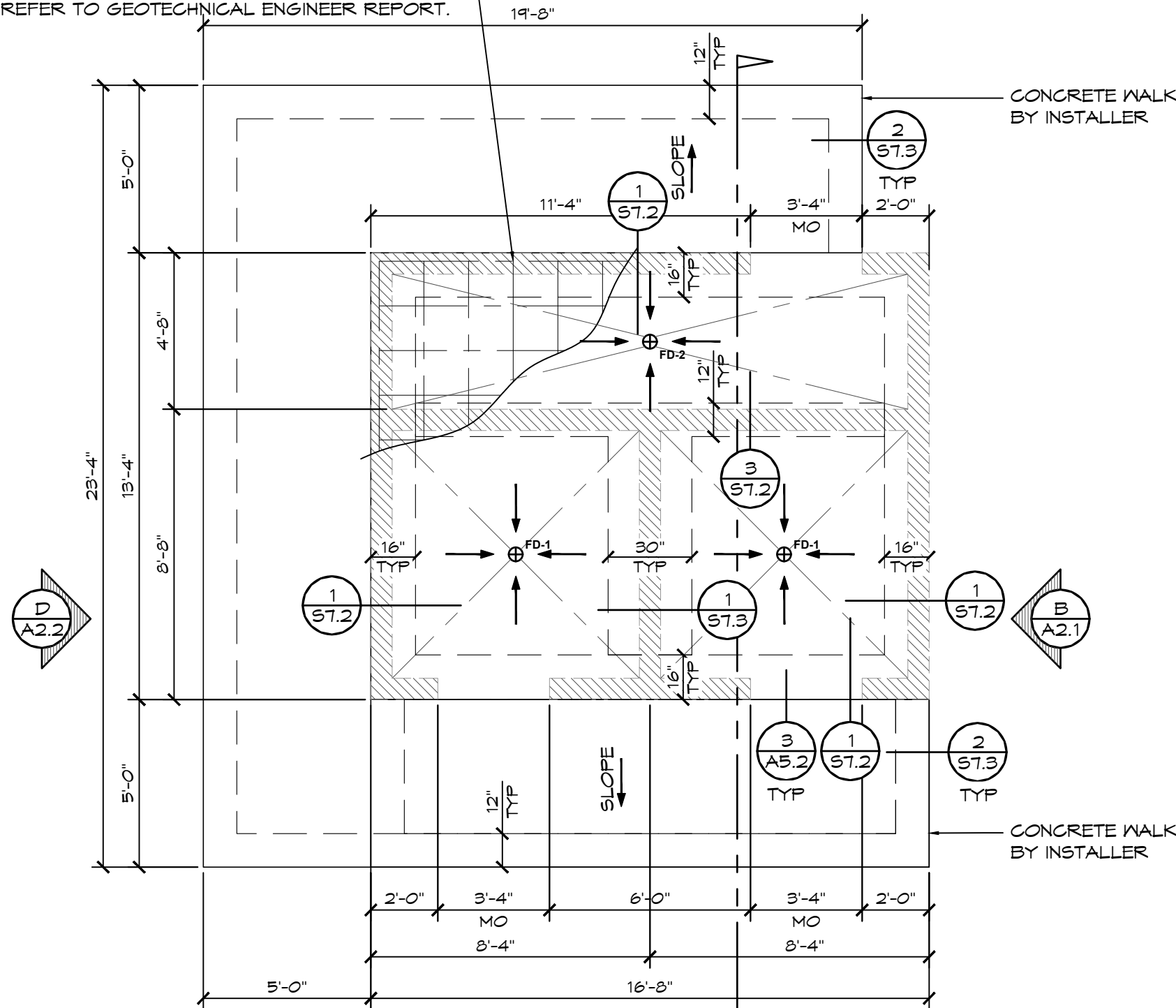
1. FINISH FLOOR SLOPE IS 2% (1/4" PER FT) MAX & 1% (1/8" PER FT) MIN
2. PROVIDE BLOCK-OUTS FOR PLUMBING, MECHANICAL, & ELECTRICAL AS REQD. CO-ORDINATE W/ SUBS.
6. SAW JOINTS BY CONTRACTOR. SLAB APPEARANCE IS A PRIORITY. LOCATE JOINTS AT 10' O.C. MAX. SEE 3/S7.3.
11. CONCRETE SLAB BENEATH FLOOR MOUNTED FIXTURES IS TO BE GROUTED LEVEL AND SMOOTH.

#### MASONRY:

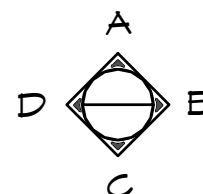
12. PROVIDE BLOCK-OUTS FOR PLUMBING, MECHANICAL, & ELECTRICAL AS REQD. CO-ORDINATE W/ SUBS.
13. CONSOLIDATE GROUT AT THE TIME OF PLACEMENT. CONSOLIDATE POURS EXCEEDING 12 IN. IN HEIGHT BY MECHANICAL VIBRATION, AND RECONSOLIDATE BY MECHANICAL VIBRATION AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED. CONSOLIDATION AND RECONSOLIDATION ARE NORMALLY ACHIEVED WITH A MECHANICAL VIBRATOR. A LOW VELOCITY VIBRATOR WITH A 3/4 IN. HEAD IS USED.
14. GROUT SLUMP IS TO BE BETWEEN 9" +/- 1" SLUMP.

#### SOIL PREP.:

15. MAXIMUM SLOPE OF EXCAVATION MAY BE LIMITED BY LOCAL SOIL CONDITIONS. INCREASE DEPTH OF FORMED CONCRETE AS REQD. REFER TO GEOTECHNICAL REPORT.
16. UNDER FOOTINGS: UNDISTURBED NATIVE SOIL OR 12" FILL COMPACTED TO 90% ASTM D 1557 TO MEET OR EXCEED ALLOWABLE BEAR PRESSURE ON SHEET G2.
17. REFER TO GEOTECHNICAL REPORT FOR SOILS SUBGRADE PREPARATION RECOMMENDATIONS.



**1 FOUNDATION PLAN**  
 SCALE: 1/4" = 1'-0"



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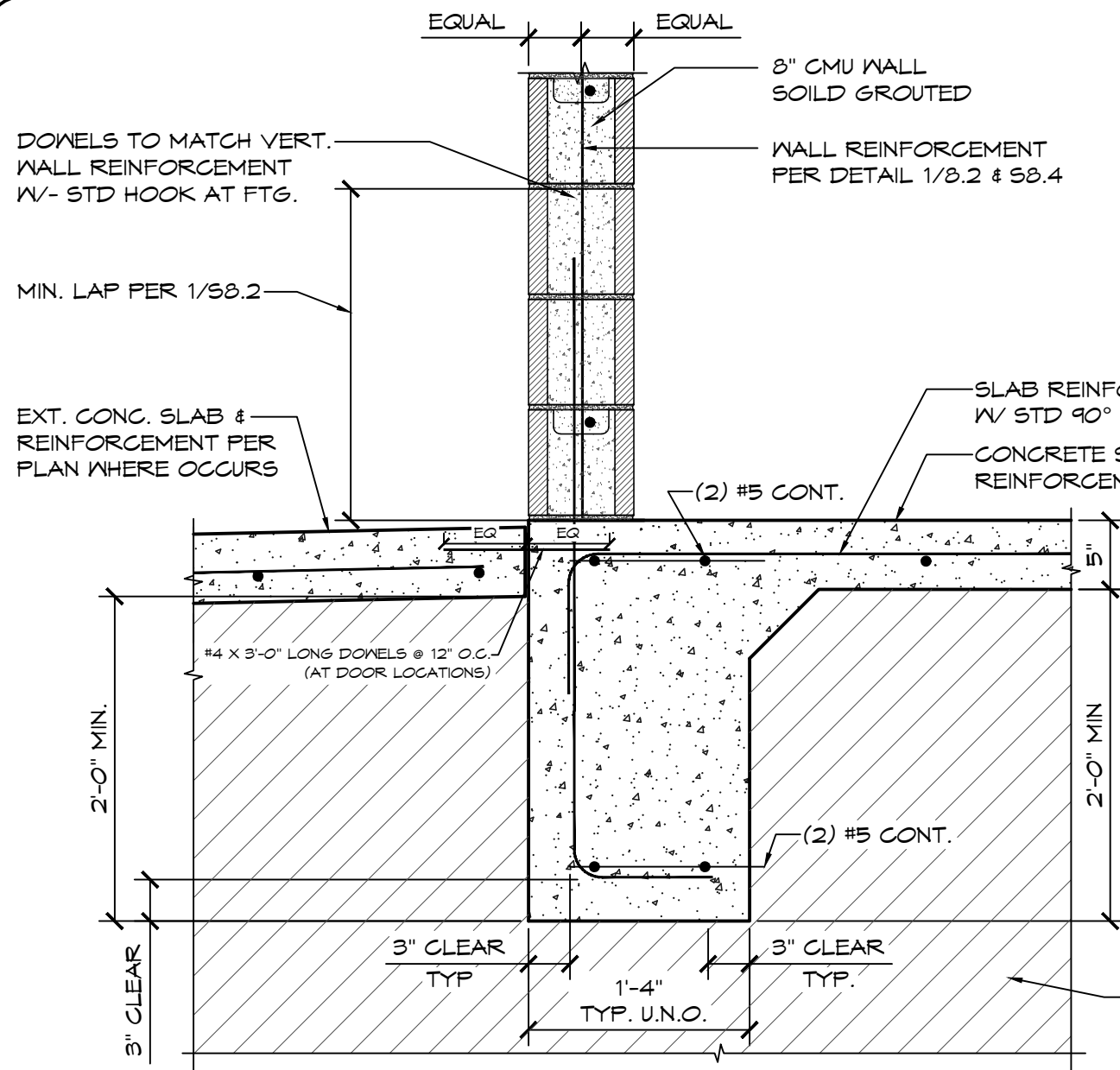
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 ROSEBURG, OR 97470  
 (541)-486-3541 FAX (541)-486-0803

PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM  
**JOHN F. KENNEDY RR FACILITY**  
**SACRAMENTO, CALIFORNIA**  
 SHEET TITLE: FOUNDATION PLAN

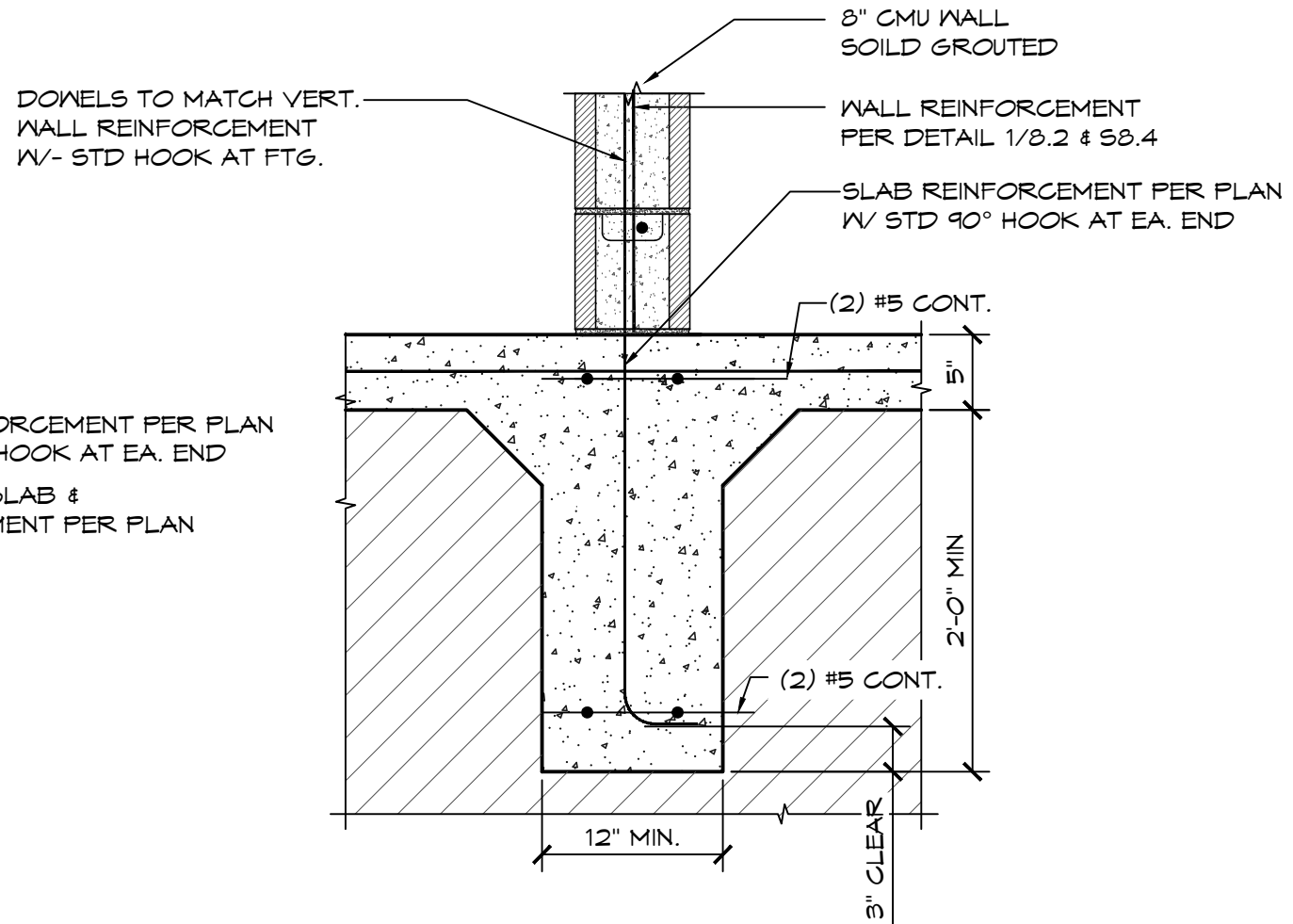
PLAN SET#	LFK01		
DATE:	10/16/2023		
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REV.	DATE:	BY:	
1	10-23-2023	CR	
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SHEET NO. **S7.1**

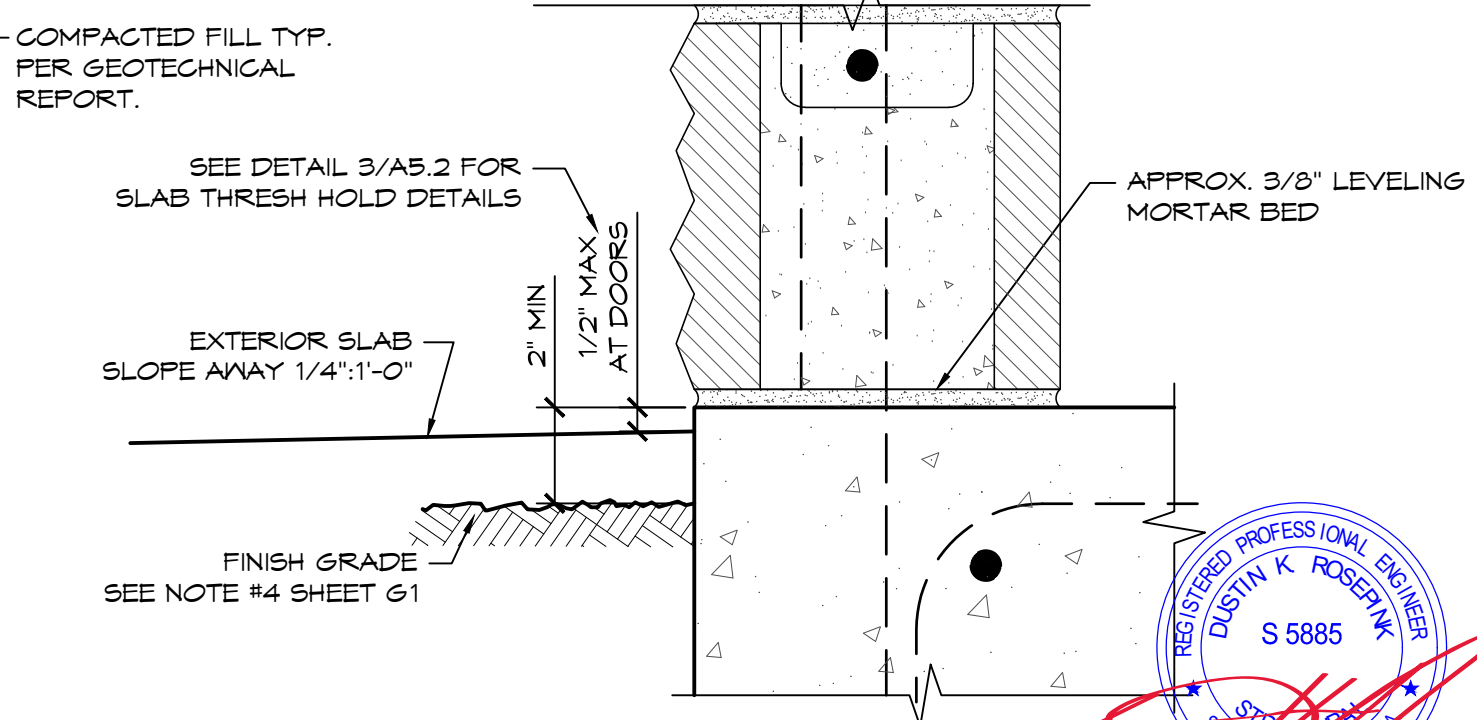




**1** TYP. CMU WALL FTG  
SCALE: 1" = 1'-0"



**3** TYP. INTERIOR CMU WALL FTG  
SCALE: 1" = 1'-0"



**2** WALL-SLAB CONNECTION  
SCALE: 3" = 1'-0"

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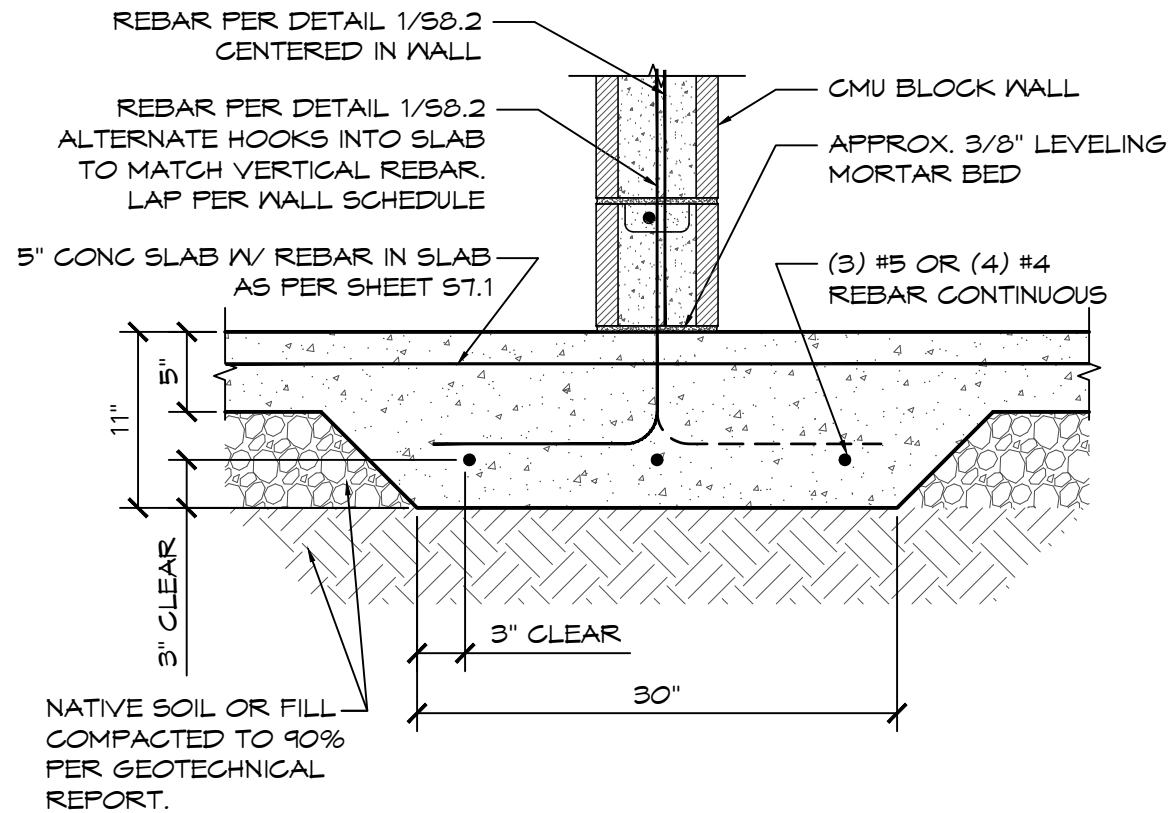
PROJECT: 2022 SIERRA II COMPACT 16'-8" W/MEGRM  
JOHN F. KENNEDY RR FACILITY  
SACRAMENTO, CALIFORNIA  
SHEET TITLE: FOUNDATION OPTIONS

PLAN SET#	LFK01	
DATE:	10/16/2023	
REVISIONS		
REV.	DATE:	BY:
1	10-23-2023	CR
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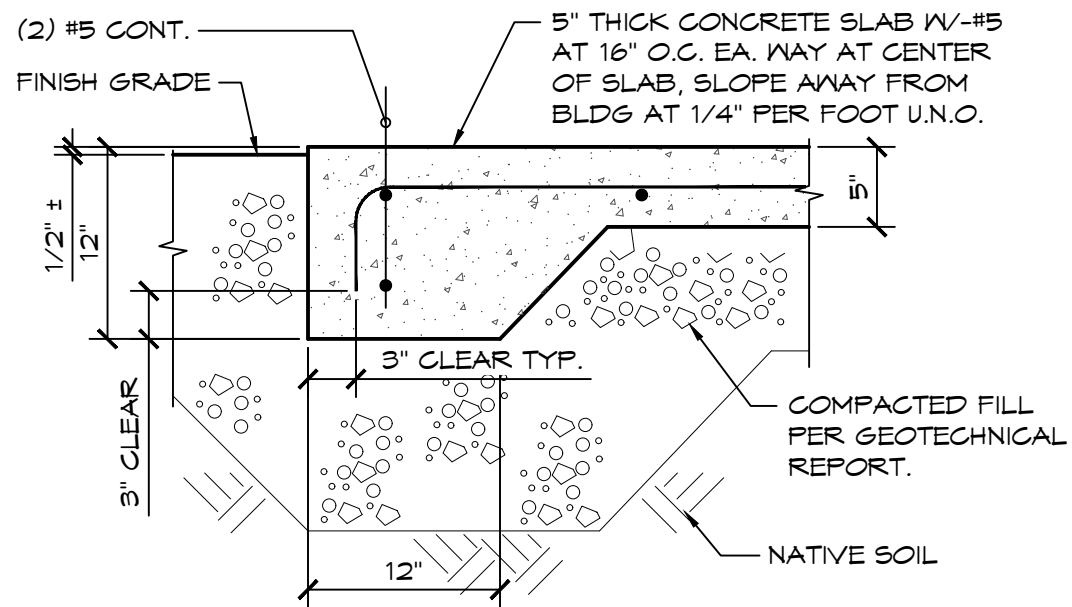


SHEET NO. **S7.2**

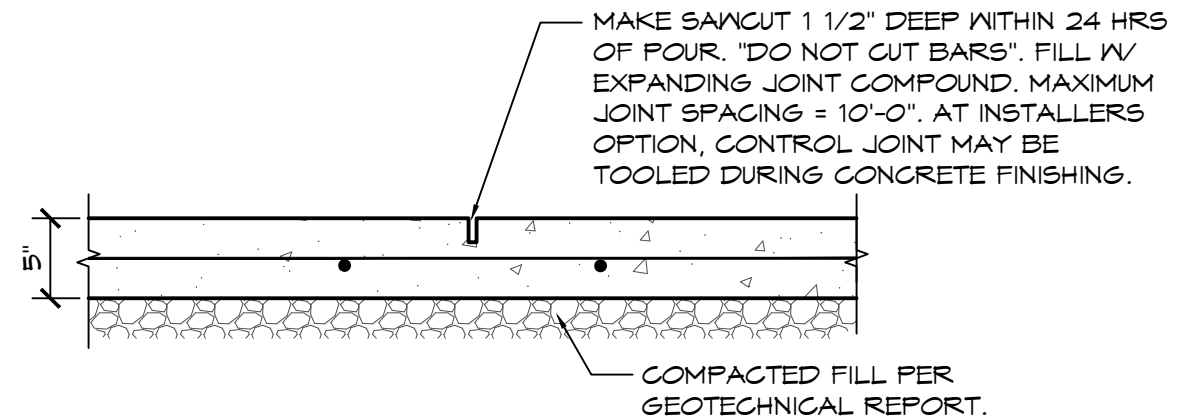
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**1 THICKENED SLAB AT WALL**  
SCALE: 1" = 1'-0"



**2 EDGE OF CONC SLAB**  
SCALE: 1" = 1'-0"



**3 SAWCUT JOINT**  
SCALE: 1" = 1'-0"



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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM  
JOHN F. KENNEDY RR FACILITY  
SACRAMENTO, CALIFORNIA

SHEET TITLE: FOUNDATION DETAILS

PLAN SET#	LFK01	
DATE:	10/16/2023	
REVISIONS		
REV.	DATE:	BY:
1	10-23-2023	CR
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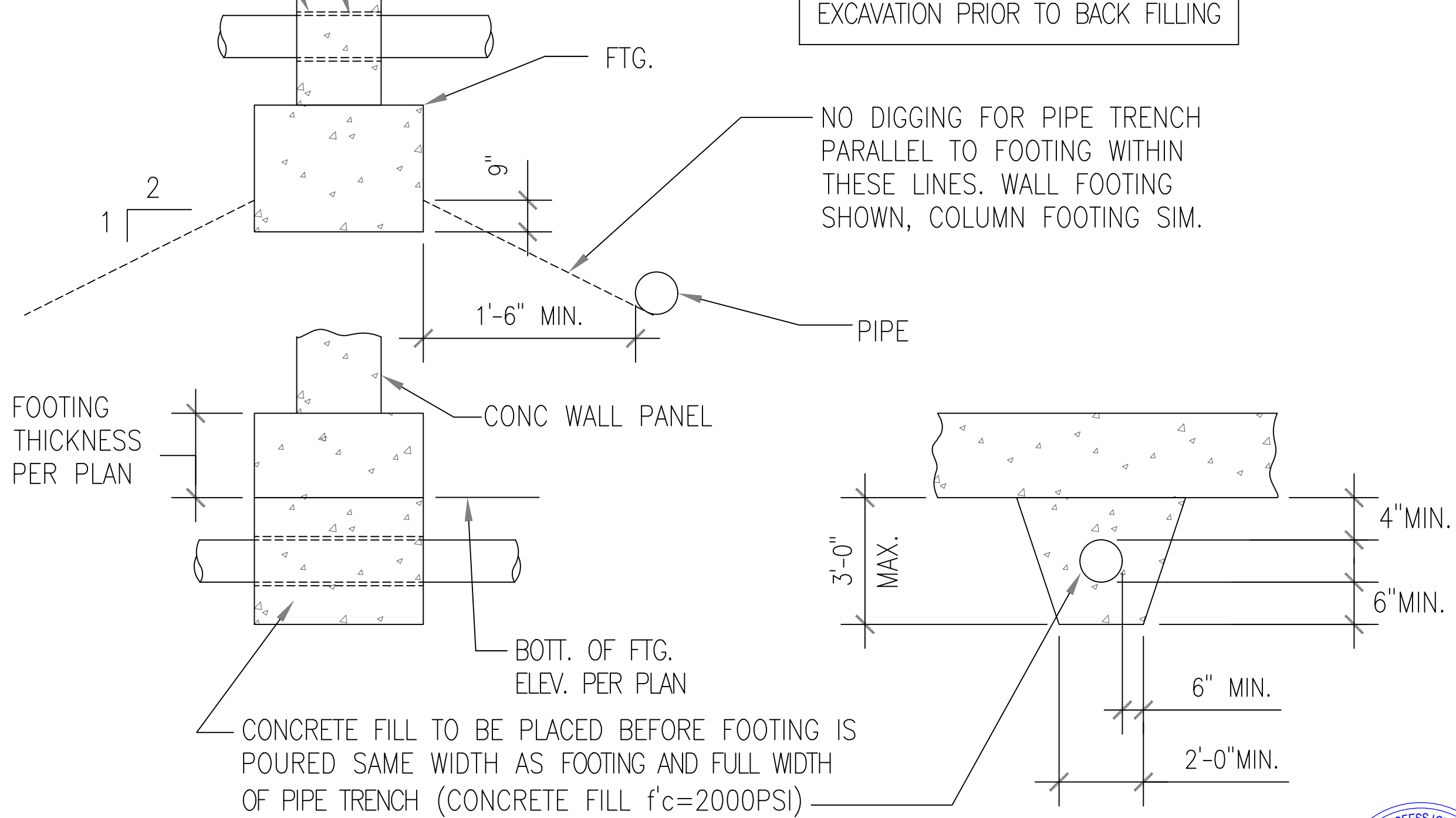
SHEET NO.

**S7.3**



SLEEVE ALL PIPING TO CLEAR SLEEVE BY 1" ALL AROUND

CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING THE SIDES OF THE EXCAVATION PRIOR TO BACK FILLING



NO DIGGING FOR PIPE TRENCH PARALLEL TO FOOTING WITHIN THESE LINES. WALL FOOTING SHOWN, COLUMN FOOTING SIM.

FOOTING THICKNESS PER PLAN

CONCRETE FILL TO BE PLACED BEFORE FOOTING IS Poured SAME WIDTH AS FOOTING AND FULL WIDTH OF PIPE TRENCH (CONCRETE FILL  $f'_c=2000$ PSI)

**1 PIPES UNDER FOOTING DETAIL**  
SCALE: 3/8" = 1'-0"



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JOHN F. KENNEDY RR FACILITY  
SACRAMENTO, CALIFORNIA  
SHEET TITLE: FOUNDATION DETAILS

PLAN SET#	LFK01	
DATE:	10/16/2023	
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SHEET NO. **S7.4**

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# WALL TYPE SCHEDULE


 8" REINFORCED CONCRETE MASONRY BLOCK WALL WITH MORTAR JOINTS, GROUTED SOLID ALL CELLS RUNNING BOND PATTERN.

NOTE:  
FIXTURES AND ACCESSORIES ARE DIMENSIONED ON A1.3

THE CMU BLOCK LAYOUT SHALL BE PER THE BLOCK LAYOUT PLANS IN THE:  
"FINAL"  
ROMTEC SCOPE OF SUPPLY AND DESIGN SUBMITTAL


8" CMU WALLS SOLID GROUTED REINFORCED W/-#4 AT 24" O.C. EA. WAY

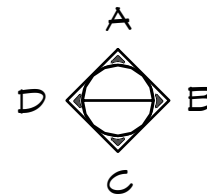
8" CMU WALLS SOLID GROUTED REINFORCED W/-#4 AT 24" O.C. EA. WAY

 3  
S8.3  
8" TO 8" CMU INTERSECTION, TYP.

 1  
S8.3  
CORNER OF CMU, TYP.

 2  
S8.3  
END OF CMU, TYP.

 **1** STRUCTURAL CMU PLAN  
SCALE: 1/4" = 1'-0"

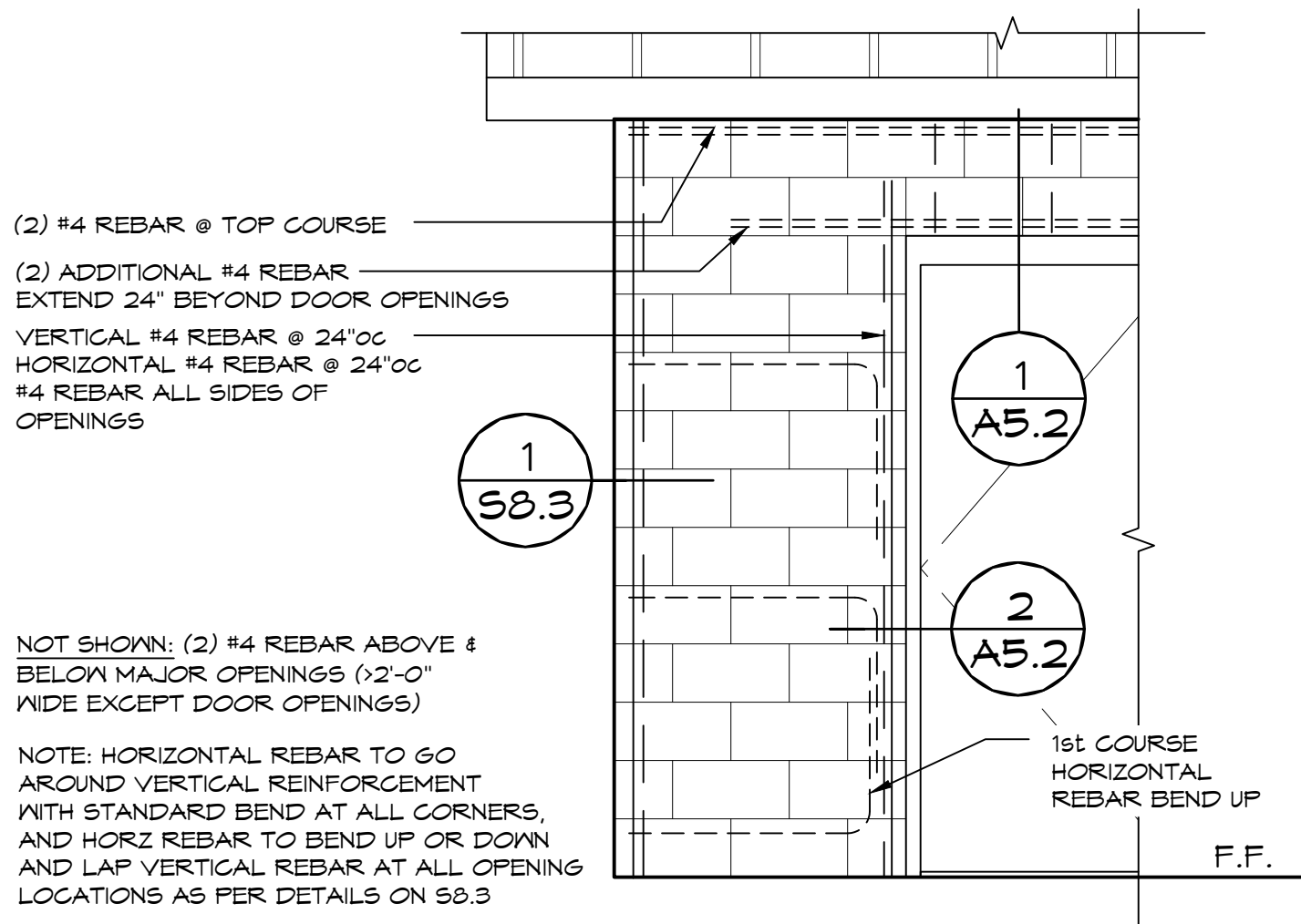


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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM JOHN F. KENNEDY RR FACILITY SACRAMENTO, CALIFORNIA		<b>ROMTEC</b>
PLAN SET# <b>LFK01</b>		SHEET TITLE: STRUCTURAL CMU PLAN
DATE: <b>10/16/2023</b>		SHEET NO. <b>S8.1</b>
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CMU REBAR SCHEDULE		
REBAR	MIN. LAP	BEND RAD.
#4	24"	3" MIN.

**CMU REBAR NOTES:**  
 - BENDS: MIN. INSIDE BEND RADIUS SHALL BE NOT LESS THAN 6d AS PER ACI 530-13 SECTION 1.15.6  
 - SPLICES: LAP SPLICES ARE PERMITTED AS PER ACI 530-13 SECTION 2.1.9.7

**PIPES INSTALLED THROUGH CMU WALL NOTES:**  
 - SUPPLY: THE FIXTURE SUPPLY LINE SHOULD BE BORED A 1/2" LARGER THAN REQUIRED LINE SIZE AND THE PORTION OF PIPE LOCATED IN CMU WALL SHALL BE WRAPPED WITH 10MIL BLACK TAPE  
 - WASTE PIPE: THE FIXTURE WASTE LINE SHOULD BE BORED A 1/2" LARGER THAN REQUIRED LINE SIZE.

NOT SHOWN: (2) #4 REBAR ABOVE & BELOW MAJOR OPENINGS (>2'-0" WIDE EXCEPT DOOR OPENINGS)

NOTE: HORIZONTAL REBAR TO GO AROUND VERTICAL REINFORCEMENT WITH STANDARD BEND AT ALL CORNERS, AND HORIZ REBAR TO BEND UP OR DOWN AND LAP VERTICAL REBAR AT ALL OPENING LOCATIONS AS PER DETAILS ON S8.3

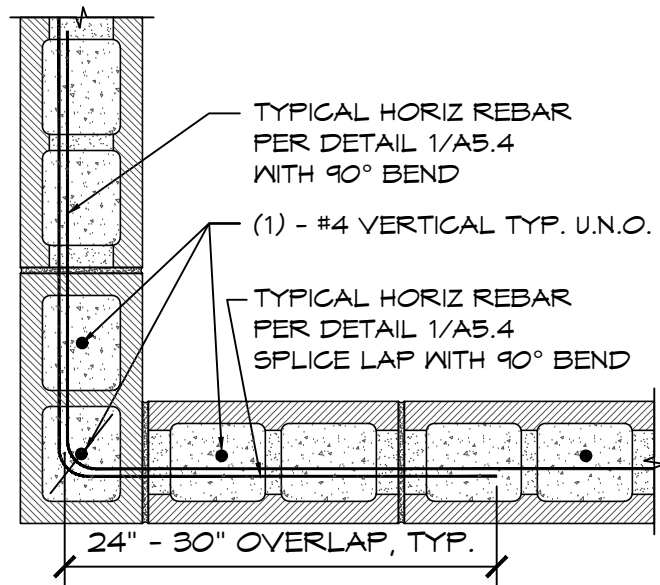
**1 CMU REBAR LAYOUT DETAIL**  
 SCALE: 1/2" = 1'-0"



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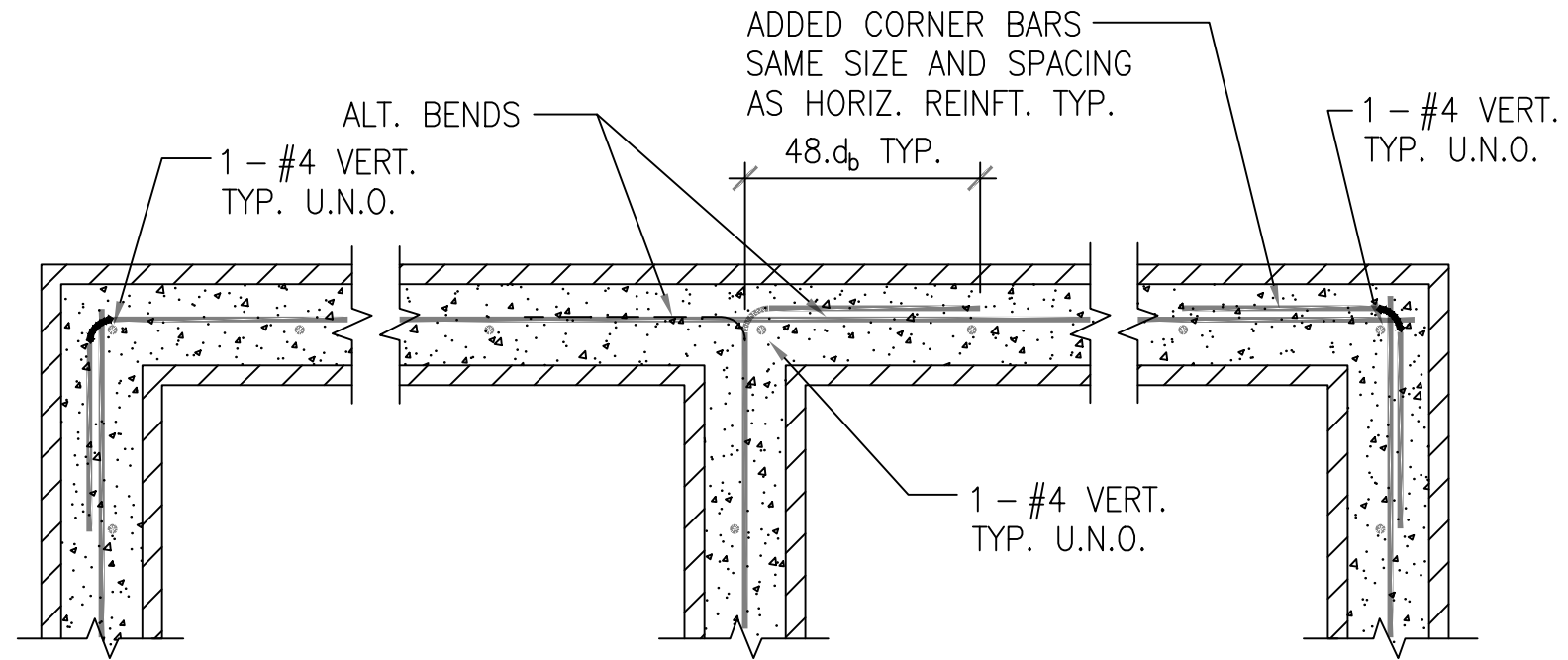
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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM JOHN F. KENNEDY RR FACILITY SACRAMENTO, CALIFORNIA SHEET TITLE: CMU REBAR LAYOUT DETAIL		
PLAN SET#	LFK01	
DATE:	10/16/2023	
REVISIONS		
REV.	DATE:	BY:
1	10-23-2023	CR
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SHEET NO. **S8.2**



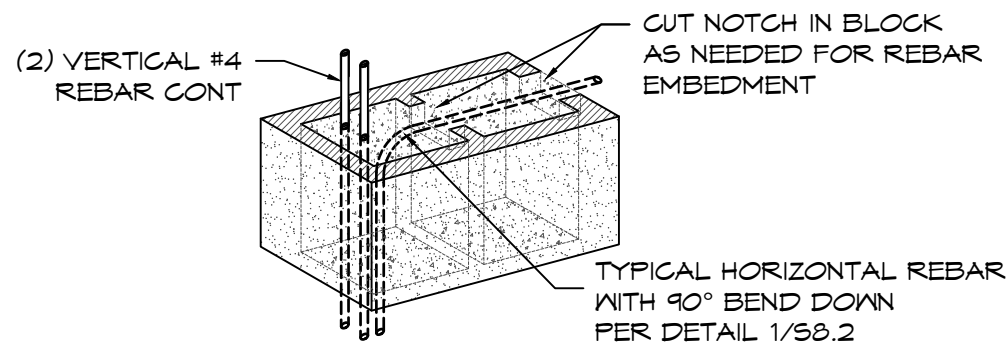
**1 MORTAR JOINT CMU CORNER DETAIL**

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



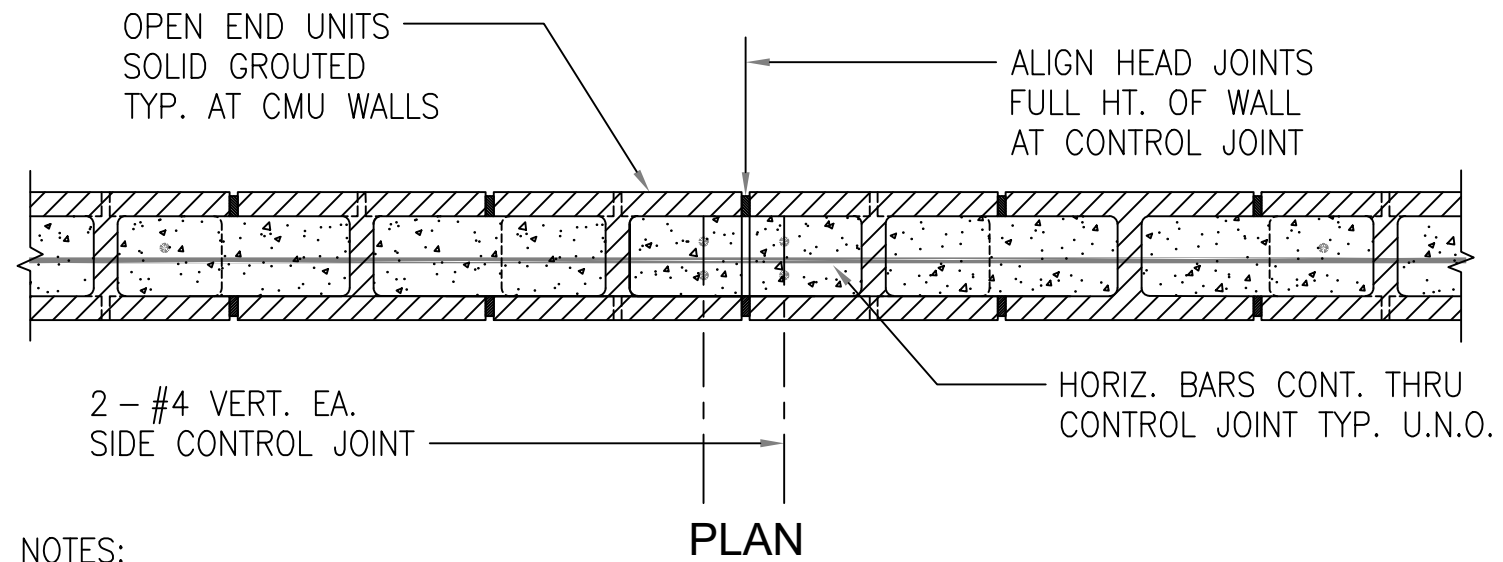
**3 TYP. CMU WALL INTERSECTION AND CORNER DETAILS**

SCALE: 1" = 1'-0"



**2 MORTAR JOINT CMU WALL END DETAIL**

SCALE: 1" = 1'-0"



**NOTES:**

1. PROVIDE JOINTS AT INTERVALS NOT TO EXCEED 24 FEET EXCEPT AS NOTED.
2. HORIZONTAL REINFT SHALL BE CONTINUOUS THROUGH JOINT.

**4 TYP. CMU WALL CONTROL JOINT**

SCALE: 1" = 1'-0"



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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM

JOHN F. KENNEDY RR FACILITY  
SACRAMENTO, CALIFORNIA

STRUCTURAL DETAILS

PLAN SET# LFK01  
DATE: 10/16/2023

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SHEET NO. **S8.3**



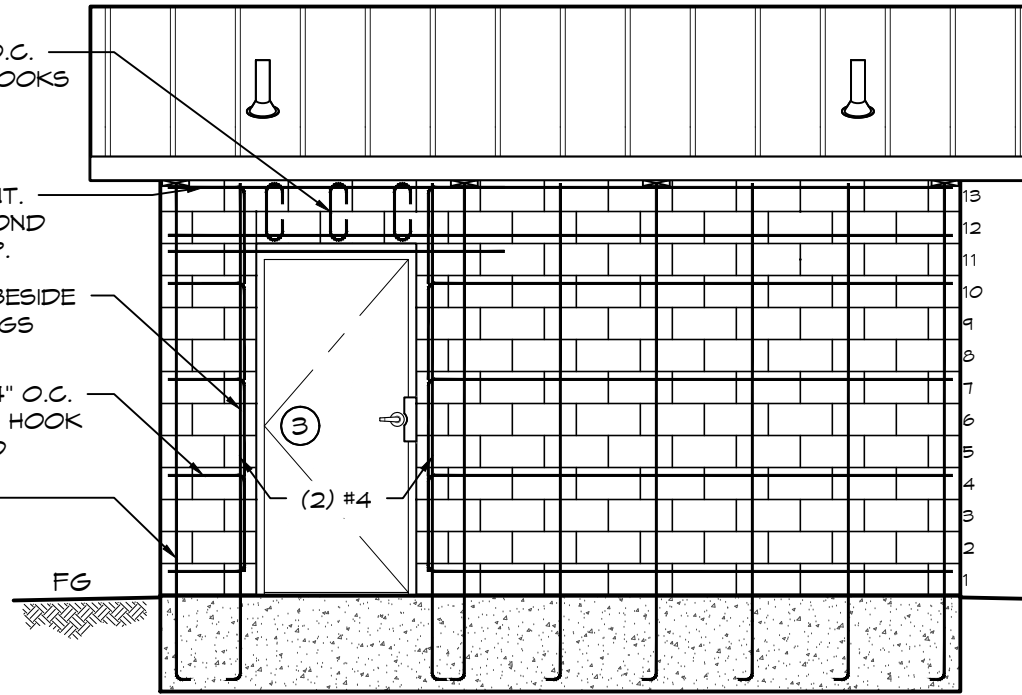
#4 @ 16" O.C.  
W/ 180° HOOKS  
EA. END

(2) #4 CONT.  
AT TOP BOND  
BEAM, TYP.

(2) #4 BESIDE  
OPENINGS

#4 @ 24" O.C.  
W/ STD HOOK  
EA. END

(1) #4



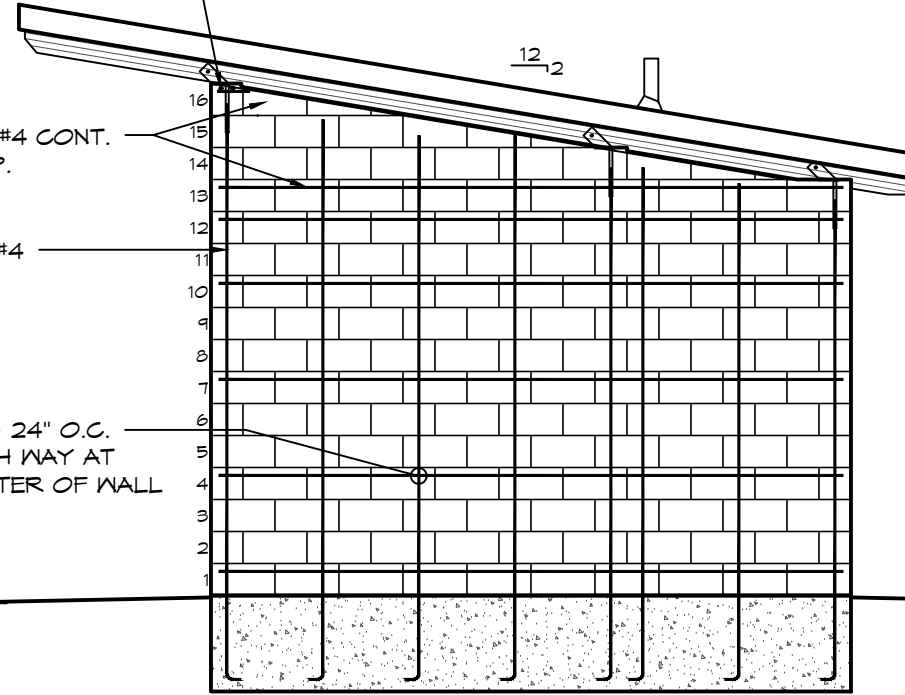
**A** CMU ELEVATION VIEW  
SCALE: 1/4" = 1'-0"

(2) #4 CONT.  
AT TOP BOND  
BEAM, TYP.

(2) #4 CONT.  
TYP.

(1) #4

#4 @ 24" O.C.  
EACH WAY AT  
CENTER OF WALL



**B** CMU ELEVATION VIEW  
SCALE: 1/4" = 1'-0"

#4 @ 24" O.C.  
EACH WAY AT  
CENTER OF WALL

(2) #4 CONT.

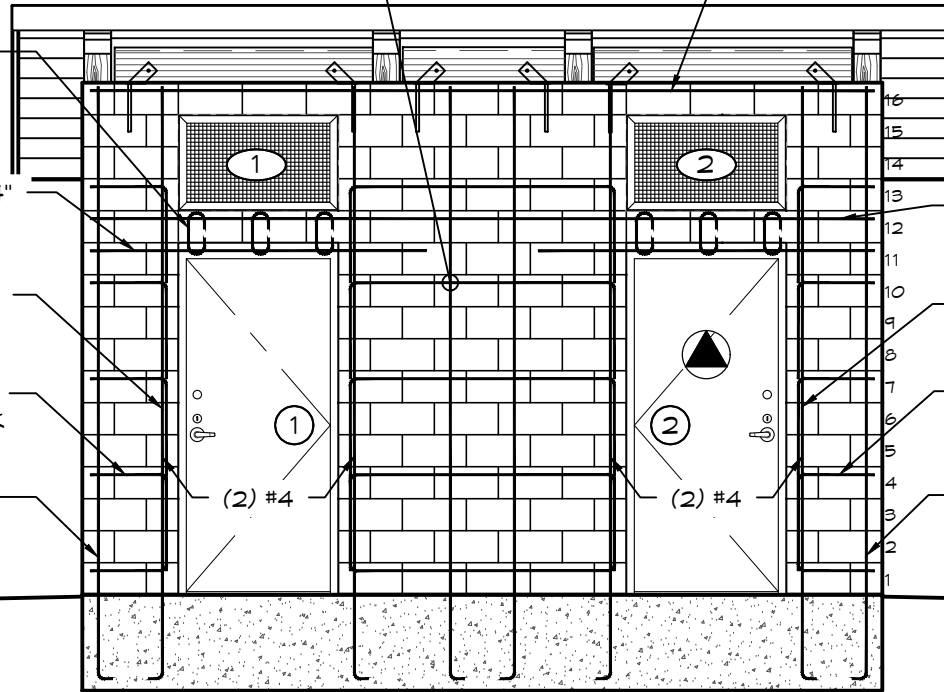
#4 @ 16" O.C.  
W/ 180° HOOKS  
EA. END

(2) #4 EXTEND 24"  
BEYOND DOOR  
OPENING, TYP.

(2) #4 BESIDE  
OPENINGS

#4 @ 24" O.C.  
W/ STD HOOK  
EA. END

(1) #4



**C** CMU ELEVATION VIEW  
SCALE: 1/4" = 1'-0"

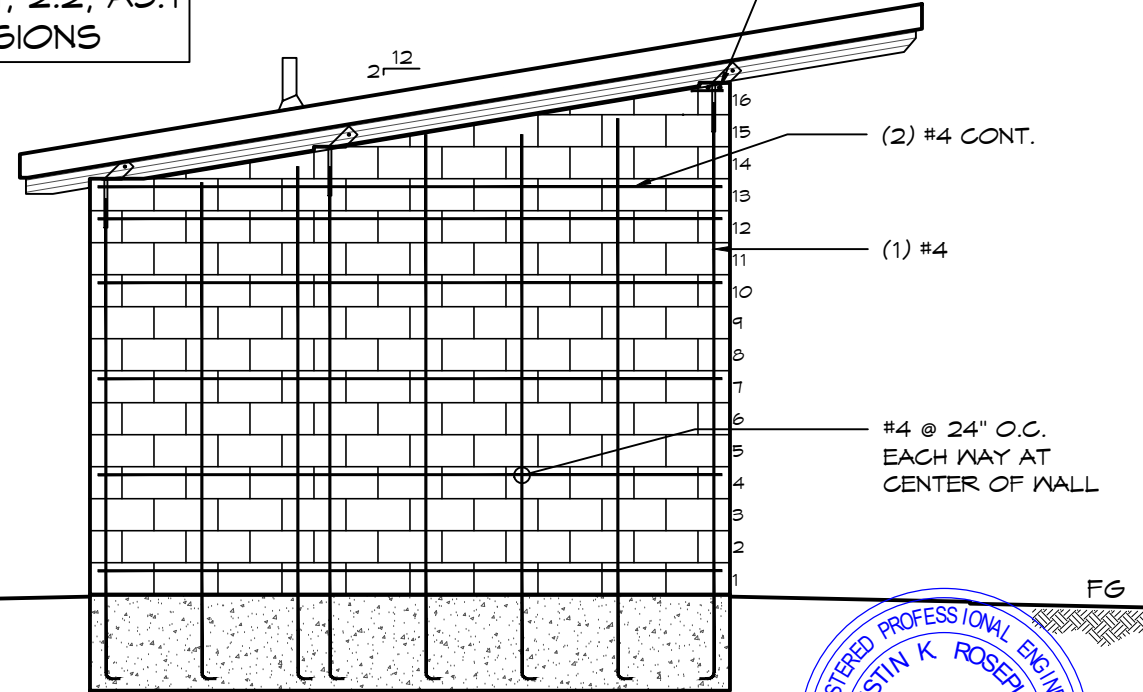
NOTE:  
SEE A1.1, 2.1, 2.2, A3.1  
FOR DIMENSIONS

(2) #4 CONT.  
AT TOP BOND  
BEAM, TYP.

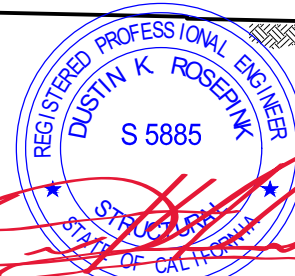
(2) #4 CONT.

(1) #4

#4 @ 24" O.C.  
EACH WAY AT  
CENTER OF WALL



**D** CMU ELEVATION VIEW  
SCALE: 1/4" = 1'-0"



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SHEET NO.  
S8.4

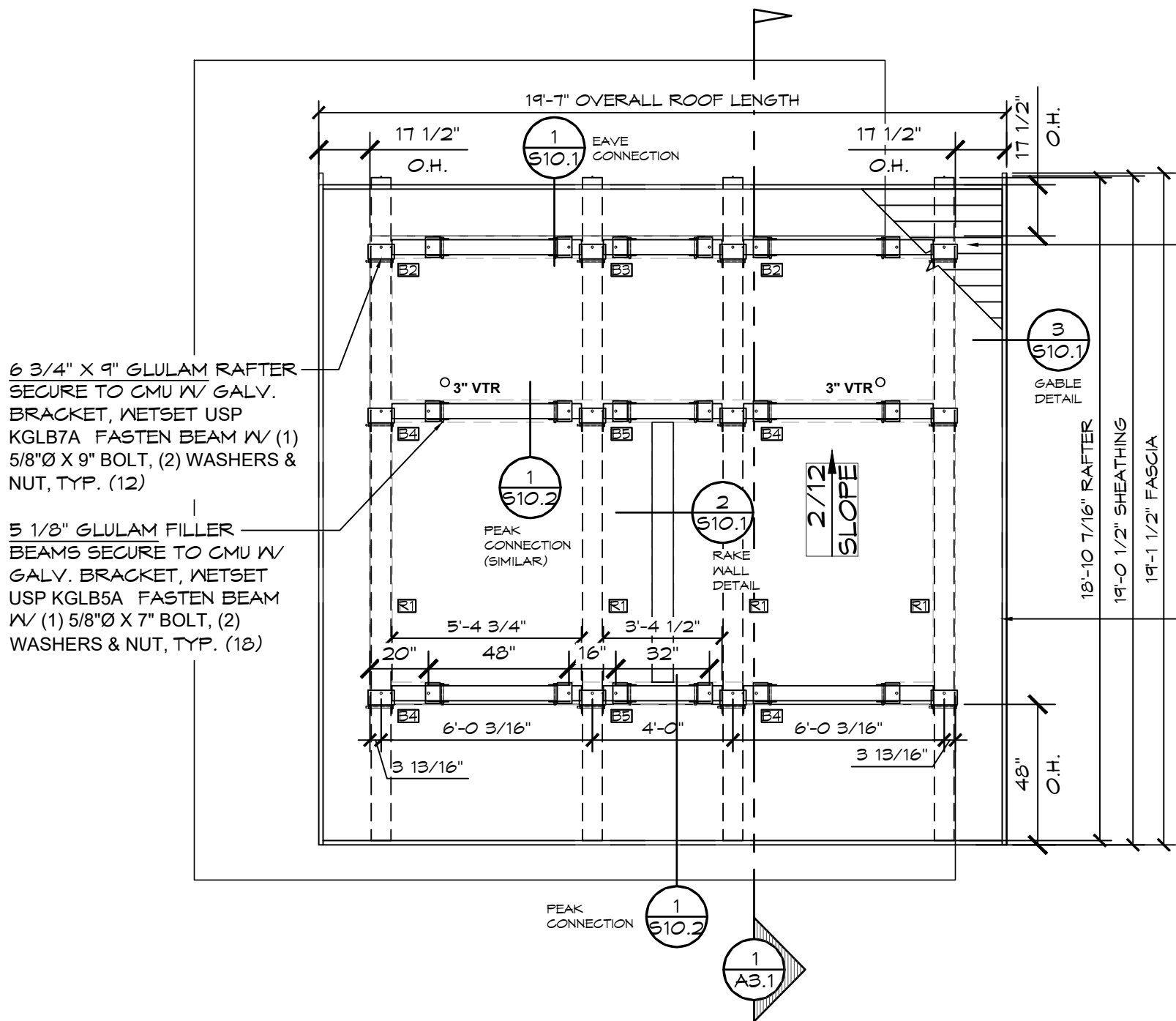
PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM

JOHN F. KENNEDY RR FACILITY  
SACRAMENTO, CALIFORNIA

SHEET TITLE: STRUCTURAL ELEVATIONS

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NOTE: DURING THE CONSTRUCTION PROCESS IT IS COMMON FOR SMALL GAPS TO APPEAR IN ANY NUMBER OF PLACES. ROMTEC DOES NOT PROVIDE CAULK OR ANY OTHER MATERIAL TO FILL THESE SMALL GAPS UNLESS IT IS SPECIFIED IN OUR SUBMITTAL



6 3/4" X 9" GLULAM RAFTER SECURE TO CMU W/ GALV. BRACKET, WETSET USP KGLB7A FASTEN BEAM W/ (1) 5/8"Ø X 9" BOLT, (2) WASHERS & NUT, TYP. (12)

5 1/8" GLULAM FILLER BEAMS SECURE TO CMU W/ GALV. BRACKET, WETSET USP KGLB5A FASTEN BEAM W/ (1) 5/8"Ø X 7" BOLT, (2) WASHERS & NUT, TYP. (18)

2X6 V-EDGE TONGUE & GROOVE DECKING: NAIL DECK BOARD TO GLULAM BEAMS W/ 16d X 3 1/2" NAILS (2) PER 2X6 DECK BOARD.

5/8" OSB SHEATHING: ATTACH OSB TO DECKING W/ 16ga 1 1/2" STAPLES @ 4"OC EDGE & 12"OC FIELD

2 X 6 CEDAR FASCIA



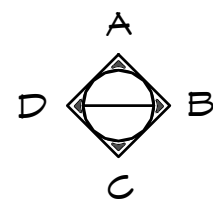
NOTE:

- EXPOSED UNPROTECTED GLB'S WITH EXPOSED END CUTS TO BE FABRICATED FROM DECAY RESISTANT ALASKAN CEDAR
- 2X6 FASCIA TO BE ALASKAN CEDAR

NOTE:

- TWO-INCH (51 MM) DECKING SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 15 PERCENT. DECKING SHALL BE MACHINED WITH A SINGLE TONGUE-AND-GROOVE PATTERN. EACH DECKING PIECE SHALL BE NAILED TO EACH SUPPORT.
- EACH PIECE OF DECKING SHALL BE TOENAILED AT EACH SUPPORT WITH ONE 16d COMMON NAIL THROUGH THE TONGUE AND FACE-NAILED WITH ONE 16d COMMON NAIL OR AS NOTED OTHERWISE.
- CONTROLLED RANDOM PATTERN THERE SHALL BE A MINIMUM DISTANCE OF 24 INCHES (610 MM) BETWEEN END JOINTS IN ADJACENT COURSES. THE PIECES IN THE FIRST AND SECOND COURSES SHALL BEAR ON AT LEAST TWO SUPPORTS WITH END JOINTS IN THESE TWO COURSES OCCURRING ON ALTERNATE SUPPORTS. A MAXIMUM OF SEVEN INTERVENING COURSES SHALL BE PERMITTED BEFORE THIS PATTERN IS REPEATED.

1 ROOF FRAMING PLAN  
SCALE: 1/4" = 1'-0"



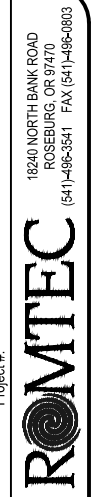
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Project #:

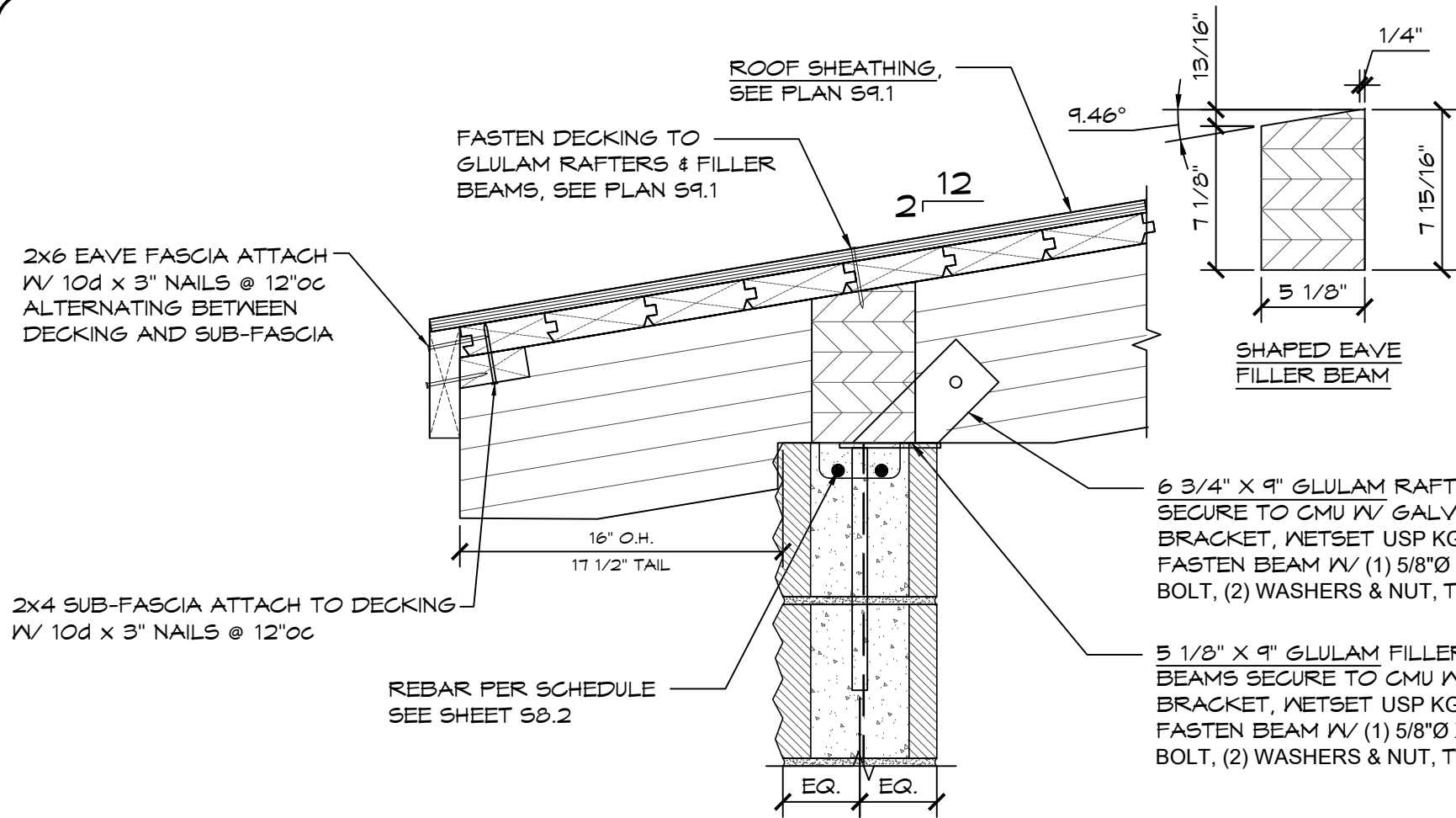
REGISTERED PROFESSIONAL ENGINEER  
DUSTIN K. ROSEPK  
S 5885  
STATE OF CALIFORNIA

PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM  
JOHN F. KENNEDY RR FACILITY  
SACRAMENTO, CALIFORNIA  
SHEET TITLE: ROOF FRAMING PLAN

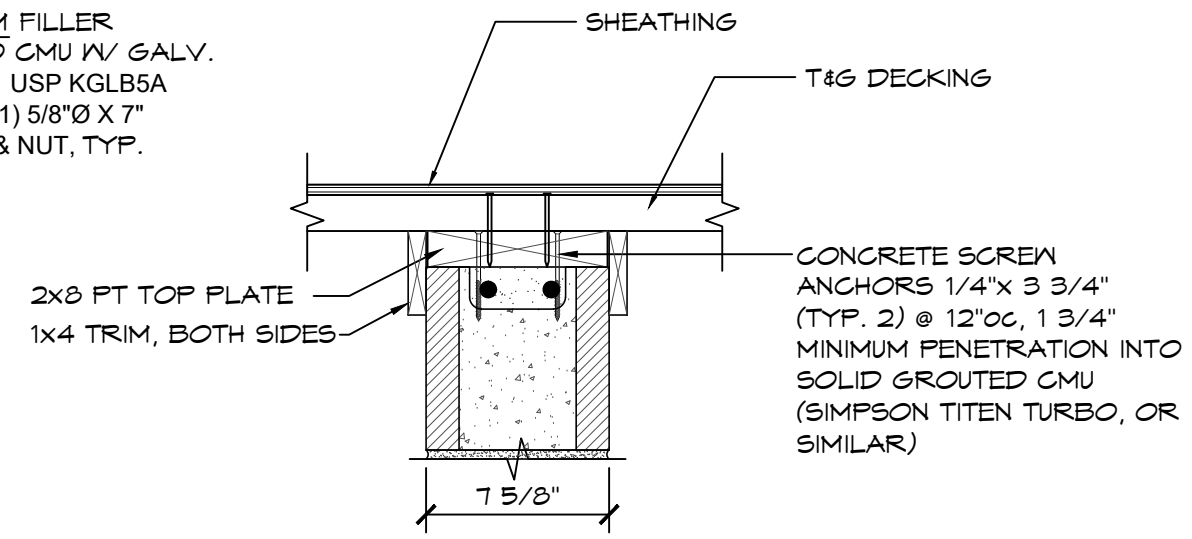
PLAN SET# LFK01  
DATE: 10/16/2023  
REVISIONS  
REV. DATE BY  
DRAWN BY: CR







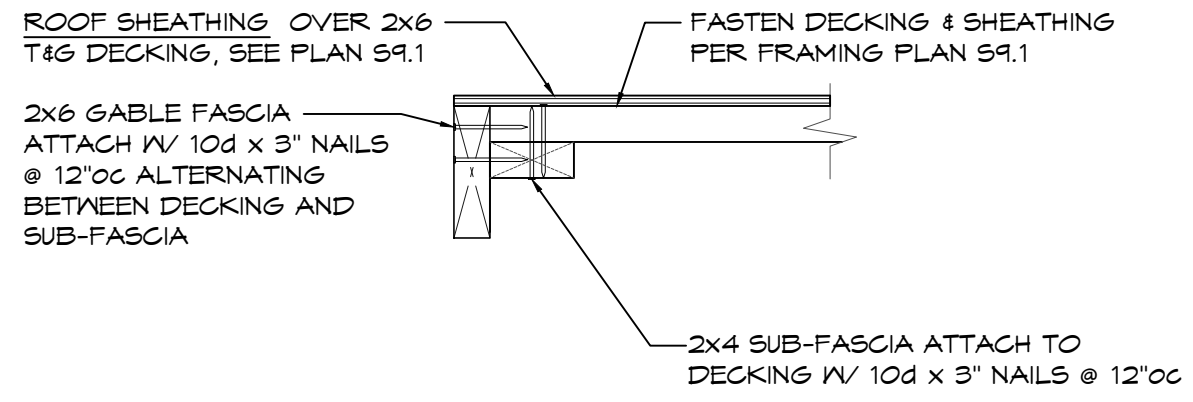
**1** EAVE CONNECTION DETAIL  
SCALE: 1 1/2" = 1'-0"



**2** RAKE WALL DETAIL  
SCALE: 1 1/2" = 1'-0"

**NOTE:**

- EXPOSED UNPROTECTED GLB'S WITH EXPOSED END CUTS TO BE FABRICATED FROM DECAY RESISTANT ALASKAN CEDAR
- 2X6 FASCIA TO BE ALASKAN CEDAR



**3** GABLE DETAIL, TYP  
SCALE: 1 1/2" = 1'-0"

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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM

JOHN F. KENNEDY RR FACILITY  
SACRAMENTO, CALIFORNIA

SHEET TITLE: CONNECTION DETAILS

PLAN SET# LFK01

DATE: 10/16/2023

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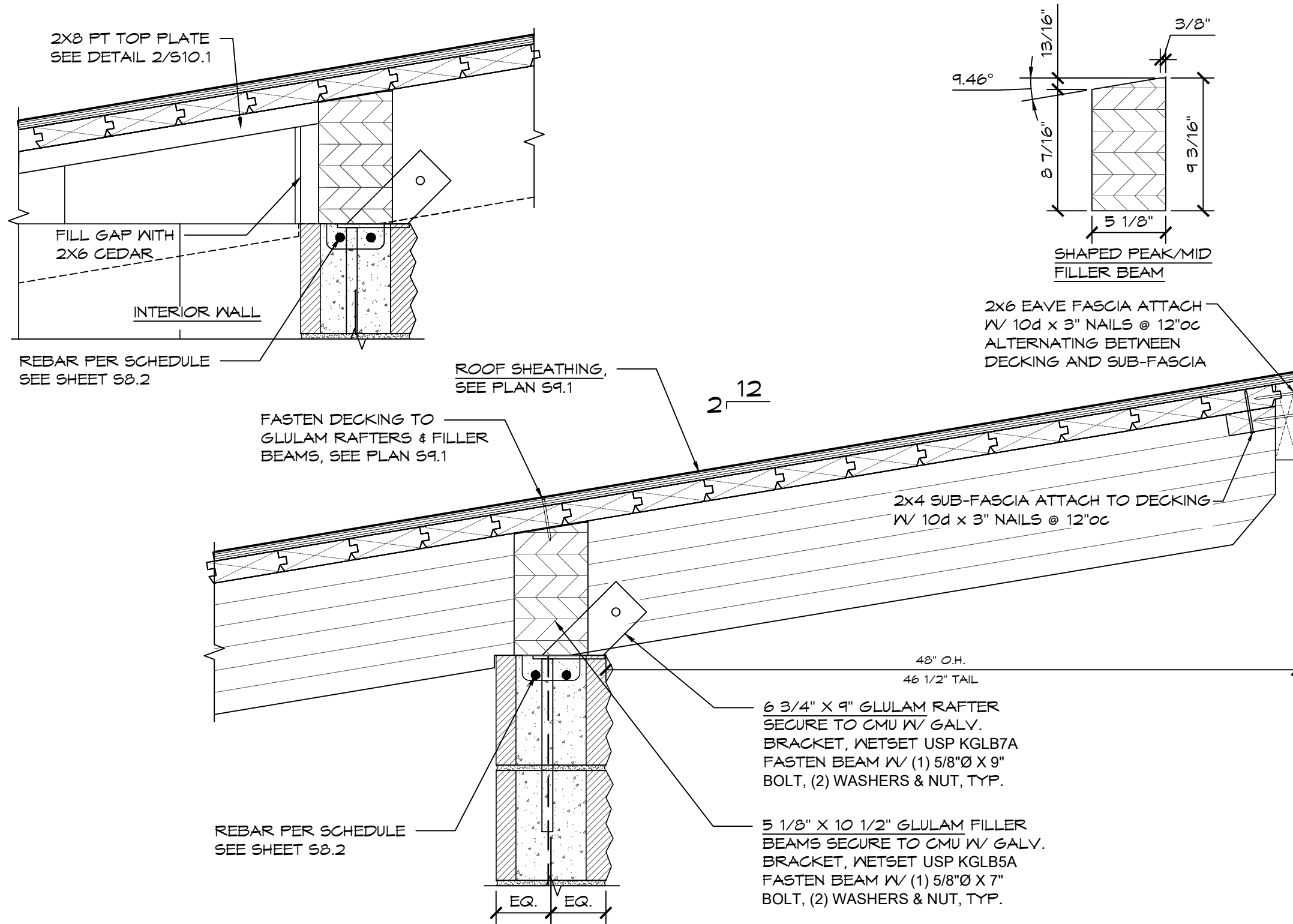


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www.asteleng.com  
Project #:

18240 NORTH BANK ROAD  
ROSEBURG, OR 97470  
(541) 486-3541 FAX (541) 486-0803

**ROMTEC**



**1** PEAK/MID CONNECTION DETAIL  
SCALE: 1 1/2" = 1'-0"

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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MEGRM

JOHN F. KENNEDY RR FACILITY  
SACRAMENTO, CALIFORNIA

SHEET TITLE: CONNECTION DETAILS

PLAN SET# LFK01

DATE: 10/16/2023

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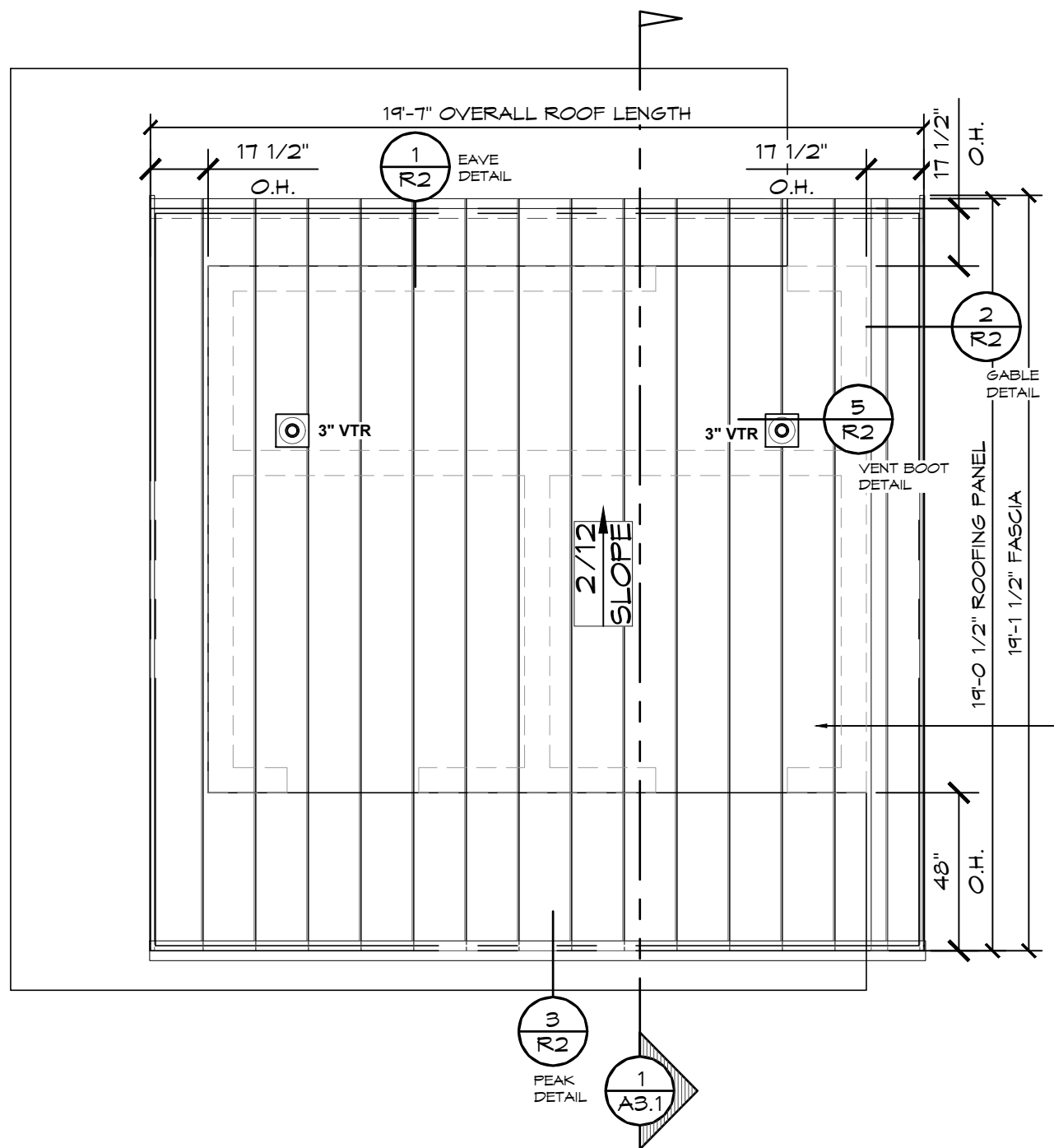
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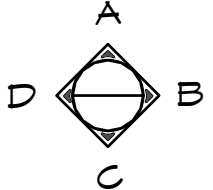
SHEET NO. S10.2



NOTE:  
FLASHING SECTIONS OVER  
10'-6" IN LENGTH SHALL BE  
OVERLAPPED BY 4" AND  
EVERY EFFORT MUST BE  
MADE TO ENSURE A  
SYMMETRICAL APPEARANCE



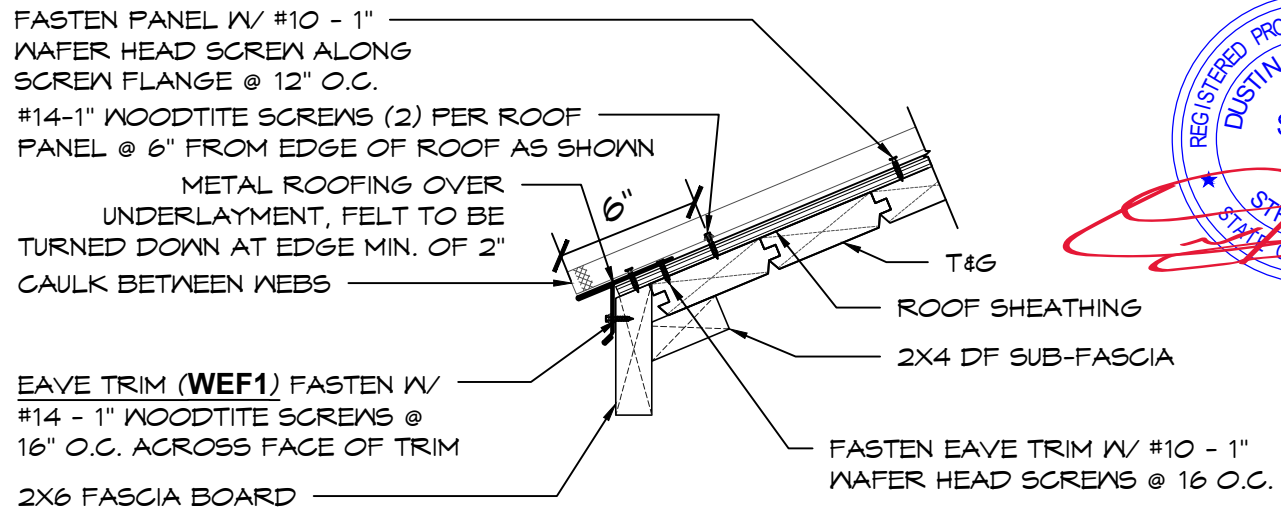
**1 ROOFING PLAN**  
SCALE: 1/4" = 1'-0"



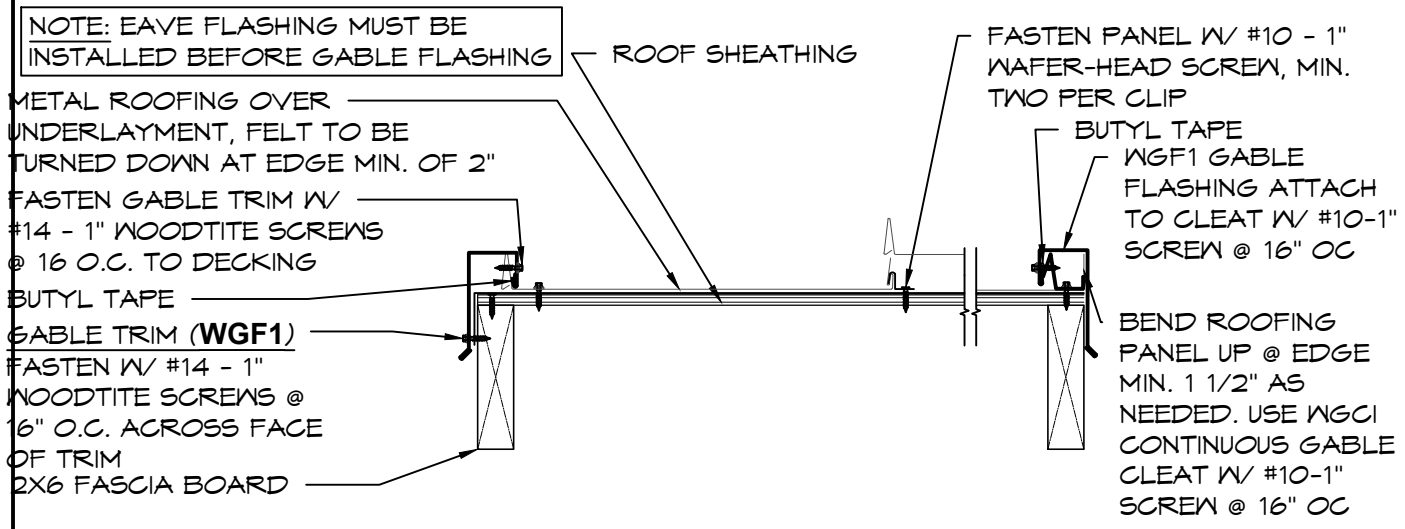
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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM JOHN F. KENNEDY RR FACILITY SACRAMENTO, CALIFORNIA		<b>ROMTEC</b> SHEET TITLE: ROOFING PLAN						
PLAN SET# <b>LFK01</b>	DATE: <b>10/16/2023</b>	SHEET NO. <b>R1</b>						
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1	10-23-2023	CR						
DRAWN BY: <b>CR</b>								

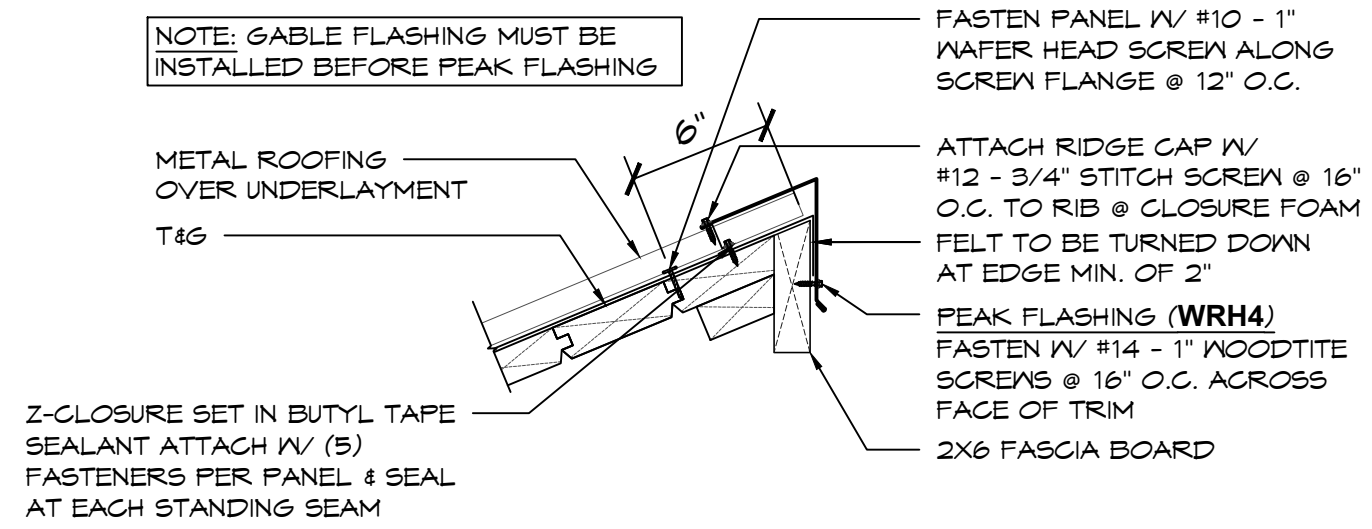




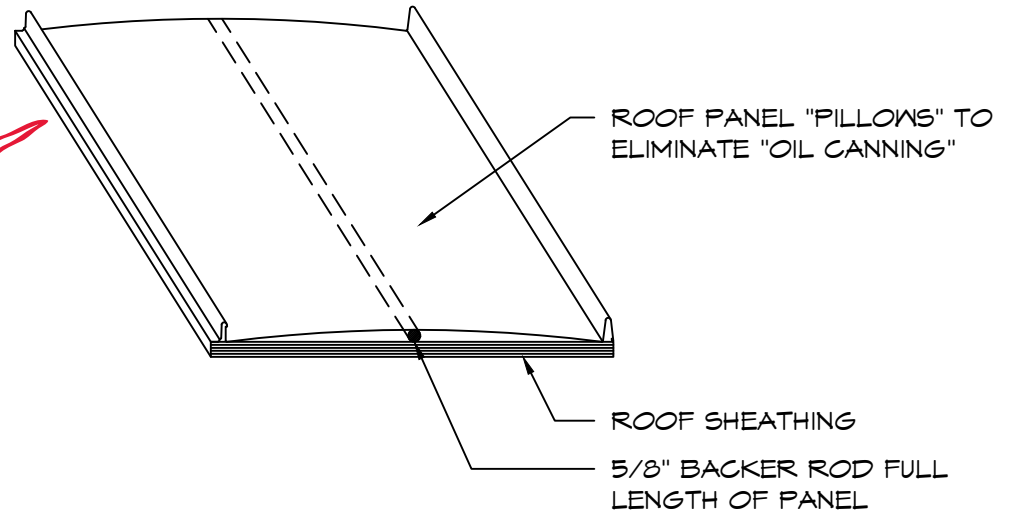
**1 SLIM SEAM - EAVE DETAIL**  
SCALE: 1 1/2" = 1'-0"



**2 SLIM SEAM - GABLE DETAIL**  
SCALE: 1 1/2" = 1'-0"



**3 SLIM SEAM PEAK DETAIL**  
SCALE: 1 1/2" = 1'-0"



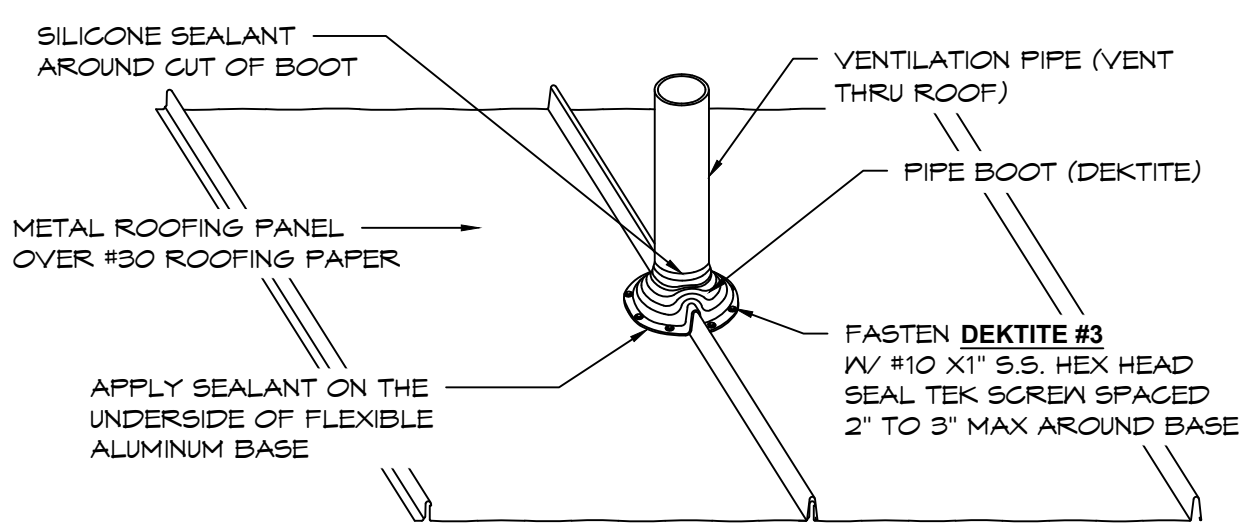
**RECOMMENDED METHOD BY FABRAL TO ELIMINATE "OIL CANNING":**

PANELS MAY SHOW SLIGHT WAVINESS COMMONLY REFERRED TO AS "OIL CANNING." THIS IS A CHARACTERISTIC OF ROLL FORMING. SUCH "OIL CANNING" WILL NOT BE ACCEPTED AS CAUSE FOR REJECTION.

THE USE OF BACKER ROD IS AN INDUSTRY ACCEPTED METHOD TO MINIMIZE "OIL CANNING". A RECENT TREND IS TO INSTALL BACKER ROD UNDER THE FLAT OF THE PANELS TO CREATE A SLIGHT "CROWN" IN THE PANEL, THUS REDUCING OR ELIMINATING "OIL CANNING". THIS IS NO LONGER CONSIDERED A "TRASHY" REPAIR. MCA'S OIL CANNING POSITION PAPER RECOMMENDS THIS PRACTICE. (ABOVE)

USES OF BACKER ROD OR OTHER SIMILAR SHIMMING MATERIALS - WHEN INSTALLATION IS OVER A SOLID SUBSTRATE. BACKER ROD IS A COMPRESSIBLE FOAM STRIP NORMALLY USED IN THE CONCRETE AND MASONRY TRADES IN JOINTS TO SERVE AS A BACKING FOR A CAULK JOINT. FOR CERTAIN TYPES OF METAL PANEL SYSTEMS IT CAUSES THE CENTER OF THE PANEL TO "PILLOW" UNIFORMLY, RELIEVING STRESS AND REDUCING THE VISUAL EFFECTS OF "OIL CANNING".

**4 SLIM SEAM OIL CANNING REPAIR**  
SCALE: N.T.S.



**5 SLIM SEAM - 3" VENT BOOT DETAIL**  
SCALE: N.T.S.

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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM  
 JOHN F. KENNEDY RR FACILITY  
 SACRAMENTO, CALIFORNIA  
 Project #: 26030 Acero, Suite 200  
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SHEET TITLE: ROOFING DETAILS

PLAN SET#	LFK01	
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**R2**



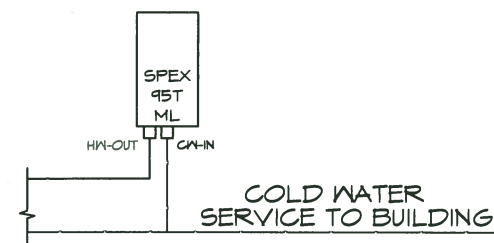
# CALIFORNIA PLUMBING CODE (BASED OFF UPC)

SYM	FIXTURE TYPE	SEWER	VENT	COLD WATER	HOT WATER	MIXED WATER	NO OF FIXT.	W. FIXT. UNITS/EA	TOTAL W. FIXT UNITS	DR. FIXT UNITS	TOTAL DR. FIXT. UNITS
WC	ADA TOILET	3"	2"	1"	X	-	2	40,30,20,15,10	70	4	8
LAV	HAND SINK	1 1/4"	1 1/2"	X	X	1/2"	2	1	2	1	2
S-1	UTILITY/MOP SINK	2"	1 1/2"	1/2"	X	1/2"	1	3	3	3	3
DF-1	DRINKING FOUNTAIN	1 1/2"	1 1/2"	1/2"	X	-	3	.5	1.5	.5	1.5
HB-1	WALL HYDRANT ANTI-FREEZE	X	X	3/4"	X	-	1	2.5	2.5	NA	NA
HB-2	WALL FAUCET	X	X	1/2"	X	-	1	1	1	NA	NA
FD-1	FLOOR DRAIN	3"	1 1/2"	X	X	-	1	NA	NA	2	2
FD-2	FLOOR DRAIN (EMERGENCY)	3"	1 1/2"	X	X	-	2	NA	NA	NA	NA
WH-2	WATER HEATER (INSTANT)	X	X	3/8" c	3/8" c	3/8" c	1	NA	NA	NA	NA
								TOTAL	80	TOTAL	16.5

## GENERAL PLUMBING NOTES:

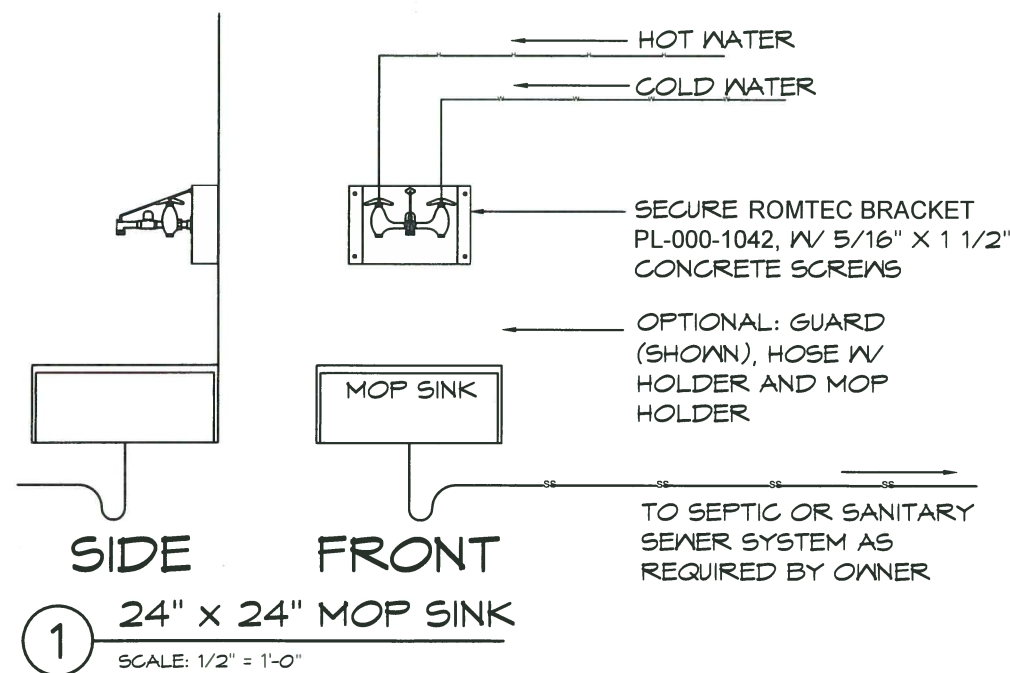
- ALL PIPE ( WATER, SEWER, VENT), JOINTS, AND WORK SHALL CONFORM TO 2022 CALIFORNIA PLUMBING CODE AND LOCAL CODES.
- CONTRACTOR TO CONFIRM LOCATIONS OF SEWER AND WATER TIE-INS.
- CONTRACTOR TO SOLIDLY BRACE ALL PIPING TIGHT AGAINST WALLS. FOR LONG OR COMPLICATED RUNS, SECURELY MOUNT USING UNI-STRUT, IN STRAIGHT AND UNIFORM MANNER FOR FINISHED APPEARANCE. PIPING SHOWN IS DIAGRAMMATIC ONLY AND ACTUAL DESIGN TO BE BY CONTRACTOR.
- CONTRACTOR MAY CHANGE PIPE SIZING IN FIELD TO PROVIDE ADEQUATE WATER PRESSURE TO ALL PLUMBING FIXTURES AS APPROVED BY INSPECTOR. ROMTEC BUILDINGS ARE DESIGNED TO HAVE 40-60 PSI WATER PRESSURE FOR THE PLUMBING FIXTURES. IF THE SITE HAS A PRESSURE OTHER THAN THIS, IT IS THE OWNER'S RESPONSIBILITY TO PROVIDE THE PRESSURE REDUCER OR BOOSTER PUMP NECESSARY.
- CONTRACTOR TO DETERMINE AND PROVIDE MEANS FOR GRAVITY DRAINING ALL PLUMBING FIXTURES TO SEPTIC OR SANITARY SEWER SYSTEM. INSTALLER TO PROVIDE A CLEAN-OUT BENEATH ALL SINKS AND LAVATORY AS REQUIRED BY CODE.
- CONTRACTOR TO DETERMINE AND PROVIDE MEANS FOR SUPPLYING WATER TO ALL PLUMBING FIXTURES AND INSTALL WATER SERVICE SHUTOFF VALVE; TYPICALLY LOCATED WITHIN THE MECHANICAL ROOM.
- IF THE SITE REQUIRES AN ACCESSIBLE BACK FLOW PREVENTER AND/OR PRESSURE REDUCER OR BOOSTER PUMP IT IS THE OWNER'S RESPONSIBILITY TO PROVIDE.
- WHEN INCLUDED, HOT WATER TANKS REQUIRE A TEMPERATURE AND PRESSURE RELIEF VALVE AND A DRAIN LINE TO THE EXTERIOR OF THE BUILDING PER 2022 CPC SECTIONS 608.4 & 608.5. CONTRACTOR TO PROVIDE & FURNISH & INSTALL TWO STRAPS TO THE NEAREST WALL, ONE STRAP AT TOP 1/3 OF TANK AND ONE STRAP AT BOTTOM 1/3 OF TANK, IN COMPLIANCE WITH 2022 CPC SECTION 507.2.
- PLUMBING FIXTURES SHALL BE CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION, SHALL COMPLY WITH 2022 CALIFORNIA PLUMBING CODE (CPC) SECTIONS 401.3 AND 403, AND SHALL COMPLY WITH 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBSC) SECTION 5.303.3. FLUSHOMETERS ASSOCIATED WITH TOILETS SHALL USE NO MORE THAN 1.28 GALLONS PER FLUSH. FLUSHOMETERS ASSOCIATED WITH URINALS USE NO MORE THAN 0.5 GALLONS PER FLUSH. BOTH FLUSHOMETERS ABOVE SHALL MEET PERFORMANCE STANDARDS BY ANSI A112.19.2 H&S CODE, SECTION 17921.3(B). SINK FAUCET SHALL USE NO MORE THAN 1.8 GPM MEASURED AT 60 PSI.
- WHEN FIXTURES REQUIRE WALL CARRIERS, THEY SHALL BE SUPPLIED BY CONTRACTOR.
- NON-REMOVABLE BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED ON ALL HOSE BIBBS AND POTABLE WATER OUTLETS WITH HOSE ATTACHMENTS. CPC 603.5.7.
- UNLESS SPECIFIED IN THE ROMTEC SUBMITTAL, ROMTEC DOES NOT SUPPLY INSULATION OR "FREEZE PROTECTION" FOR PLUMBING. "THE OWNER MAY NEED TO WINTERIZE THEIR BUILDING."

SIoux CHIEF  
(3" W/6" STRAINER)



1 WATER HEATER DETAIL  
3/4" = 1'-0"

\*REFER TO THE FIXTURE CUT SHEET FOR ROUGH-IN MEASUREMENTS



1 24" x 24" MOP SINK  
SCALE: 1/2" = 1'-0"



10-23-23

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PROJECT: 2022 SIERRA II COMPACT 16'-8" W MECH RM

JOHN F. KENNEDY RR FACILITY  
SACRAMENTO, CALIFORNIA

SHEET TITLE: PLUMBING SCHEDULE

PLAN SET# JFK01			
DATE: 10/16/2023			
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P1

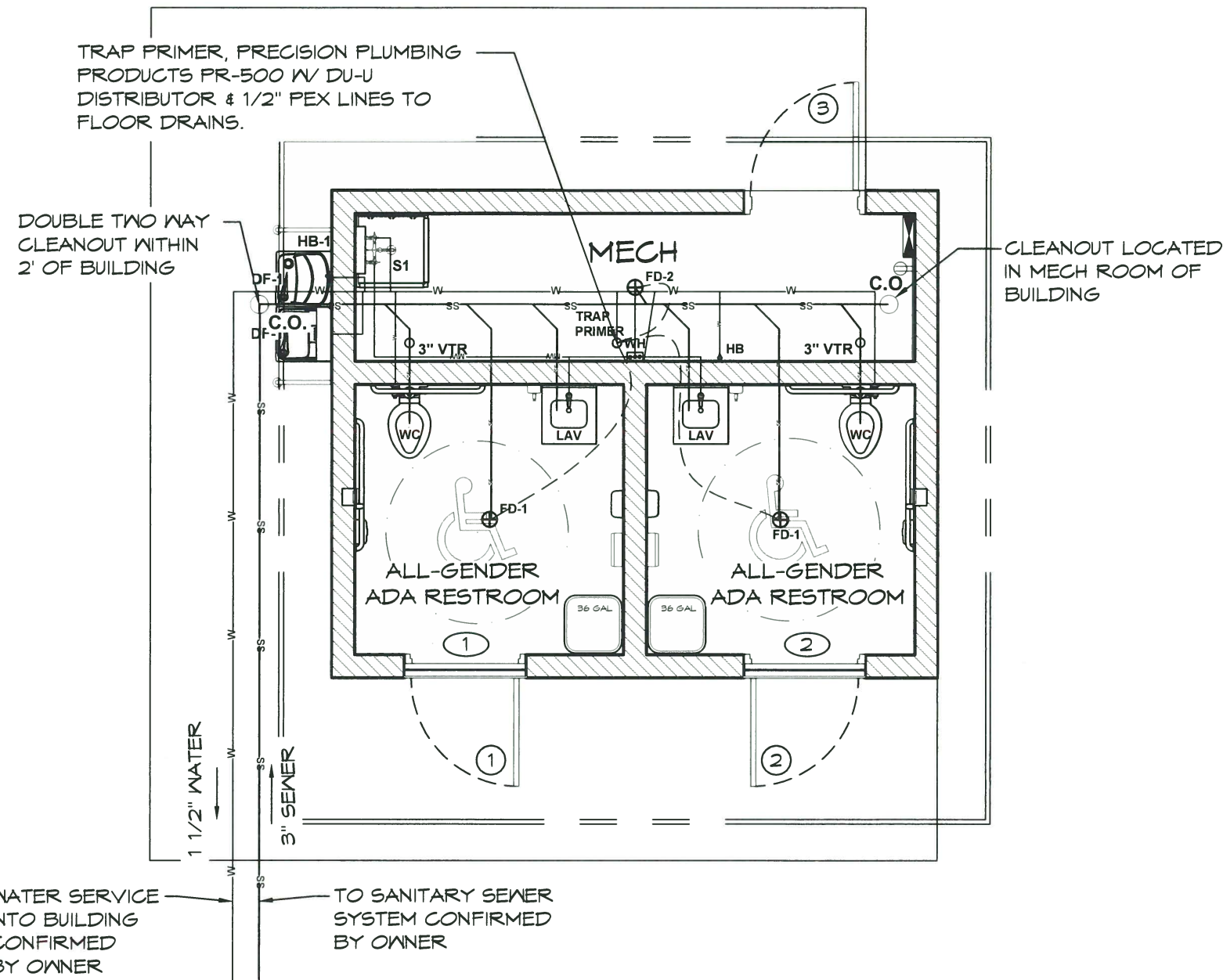
NOTE:  
 FIXTURES ARE SYMBOLIC ONLY  
 REFER TO SPECIFICATIONS AND  
 PRODUCT LITERATURE FOR  
 INSTALLATION DETAILS

**WATER-PLUMBING LEGEND**

— W — COLD WATER  
 — MW — MIXED WATER

**SEWER-PLUMBING LEGEND**

— SS — SANITARY SEWER  
 — V — VENT LINE

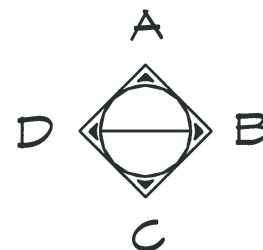


\*REFER TO THE FIXTURE CUT SHEET  
 FOR ROUGH-IN MEASUREMENTS

**CPC NOTES**

- NOTES:
1. WATER PIPE SIZE AND PRESSURE REQUIREMENTS MUST BE CONFIRMED BY PLUMBING CONTRACTOR BASED ON LOCAL SUPPLY.
  2. FIXTURE & FIXTURE CONNECTIONS ARE SYMBOLIC IN NATURE ONLY. REFER TO MANUFACTURER LITERATURE FOR EXACT FIXTURE SPECIFICATIONS.
  3. ALL SANITARY, DRAINAGE, WASTE, AND VENT LINES SCHEDULE 40 PVC OR ABS.
  4. ALL WATER LINES SHALL BE COPPER OR PER LOCAL CODE. NO JOINTS IN OR UNDER THE SLAB.
  5. WATER PIPE SIZING IS A MINIMUM SUGGESTION. PLUMBING CONTRACTOR WILL MAKE THE FINAL DETERMINATION.
  7. ALL FLOOR SINKS AND DRAINS SHALL HAVE TRAP PRIMERS AS NOTED IN PLANS, PER CPC 1007.0

**1 PLUMBING PLAN**  
 SCALE: 1/4" = 1'-0"



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 (647) 486-5341 FAX (647) 486-9803

PROJECT: 2022 SIERRA | COMPACT 16'-8" W MECH RM  
 JOHN F. KENNEDY RR FACILITY  
 SACRAMENTO, CALIFORNIA  
 SHEET TITLE: PLUMBING PLAN

PLAN SET#	JFKO1	
DATE:	10/16/2023	
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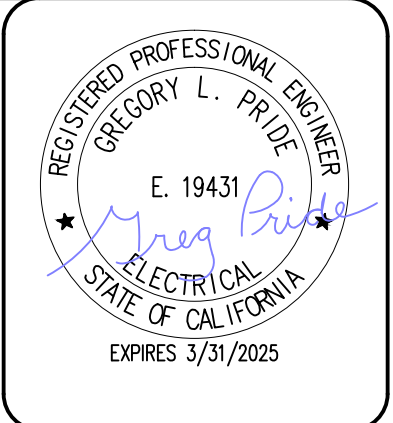
SHEET NO.

**P2**



# GENERAL ELECTRICAL NOTES:

1. ALL WORK SHALL COMPLY WITH 2022 CALIFORNIA ELECTRICAL CODE AND LOCAL CODES.
2. OWNER TO PROVIDE TEMPORARY POWER AS REQUIRED DURING COURSE OF CONSTRUCTION.
3. ELECTRICAL SERVICE EQUIPMENT SUPPLIED BY OTHERS UNDER SEPARATE SUBMITTAL.
4. THE AIC VALUES SHOWN ON THESE ROMTEC PLANS ARE TO BE MADE CLEARLY AVAILABLE TO THE ELECTRICAL ENGINEER OF RECORD THAT WILL DESIGN THE MAIN SERVICE.
5. THE INSTALLER SHALL FURNISH & INSTALL SPECIFICATION GRADE CIRCUIT BREAKERS, WIRING, CONDUIT, SWITCHES AND GFI RECEPTACLES THROUGHOUT. INTERIOR RECEPTACLES & SWITCHES SHALL HAVE STAINLESS STEEL COVERPLATES AND EXTERIOR RECEPTACLES SHALL BE INSTALLED WITH A WEATHERPROOF IN USE COVER.
6. ELECTRICAL CONDUIT IS TO BE RUN WITHIN THE WALL WHEN POSSIBLE, EXCEPT IN THE MECHANICAL ROOM.
7. FOR MECHANICAL ROOM ALL EXPOSED CONDUIT IS TO BE SURFACE MOUNTED AND RUN TIGHT TO CEILING AS REQUIRED.
8. COORDINATE AC OUTLET HEIGHTS WITH OWNER PRIOR TO ROUGH-IN.



# ELECTRICAL SCHEDULE & SYMBOL LEGEND:

QTY	SYMBOL	DESCRIPTION
1		200 AMP BREAKER PANEL
PER PLAN		HOME RUN TO BREAKER PANEL
PER PLAN		110 VAC DUPLEX RECEPTACLE, GROUND FAULT PROTECTED MOUNTED MIN OF 15" TO MAX OF 48" ABOVE THE FLOOR CONFIRM EXACT LOCATION & HEIGHT WITH OWNER OR OWNERS REPRESENTATIVE.
1		SWITCH, SINGLE POLE MOUNTED A MAX OF 48" ABOVE THE FLOOR
4		LIGHT FIXTURE, WALL MOUNT UL LISTED TO U.S. SAFETY STANDARDS FOR ALL WET LOCATIONS WALL MOUNT, LED DOWN LIGHT, LITHONIA OLLWD: (9W) (.08A)
2		LIGHT FIXTURE, WALL MOUNT UL LISTED TO U.S. SAFETY STANDARDS FOR ALL WET LOCATIONS WALL MOUNT LED UP/DOWN LIGHT LITHONIA OLLWU: (14W) (.12A)
1		48" LED VAPOR TIGHT CEILING/WALL MOUNT LIGHT LITHONIA CSVTL48 5000LM 40K 80CRI 4,298LM 40K: (35.3 W) (.2942 A)
1		PHOTO CELL, W/ WEATHER PROOF COVER
2		OCCUPANCY SENSOR WALL MOUNT ACUITY SENSOR SWITCH WVR PDT 16 WIDE VIEW SENSOR : 2 POLE (120/277,347 VAC 13 AMPS/POLE 347 VAC MUST BE SAME PHASE )
2		HAND DRYER WALL MOUNT, THINAIR TA-SB: (915W) (7.7A)
1		DRINKING FOUNTAIN W/ BOTTLE FILLER ELKAY: VRCTLDDWSK - (15W) (1.0A)
1		INSTANT WATER HEATER EEMAX, SPEX95TML: 1 GPM @ 65°F (9500W) (40A) 240V

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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM

JOHN F. KENNEDY RR FACILITY  
SACRAMENTO, CALIFORNIA

SHEET TITLE: ELECTRICAL SCHEDULE

DOUBLE 'E'  
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Myrtle Point, Oregon  
www.ee-engineering.com

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ROSEBURG, OR 97470  
(541) 496-3541 FAX (541) 496-0803

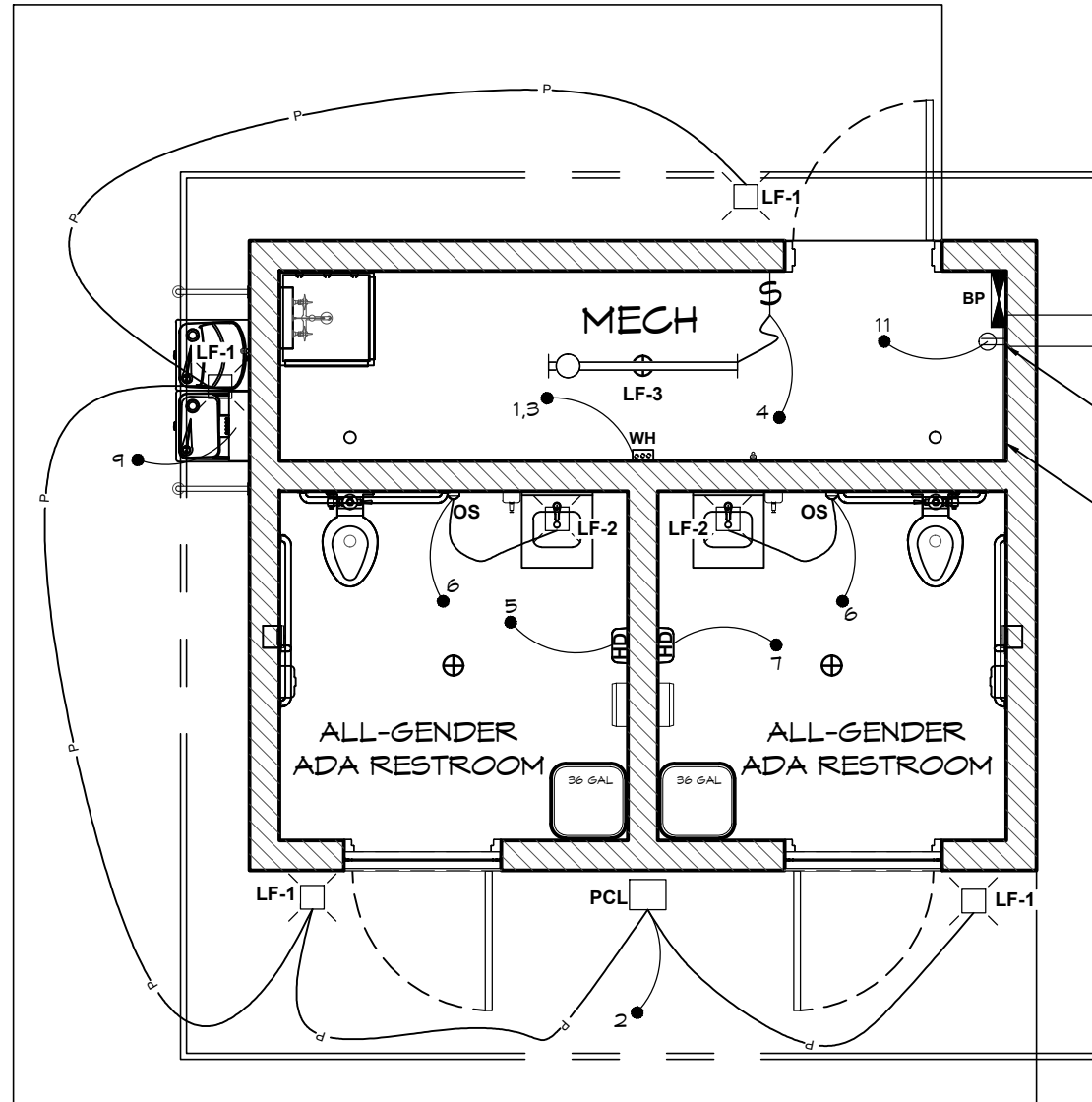
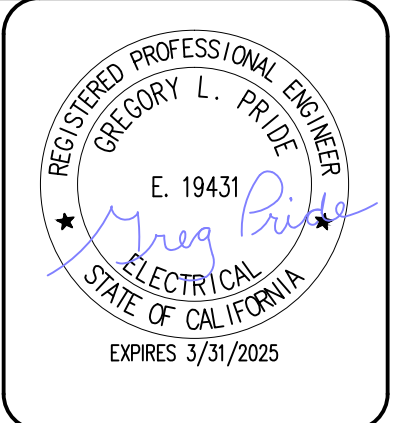
**ROMTEC**

PLAN SET#	JFK01	
DATE:	10/16/2023	
REVISIONS		
REV.	DATE:	BY
DRAWN BY:	CR	

NOTE:  
SEE SHEETS A1.4, A2.1, & A2.2  
FOR LOCATIONS - HEIGHTS OF  
ELECTRICAL FIXTURES.

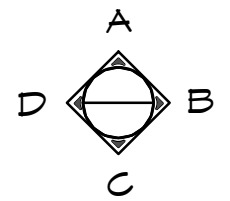
NOTE: ELECTRICAL PANEL MAY BE  
RELOCATED AT THE DISCRETION OF THE  
INSTALLER, PANEL MUST MAINTAIN ALL  
APPLICABLE CODE CLEARANCES.

ROMTEC HAS DESIGNED THIS ELECTRICAL SYSTEM  
TO MEET THE NEEDS OF THIS SPECIFIC FACILITY.  
SITE DESIGN AND ENGINEERING BY OTHERS.  
OWNER IS RESPONSIBLE TO PROVIDE ALL SERVICE  
AND/OR UTILITY ENTRANCE DESIGN. FIELD VERIFY  
THAT SERVICE CONDUCTOR SIZE IS ADEQUATE FOR  
VOLTAGE DROP. ANY ADDITIONAL POWER OR  
LIGHTING LOADS NOT SHOWN ON THESE PLANS  
SHALL BE ENGINEERED BY OTHERS.



- 2" PVC CONDUIT - FOR INCOMING POWER TO RESTROOM, STUB CONDUIT 5' FROM WALL
- (2) 1 1/4" PVC CONDUITS - FOR OUTGOING POWER TO SECURITY LIGHTS, STUB CONDUITS 5' FROM WALL
- PROVIDE (2) 20A/1P & (1) 30A/1P FOR SECURITY LIGHTS
- 3' x 5' x 3/4" PLYWOOD FOR SECURITY LIGHTING CONTROLLER

**1** ELECTRICAL PLAN  
SCALE: 1/4" = 1'-0"



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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM

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Myrtle Point, Oregon  
www.ee-engineering.com

18240 NORTH BANK ROAD  
ROSEBURG, OR 97470  
(541) 486-3541 FAX (541) 486-0803

**ROMTEC**

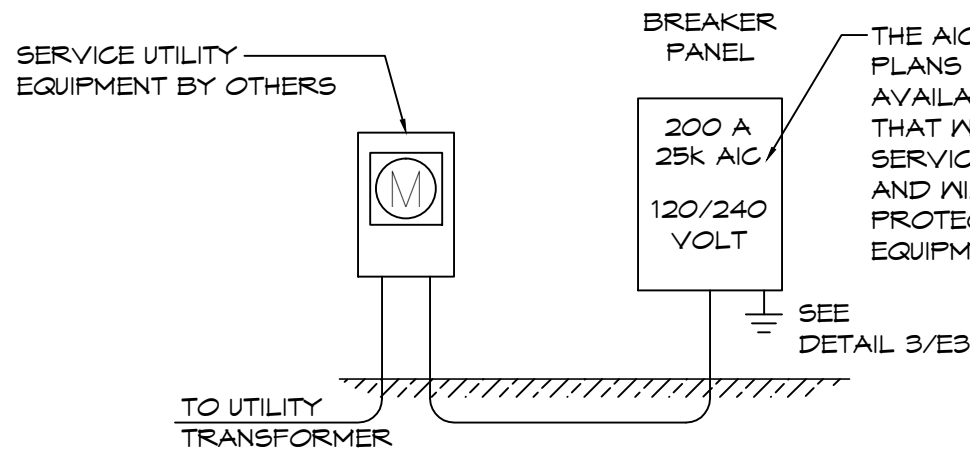
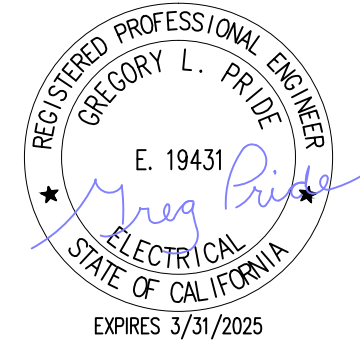
JOHN F. KENNEDY RR FACILITY  
SACRAMENTO, CALIFORNIA

SHEET TITLE: ELECTRICAL PLAN

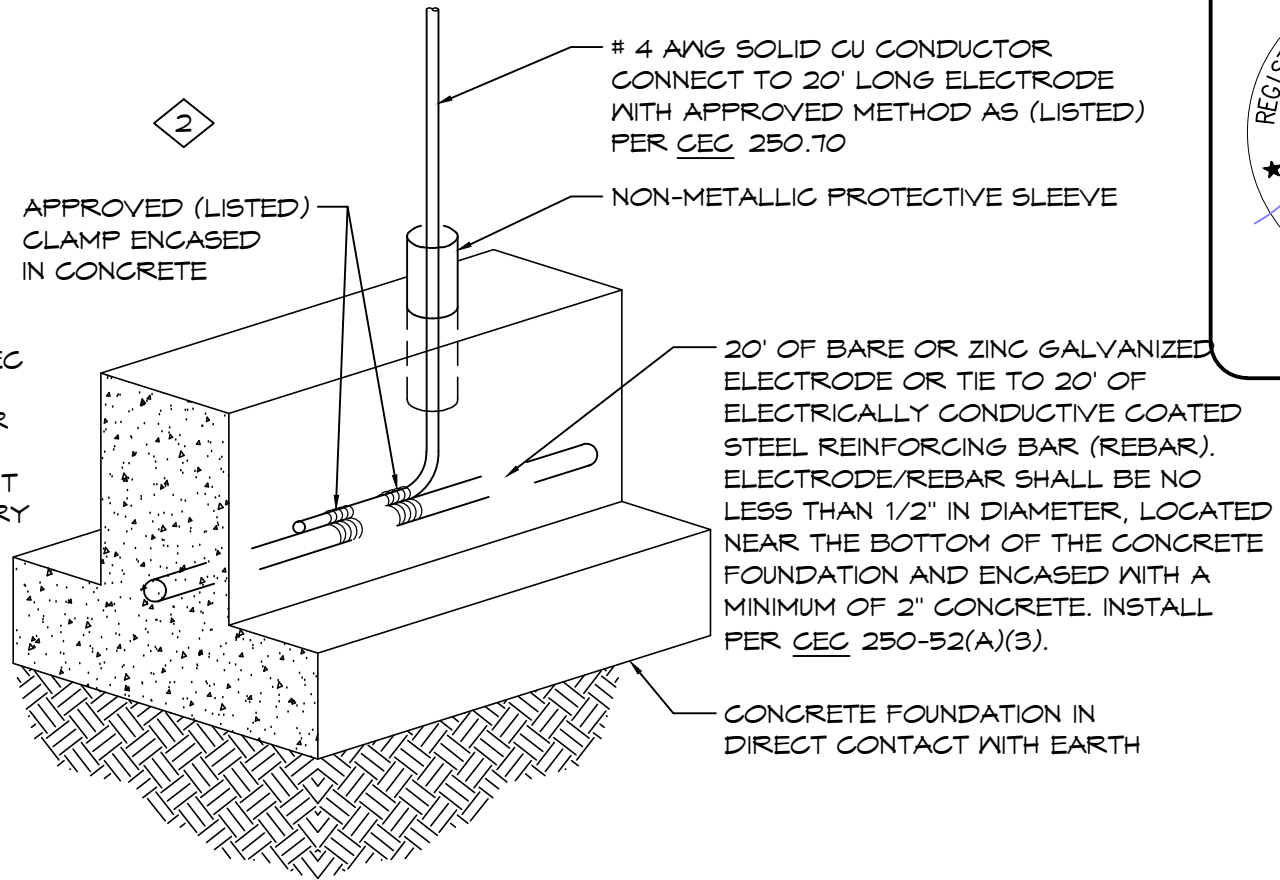
PLAN SET#		
JFK01		
DATE:		
10/16/2023		
REVISIONS		
REV.	DATE:	BY
1	10-23-2023	CR
DRAWN BY:		
CR		

SHEET NO. **E2**

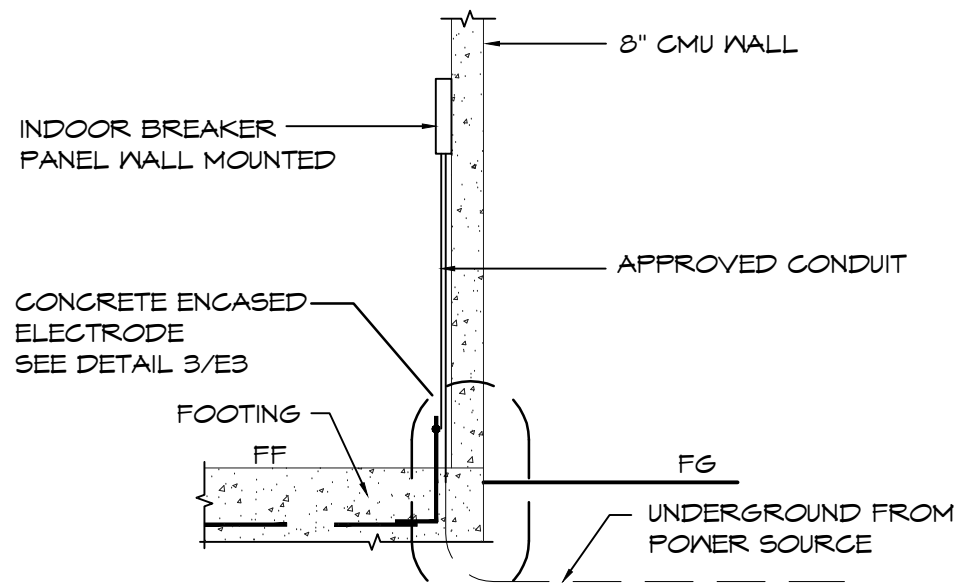




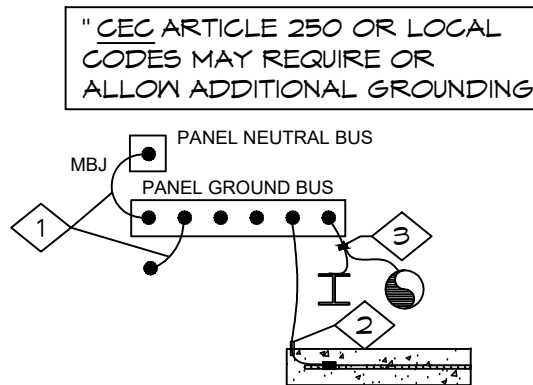
**1 ONE-LINE DIAGRAM**  
SCALE: NONE



**3 CONCRETE ENCASED SERVICE GROUND**  
SCALE: NONE



**2 RISER DIAGRAM**  
SCALE: NONE



**4 GROUNDING/BONDING DETAIL**  
SCALE: NONE

**KEYED NOTES**

- 1 #4 CU MAIN BONDING JUMPER AND EQUIPMENT BONDING JUMPER PER CEC 250.28(D), 250.102(C) AND TABLE 250.66. DO NOT BOND THE NEUTRAL TO THE GROUND BUS IF THIS IS NOT A SERVICE ENTRANCE
- 2 #4 CU TO CONCRETE ENCASED ELECTRODE PER CEC 250.52(A)(3), 250.66(B) AND 250.70
- 3 WHERE REQUIRED, BOND PIPING SYSTEMS AND EXPOSED STRUCTURAL STEEL PER CEC 250.104

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(541) 496-3541 FAX (541) 496-0803

PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM

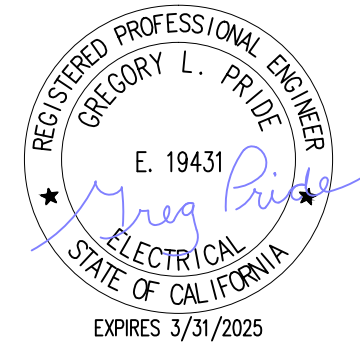
JOHN F. KENNEDY RR FACILITY  
SACRAMENTO, CALIFORNIA

SHEET TITLE: ELECTRICAL RISER DETAILS

PLAN SET# JFK01  
DATE: 10/16/2023  
REVISIONS

REV.	DATE	BY

DRAWN BY: CR



BREAKER PANEL																	10K AIC RATING			
200 AMP		MAIN BREAKER					120 / 240 VOLTS					1-PHASE, 3-WIRE								
FEEDER SIZE:		ALUM: 3 #250 PH, #4 GRD, 2" C					SURFACE MOUNTED													
ELECTRICAL WIRING:		GROUNDED & BOND PER - CEC					USE XHHW-2 CU CONDUCTORS													
LOAD DISTRIBUTION		LTG	REC	MOTOR	DATA	HEAT	MISC	PH-A	PH-B	= TOTAL	AMPS	WITH SPARE	25%							
CONNECTED VA		4900	195	0	0	11330	0	6944	9480	= 16425	79	20531	99							
DIVERSITY FACTOR		125%	100%	100%	100%	100%	100%			=										
DIVERSIFIED VA		6125	195	0	0	11330	0	7261	10389	= 17650	87	22062	108							
PL	T	LOAD	VA	HP	PHW	GND	CON	BKR		PH		BKR	CON	GND	PHW	HP	VA	LOAD	T	PL
1	H	WATER HEATER	4750		8	10	3/4	50	2	A	1	20	1/2	12	12		36	LTS: EXTERIOR	L	2
3	H		4750							B	1	20	1/2	12	12		35	LTS: MECH	L	4
5	H	HAND DRYER	915		12	12	1/2	20	1	A	1	20	1/2	12	12		28	LTS: RESTROOMS	L	6
7	H	HAND DRYER	915		12	12	1/2	20	1	B	1	20	1/2	12	12		1200	SECURITY LIGHTS	L	8
9	R	DRINKING FOUNTAIN	15		12	12	1/2	20	1	A	1	20	1/2	12	12		1200	SECURITY LIGHTS	L	10
11	R	RECEPTACLE	180		12	12	1/2	20	1	B	1	30	1/2	10	10		2400	SECURITY LIGHTS	L	12
13										A										14
15										B										16
17										A										18
19										B										20
21										A										22
23										B										24
25										A										26
27										B										28
29										A										30

PLEASE NOTE THAT THE VALUES FOR THE SECURITY LIGHTS ARE AN ESTIMATE. SEE PROJECT ELECTRICAL ENGINEERING PLANS FOR FINAL LOADS.

## ELECTRICAL PANEL SCHEDULE

SCALE: NONE

ROMTEC HAS DESIGNED THIS ELECTRICAL SYSTEM TO MEET THE NEEDS OF THIS SPECIFIC FACILITY. SITE DESIGN AND ENGINEERING BY OTHERS. OWNER IS RESPONSIBLE TO PROVIDE ALL SERVICE AND/OR UTILITY ENTRANCE DESIGN. FIELD VERIFY THAT SERVICE CONDUCTOR SIZE IS ADEQUATE FOR VOLTAGE DROP. ANY ADDITIONAL POWER OR LIGHTING LOADS NOT SHOWN ON THESE PLANS SHALL BE ENGINEERED BY OTHERS.

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PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM

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**ROMTEC**

JOHN F. KENNEDY RR FACILITY  
SACRAMENTO, CALIFORNIA

SHEET TITLE: ELECTRICAL PANEL SCHEDULE

PLAN SET# JFK01

DATE: 10/16/2023

REVISIONS

REV.	DATE	BY
1	10-23-2023	CR

DRAWN BY: CR



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### BUILDING ENERGY ANALYSIS REPORT

**PROJECT:**  
2310-020 John F. Kennedy Restroom  
6715 Gloria Dr.  
Sacramento, CA 95831

**Project Designer:**  
PSE Consulting Engineering, Inc.  
250 Main St. Ste. A  
Klamath Falls, Oregon 97601  
541-850-6300

**Report Prepared by:**  
Matthew Weldon  
Regerfour LLC dba 5 Star Energy  
940 Merchant St.  
Redding, Ca 96002  
5302753350

**Job Number:**  
2310-020

**Date:**  
10/18/2023

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2022 Building Energy Efficiency Standards.  
This program developed by EnergySoft, LLC - www.energysoft.com.

### TABLE OF CONTENTS

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STAMP

CONSULTANT

KEY MAP

SHEET TITLE  
**ENERGY ANALYSIS - ROMTEC**

PROJECT NAME  
**JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS**

PROJECT ADDRESS  
**6715 GLORIA DRIVE SACRAMENTO, CA 95831**

SUBMITTAL	DATE
50% SUBMITTAL	08/25/23
100% DSA SUBMITTAL	10/25/23

NO.	REVISIONS	DATE

DRAWN BY: -	CHECKED BY: CS/MB
DATE ISSUED: 10/25/23	SCALE: N/A

PROJ. NO. 2304200

SHEET NO. **ENG 1.1**

STATE OF CALIFORNIA  
**Indoor Lighting**  
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E  
Project Name: 2310-020 John F. Kennedy Restroom Report Page: (Page 1 of 7)  
Date Prepared: 10/18/2023

This document is used to demonstrate compliance with requirements in 110.9, 110.13(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

Project Address: 6715 Gloria Dr. Date Prepared: 10/18/2023

#### A. GENERAL INFORMATION

01 Project Location (city)	Sacramento	04 Total Conditioned Floor Area (ft <sup>2</sup> )	0
02 Climate Zone	12	05 Total Unconditioned Floor Area (ft <sup>2</sup> )	222
03 Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	1

- Support Areas

#### B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces	Unconditioned Spaces			
01	02	03			
04	05				
My Project Consists of (check all that apply):		Calculation Method	Area (ft <sup>2</sup> )	Calculation Method	Area (ft <sup>2</sup> )
<input checked="" type="checkbox"/> New Lighting System	Area Category Method	0	Area Category Method	222	
<input type="checkbox"/> New Lighting System - Parking Garage					
<b>Total Area of Work (ft<sup>2</sup>)</b>		0			222

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STATE OF CALIFORNIA  
**Indoor Lighting**  
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E  
Project Name: 2310-020 John F. Kennedy Restroom Report Page: (Page 2 of 7)  
Date Prepared: 10/18/2023

#### C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)					Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)			Compliance Results		
	01	02	03	04	05	06	07	08			
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	Total Allowed (Watts)	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(d)2 / 170.2(e)1B (-)	Total Adjusted (Watts) *Includes Adjustments			
(See Table I)	(See Table I)	(See Table J)	(See Table K)	=	≥	(See Table F)	(See Table F)	=	05 must be ≥ 08 140.6 / 170.2(e)		
Unconditioned	144.3	0		=	144	≥	63	0	=	63	COMPLIES
Controls Compliance (See Table H for Details)									COMPLIES		
Rated Power Reduction Compliance (See Table Q for Details)									COMPLIES		

#### D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

#### E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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STATE OF CALIFORNIA  
**Indoor Lighting**  
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E  
Project Name: 2310-020 John F. Kennedy Restroom Report Page: (Page 3 of 7)  
Date Prepared: 10/18/2023

#### F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Watts: Unconditioned Spaces									
01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change	Watts per luminaire <sup>2</sup>	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector
LF-2	Lithonia OLLWJ Wall Mount L4w (LF-2)	No	NA	14	Mfr. Spec	2	No	28	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
LF-3	Lithonia 48" Vapor Tight Wall Mount 35.3w LED	No	NA	35.3	Mfr. Spec	1	No	35.3	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
<b>Total Designed Watts: UNCONDITIONED SPACES</b>								63	

<sup>2</sup>FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75%/80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.  
<sup>3</sup>Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

#### G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

#### H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls		
01	02	03
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Field Inspector
NA < 4,000W subject to multilevel	See Area/Space Level Controls	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

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STATE OF CALIFORNIA  
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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E  
Project Name: 2310-020 John F. Kennedy Restroom Report Page: (Page 4 of 7)  
Date Prepared: 10/18/2023

#### I. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls											
04	05	06	07	08	09	10	11	12			
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(e) / 170.2(e)2A	Interlocked Systems 140.6(a)1 / 170.2(e)2A	Field Inspector			
								13	Pass	Fail	
Plan Sheet Showing Daylit Zones:											

#### J. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used.

Unconditioned Spaces					
01	02	03	04	05	06
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft <sup>2</sup> )	Area (ft <sup>2</sup> )	Allowed Wattage (Watts)	Additional Allowance / Adjustment
Restrooms/Mech Storage	Restroom	0.65	222	144.3	No PAF
<b>TOTALS:</b>		222	222	144.3	See Tables J, or F for detail

#### K. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

#### L. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

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STATE OF CALIFORNIA  
**Indoor Lighting**  
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E  
Project Name: 2310-020 John F. Kennedy Restroom Report Page: (Page 5 of 7)  
Date Prepared: 10/18/2023

#### M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

#### N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

#### O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

#### P. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

#### Q. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

#### R. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

#### S. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

#### T. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

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STATE OF CALIFORNIA  
**Indoor Lighting**  
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E  
Project Name: 2310-020 John F. Kennedy Restroom Report Page: (Page 6 of 7)  
Date Prepared: 10/18/2023

#### T. DWELLING UNIT LIGHTING

This section does not apply to this project.

#### U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title

NRCC-LTI-E - Must be submitted for all buildings

#### V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

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STATE OF CALIFORNIA  
**Outdoor Lighting** CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-LTO-E  
 Project Name: 2310-020 John F. Kennedy Restroom Report Page: (Page 7 of 7)  
 Project Address: 6715 Gloria Dr. Date Prepared: 10/18/2023

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**  
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Matthew Weldon  
 Signature Date: 2023-10-18  
 Company: Regerfour LLC dba 5 Star Energy  
 Address: 940 Merchant St.  
 City/State/Zip: Redding Ca 96002  
 Phone: 5302753350

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**  
 I certify the following under penalty of perjury, under the laws of the State of California:  
 1. The information provided on this Certificate of Compliance is true and correct.  
 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).  
 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.  
 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.  
 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Nabil (Bill) Taha  
 Company: PSE Consulting Engineering, Inc.  
 Address: 250 Main St. Ste. A  
 City/State/Zip: Klamath Falls Oregon 97601  
 Date Signed: 2023-10-18  
 License: 04  
 Phone: 541-850-6300

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STATE OF CALIFORNIA  
**Outdoor Lighting** CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-LTO-E  
 Project Name: 2310-020 John F. Kennedy Restroom Report Page: (Page 3 of 7)  
 Project Address: 6715 Gloria Dr. Date Prepared: 10/18/2023

**F. OUTDOOR LIGHTING FIXTURE SCHEDULE**  
 For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (i.e. existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H, and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Watts per luminaire <sup>1,2</sup>	How is Wattage determined	Total Number Luminaires <sup>3</sup>	Luminaire Status <sup>3</sup>	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c) <sup>4</sup>	Field Inspector
LF-1	Lithonia OLLWD Wall Mount LED Lighting 9w (LF-1) <input type="checkbox"/> Linear	9	Mfr. Spec	4	New	<input type="checkbox"/>	36	NA: < 6200 lumens	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
<b>Total Design Watts:</b>							36		

<sup>1</sup> NOTES: Selections with a \* require a note in the space below explaining how compliance is achieved.  
 EX: Luminaire is lighting a stoop. EXCEPTION 2 to 130.2(b)  
<sup>2</sup> FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets for compliance per 130.0(c) / 160.5(b)  
<sup>3</sup> For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.  
<sup>4</sup> Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.  
<sup>5</sup> Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b) / 160.5(c)

**G. SHIELDING REQUIREMENTS (BUG)**  
 This section does not apply to this project.

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STATE OF CALIFORNIA  
**Outdoor Lighting** CALIFORNIA ENERGY COMMISSION

**CERTIFICATE OF COMPLIANCE** NRCC-LTO-E  
 Project Name: 2310-020 John F. Kennedy Restroom Report Page: (Page 6 of 7)  
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**M. LIGHTING ALLOWANCE: PER SPECIFIC AREA**  
 This section does not apply to this project.

**N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)**  
 This section does not apply to this project.

**O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**  
 Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title

NRCC-LTO-E - Must be submitted for all buildings

**P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**  
 There are no NRCA forms required for this project.

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**A. GENERAL INFORMATION**

01 Project Location (city)	Sacramento	04 Total Illuminated Hardscape Area (ft <sup>2</sup> )	193
02 Climate Zone	12		
03 Outdoor Lighting Zone per Title 24 Part 1 30.114 or as designated by Authority Having Jurisdiction (AHJ):			
<input type="checkbox"/> LZ-0: Very Low - Undeveloped Parkland	<input type="checkbox"/> LZ-2: Moderate - Urban Clusters	<input type="checkbox"/> LZ-4: High - Must be reviewed by CA Energy Commission for Approval	
<input type="checkbox"/> LZ-1: Low - Rural Areas	<input checked="" type="checkbox"/> LZ-3: Moderately High - Urban Areas		
05 Occupancy Types within Project			
* Support Areas			

**B. PROJECT SCOPE**  
 This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.

My Project Consists of:

01	02
<input checked="" type="checkbox"/> New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6
<input type="checkbox"/> Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?
	Yes <input type="radio"/> No <input checked="" type="radio"/>
03	
% of Existing Luminaires Being Altered <sup>1</sup>	Sum Total of Luminaires Being Added or Altered
<input type="checkbox"/> < 10% <input type="checkbox"/> >= 10% and < 50% <input type="checkbox"/> >= 50%	Calculation Method

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.  
<sup>1</sup> FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

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**H. OUTDOOR LIGHTING CONTROLS**  
 This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (i.e. untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.  
 Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit.  
 Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector
				Pass <input type="checkbox"/> Fail <input type="checkbox"/>

<sup>1</sup> FOOTNOTE: text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.  
<sup>2</sup> Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.  
<sup>3</sup> Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are exempted from ii and iii.

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**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**  
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Matthew Weldon  
 Signature Date: 2023-10-18  
 Company: Regerfour LLC dba 5 Star Energy  
 Address: 940 Merchant St.  
 City/State/Zip: Redding Ca 96002  
 Phone: 5302753350

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**  
 I certify the following under penalty of perjury, under the laws of the State of California:  
 1. The information provided on this Certificate of Compliance is true and correct.  
 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).  
 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.  
 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.  
 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Nabil (Bill) Taha  
 Company: PSE Consulting Engineering, Inc.  
 Address: 250 Main St. Ste. A  
 City/State/Zip: Klamath Falls Oregon 97601  
 Date Signed: 2023-10-18  
 License: 04  
 Phone: 541-850-6300

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**C. COMPLIANCE RESULTS**  
 Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv						Compliance Results		
01	02	03	04	05	06	07	08	09
General Hardscape Allowance 140.7(f)1 / 170.2(e)6 (See Table I)	+ Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+ Sales Frontage 140.7(d)2 / 170.2(e)6 (See Table K)	+ Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+ Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR Existing Power Allowance 141.0(b)3 / 180.2(b)4Bv (See Table N)	= Total Allowed (Watts)	≥ Total Actual (Watts)	07 must be ≥ 08
266	+ ---	+ ---	+ ---	+ ---	OR ---	= 266	≥ 36	COMPLIES
<b>Shielding Compliance (See Table G for Details)</b>								N/A
<b>Controls Compliance (See Table H for Details)</b>								Not applicable

**D. EXCEPTIONAL CONDITIONS**  
 This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

**E. ADDITIONAL REMARKS**  
 This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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**I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))**  
 This table includes areas using allowance calculations per 140.7 / 170.2(c). General Hardscape Allowance is per Table 140.7-A/140.7-B/170.2-R while "Use it or lose it" Allowances are per Table 140.7-B/170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.  
 Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H, and are not included here. All other multifamily outdoor lighting is included here.

01		02		03		04		05		06		07		08		09	
Area Description		Illuminated Area (ft <sup>2</sup> )		Allowed Density (W/ft <sup>2</sup> )		Area Allowance (Watts)		Perimeter Length (ft)		Allowed Density (W/ft)		Linear Allowance (Watts)		Total General AWA + LWA (Watts)		Total General AWA + LWA (Watts)	
Entrances Side Walk		193		0.021		4.1		60		0.2		12		16		266	
<b>Initial Wattage Allowance for Entire Site (Watts):</b>																250	
<b>Instances of Initial Wattage Allowance (LZ 0 only)<sup>1</sup></b>																	
<b>Total General Hardscape Allowance (Watts):</b>																266	

**J. LIGHTING ALLOWANCE: PER APPLICATION**  
 This section does not apply to this project.

**K. LIGHTING ALLOWANCE: SALES FRONTAGE**  
 This section does not apply to this project.

**L. LIGHTING ALLOWANCE: ORNAMENTAL**  
 This section does not apply to this project.

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STAMP

CONSULTANT

KEY MAP

SHEET TITLE  
**ENERGY ANALYSIS - ROMTEC**

PROJECT NAME  
**JOHN F. KENNEDY HIGH SCHOOL BASEBALL, SOFTBALL, & TENNIS COURT IMPROVEMENTS**

PROJECT ADDRESS  
**6715 GLORIA DRIVE SACRAMENTO, CA 95831**

SUBMITTAL	DATE
50% SUBMITTAL	08/25/23
100% DSA SUBMITTAL	10/25/23

NO.	REVISIONS	DATE
△		
△		
△		
△		
△		
△		

DRAWN BY: - CHECKED BY: CS/MB  
 DATE ISSUED: 10/25/23 SCALE: N/A

PROJ. NO.: 2304200

SHEET NO.: **ENG 1.2**

ENERGY ANALYSIS - ROMTEC