

**GENERAL DEMOLITION NOTES:**


1. CONTRACTOR SHALL COORDINATE UNDERGROUND DEMOLITION REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICT.
2. ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH ARCHITECTURAL PHASING SCHEDULE. CONTRACTOR SHALL REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
3. (E) PULL BOX NOT SHOWN OR IDENTIFIED ON DRAWINGS TO REMAIN AND SHALL NEED TO BE ADJUSTED TO (N) FINISH GRADE. CONTRACTOR TO PROVIDE AND INCLUDE, IN BID, BOX ADJUSTMENTS. ADJUSTMENTS INCLUDE (N) GRAVEL AND ADDITIONAL PULL BOX APRON.
4. ALL (E) CONDUITS SHOWN ON DRAWINGS ARE DIAGRAMMATIC AND MAY NOT REFLECT EXACT ROUTING. CONTRACTORS TO INCLUDE IN BID PROFESSIONAL UNDERGROUND CONDUIT LOCATOR AS NEEDED FOR HESITE TO BE FAMILIAR WITH THE (E) SITE CONDITIONS AND PROVIDE REQUIRED WORK AND ADJUSTMENTS TO EXTEND/RECONNECT POWER CONDUITS AS NOTED IN DRAWINGS.
5. CONTRACTOR SHALL VERIFY ALL EXISTING ELECTRICAL EQUIPMENT NOTED ON DRAWINGS AND REMOVE TO SOURCE. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING AND LOCATING POWER AND COMMUNICATION SOURCE AND PROPERLY SAFE-OFF ALL ELECTRICAL EQUIPMENT NOTED TO BE DEMOLISHED.


**DEMOLITION SHEET NOTES:**

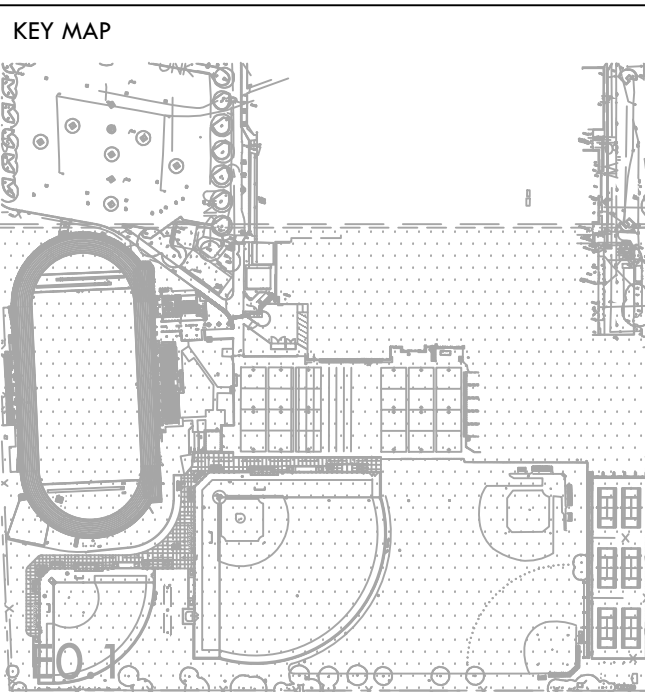
1. (E) BATTING CAGE TO BE DEMOLISHED. REMOVE (E) POWER OUTLETS BACK TO SOURCE. (E) UNDER POWER FOR MISC. EQUIPMENT TO REMAIN OPERATIONAL.
2. MAINTAIN (E) POWER CONDUIT & SIGNAL CONDUIT TO REMAIN OPERATIONAL FOR (E) FOOTBALL SCOREBOARD. MAINTAIN & PROTECT MAIN POWER CONDUIT & SIGNAL CONDUIT TO REMAIN OPERATIONAL.
3. COORDINATE WITH LANDSCAPE CONTRACTOR TO DISCONNECT AND REMOVE (E) SOFTBALL SCOREBOARD.
4. REMOVE ALL ELECTRICAL OUTLETS IN BUILDING BACK TO SOURCE. CONTRACTOR TO LOCATE (E) SOURCE AS NEEDED TO FACILITATE DEMOLITION WORK.
5. (E) CELLULAR ANTENNA POWER EQUIPMENT TO REMAIN.
6. DISCONNECT AND REMOVE POWER CABLES FEEDING (E) BOOSTER PUMP. REMOVE ALL ASSOCIATED CONDUIT AND CABLES TO (E) SOURCE TO FACILITATE COMPLETE REMOVAL.
7. DEMOLISH (E) POWER OUTLET AND (E) SIGNAL JACK BACK TO SOURCE TO FACILITATE BACK STOP REMOVAL. (E) P-CONECTOR TO BE REMOVE COMPLETELY.
8. (E) BREAKERS FOR BACKSTOP OUTLET AND SOFTBALL SCOREBOARD.
9. (E) NEMA 3R TRANSFORMER ASSOCIATED WITH CONCESSION BUILDING TO REMAIN. CONTRACTOR TO PROTECT AS NEEDED TO FACILITATE REMOVAL OF BOOSTER PUMP.
10. PROVIDE NEMA-4 6"X6"X6" CAN. RECONNECT EXISTING XTMR AS A RESULT OF BOOSTER PUMP BEING REMOVED. PROVIDE ASSOCIATED UNISTRUT SUCH THAT THE NEMA-4 CAN IS MOUNTED AS A PEDESTAL.

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 JOB #023098



SHEET TITLE  
**ELECTRICAL DEMOLITION 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
DSA BACKCHECK	01/18/24

NO.	REVISIONS	DATE

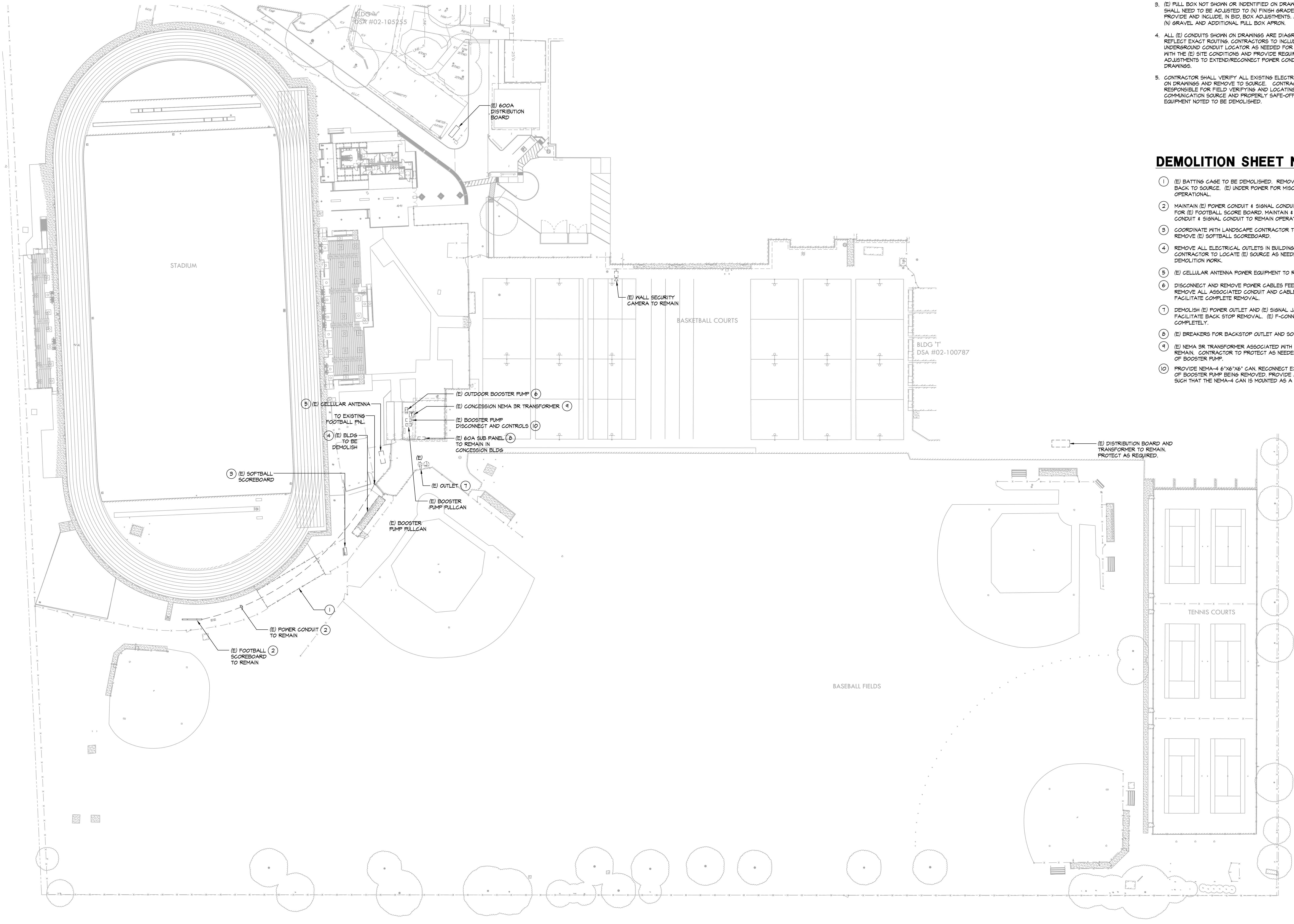
DRAWN BY: CN CHECKED BY: AA/SF

DATE ISSUED: 01/18/24 SCALE: AS NOTED

PROJ. NO.: 2304200

SHEET NO.: **E1.0**

ELECTRICAL DEMOLITION SITE PLAN

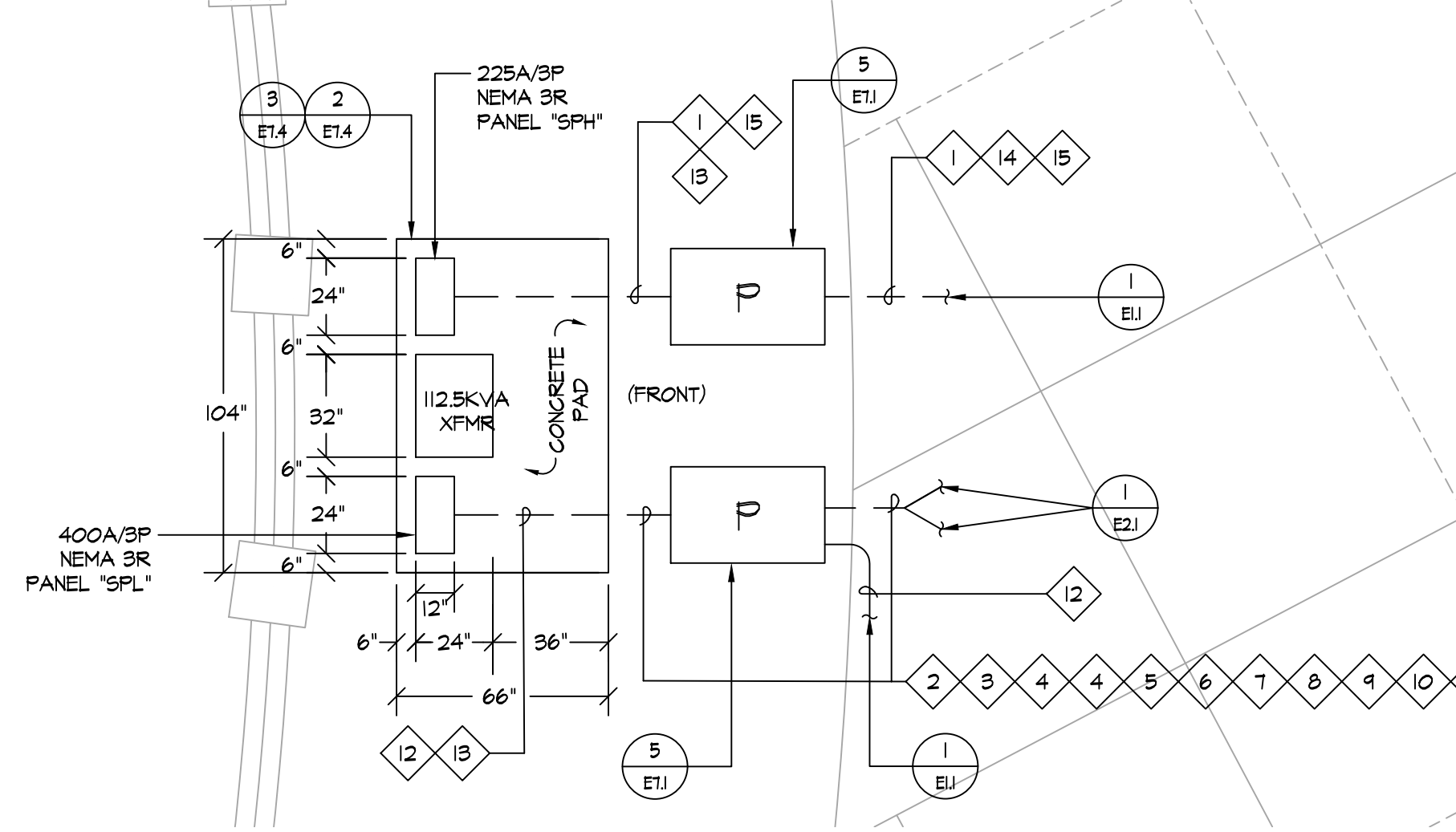
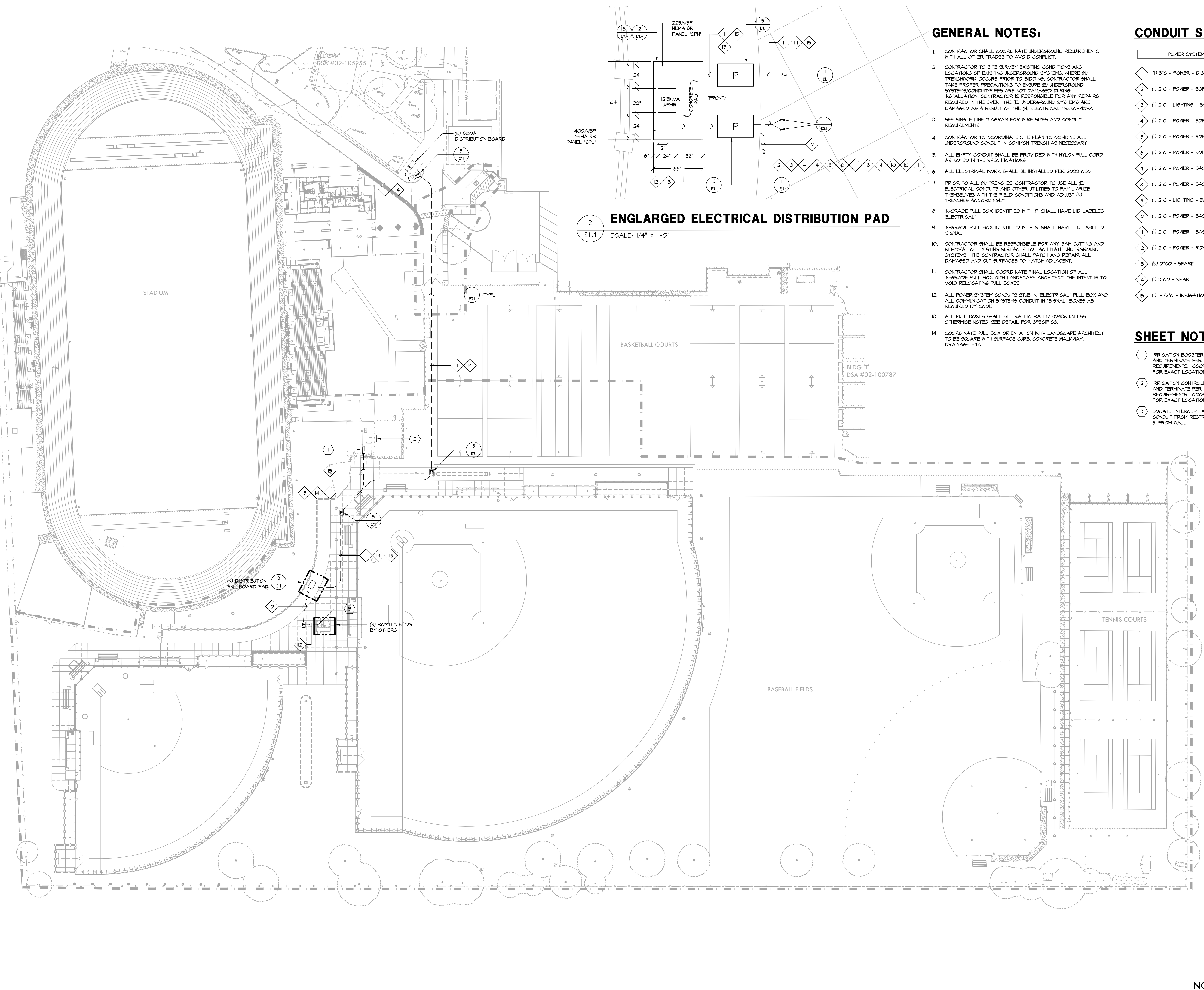


**1 ELECTRICAL DEMOLITION SITE PLAN**  
 E1.0 SCALE: 1" = 40'-0"



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**2 ENLARGED ELECTRICAL DISTRIBUTION PAD**  
 E1.1 SCALE: 1/4" = 1'-0"

**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/CONDUITS 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 GUT 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 - DISTRIBUTION
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) 3" - SPARE
14	(1) 3" - SPARE
15	(1) 1-1/2" - IRRIGATION PUMP

**SHEET NOTES:**

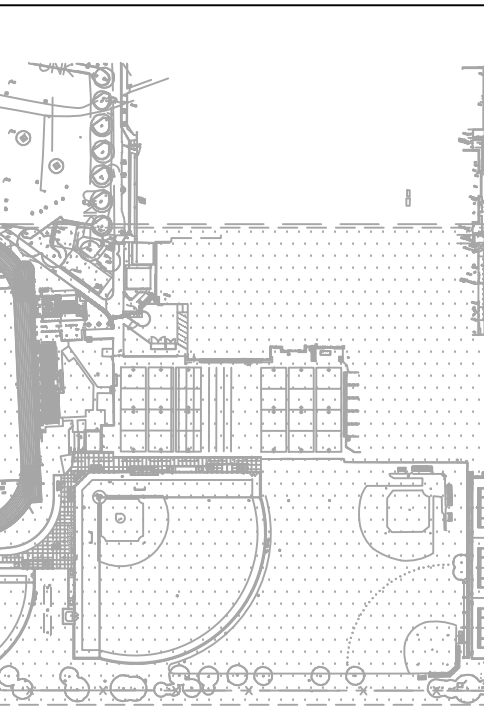
- IRRIGATION BOOSTER PUMP. CONTRACTOR SHALL INSTALL AND TERMINATE PER EQUIPMENT MANUFACTURER REQUIREMENTS. COORDINATE WITH LANDSCAPE / DISTRICT FOR EXACT LOCATION.
- IRRIGATION CONTROLLER. CONTRACTOR SHALL INSTALL AND TERMINATE PER EQUIPMENT MANUFACTURER REQUIREMENTS. COORDINATE WITH LANDSCAPE / DISTRICT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

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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
DSA BACKCHECK	01/18/24

NO.	REVISIONS	DATE

DRAWN BY: CN CHECKED BY: AA/SF

DATE ISSUED: 01/18/24 SCALE: AS NOTED

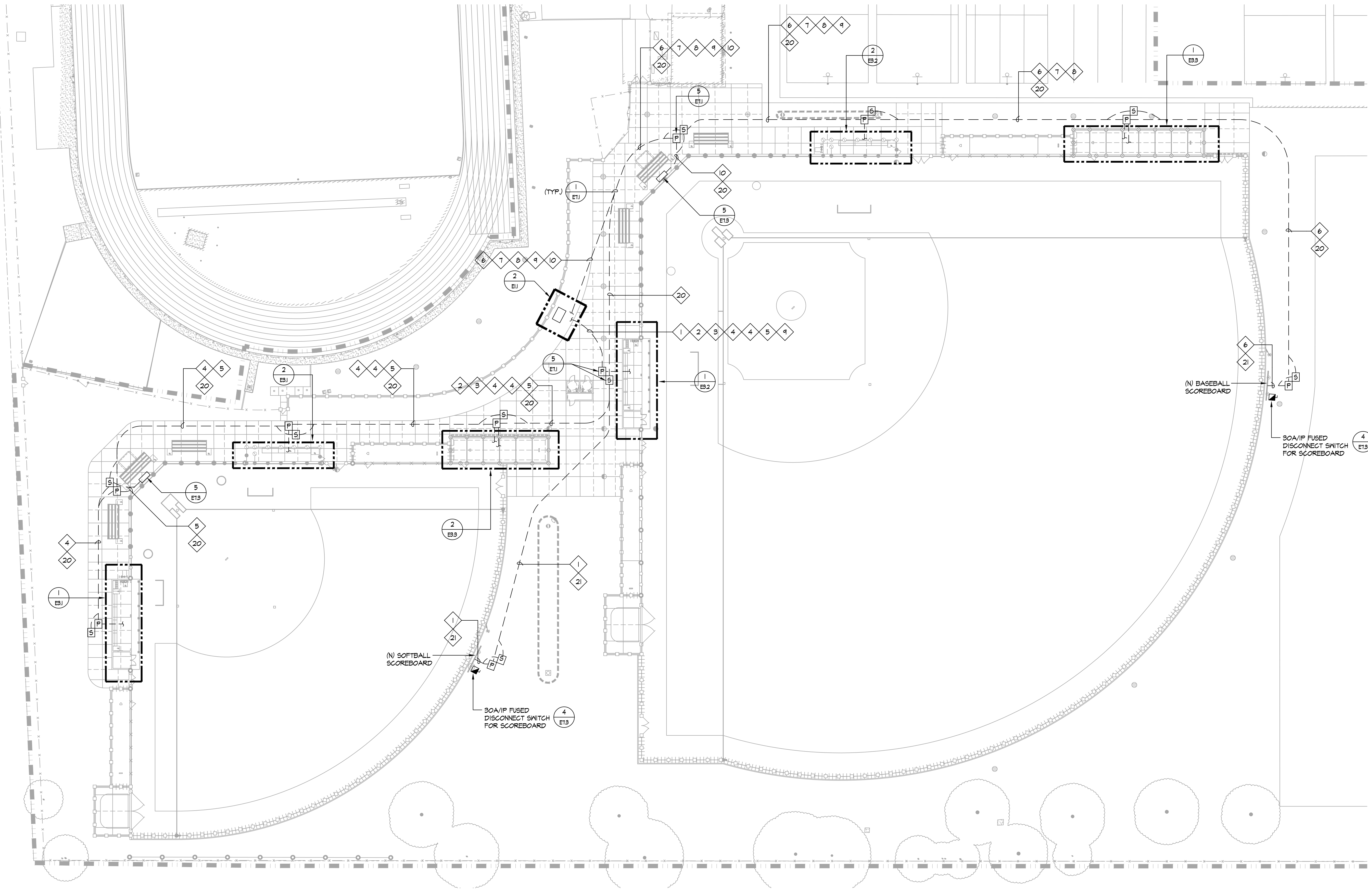
PROJ. NO.: 2304200

SHEET NO.: E1.1

**1 ELECTRICAL OVERALL SITE PLAN**  
 E1.1 SCALE: 1" = 40'-0"



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**1 ELECTRICAL ENLARGED BASEBALL AND SOFTBALL SITE PLAN - NEW**  
 E2.1 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/FIBERS 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 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:**

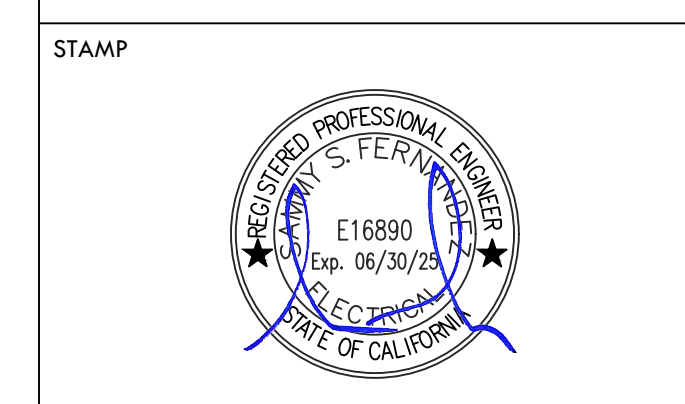
POWER SYSTEMS	
1	(1) 2" - POWER - SOFTBALL SCOREBOARD
2	(1) 2" - LIGHTING - SOFTBALL BATTING CAGE
3	(1) 2" - POWER - SOFTBALL BATTING CAGE
4	(1) 2" - POWER - SOFTBALL DUGOUT
5	(1) 2" - POWER - SOFTBALL BACKSTOP
6	(1) 2" - POWER - BASEBALL SCOREBOARD
7	(1) 2" - POWER - BASEBALL BATTING CAGE
8	(1) 2" -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

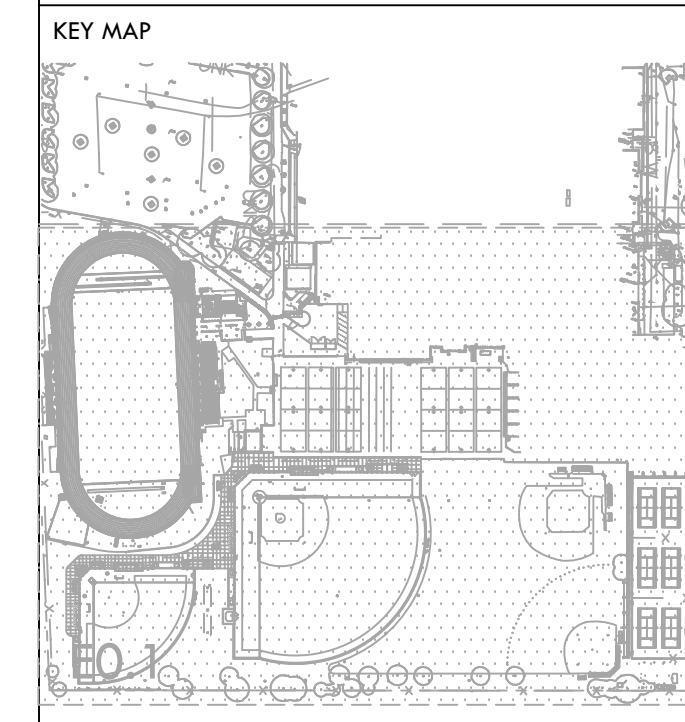
COMMUNICATION SYSTEMS	
20	(2) 2" CO - SIGNAL
21	(1) 2" CO - SIGNAL

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 JOB #0023098



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

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

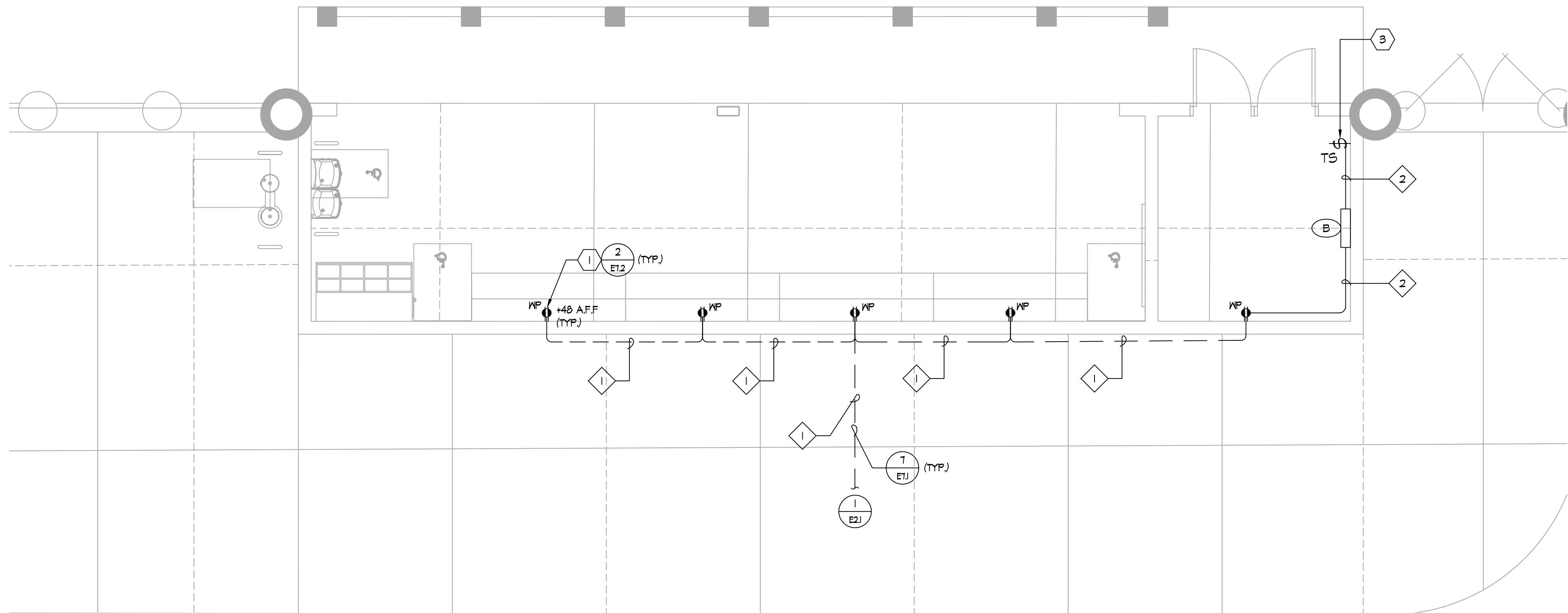
PROJECT ADDRESS  
**6715 GLORIA DRIVE SACRAMENTO, CA 95831**

SUBMITTAL	DATE
50% SUBMITTAL	08/20/23
100% SUBMITTAL	10/25/23
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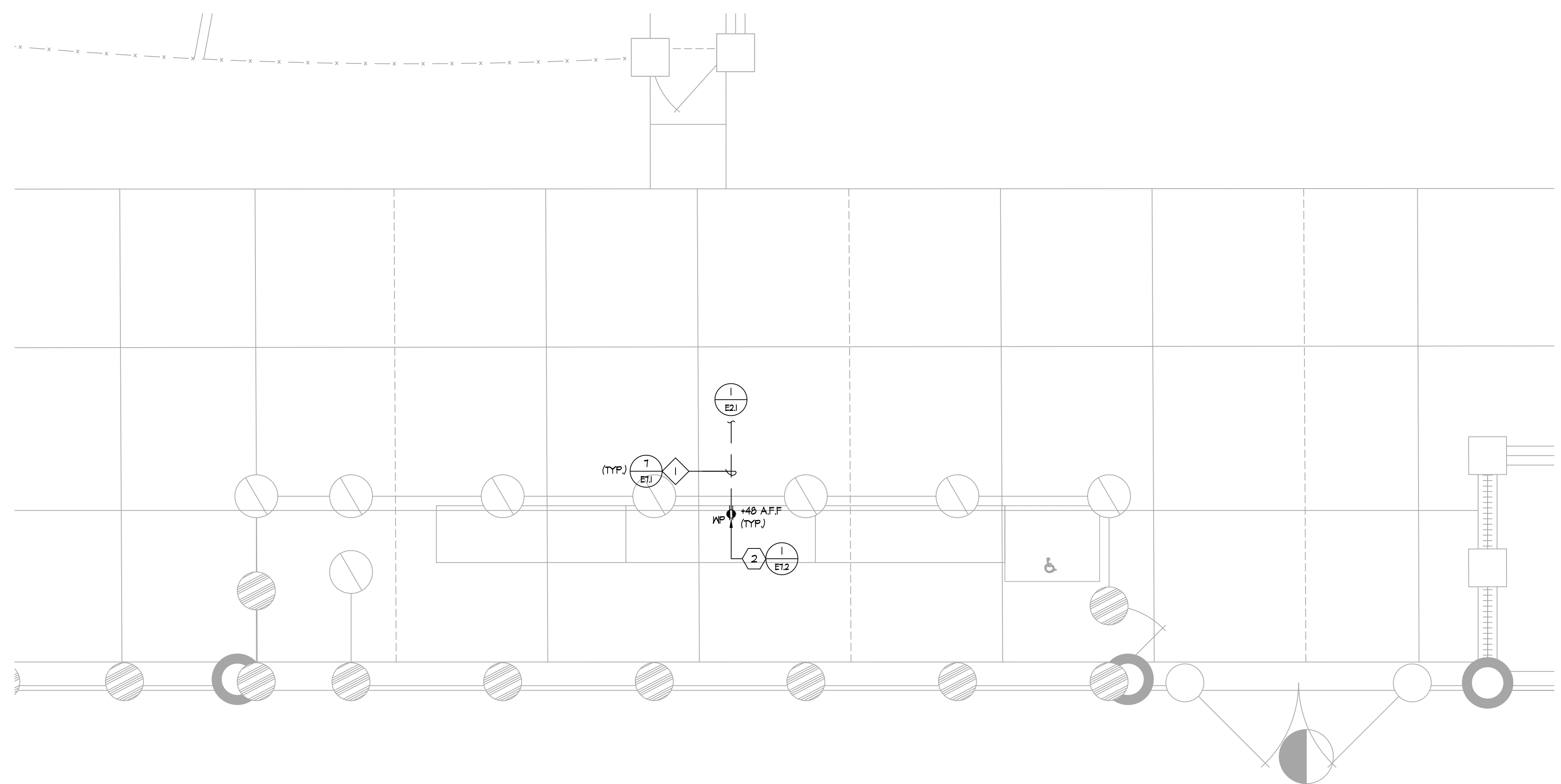
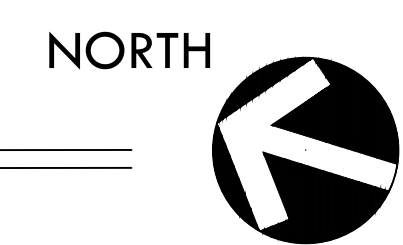
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 DATE ISSUED: 01/18/24 SCALE: AS NOTED  
 PROJ. NO.: 2304200  
 SHEET NO.: **E2.1**





**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:**

- 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/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.
- 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 (E11) 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 FENCING CONTRACTOR TO INSTALL OUTLET ON FENCE POST. CONTRACTOR TO CONFIRM ROUGH-INS WITH ARCHITECT TO ENSURE ALL TRADES ARE COORDINATED.
- PROVIDE (N) TIMER SWITCH IN HEAVY DUTY, NEMA-3R, LOCKABLE, GASKET BOX. TIMER SHALL BE WATSTOPPER "TS-400" TIME SWITCH. CONTRACTOR SHALL PROVIDE ALL REQUIRED ACCESSORIES, CONDUIT, CABLES, ETC. FOR COMPLETE INSTALLATION.

**CONDUIT SCHEDULE:**

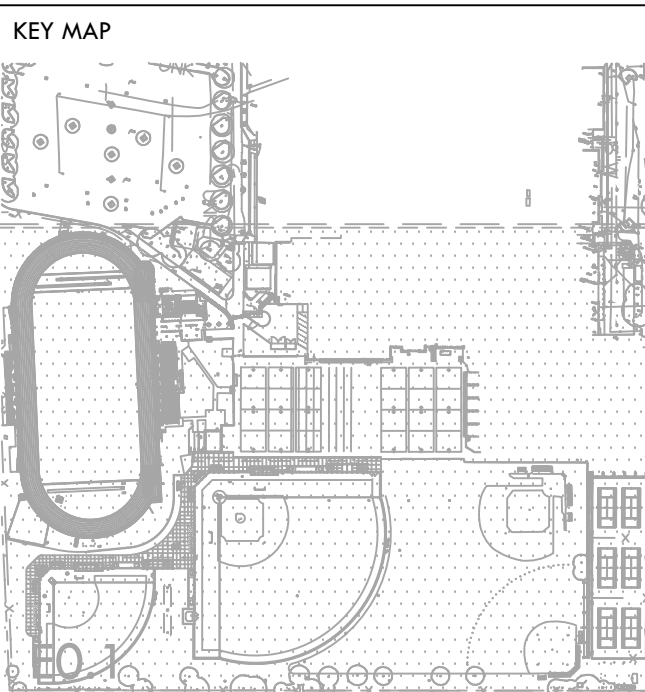
- (N) (1) 1/4" - RECEPTACLE
- (N) (1) 1" - LIGHTING

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 JOB #023098



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**

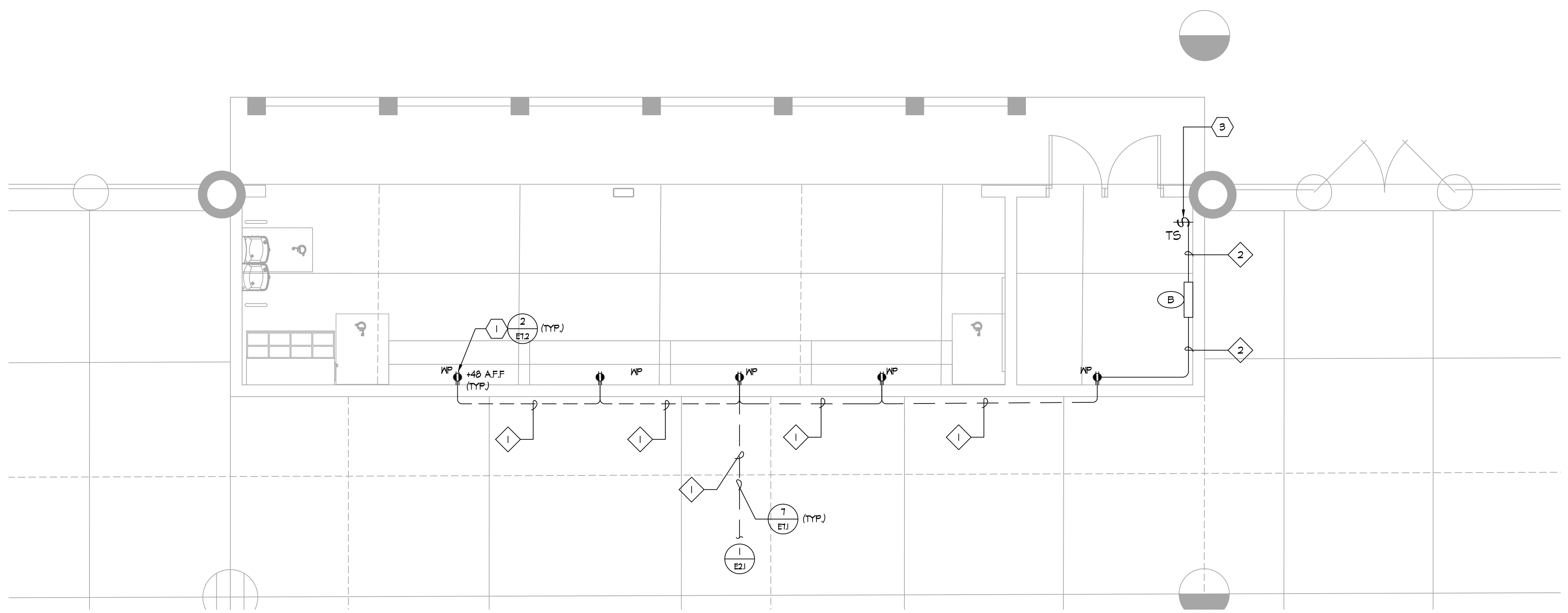
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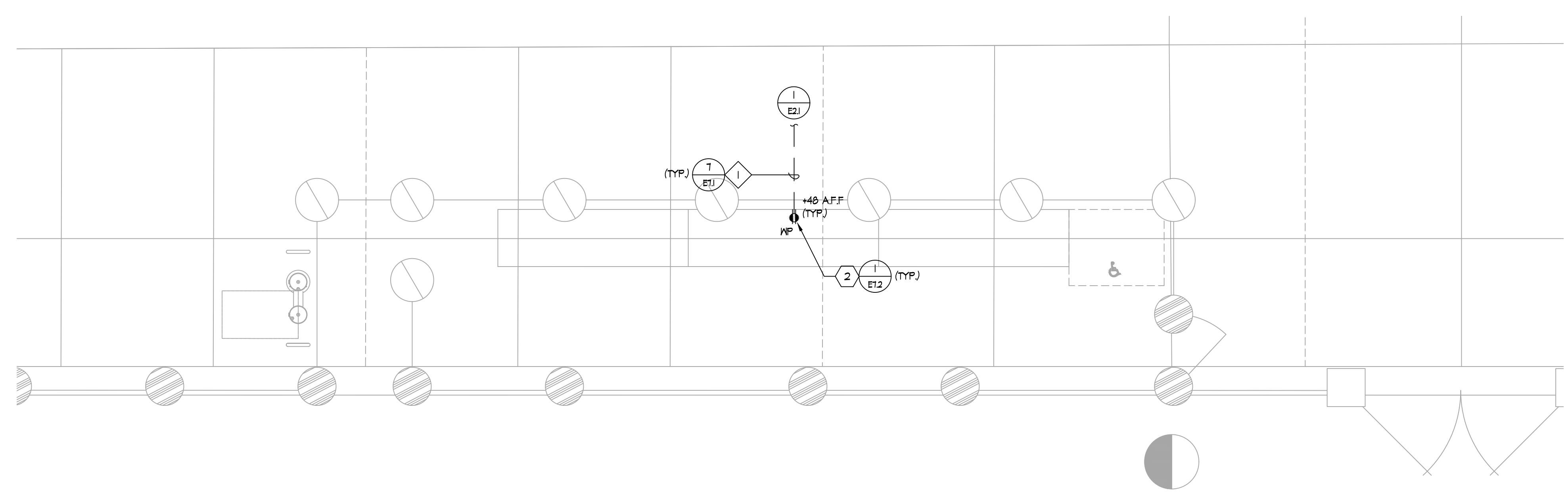
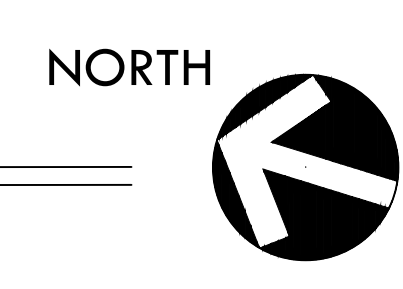
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DATE ISSUED 01/18/24	SCALE AS NOTED
PROJ. NO. 2304200	
SHEET NO. <b>E3.1</b>	

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



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



**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/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.
- LIGHTING AND RECEPTACLE CONDUIT SHALL BE IN SAME TRENCH.
- SEE SINGLE LINE DIAGRAM FOR WIRE SIZES AND CONDUIT REQUIREMENTS.
- CONTRACTOR TO COORDINATE SITE SIZES AND CONDUIT REQUIREMENTS 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 GMI 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 FENCING CONTRACTOR TO INSTALL OUTLET ON FENCE POST. CONTRACTOR TO CONFIRM ROUGH-INS WITH ARCHITECT TO ENSURE ALL TRADES ARE COORDINATED.
- PROVIDE (N) TIMER SWITCH IN HEAVY DUTY, NEMA-3R, LOCKABLE, GASKET BOX. TIMER SHALL BE WATSTOPPER "TS-400" TIME SWITCH. CONTRACTOR SHALL PROVIDE ALL REQUIRED ACCESSORIES, CONDUIT, CABLES, ETC. FOR COMPLETE INSTALLATION.

**CONDUIT SCHEDULE:**

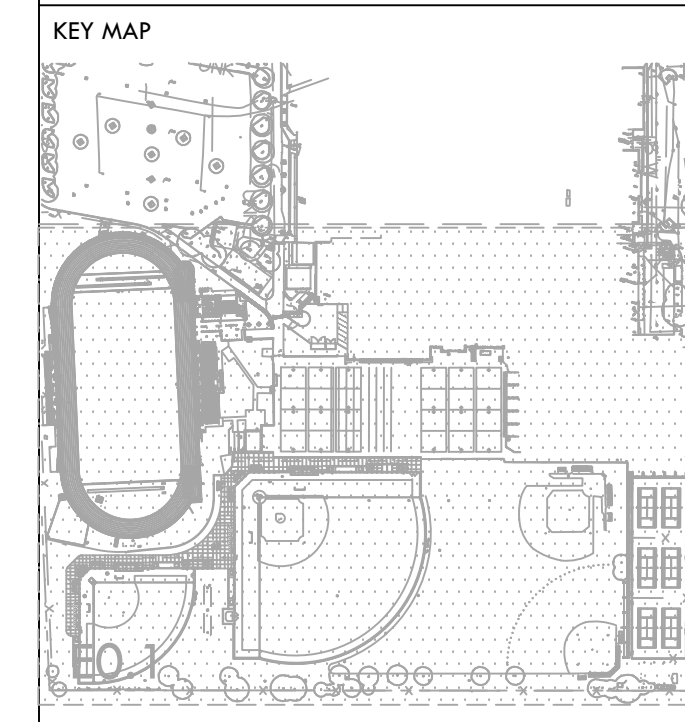
- 1 (N) 1 1/4" - RECEPTACLE
- 2 (N) 1" - LIGHTING

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408/236-2312  
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JOB #0023098



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

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

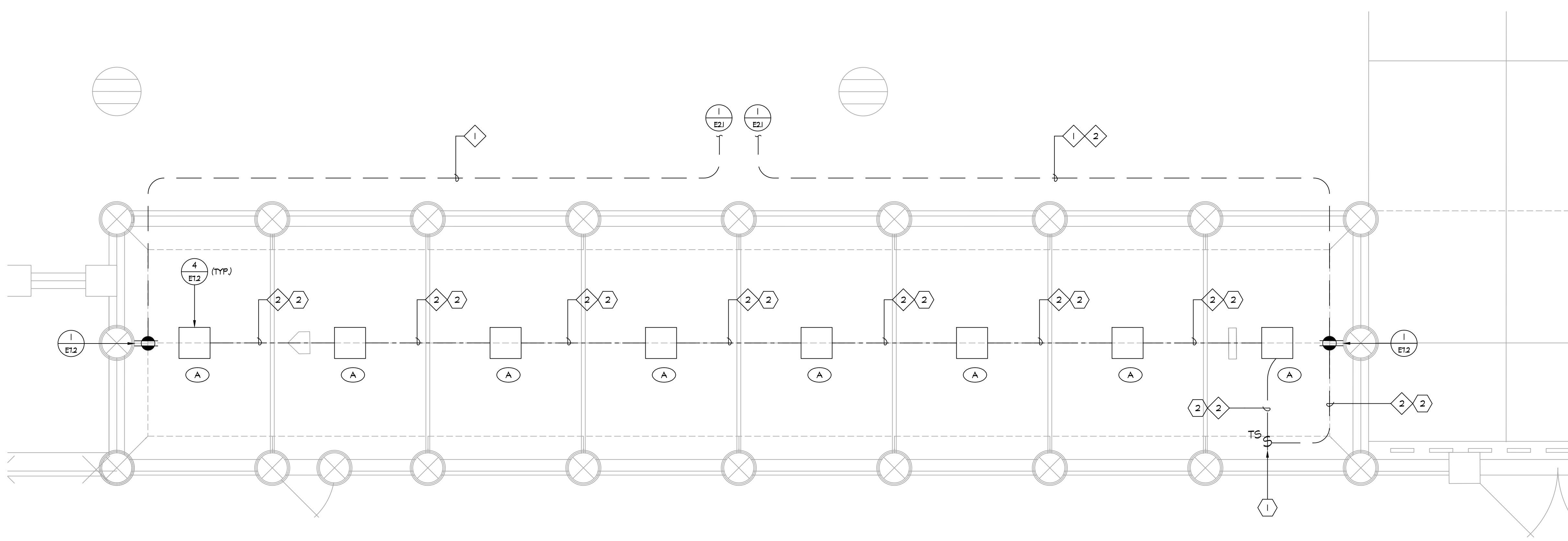
PROJECT ADDRESS  
**6715 GLORIA DRIVE SACRAMENTO, CA 95831**

SUBMITTAL	DATE
50% SUBMITTAL	08/20/23
100% SUBMITTAL	10/25/23
DSA BACKCHECK	01/18/24

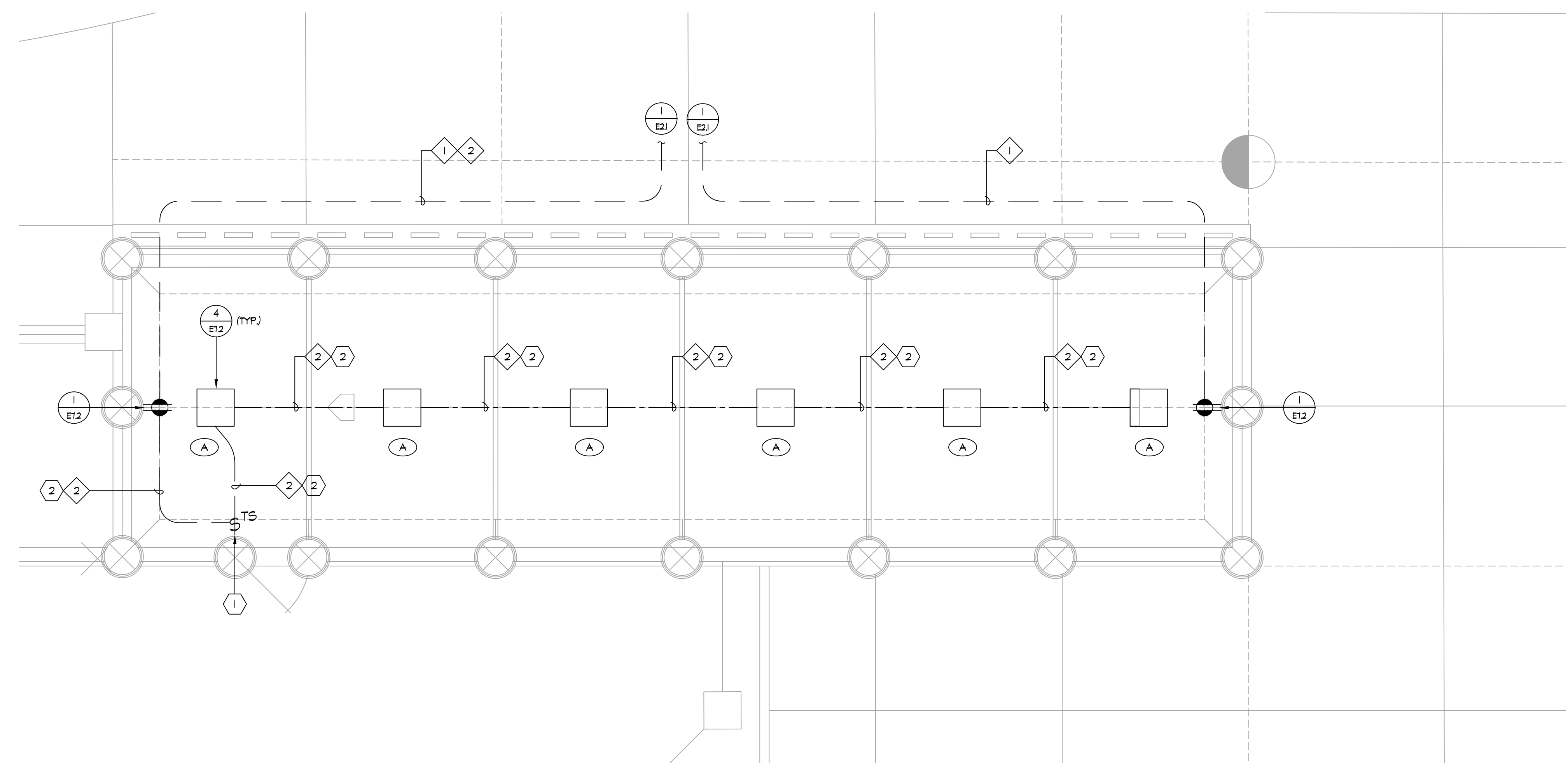
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DATE ISSUED 01/18/24	SCALE AS NOTED
PROJ. NO. 2304200	
SHEET NO. <b>E3.2</b>	

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**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:**

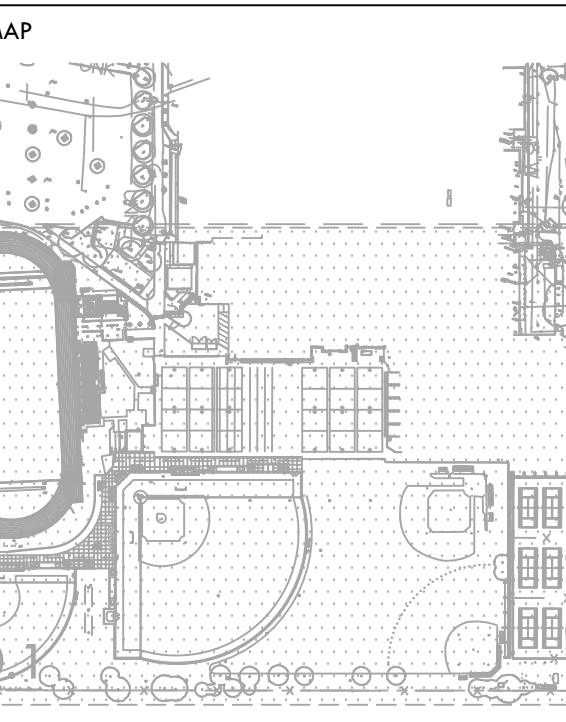
- 1 (N) 1/4" - RECEPTACLE - BATTING CAGE
- 2 (N) 1/4" - LIGHTING - BATTING CAGE

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 408/236-2312  
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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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JOB #0023098

KEY MAP

SHEET TITLE  
**ELECTRICAL PARTIAL  
SINGLE LINE DIAGRAM**

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

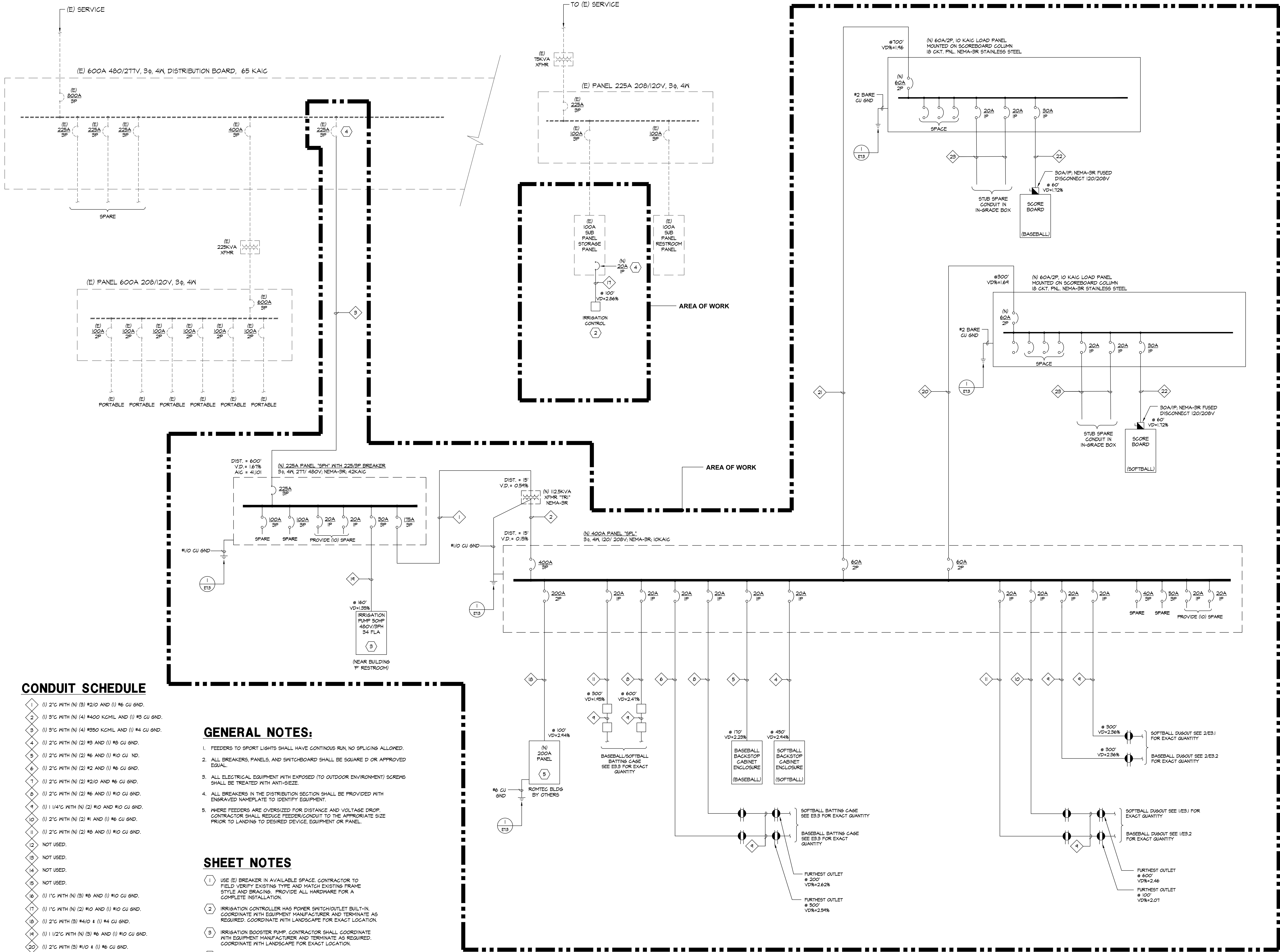
PROJECT ADDRESS  
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SUBMITTAL	DATE
50% SUBMITTAL	08/20/23
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PROJ. NO.: 2304200  
SHEET NO.: E5.1 OF



**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) #3 CU GND.
- 3 (1) 3" WITH (N) (4) #350 KCMIL AND (1) #4 CU GND.
- 4 (1) 2" WITH (N) (2) #3 AND (1) #8 CU GND.
- 5 (1) 2" WITH (N) (2) #6 AND (1) #10 CU ND.
- 6 (1) 2" WITH (N) (2) #2 AND (1) #6 CU GND.
- 7 (1) 2" WITH (N) (2) #2/0 AND #6 CU GND.
- 8 (1) 2" WITH (N) (2) #6 AND (1) #10 CU GND.
- 9 (1) 1 1/4" WITH (N) (2) #10 AND #10 CU GND.
- 10 (1) 2" WITH (N) (2) #1 AND (1) #6 CU GND.
- 11 (1) 2" WITH (N) (2) #3 AND (1) #10 CU GND.
- 12 NOT USED.
- 13 NOT USED.
- 14 NOT USED.
- 15 NOT USED.
- 16 (1) 1" WITH (N) (3) #8 AND (1) #10 CU GND.
- 17 (1) 1" WITH (N) (2) #10 AND (1) #10 CU GND.
- 18 (1) 2" WITH (3) #4/0 & (1) #4 CU GND.
- 19 (1) 1 1/2" WITH (N) (3) #6 AND (1) #10 CU GND.
- 20 (1) 2" WITH (3) #1/0 & (1) #6 CU GND.
- 21 (1) 2 1/2" WITH (3) #4/0 & (1) #4 CU GND.
- 22 (1) 1" WITH (N) (2) #10 AND (1) #10 CU GND.
- 23 (N) 1" - SPARE

**GENERAL NOTES:**

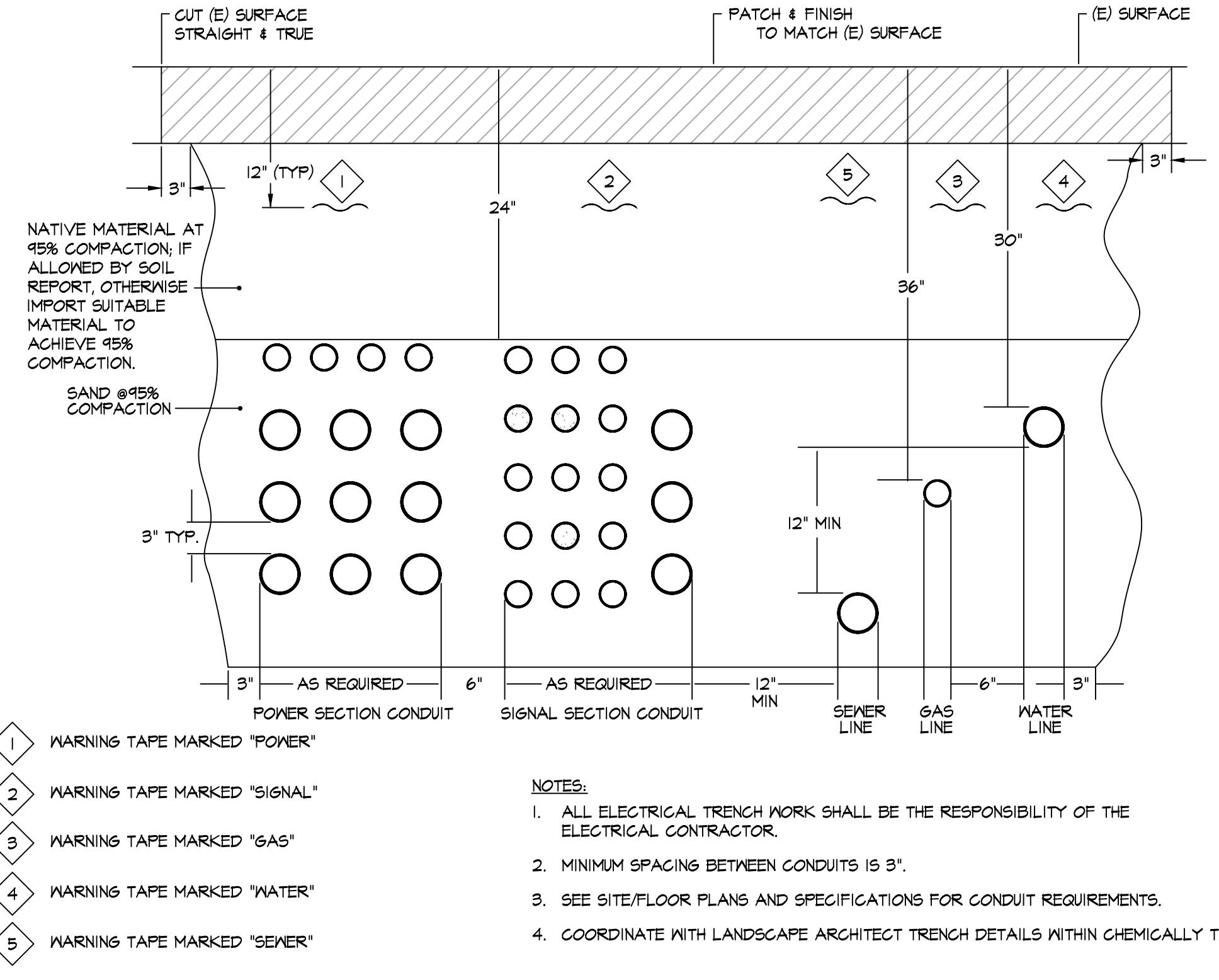
- 1. FEEDERS TO SPORT LIGHTS SHALL HAVE CONTINUOUS RUN, NO SPLINGS ALLOWED.
- 2. ALL BREAKERS, PANELS, AND SWITCHBOARD SHALL BE SQUARE D OR APPROVED EQUAL.
- 3. ALL ELECTRICAL EQUIPMENT WITH EXPOSED (TO OUTDOOR ENVIRONMENT) SCREWS SHALL BE TREATED WITH ANTI-SIEZE.
- 4. ALL BREAKERS IN THE DISTRIBUTION SECTION SHALL BE PROVIDED WITH ENGRAVED NAMEPLATE TO IDENTIFY EQUIPMENT.
- 5. WHERE FEEDERS ARE OVERSIZED FOR DISTANCE AND VOLTAGE DROP, CONTRACTOR SHALL REDUCE FEEDER/CONDUIT TO THE APPROPRIATE SIZE PRIOR TO LANDINGS TO DESIRED DEVICE, EQUIPMENT OR PANEL.

**SHEET NOTES**

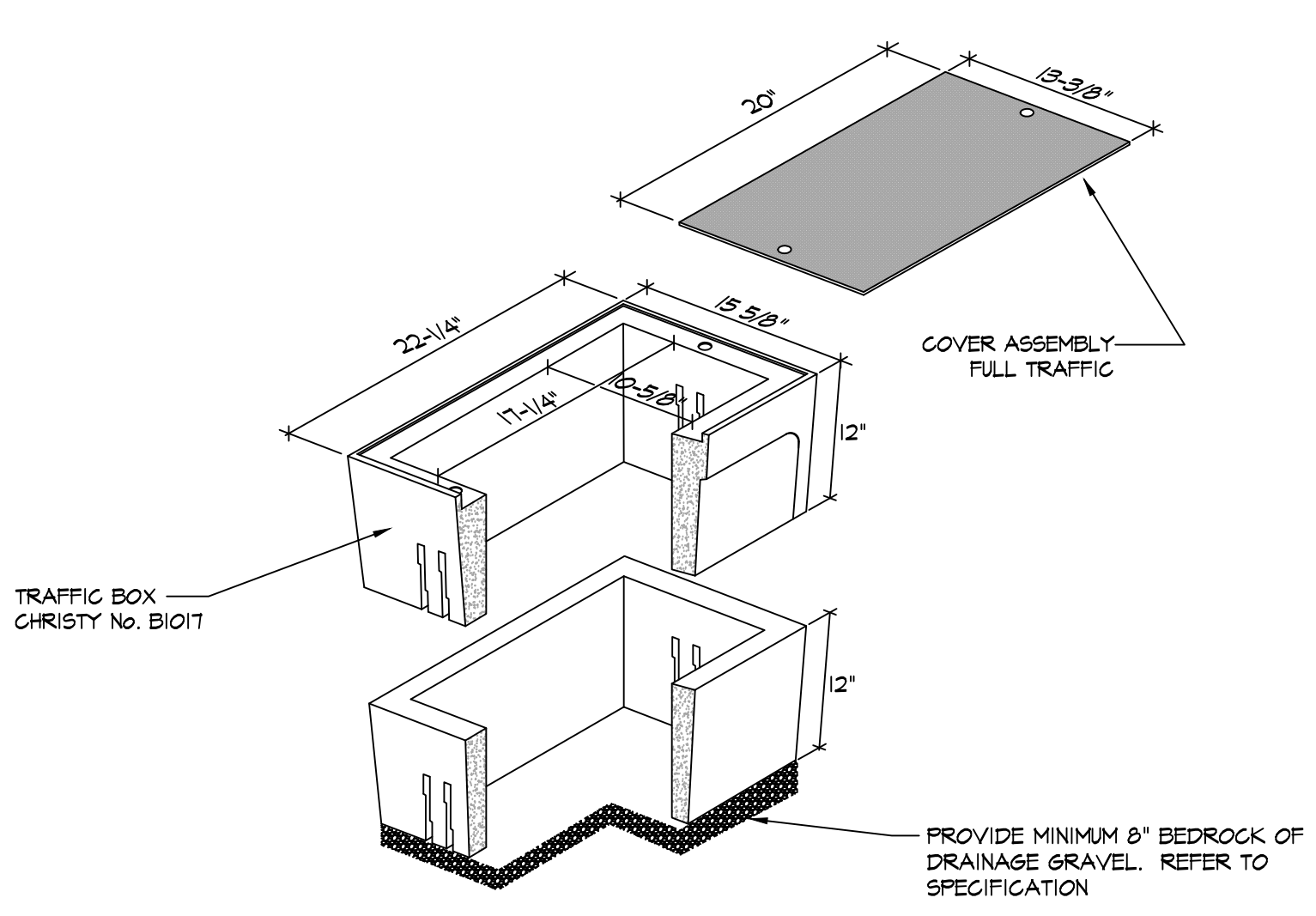
- 1 USE (E) BREAKER IN AVAILABLE SPACE. CONTRACTOR TO FIELD VERIFY EXISTING TYPE AND MATCH EXISTING FRAME STYLE AND BRACINGS. PROVIDE ALL HARDWARE FOR A COMPLETE INSTALLATION.
- 2 IRRIGATION CONTROLLER HAS POWER SWITCH/OUTLET BUILT-IN. COORDINATE WITH EQUIPMENT MANUFACTURER AND TERMINATE AS REQUIRED. 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 OR RE-USE EXISTING BREAKER IF AVAILABLE. MATCH EXISTING AIC AND BRACING STYLE.
- 5 CONTRACTOR TO COORD-WITH ROMETEC BLDG. AND CONNECT AS SHOWN.

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

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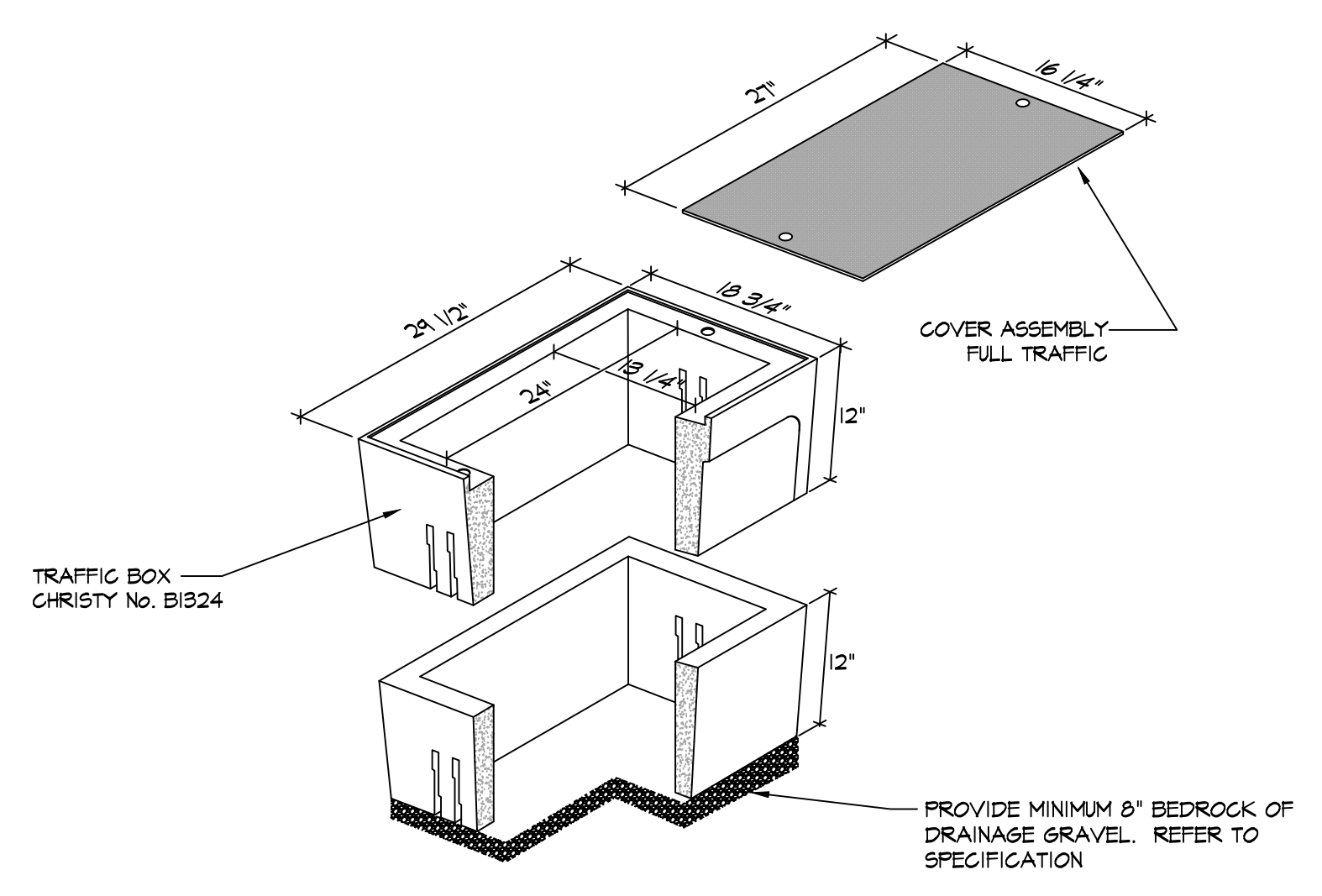


**1 TYPICAL JOINT TRENCH & DUCT BANK DETAIL**  
 E7.1 NOT TO SCALE



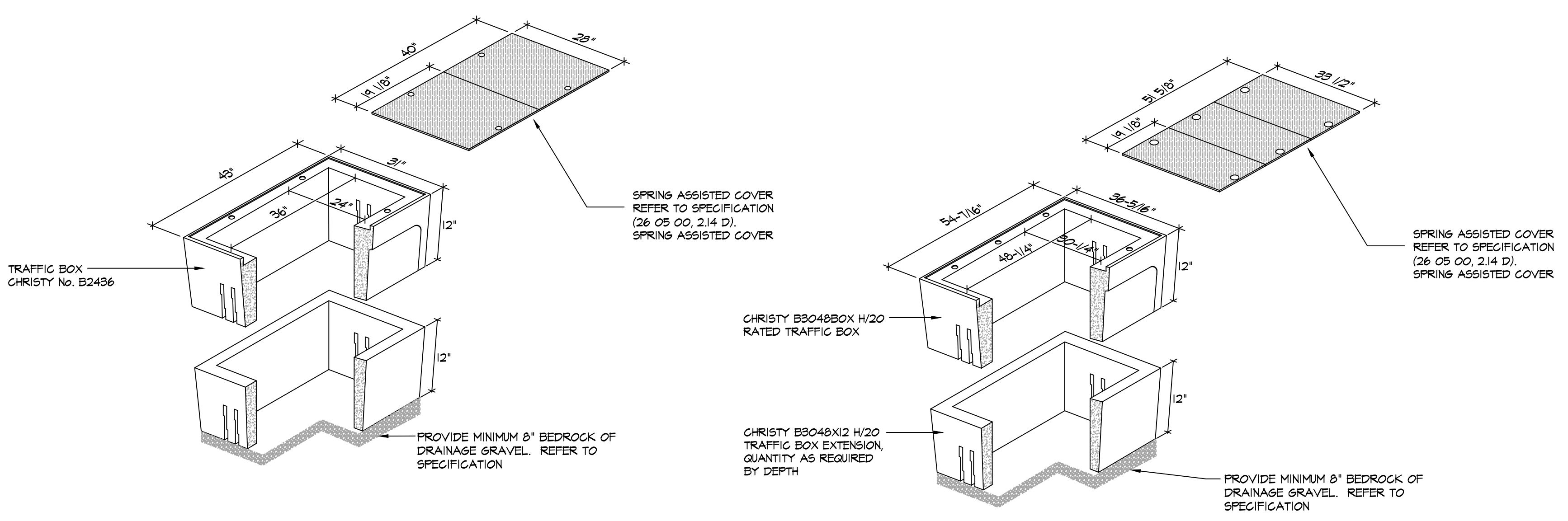
- NOTES:  
 1. HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN.  
 2. ALL CONDUITS SHALL ENTER FROM SIDES OF FULL BOX. CONTRACTOR SHALL PROVIDE FULL BOX EXTENSION AS REQUIRED. NO CONDUITS SHALL BE ALLOWED 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)

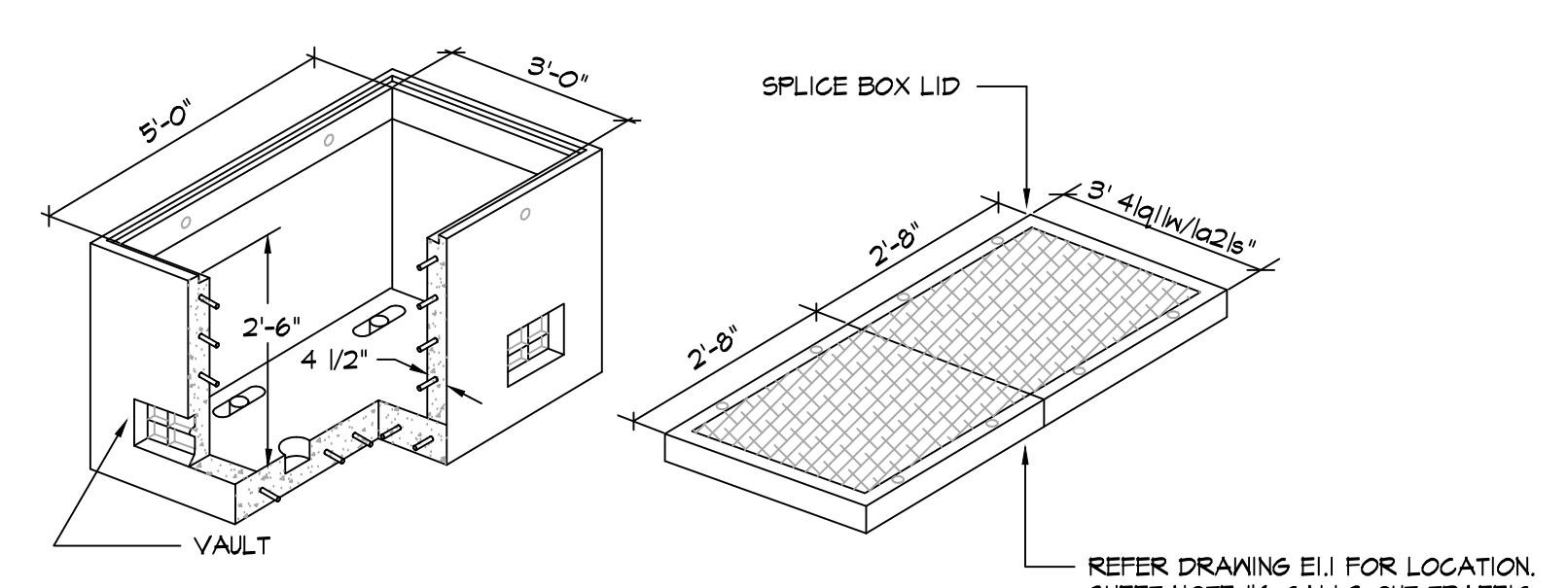


- NOTES:  
 1. HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN.  
 2. ALL CONDUITS SHALL ENTER FROM SIDES OF FULL BOX. CONTRACTOR SHALL PROVIDE FULL BOX EXTENSION AS REQUIRED. NO CONDUITS SHALL BE ALLOWED 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.

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

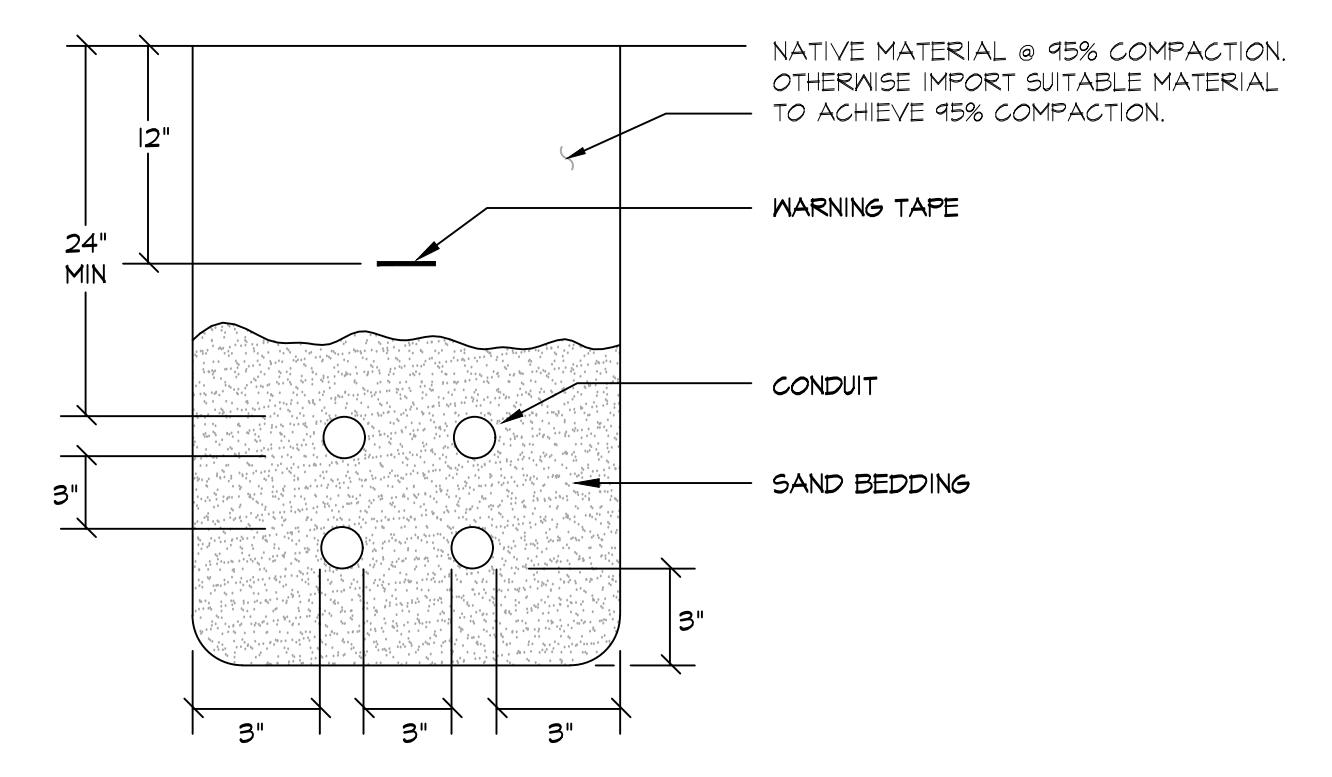
- NOTES:  
 1. HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN.  
 2. ALL CONDUITS SHALL ENTER FROM SIDES OF FULL BOX. CONTRACTOR SHALL PROVIDE FULL BOX EXTENSION AS REQUIRED. NO CONDUITS SHALL BE ALLOWED 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.

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



A HEAVY DUTY REINFORCED CONCRETE BOX WITH STANDARD KNOCKOUTS AND PULLING IRONS MADE IN CONFORMANCE WITH P & E REQUIREMENTS.

**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

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

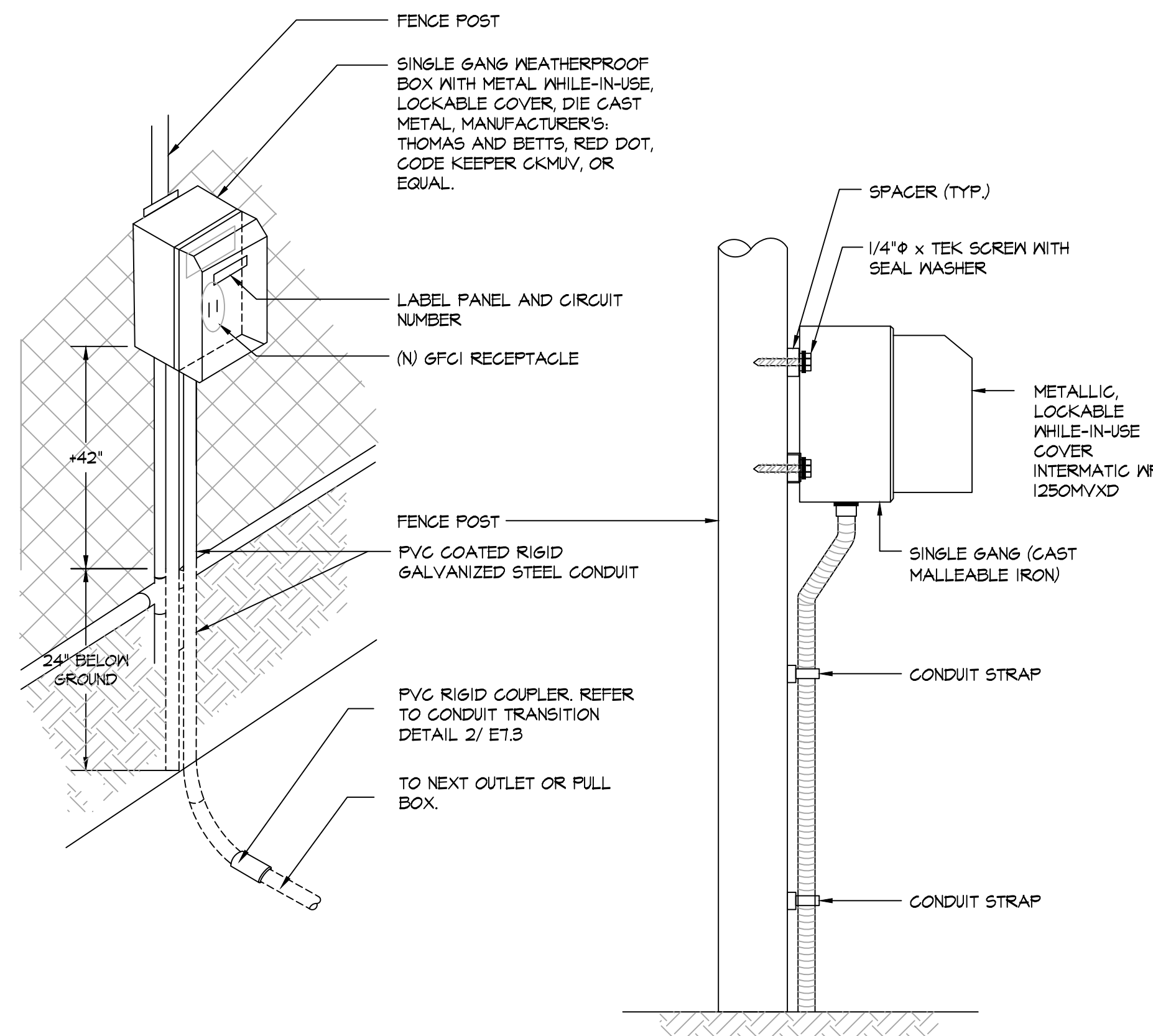
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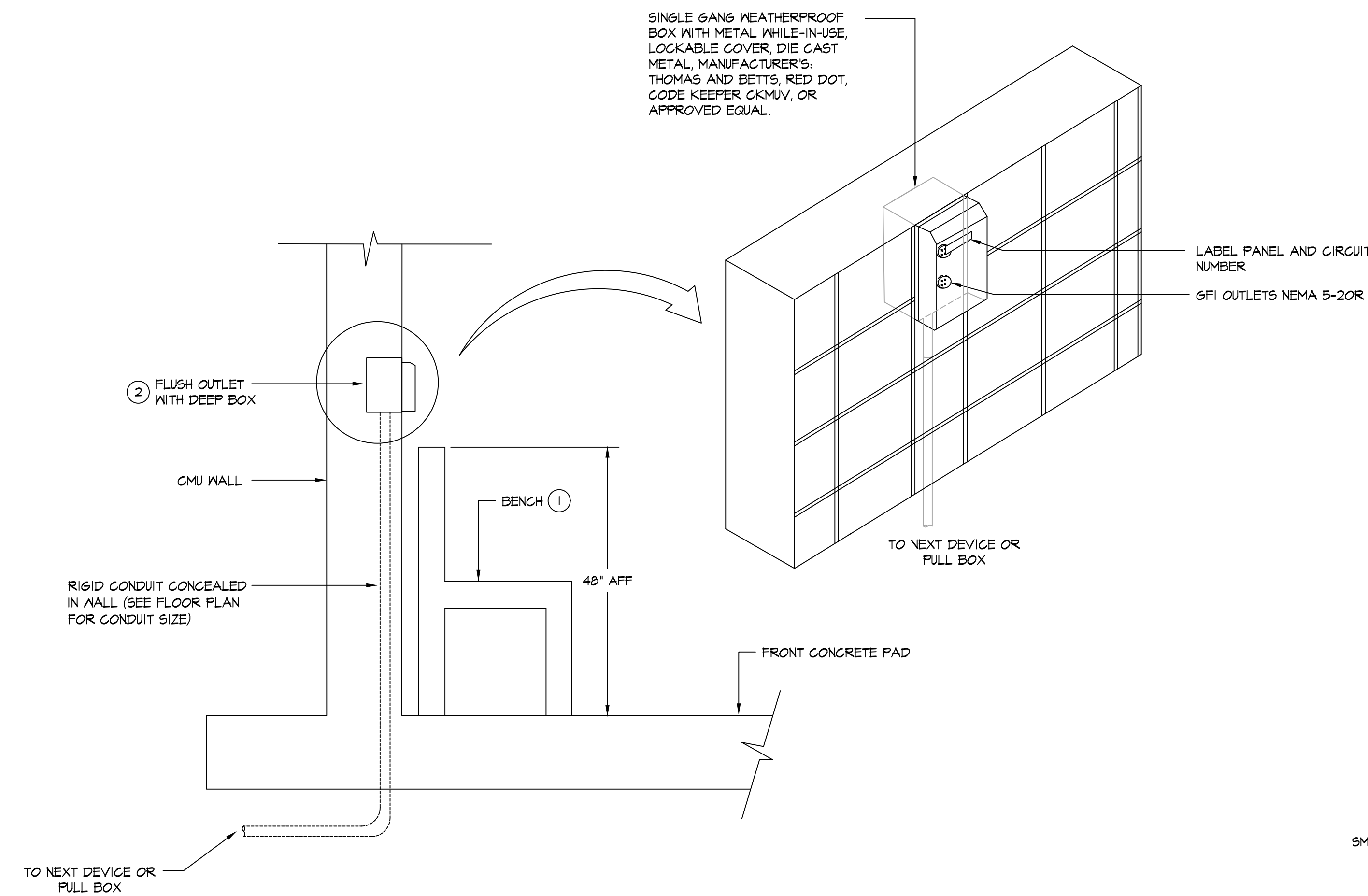
SHEET NO. **E7.1** OF **ELECTRICAL DETAILS**

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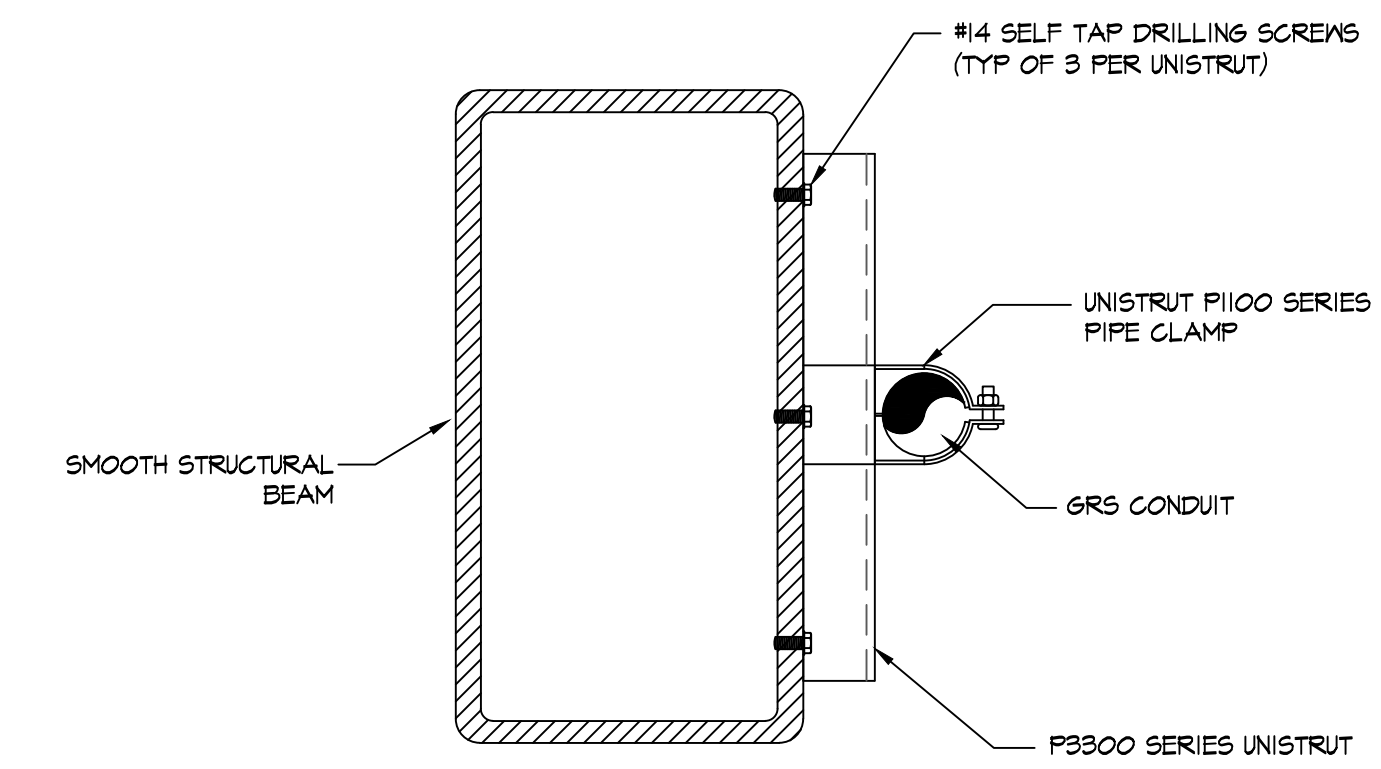
**1 RECEPTACLE MOUNTING**  
E7.2 NOT TO SCALE



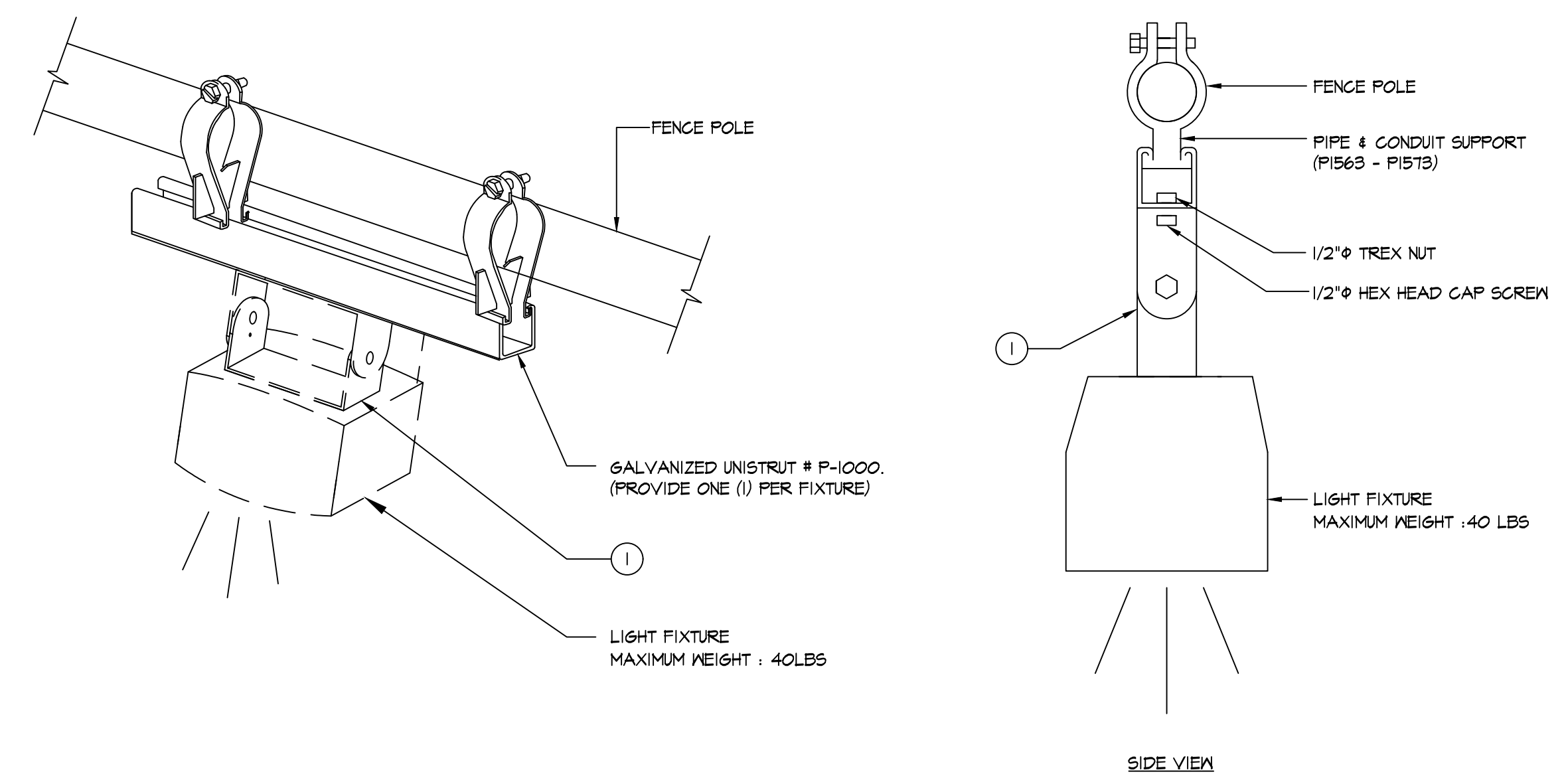
**NOTE:**

- 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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408/236-2312  
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**

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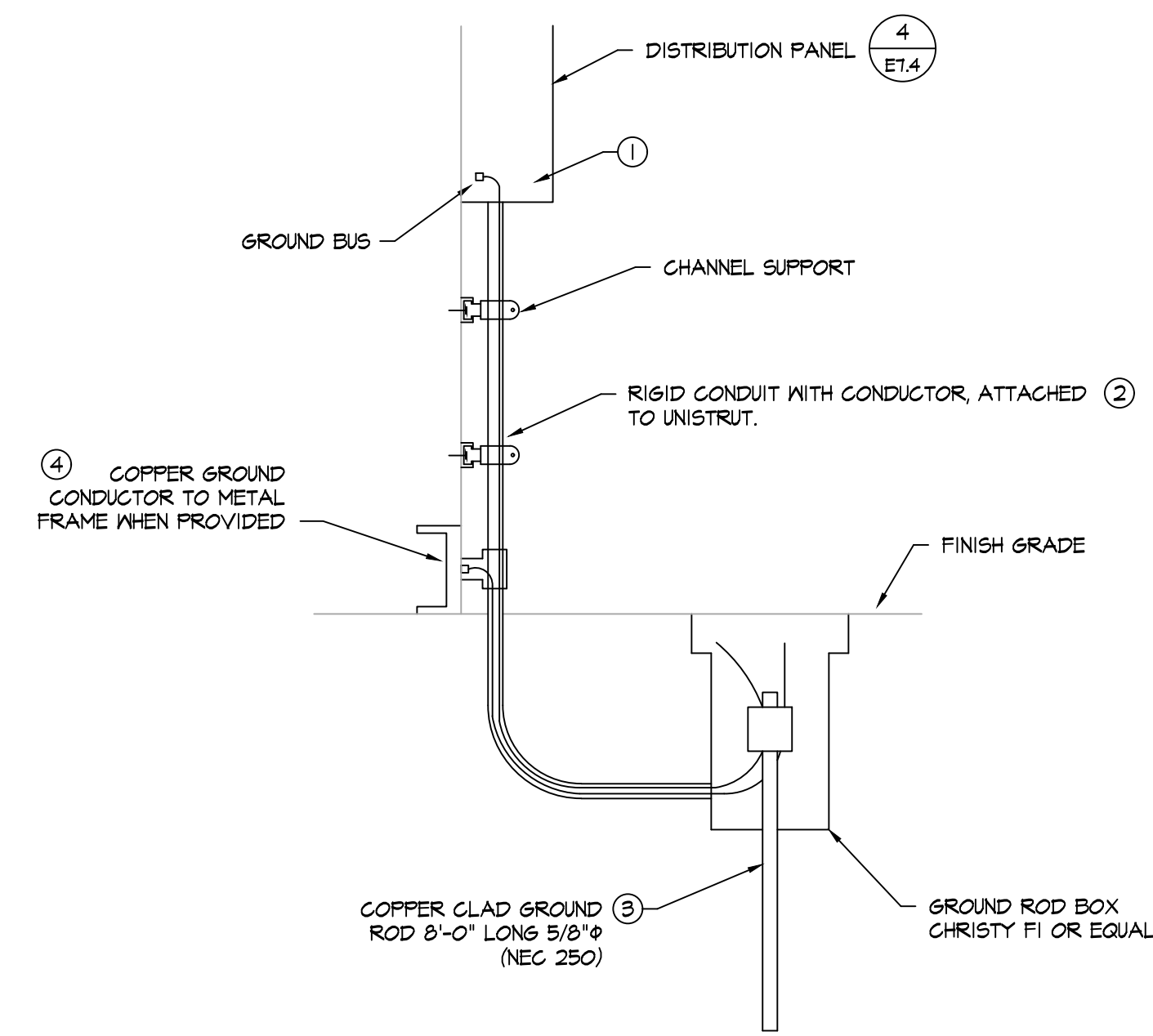
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**ELECTRICAL DETAILS**

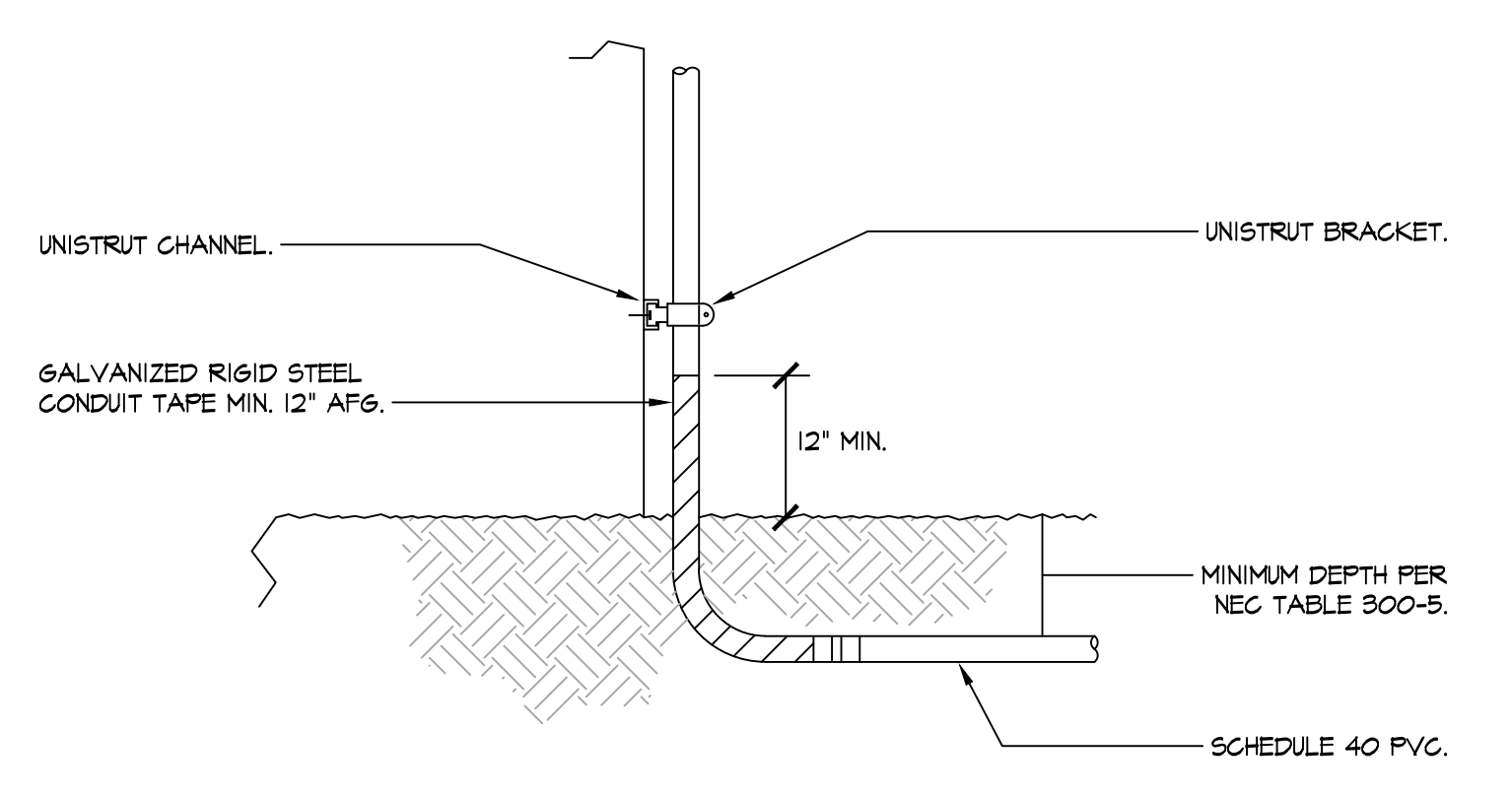
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- ① SIZE OF CONDUCTORS SHALL COMPLY WITH NEC TABLE 250-66
- ② BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME (NEC 250-50). IN ADDITION TO DETAIL ABOVE, BOND THE ELECTRICAL GROUND TO NEAREST METALLIC COLD WATER 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)

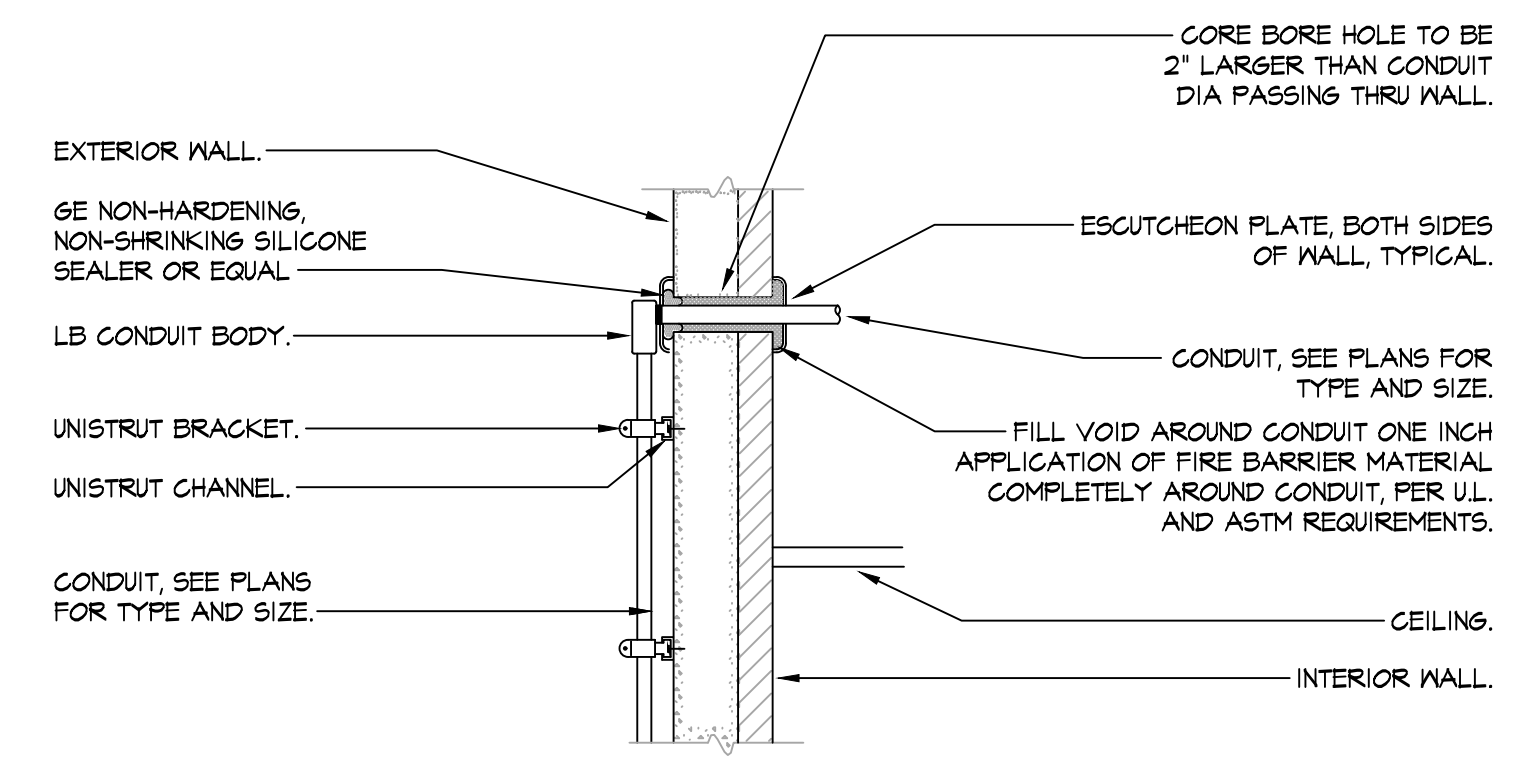
**1 TYPICAL GROUND INSTALLATION**  
 E7.3 NOT TO SCALE

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



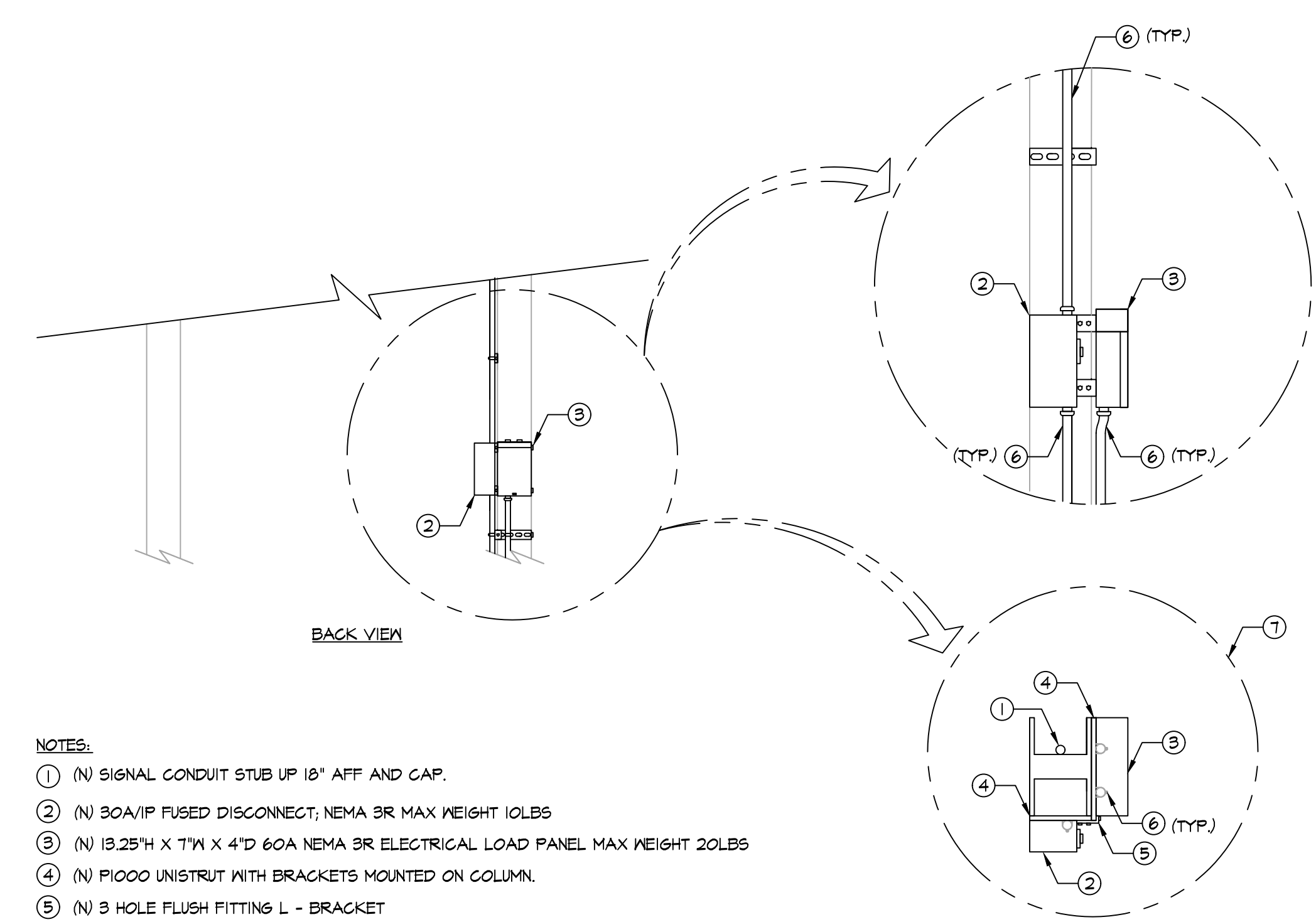
- NOTE:**
1. FOR WOOD STUD WALL: USE 3/8" LAG BOLT WITH MIN. 3/4" EMBEDMENT INTO STUDS. (ONE AT EACH END OF BRACKET)
  2. FOR CMU WALL: 1/2" HILTI KWIK-BOLT T22 STAINLESS STEEL ANCHOR (ICC ESR-4561) WITH NOMINAL EMBEDMENT OF 2-1/2" IN 2-3/4" DEEP HOLE. 1/2" ANCHORS SHALL BE TORQUE-TESTED TO 15 FT-LBS, WHICH MUST BE ATTAINED WITHIN ONE-HALF TURN OF NUT AFTER FIRM CONTACT WITH ANCHOR WASHER. INSTALL ANCHOR PER CBC, IBC/AS1, AND RECOMMENDATIONS IN MANUFACTURER'S ESR REPORT. ANCHOR INSTALLATIONS REQUIRE SPECIAL INSPECTION. (TYPICAL ONE EACH END OF UNISTRUT)

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



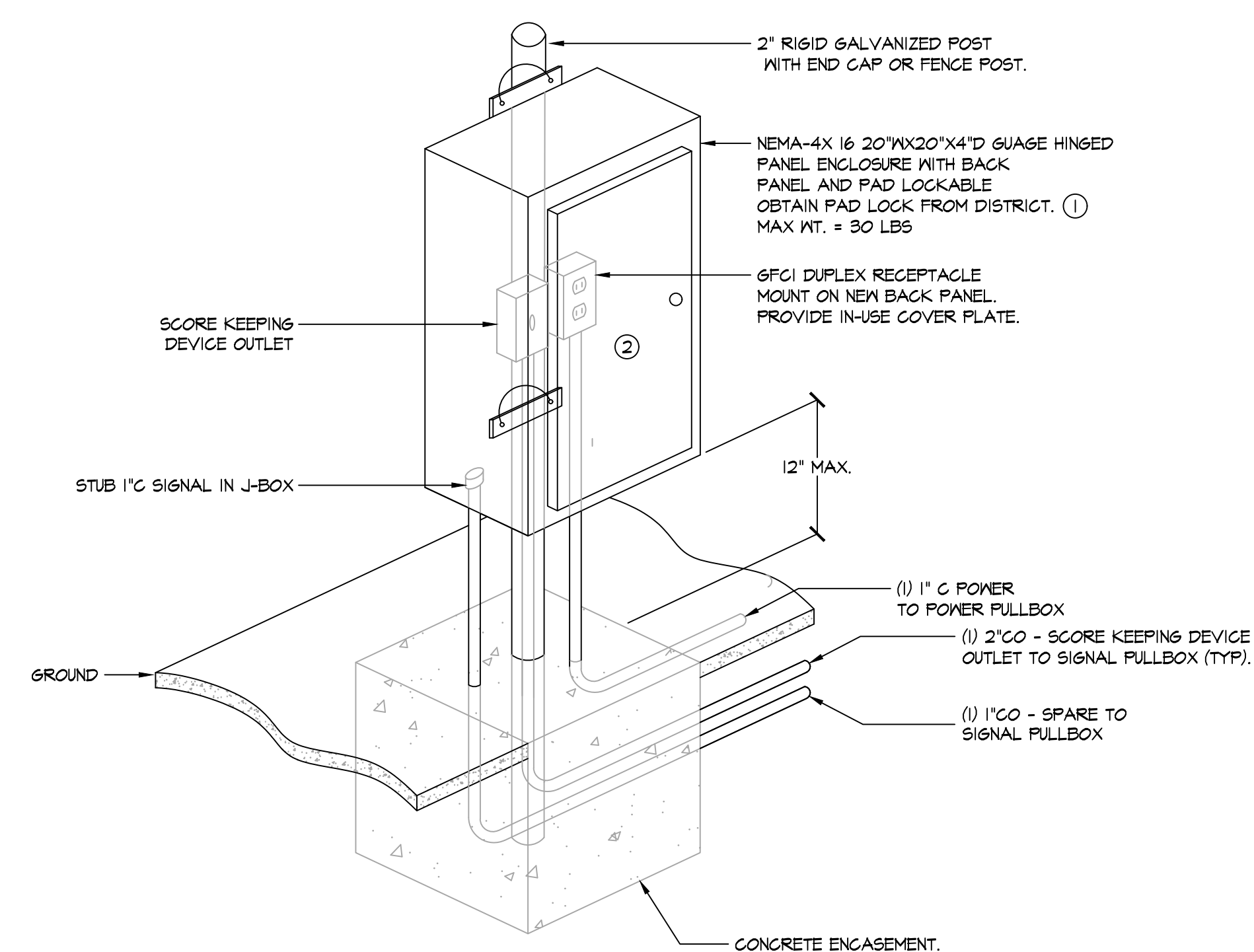
**NOTE:**  
 PER U.L. FIRE RESISTANCE DIRECTORY SYSTEM M1002

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



- NOTES:**
- ① (N) SIGNAL CONDUIT STUB UP 18" AFF AND CAP.
  - ② (N) 30A/1P FUSED DISCONNECT, NEMA 3R MAX WEIGHT 10LBS
  - ③ (N) 18.25" H X 17" W X 4"D 60A NEMA 3R ELECTRICAL LOAD PANEL MAX WEIGHT 20LBS
  - ④ (N) 1000 UNISTRUT WITH BRACKETS MOUNTED ON COLUMN.
  - ⑤ (N) 3 HOLE FLUSH FITTING L - BRACKET
  - ⑥ (N) POWER CONDUIT RIGID
  - ⑦ CONTRACTOR TO COORDINATE WITH SCOREBOARD CONCRETE COLUMN INSTALLER TO MOUNT CONDUIT AS SHOWN.

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



- NOTES:**
- ① PULL CANS 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

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
DSA BACKCHECK	01/18/24

NO.	REVISIONS	DATE

DRAWN BY CN	CHECKED BY AA/SF
DATE ISSUED 01/18/24	SCALE AS NOTED

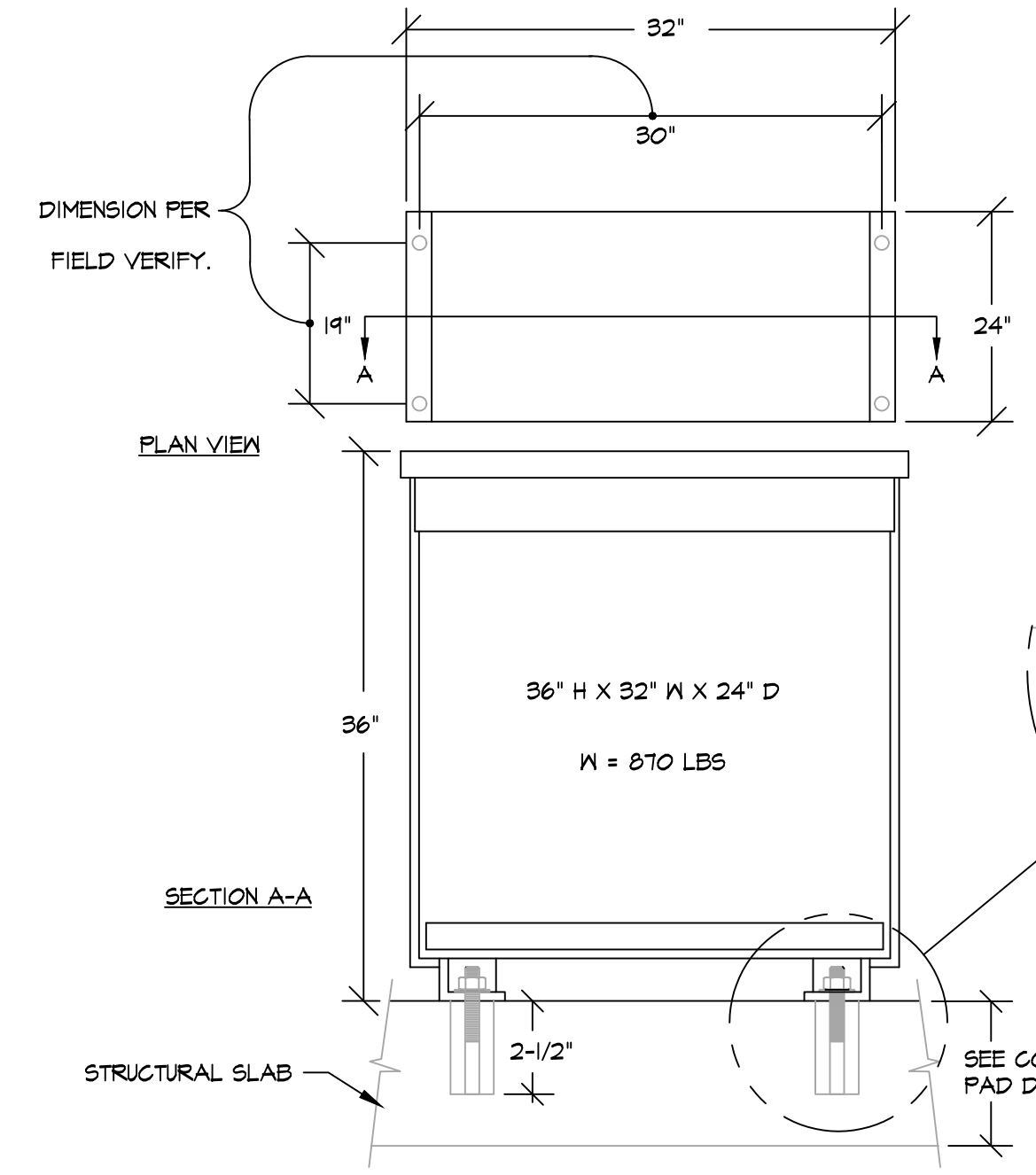
PROJ. NO. 2304200  
 SHEET NO. **E7.3**  
**ELECTRICAL DETAILS**

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 APP: 02-121752 INC:  
 REVIEWED FOR:  
 SS  FLS  ACS   
 DATE: 3/19/2024

**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.VerdeDesigninc.com

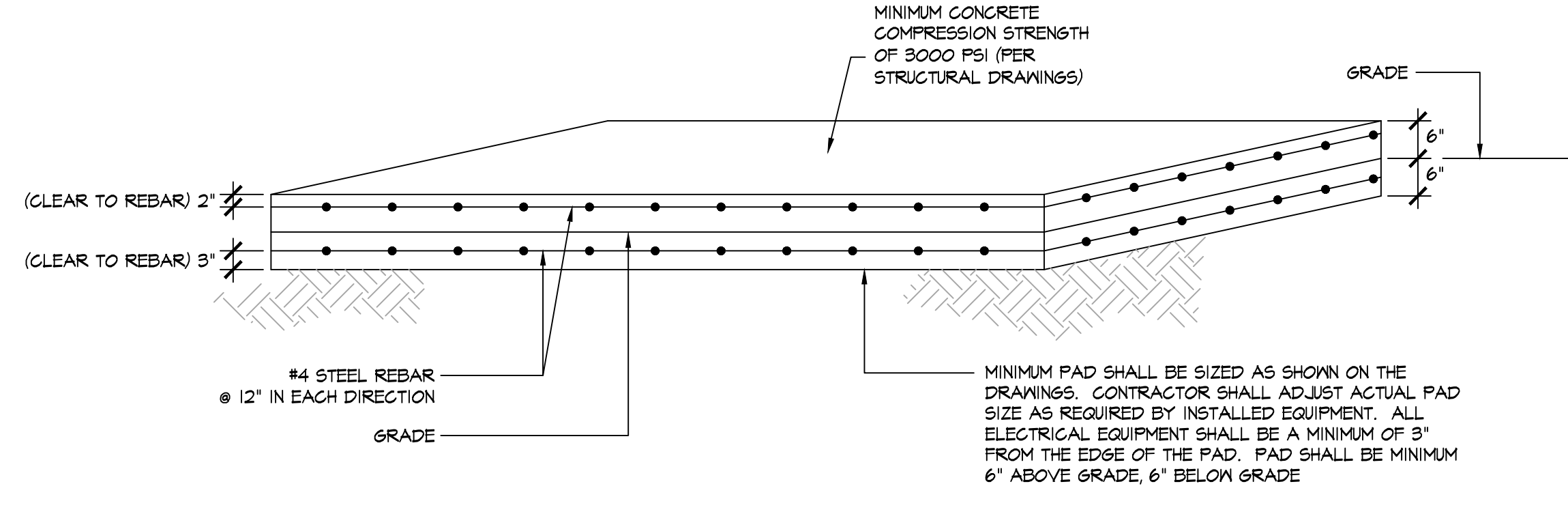


CONSULTANT  
**American Consulting Engineers  
 Electrical, Inc.**  
 1550 The Ardena Suite 200 San Jose, CA 95128  
 408/236-2312  
 408/236-2316  
 J09 #0023098



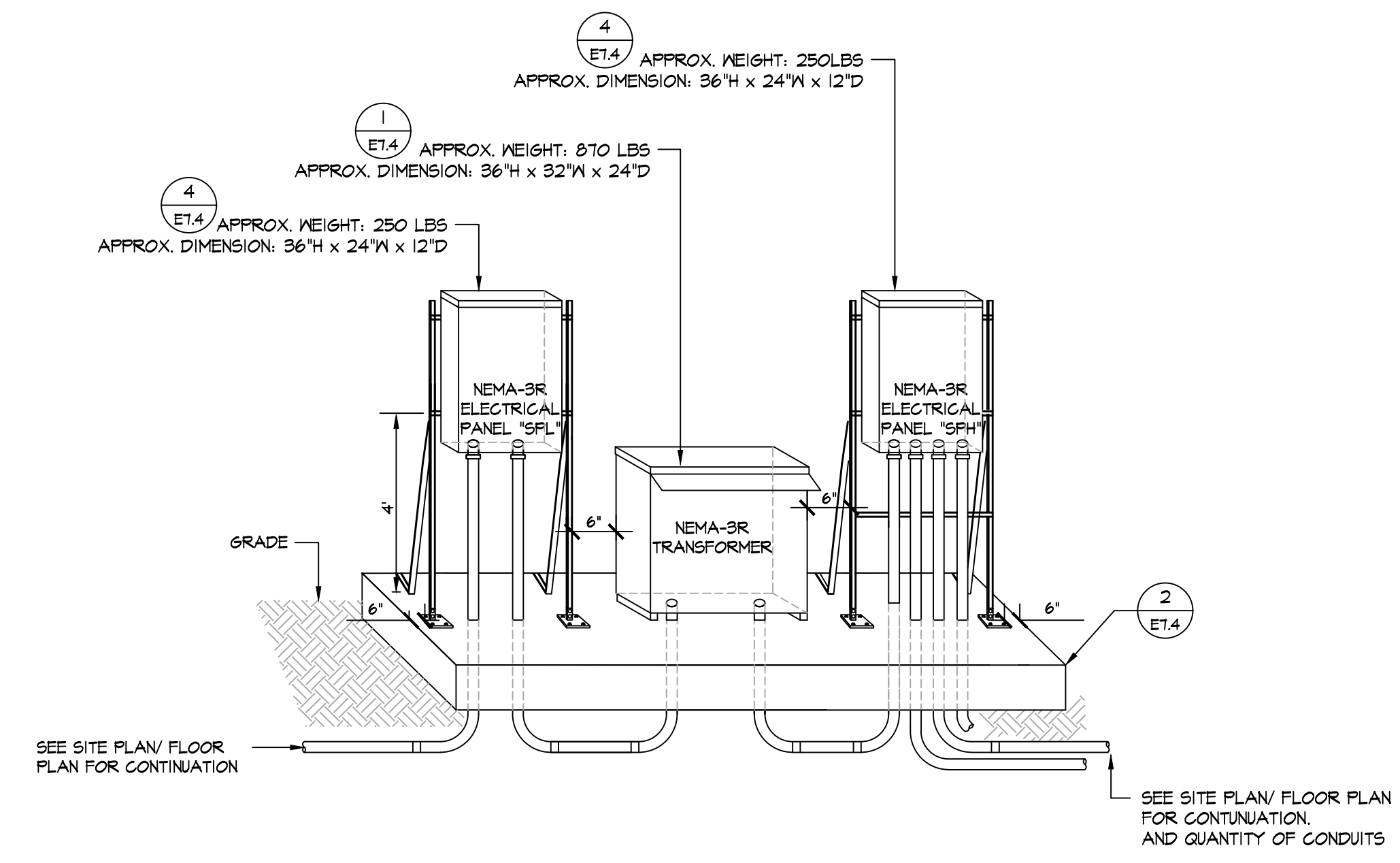
**DISTRIBUTION TRANSFORMER INSTALLATION  
 DETAIL**

1  
 E7.4 NOT TO SCALE



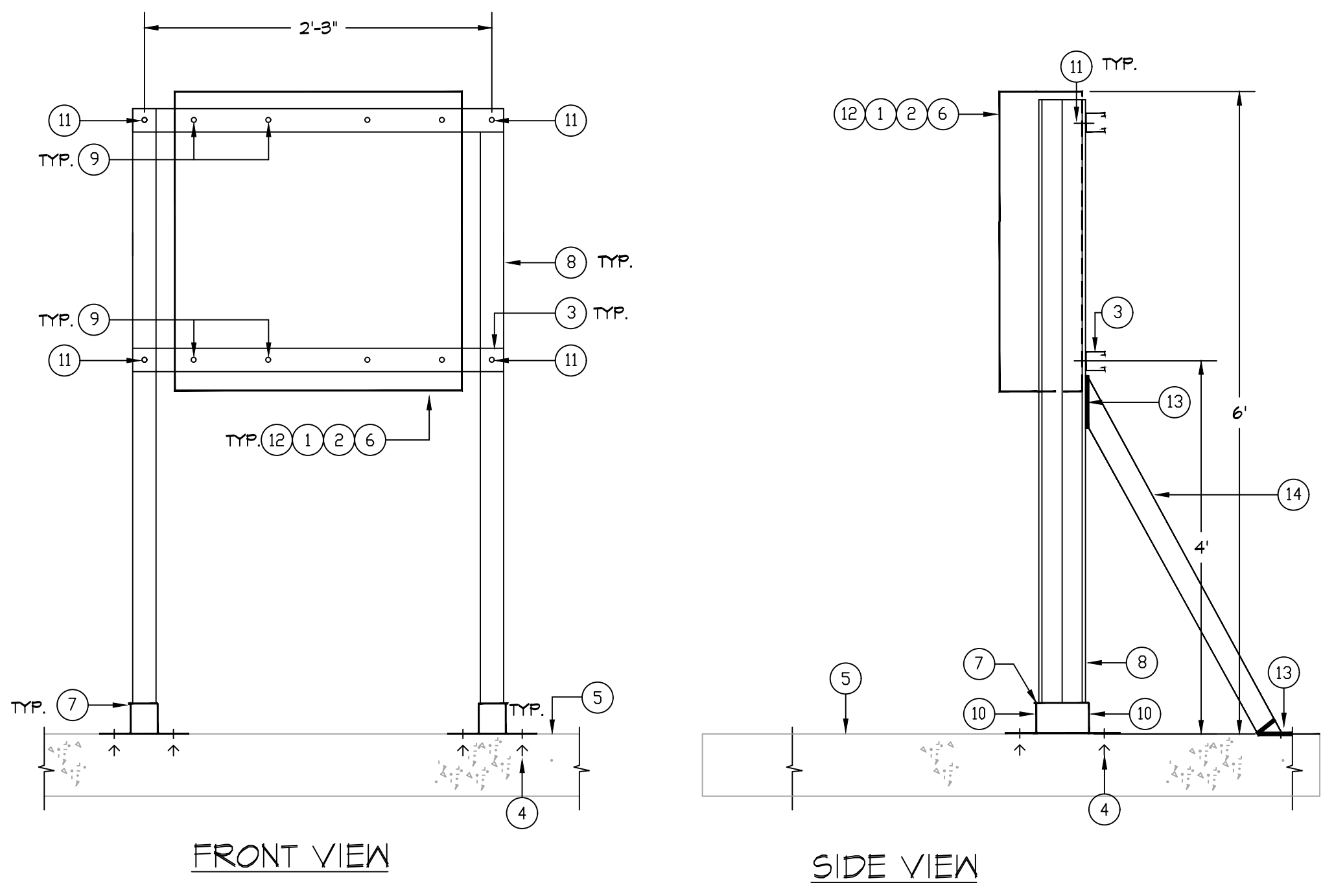
**CONCRETE ELECTRICAL EQUIPMENT PAD**

2  
 E7.4 NOT TO SCALE



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

3  
 E7.4 NOT TO SCALE



- 1 ENCLOSED PANELBOARD (MAX WEIGHT 250 LBS)
- 2 TYPE NEMA 3R ENCLOSER.
- 3 PROVIDE UNISTRUT P1000 MINIMUM 12 GA GALV STEEL.
- 4 PROVIDE STAINLESS STEEL 1/2"Ø x 2-1/2" NOMINAL EMBEDMENT KWK BOLT T22 WEDGE ANCHOR (10G-ES-ER 4286), IN MINIMUM 2-3/4" 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 P207BA50 POST BASE.
- 8 PROVIDE DOUBLE UNISTRUT P1001 HS MINIMUM 12 GA GALV STEEL.
- 9 PROVIDE HEX HEAD CAP SCREWS 3/8"x2" WITH HEX NUTS AND WASHERS. (4) CAP SCREWS ARE FOR ATTACHMENT OF PANEL TO REAR STRUTS.
- 10 PROVIDE (2) 1/2" GALV BOLTS FROM P207BA50 POST BASE INTO EACH SIDE OF VERTICAL UNISTRUT POOL. PROVIDE EACH BOLT WITH P1010 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 P1043 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.

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

4  
 E7.4 SCALE: NOT TO SCALE

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
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DSA BACKCHECK	01/18/24

NO.	REVISIONS	DATE

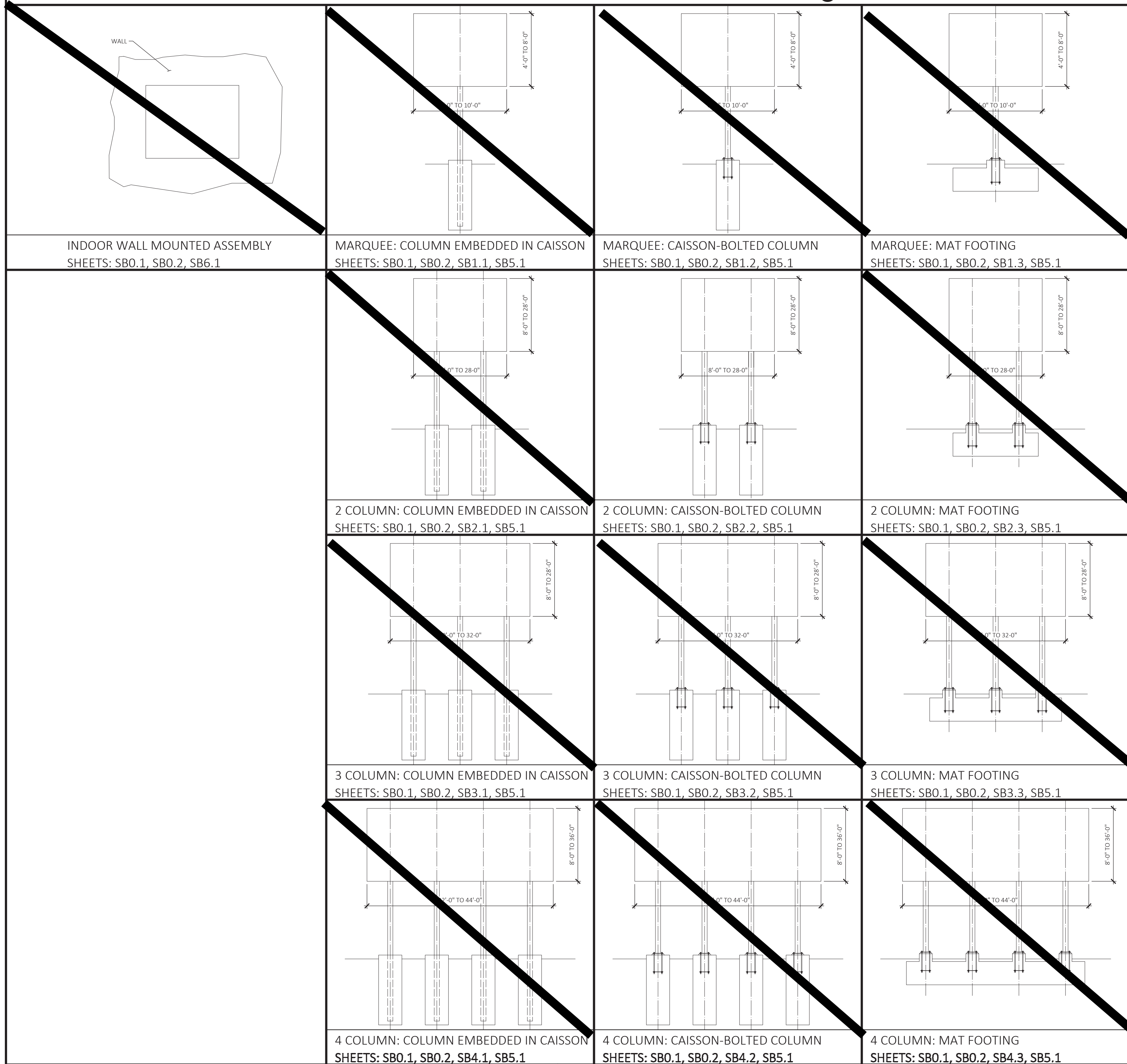
DRAWN BY: CN  
 CHECKED BY: AA/SF  
 DATE ISSUED: 01/18/24  
 SCALE: AS NOTED

PROJ. NO. 2304200

SHEET NO. **E7.4**

ELECTRICAL DETAILS

ALL DESIGN, DIMENSIONS, MATERIALS, METHODS OF CONSTRUCTION, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH DESIGN, DIMENSIONS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.



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

EARTHQUAKE DESIGN DATA	MAXIMUM		SITE SPECIFIC	
	S <sub>m</sub>	S <sub>w</sub>	S <sub>m</sub>	S <sub>w</sub>
Mapped Spectral Response Accelerations (Maximum)	3.73 g	1.0 g	0.620 g	0.266 g
Site Class	D	D		
Spectral Response Coefficients (Maximum)	2.49 g	1.0 g	0.539 g	0.367 g
Wind Design Data	Value		Value	
Design Wind Speed (3-sec gust), V <sub>ULT</sub>	100 mph	≥	95 mph	
Exposure Category	C		C	

Geotechnical Engineer:	Not Required
Letter Dated:	Not Required

Design Data	Value
<b>Gravity Design Data</b>	
Dead Loads:	
Sign Dead Load	PER SCHEDULE
Snow Loads:	
Ground Snow Load, P <sub>s</sub> (Maximum)	30 psf
Deflection Criteria:	
Sign, Wind Load	H/240
<b>Wind Design Data</b>	
Design Wind Speed (3-sec gust), V <sub>ULT</sub>	100 mph
Design Wind Speed (3-sec gust), V <sub>EXP</sub>	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 = 21.8xk psf K <sub>VARIABLES</sub>
<b>Earthquake Design Data</b>	
Risk Category	II
Importance Factor, I <sub>e</sub>	1.0
Mapped Spectral Response Accelerations (Maximum)	S <sub>m</sub> = 3.73 g S <sub>w</sub> = 1.0 g
Site Class	A through E
Spectral Response Coefficients (Maximum)	S <sub>m</sub> = 2.49 g S <sub>w</sub> = 1.0 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 <sub>s</sub> W <sub>e</sub>
<b>Flood Design</b>	
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.	
<b>Geotechnical Design Data</b>	
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 <sub>p</sub> (Tabular value has been increased per CBC Section 1806A.3.4 for pier design)	100 pcf
Design Skin Friction, f <sub>s</sub>	100 psf

**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

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

Nevco Part No.or Description	Part Height [ft.]	Part Width [ft]	Part Weight [lb]
<b>1608</b>	<b>6'0"</b>	<b>18'0"</b>	<b>375</b>
<b>ADO 18-3</b>	<b>3'0"</b>	<b>18'0"</b>	<b>120</b>
<b>Future ADO 18-3</b>	<b>3'0"</b>	<b>18'0"</b>	<b>120</b>
<b>Total</b>	<b>12'0"</b>	<b>18'0"</b>	<b>615</b>

Total Assembly Height =	12 ft. 0 in.
Total Assembly Width =	18 ft. 0 in.
Total Assembly Weight =	615 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

- Verify part number, dimensions, and weight with Nevco
- See Step 3 of Scoreboard Assembly Worksheet instructions

**CHECK ALL THAT APPLY**

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

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 APP: 04-122317 INC.  
 REVIEWED FOR  
 SS  FLS  ACS   
 DATE: 3/19/2024

**SSG**  
 structural engineers

PROFESSIONAL ENGINEER  
 REGISTERED IN THE STATE OF CALIFORNIA  
 No. 5405  
 DATE SIGNED: 08.09.2023  
 PC SEOR SEAL

THESE DRAWINGS, NOTES AND DETAILS ARE INSTRUMENTS OF SERVICE AND ARE THE PROPERTY OF SSG STRUCTURAL ENGINEERS, LLP. ALL DRAWINGS, INFORMATION, SPECIFICATIONS, CALC. DESIGN AND ARRANGEMENTS REPRESENTED WITHIN THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF THE ENGINEER. NO PART THEREOF SHALL BE REPRODUCED, COPIED OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ENGINEER. COPYRIGHT 2023  
 THANK YOU FOR YOUR INTEREST IN NEVCO SCOREBOARD PRODUCTS

**NEVCO**  
 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  FLS  ACS   
 DATE: 09/20/2024

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 readjusting 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 inspectors 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<sub>y</sub> = 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'<sub>c</sub>) 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 Specific 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<sub>y</sub>) of 36 ksi.
  - Wide-flange shapes: Shall conform to ASTM A992 and shall have a minimum yield stress (F<sub>y</sub>) of 50 ksi.
  - Structural tubes: Shall be ASTM A500, Grade C, and shall have a min. yield stress (F<sub>y</sub>) 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-preventive 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
ACI	American Concrete Institute	HT	Height
ADJ.	Adjacent	ICC	International Building Code
AHJ	Division of the State Architect	ICC	International Code Council
AISC	American Institute of Steel Construction	ID	Inside Diameter
AOR	Architect of Record	IN.	Inch, Inches
APPROX.	Approximately	INT.	Interior
ASCE	American Society of Civil Engineers	ksi	Kips per Square Inch
ARCH.	Architect, Architecture	LL	Live Load
ASTM	American Society of Testing and Materials	MAX.	Maximum
ATR	All Thread Rod	MB	Machine Bolt
AWS	American Welding Society	MFR.	Manufactured, Manufacturer
B.O.	Bottom of _____	MIN.	Minimum
BOT.	Bottom	MPH	Miles per Hour
b/t	Between	N/R	Not Required
CAC	California Administrative Code	N.T.S.	Not to Scale
CBC	California Building Code	o.c.	On Center
CIP	Cast-in-place	OD	Outside Diameter
CJP	Complete Joint Penetration	o.c.	On Center
C.L.R.	Centerline	OD	Outside Diameter
CLR.	Clear	PEN.	Penetration
COL.	Column	PI	Plate
CONC.	Concrete	PIP	Partial Joint Penetration
CONN.	Connection	psi	Pounds per Square Inch
CONST.	Construction	PSF	Pounds per Square Foot
CONT.	Continue, Continuous	REBAR	Reinforcing Bar
ø	Diameter	REIN.F.	Reinforcement
DBL.	Double	RECD	Required
DET.	Detail	S.F.	Square Feet
DI	Diaphragm	SHT.	Sheet
DSA	Division of State Architect	SIM.	Similar
DWGS.	Drawings	SMS	Sheet Metal Screw
EA.	Each	SO	Square
E.F.	Each Face	STAGCD	Staggered Standard
ELEC.	Electric, Electrical	STD.	Standard
ELEV.	Elevation	STL	Steel
EMBED.	Embedded, Embedment	SEOR	Structural Engineer of Record
EOR	Engineer of Record	T&B	Top and bottom
EQUIP.	Equipment	THR'D	Threaded
E.S.	Each Side	T.O.	Top of _____
E.W.	Each Way	TYP.	Typical
EXT.	Exterior	U.N.O.	Unless Noted Otherwise
FAB.	Fabricated	VERT.	Vertical
FDN.	Foundation	VIF	Verify in Field
F.G.	Finish Grade	w/	With
F.O.	Face of _____	w/c	Water/Cement Ratio
FRMG.	Framing	WSS	Welded Steel Stud
FT.	Foot	WT.	Weight
FTG.	Footing		
G.A.	Gauge		
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 by using existing prestressed concrete (pre- or post-tensioned) locate the prestressed tendons by into 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 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**

## HIRAM JOHNSON HIGH SCHOOL, SACRAMENTO, CA

## PROOF #58153C-PR

### PROOF INCLUDES:

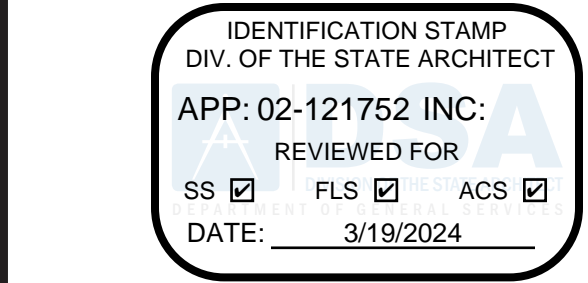
- Model 1408-ETN Baseball Softball LED Scoreboard  
18"W x 6'H x 8"D  
Scoreboard Color: #73 Maroon  
Digit Color: White  
Electronic Team Name Color: White
- Non-Illuminated Sign  
18"W x 3'H



### 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.



DATE SIGNED: 08.09.2023  
PC SEOR SEAL

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

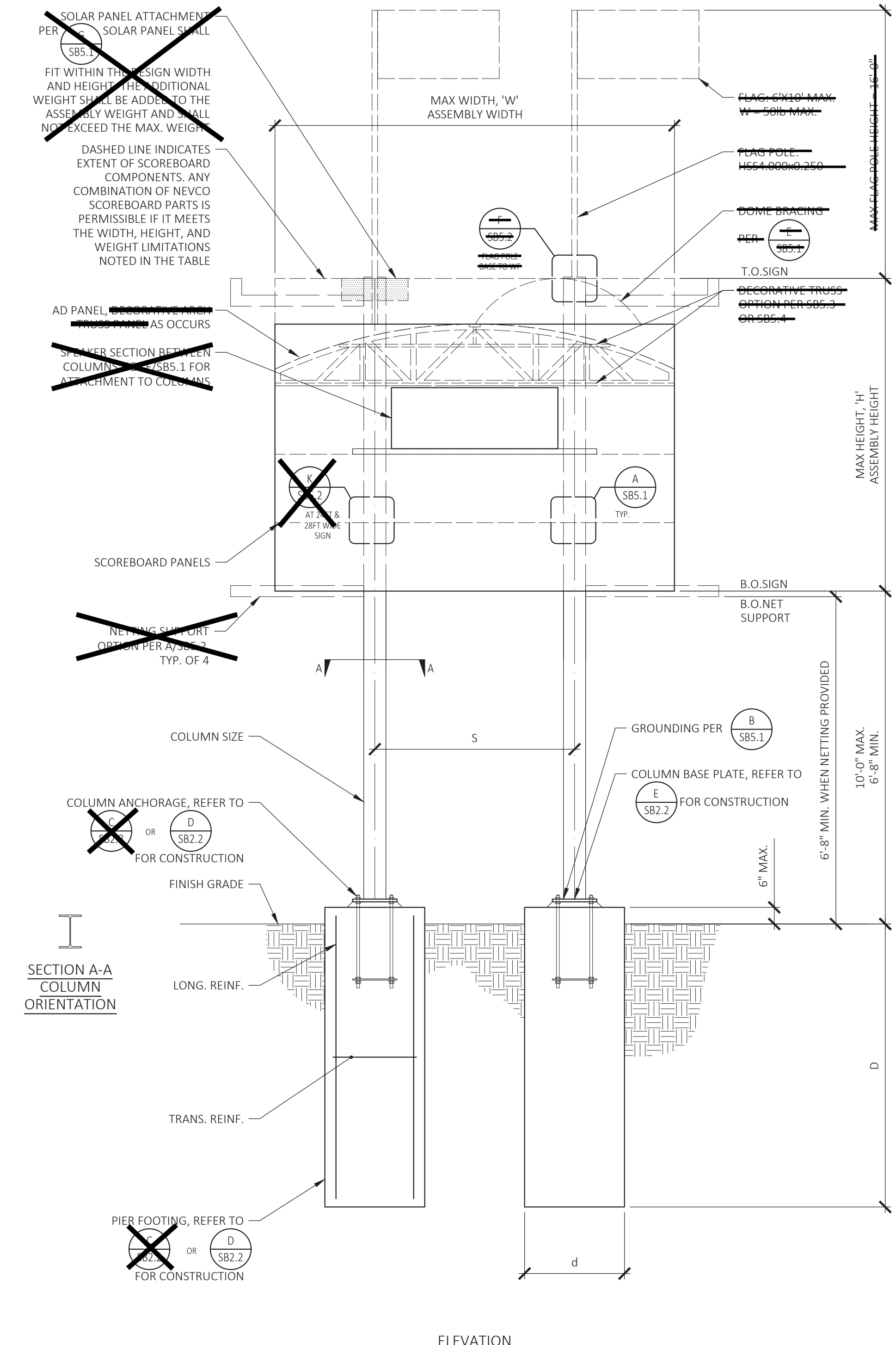
**JOHN F. KENNEDY HS, SCOREBOARD ASSEMBLY**

## STRUCTURAL NOTES & SPECIAL INSPECTIONS

DATE	08.09.2023
DRAWN	JMK
CHECKED	MEP
SSG JOB #	S23109
SHEET	SB0.2

ASSEMBLY CRITERIA		PIER FOOTING CRITERIA (2)										BASE PLATE				ANCHOR RODS			
ASSEMBLY WIDTH, W	CHECK OPTION THIS APPLICATION	MAX. WEIGHT	ASSEMBLY HEIGHT, H	COLUMN SPACING, S	COLUMN SIZE	COLUMN SIZE W/O FLAG	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"		1,770 lbs.	≤ 8'-0"	8'-0"	W8x24	W8x24	36"Ø	7'-0"	8-#8	#4 @ 4½" o.c.	1½"	24"	24"	½"	(4) - 1½"	F1554-GR.36	2½"	2"	48"
8'-0"		1,540 lbs.	≤ 12'-0"	6'-0"	W10x33	W10x33	36"Ø	8'-0"	8-#8	#4 @ 4½" o.c.	1½"	20"	20"	½"	(4) - 1½"	F1554-GR.36	2½"	2"	48"
8'-0"		1,540 lbs.	≤ 16'-0"	6'-0"	W12x40	W12x40	36"Ø	9'-0"	8-#8	#4 @ 4½" o.c.	1½"	20"	20"	½"	(4) - 1½"	F1554-GR.55	2½"	2"	48"
8'-0"		1,540 lbs.	≤ 20'-0"	6'-0"	W14x61	W14x61	42"Ø	9'-9"	8-#8	#4 @ 6" o.c.	1½"	24"	24"	½"	(4) - 1½"	F1554-GR.55	2½"	2"	64"
9'-0"		870 lbs.	≤ 8'-0"	8'-0"	W8x24	W8x24	36"Ø	7'-3"	8-#8	#4 @ 4½" o.c.	1"	20"	20"	½"	(4) - 1½"	F1554-GR.36	2½"	2"	48"
9'-0"		1,300 lbs.	≤ 12'-0"	8'-0"	W10x33	W10x33	36"Ø	8'-3"	8-#8	#4 @ 4½" o.c.	1½"	20"	20"	½"	(4) - 1½"	F1554-GR.36	2½"	2"	48"
9'-0"		1,730 lbs.	≤ 16'-0"	8'-0"	W12x40	W12x40	36"Ø	9'-3"	8-#8	#4 @ 4½" o.c.	1½"	20"	20"	½"	(4) - 1½"	F1554-GR.55	2½"	2"	48"
9'-0"		2,160 lbs.	≤ 20'-0"	8'-0"	W14x61	W14x61	42"Ø	10'-0"	8-#8	#4 @ 6" o.c.	1½"	24"	24"	½"	(4) - 1½"	F1554-GR.55	2½"	2"	64"
10'-0"		960 lbs.	≤ 8'-0"	8'-0"	W8x24	W8x24	36"Ø	7'-6"	8-#8	#4 @ 4½" o.c.	1"	20"	20"	½"	(4) - 1½"	F1554-GR.36	2½"	2"	48"
10'-0"		1,440 lbs.	≤ 12'-0"	8'-0"	W10x33	W10x33	36"Ø	8'-6"	8-#8	#4 @ 4½" o.c.	1½"	20"	20"	½"	(4) - 1½"	F1554-GR.36	2½"	2"	48"
10'-0"		1,920 lbs.	≤ 16'-0"	8'-0"	W12x40	W12x40	36"Ø	9'-6"	8-#8	#4 @ 4½" o.c.	1½"	24"	24"	½"	(4) - 1½"	F1554-GR.105	2½"	2"	48"
10'-0"		2,400 lbs.	≤ 20'-0"	8'-0"	W14x61	W14x61	48"Ø	9'-9"	8-#8	#4 @ 6" o.c.	1½"	24"	24"	½"	(4) - 1½"	F1554-GR.105	2½"	2"	64"
12'-0"		1,100 lbs.	≤ 8'-0"	8'-0"	W10x33	W10x30	36"Ø	8'-0"	8-#8	#4 @ 4½" o.c.	1½"	20"	20"	½"	(4) - 1½"	F1554-GR.36	2½"	2"	48"
12'-0"		1,730 lbs.	≤ 12'-0"	8'-0"	W14x43	W14x43	42"Ø	9'-3"	8-#8	#4 @ 4½" o.c.	1½"	24"	24"	½"	(4) - 1½"	F1554-GR.55	2½"	2"	48"
12'-0"		2,310 lbs.	≤ 16'-0"	8'-0"	W18x33	W18x33	42"Ø	10'-3"	8-#8	#4 @ 4½" o.c.	1½"	24"	24"	½"	(6) - 1½"	F1554-GR.55	2½"	2"	64"
12'-0"		2,880 lbs.	≤ 20'-0"	8'-0"	W14x61	W14x61	48"Ø	10'-3"	8-#8	#4 @ 6" o.c.	1½"	24"	24"	½"	(6) - 1½"	F1554-GR.55	2½"	2"	64"
16'-0"		1,540 lbs.	≤ 8'-0"	8'-0"	W10x33	W10x33	36"Ø	8'-9"	8-#8	#4 @ 4½" o.c.	1½"	20"	20"	½"	(4) - 1½"	F1554-GR.55	2½"	2"	48"
16'-0"		3,080 lbs.	≤ 12'-0"	8'-0"	W12x45	W12x40	36"Ø	10'-3"	8-#8	#4 @ 4½" o.c.	1½"	24"	24"	½"	(6) - 1½"	F1554-GR.55	2½"	2"	48"
16'-0"		3,080 lbs.	≤ 16'-0"	8'-0"	W14x61	W14x61	48"Ø	12'-0"	8-#8	#4 @ 6" o.c.	1½"	24"	24"	½"	(6) - 1½"	F1554-GR.55	2½"	2"	64"
16'-0"		3,840 lbs.	≤ 20'-0"	8'-0"	W16x77	W16x67	48"Ø	12'-0"	12-#8	#4 @ 6" o.c.	1½"	24"	24"	½"	(6) - 1½"	F1554-GR.105	2½"	2"	64"
16'-0"		1,730 lbs.	≤ 8'-0"	10'-0"	W12x35	W12x35	36"Ø	9'-0"	8-#8	#4 @ 4½" o.c.	1½"	20"	20"	½"	(4) - 1½"	F1554-GR.36	2½"	2"	48"
18'-0"	X	2,600 lbs.	≤ 12'-0"	10'-0"	W14x48	W14x43	42"Ø	10'-0"	8-#8	#4 @ 6" o.c.	1½"	24"	24"	½"	(4) - 1½"	F1554-GR.55	2½"	2"	64"
18'-0"		4,320 lbs.	≤ 16'-0"	10'-0"	W18x43	W18x43	48"Ø	10'-9"	8-#8	#4 @ 6" o.c.	1½"	24"	24"	½"	(6) - 1½"	F1554-GR.55	2½"	2"	64"
18'-0"		2,310 lbs.	≤ 8'-0"	14'-0"	W14x43	W14x43	36"Ø	9'-9"	8-#8	#4 @ 4½" o.c.	1½"	24"	24"	½"	(4) - 1½"	F1554-GR.55	2½"	2"	64"
18'-0"		3,460 lbs.	≤ 12'-0"	14'-0"	W14x61	W14x61	36"Ø	11'-6"	8-#8	#4 @ 6" o.c.	1½"	24"	24"	½"	(6) - 1½"	F1554-GR.55	2½"	2"	64"
24'-0"		4,610 lbs.	≤ 14'-0"	14'-0"	W16x67	W16x67	48"Ø	11'-9"	12-#8	#4 @ 6" o.c.	1½"	24"	30"	½"	(4) - 1½"	F1554-GR.55	3"	2"	64"
24'-0"		5,760 lbs.	≤ 20'-0"	14'-0"	W18x66	W18x66	48"Ø	13'-3"	12-#8	#4 @ 6" o.c.	1½"	24"	30"	½"	(6) - 1½"	F1554-GR.55	3"	2"	64"
24'-0"		6,920 lbs.	≤ 24'-0"	14'-0"	W18x130	W18x130	48"Ø	14'-6"	12-#8	#4 @ 6" o.c.	2"	24"	30"	CIP	(6) - 1½"	F1554-GR.105	3"	2"	64"
24'-0"		8,070 lbs.	≤ 28'-0"	14'-0"	W18x158	W18x143	54"Ø	14'-6"	12-#8	#4 @ 6" o.c.	2"	24"	36"	CIP	(6) - 2"	F1554-GR.105	4"	2"	64"
28'-0"		2,690 lbs.	≤ 8'-0"	14'-0"	W14x43	W14x43	42"Ø	10'-0"	8-#8	#4 @ 4½" o.c.	1½"	24"	24"	½"	(4) - 1½"	F1554-GR.55	2½"	2"	64"
28'-0"		4,040 lbs.	≤ 12'-0"	14'-0"	W14x61	W14x61	36"Ø	11'-3"	8-#8	#4 @ 6" o.c.	1½"	24"	30"	½"	(4) - 1½"	F1554-GR.55	3"	2"	64"
28'-0"		5,380 lbs.	≤ 16'-0"	14'-0"	W16x67	W16x67	48"Ø	12'-9"	12-#8	#4 @ 6" o.c.	2"	24"	30"	½"	(6) - 1½"	F1554-GR.55	3"	2"	64"
28'-0"		6,720 lbs.	≤ 20'-0"	14'-0"	W18x97	W18x97	48"Ø	14'-3"	12-#8	#4 @ 6" o.c.	2"	24"	30"	CIP	(6) - 1½"	F1554-GR.105	3"	2"	64"
28'-0"		8,070 lbs.	≤ 24'-0"	14'-0"	W18x143	W18x143	54"Ø	15'-9"	12-#8	#4 @ 6" o.c.	2½"	24"	36"	CIP	(6) - 2"	F1554-GR.105	4"	2"	64"
28'-0"		9,410 lbs.	≤ 28'-0"	14'-0"	W18x175	W18x175	54"Ø	16'-6"	14-#8	#4 @ 6" o.c.	3"	24"	36"	CIP	(6) - 2"	F1554-GR.105	4"	2"	64"

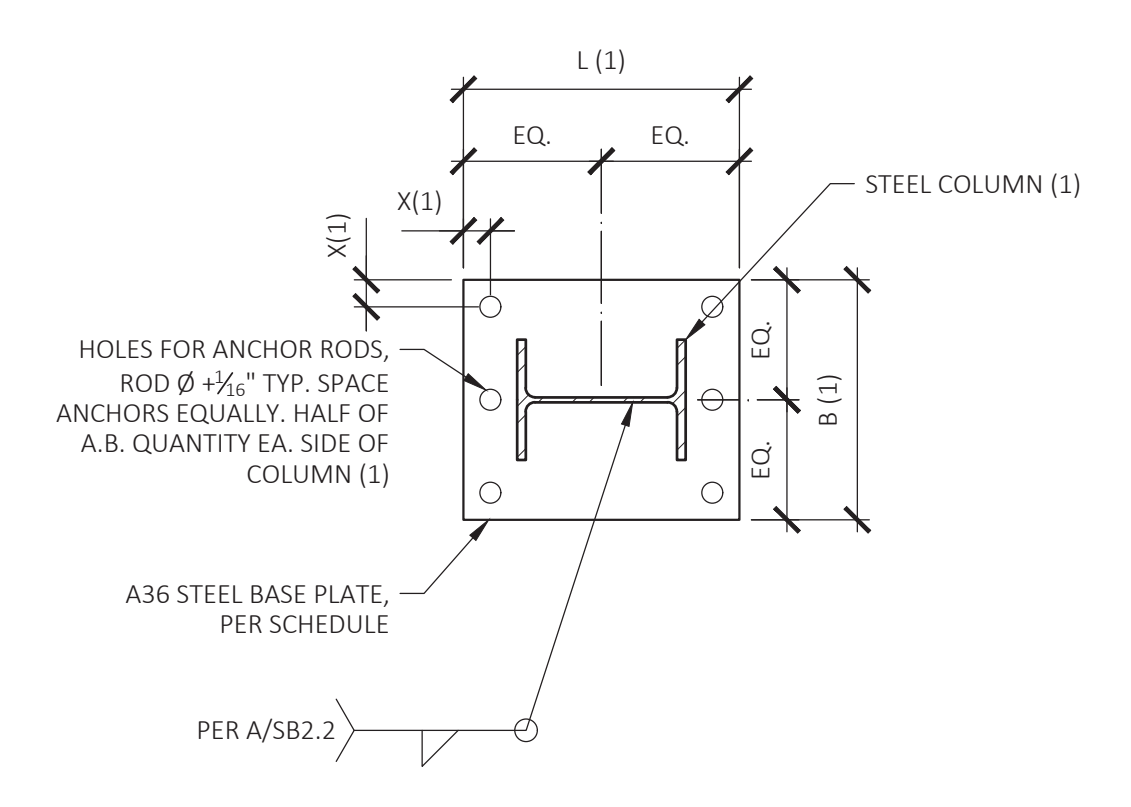
NOTES: (R)  
 1. CONTRACTOR OPTION TO PROVIDE TIES OR SPIRAL REINFORCING. SEE C/SB2.2 FOR THE OPTION, SEE D/SB2.2 FOR SPIRAL OPTION  
 2. CONTRACTOR IS RESPONSIBLE FOR CASING PIERS AND DRILLING SEQUENCING TO PROTECT PIER EXCAVATION



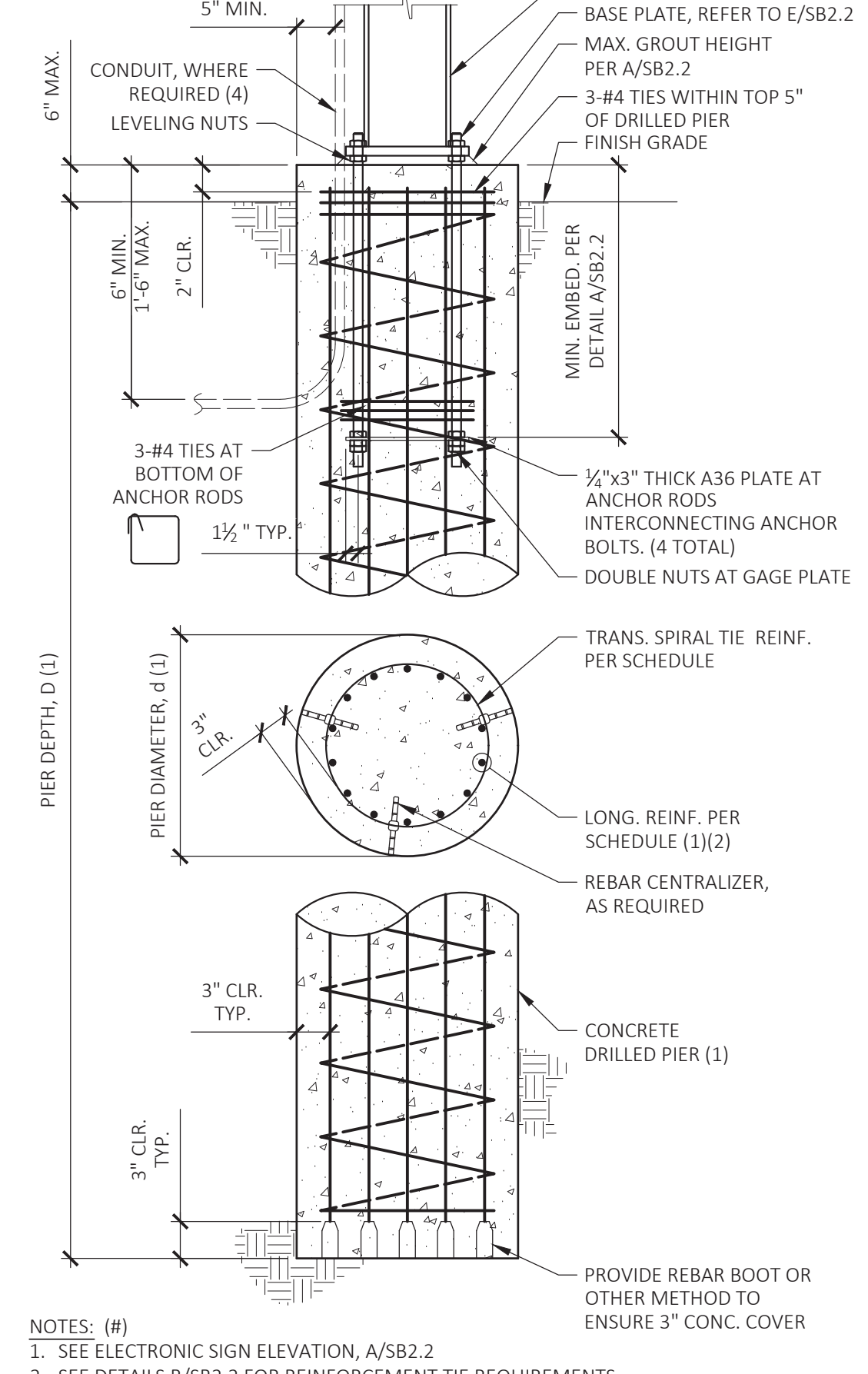
ELEVATION

TWO COLUMN SCOREBOARD INSTALLATION

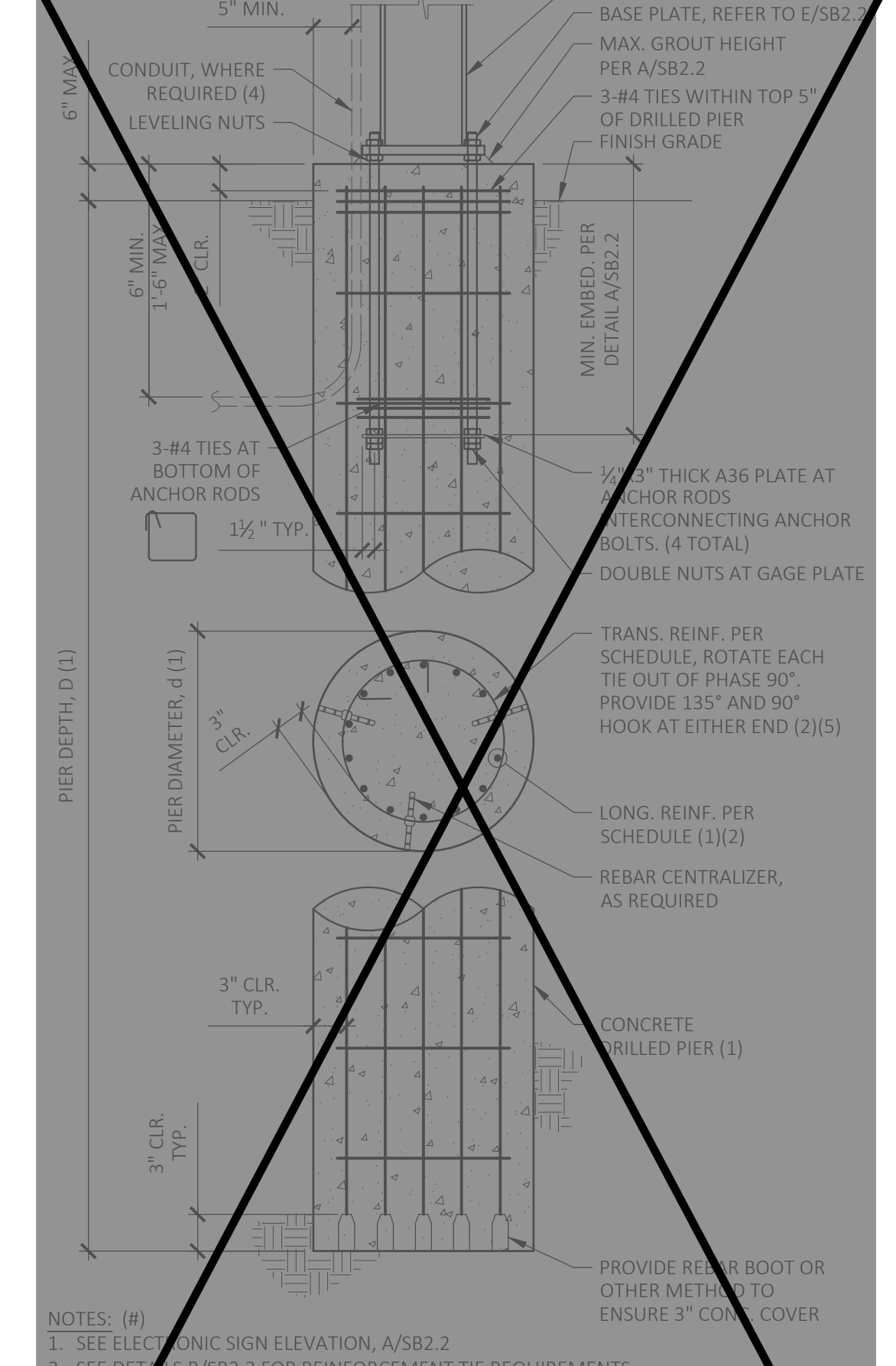
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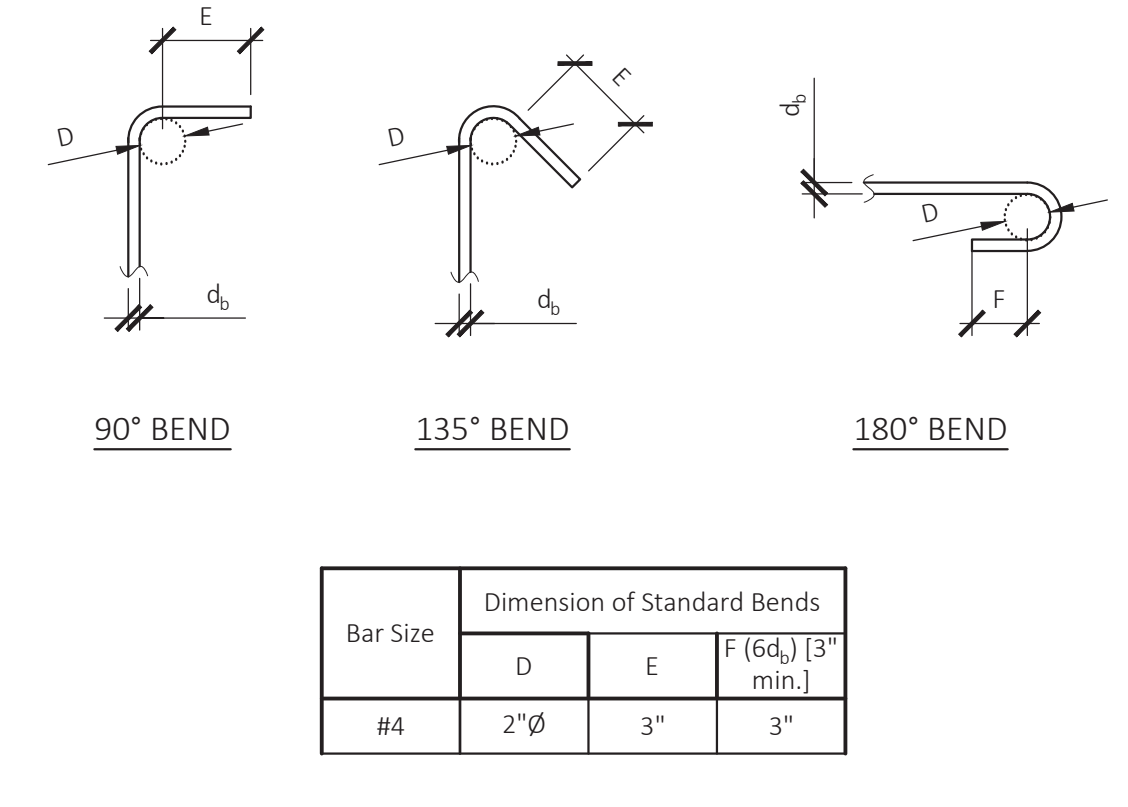
NOTES: (R)  
 1. SEE SCOREBOARD ELEVATION, A/SB2.2  
 N.T.S.



NOTES: (R)  
 1. SEE ELECTRONIC SIGN ELEVATION, A/SB2.2  
 2. SEE DETAILS B/SB2.2 FOR REINFORCEMENT TIE REQUIREMENTS  
 3. DO NOT SPLICE REINFORCEMENT.  
 4. LOCATION OF CONDUIT APPROACH SHOWN GRAPHICALLY ONLY FOR REFERENCE. VERIFY ACTUAL CONDITIONS IN FIELD. (2) 2\"/>



NOTES: (R)  
 1. SEE ELECTRONIC SIGN ELEVATION, A/SB2.2  
 2. SEE DETAILS B/SB2.2 FOR REINFORCEMENT TIE REQUIREMENTS  
 3. DO NOT SPLICE REINFORCEMENT.  
 4. LOCATION OF CONDUIT APPROACH SHOWN GRAPHICALLY ONLY FOR REFERENCE. VERIFY ACTUAL CONDITIONS IN FIELD. (2) 2\"/>



TIE AND STIRRUP BENDS  
 N.T.S.

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 APP: 02-121752 INC.  
 REVIEWED FOR  
 SS  FLS  ACS   
 DATE: 3/19/2024

structural engineers

DATE SIGNED: 08.09.2023  
 PC SEOR REAL

NEVCO

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

APPROVED ARCHITECT  
 DIV. OF THE STATE ARCHITECT  
 APP: 04-1998 PC  
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 DATE: 09/20/2024

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

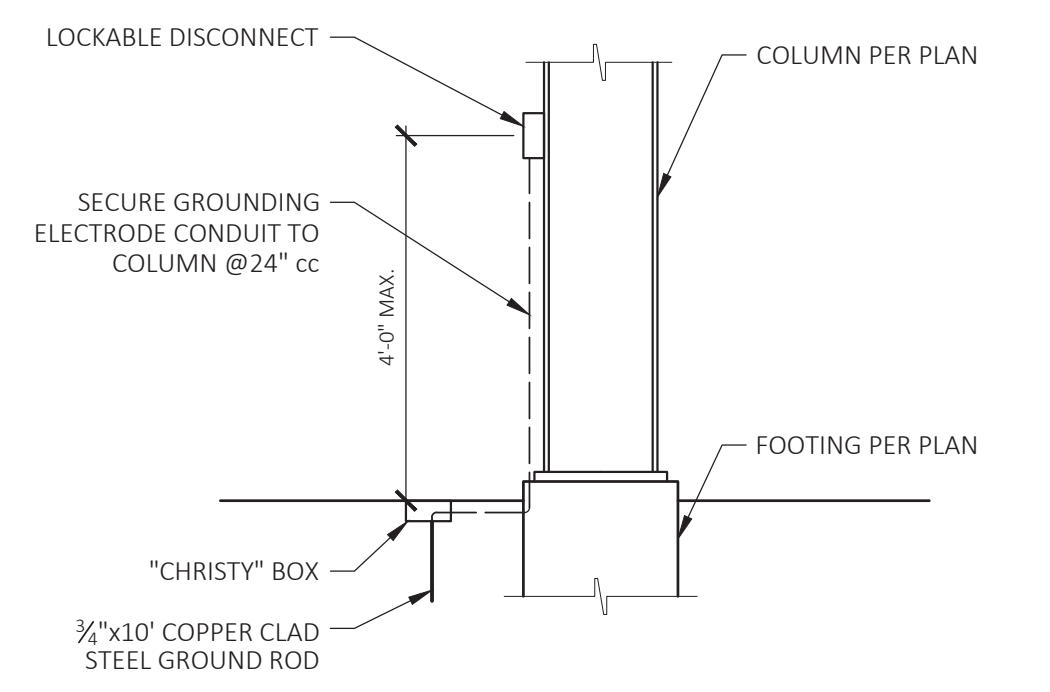
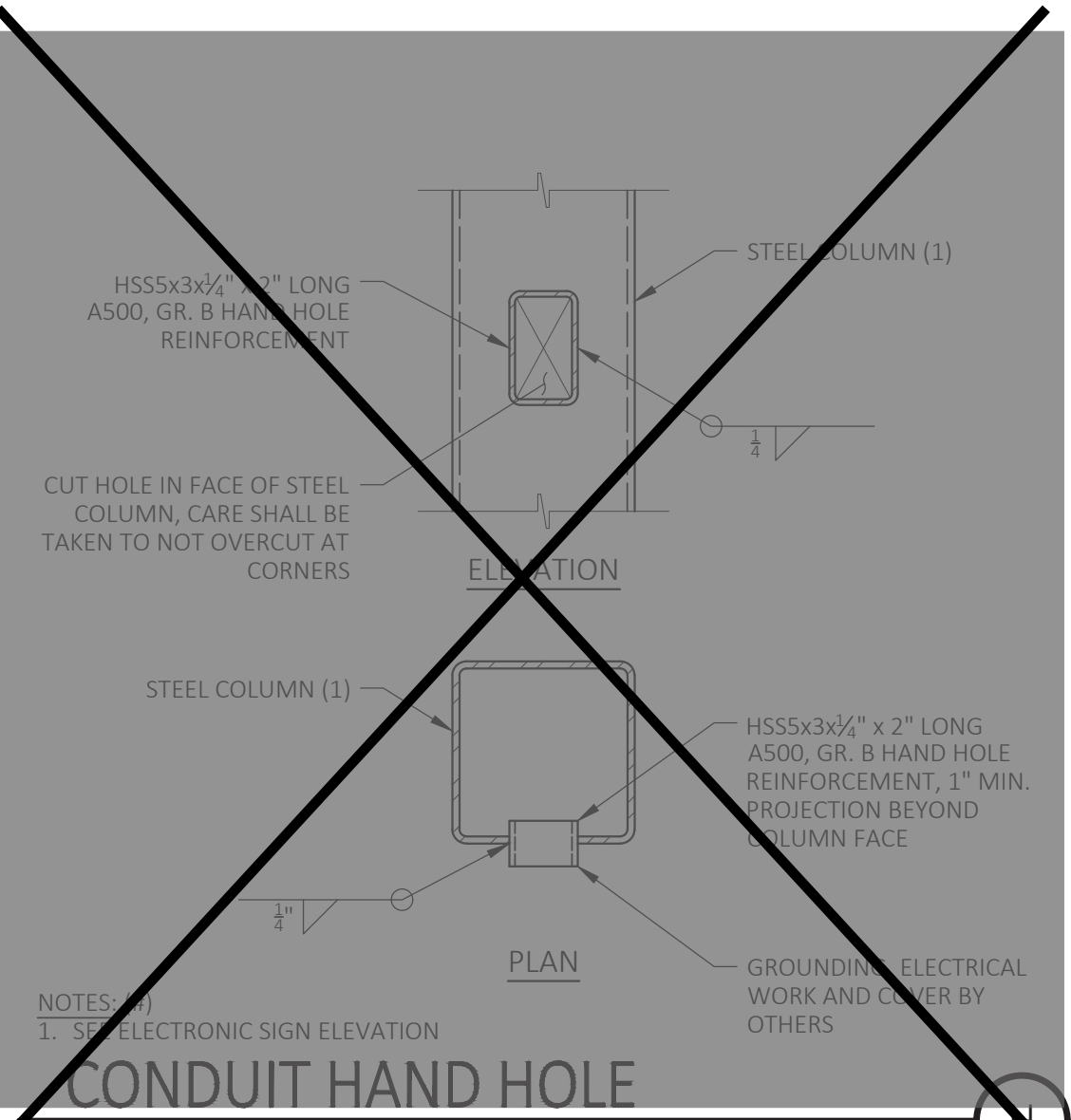
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DRAWN: JMK

CHECKED: MEP

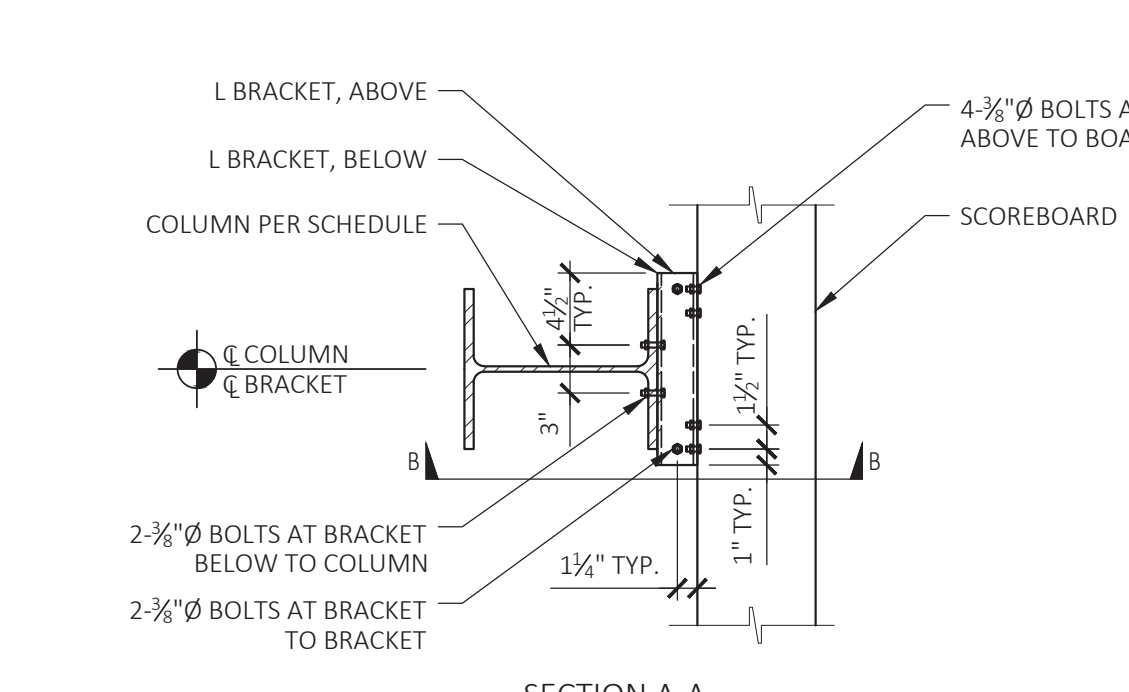
SSG JOB #: S23109

SHEET: SB2.2

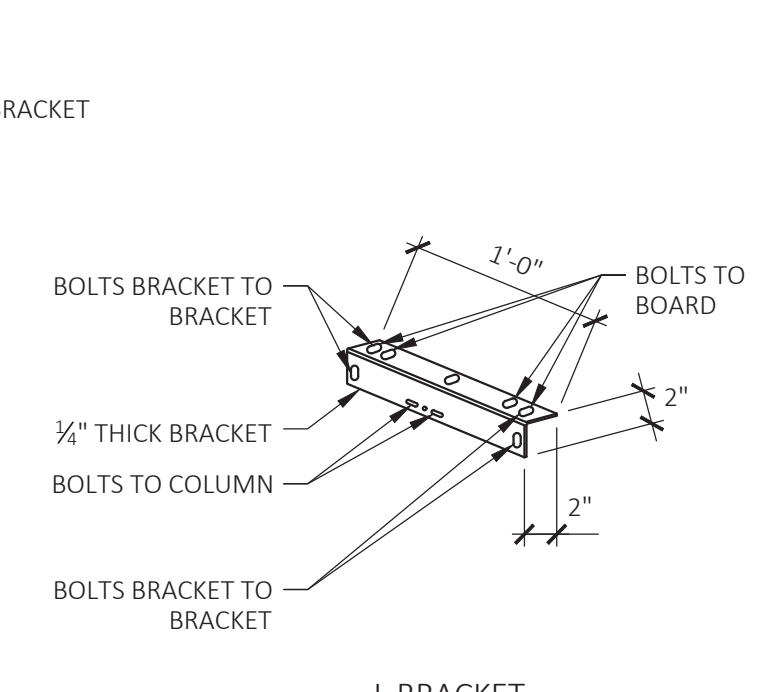


ALL DISPLAYS MUST BE GROUNDED WITH NO MORE THAN 10 OHMS GROUND RESISTANCE

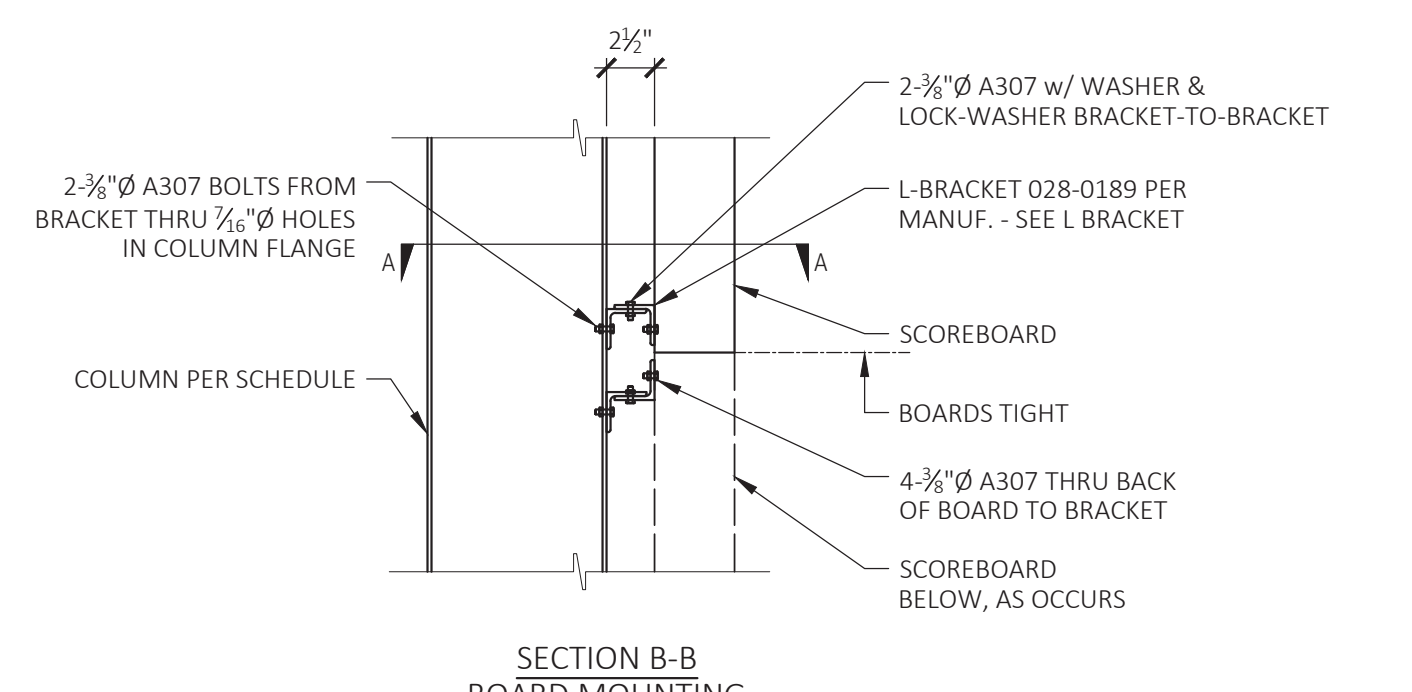
NOTES:  
1. ALTERNATE: IT IS PERMISSIBLE TO UTILIZE THE UFER GROUNDING METHOD. DETAILS FOR UFER GROUNDING SHALL BE INCLUDED AS PART OF THE SITE SPECIFIC SUBMITTAL.



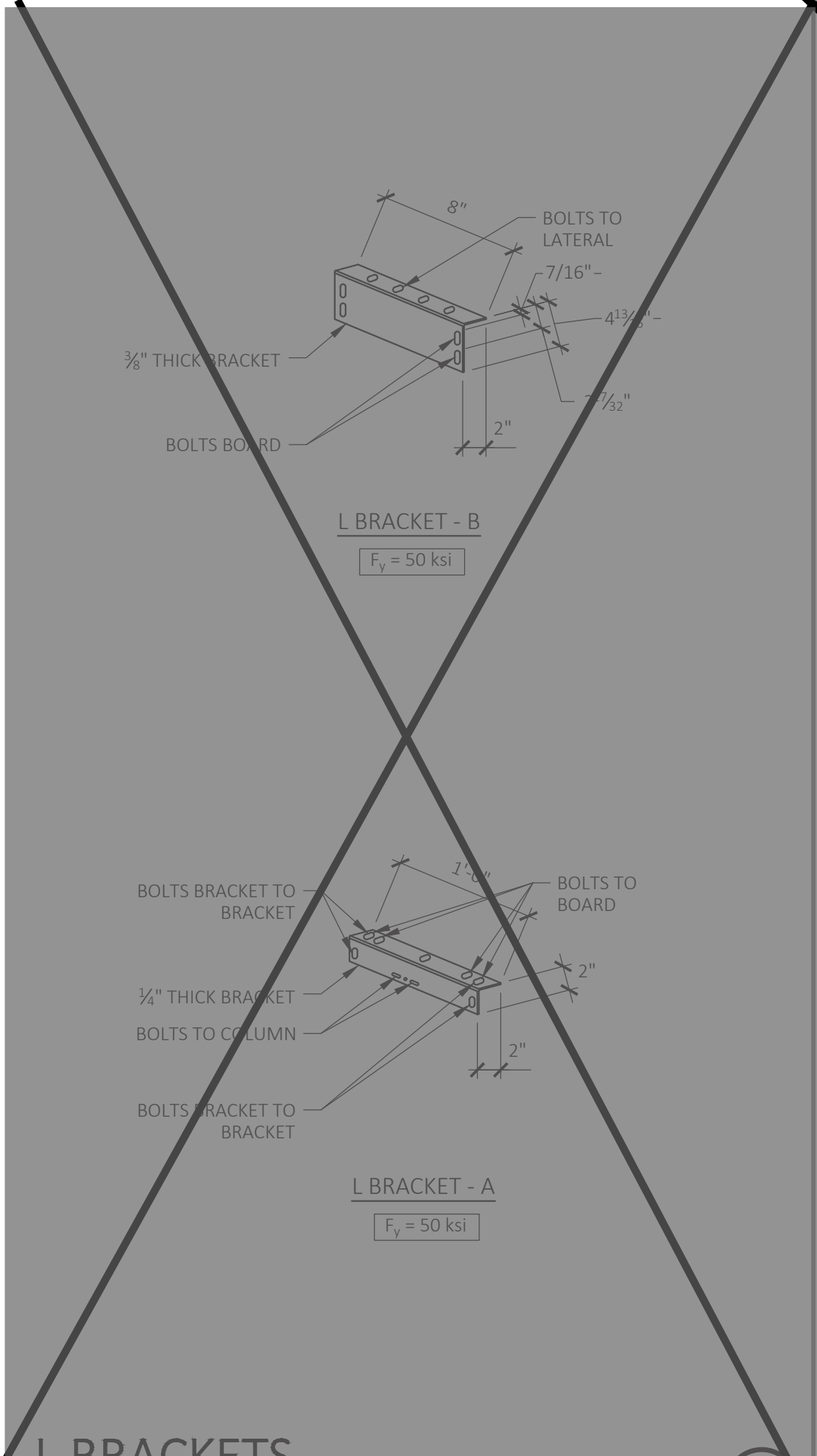
SECTION A-A  
ALL BOLTS A307 GRADE



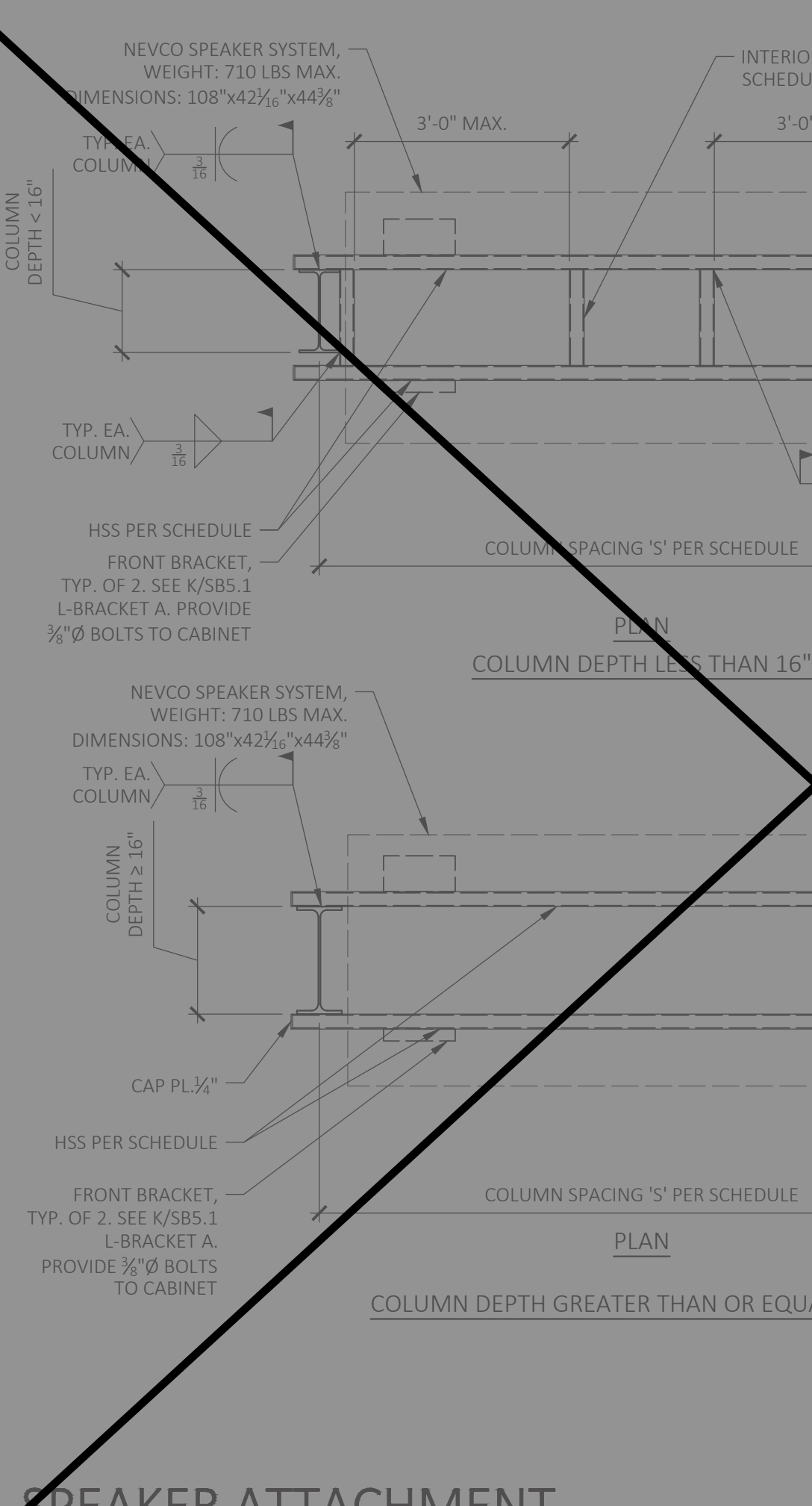
L BRACKET  
Fv = 50 ksi



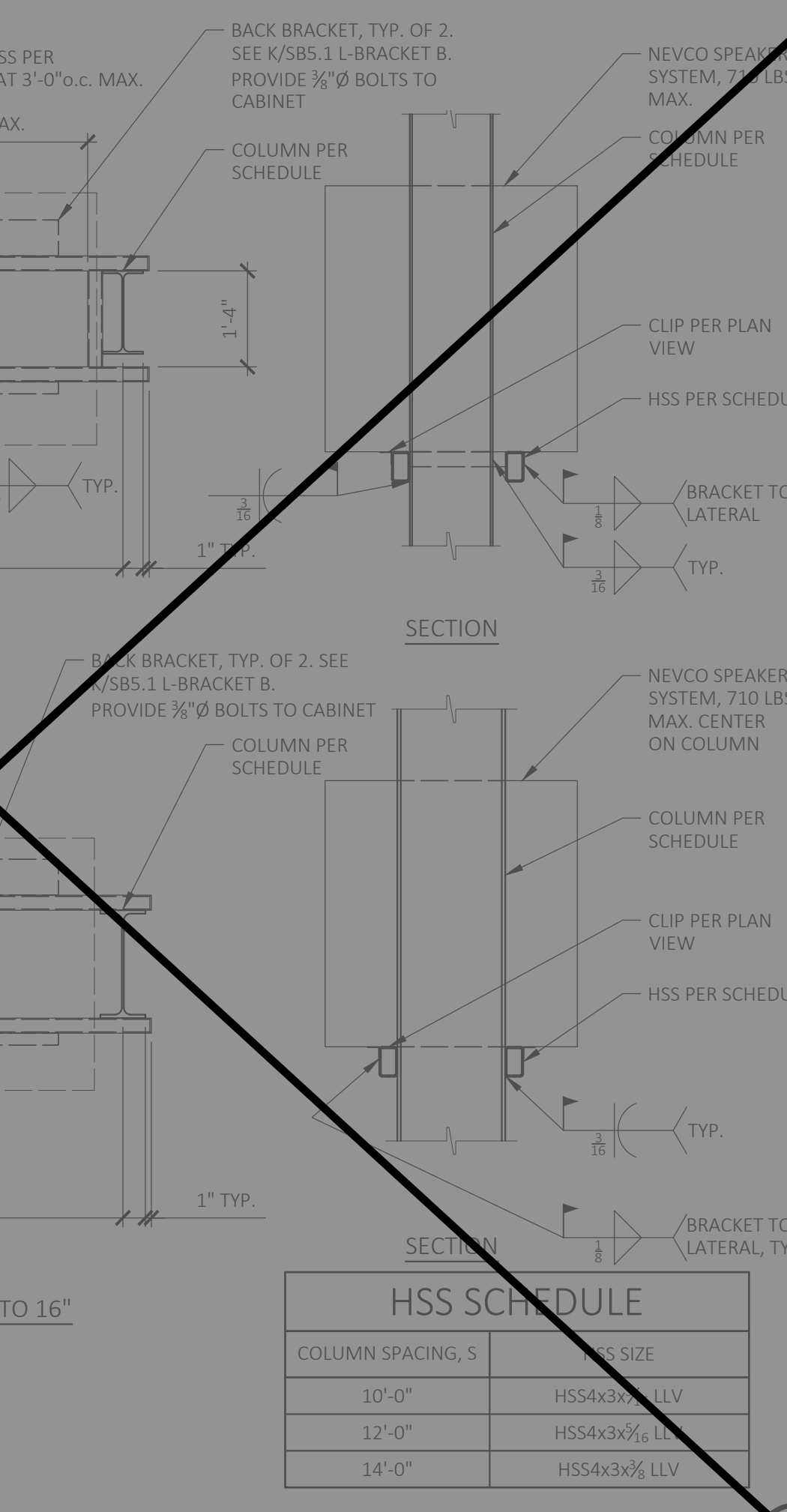
SECTION B-B  
BOARD MOUNTING  
ALL BOLTS A307 GRADE



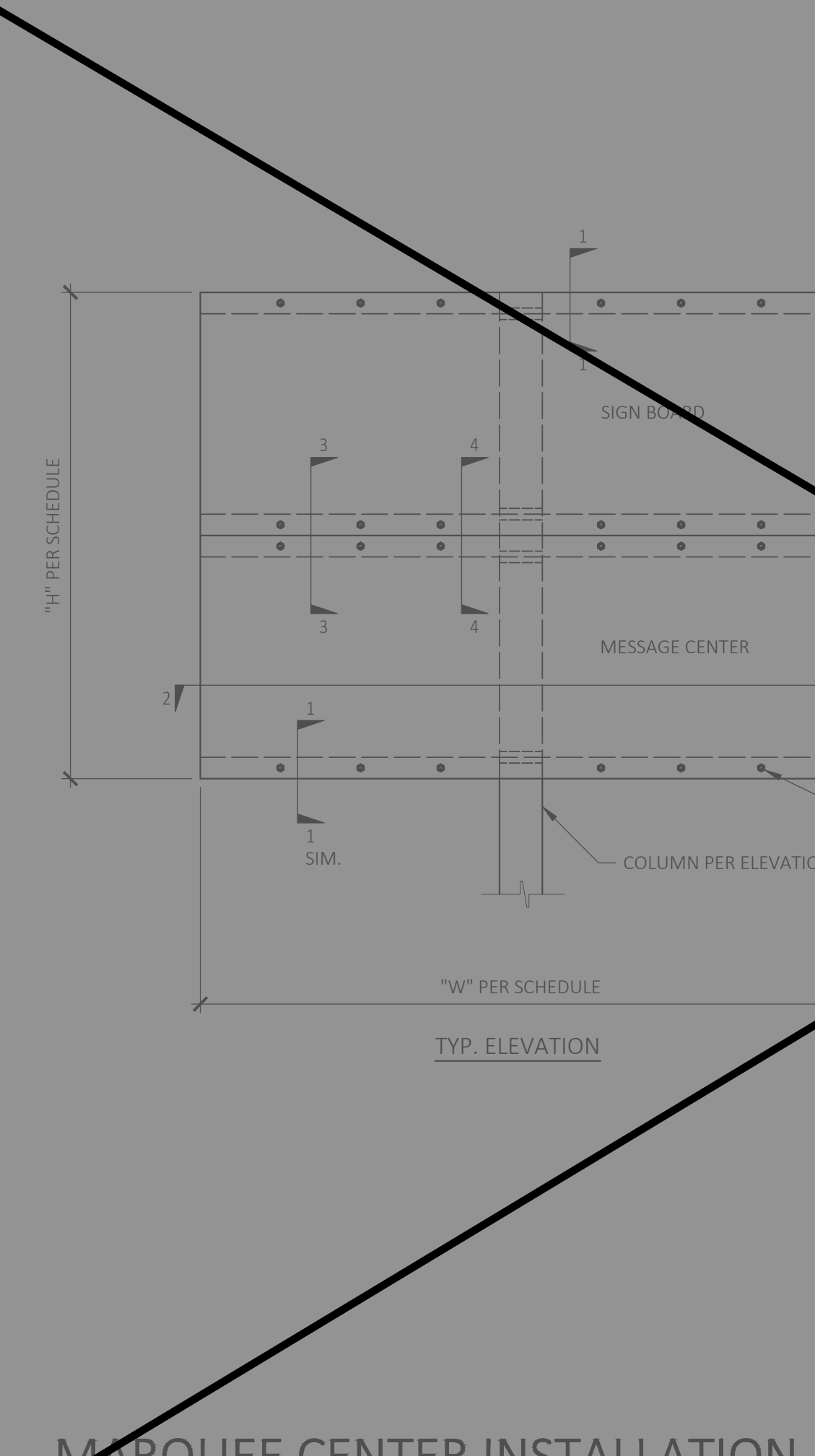
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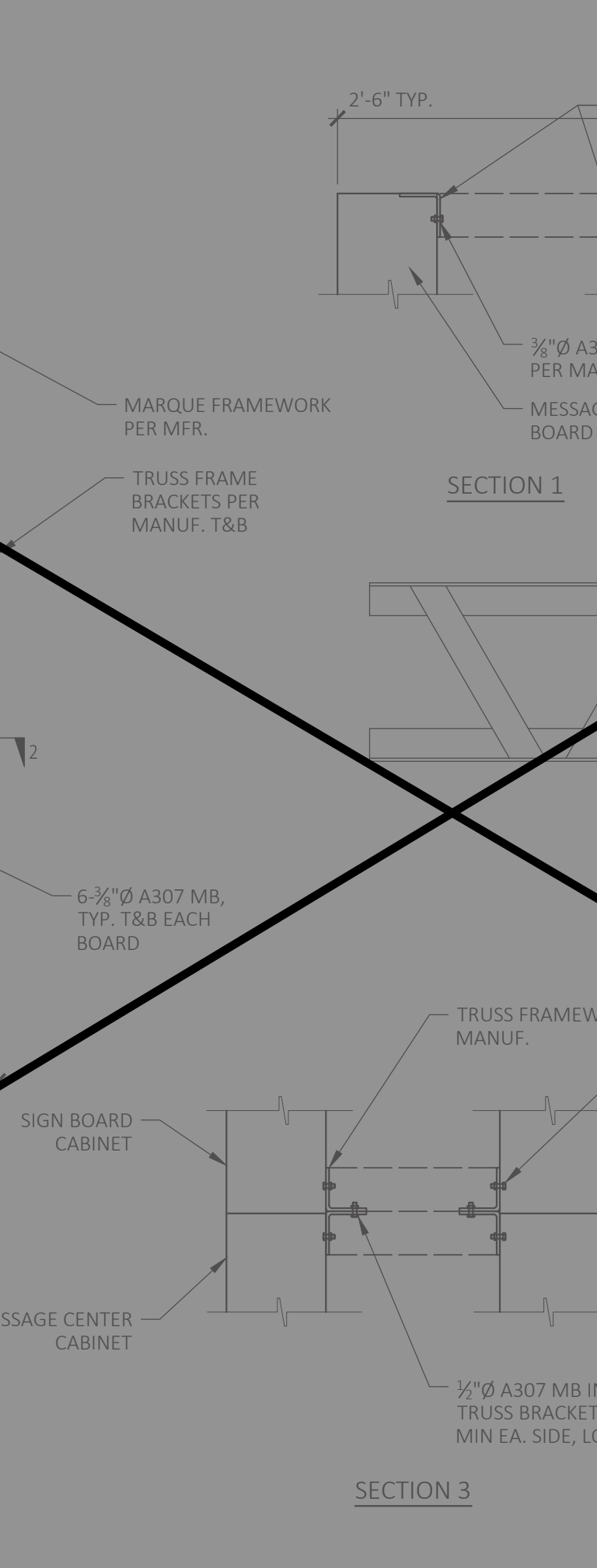
SPEAKER ATTACHMENT



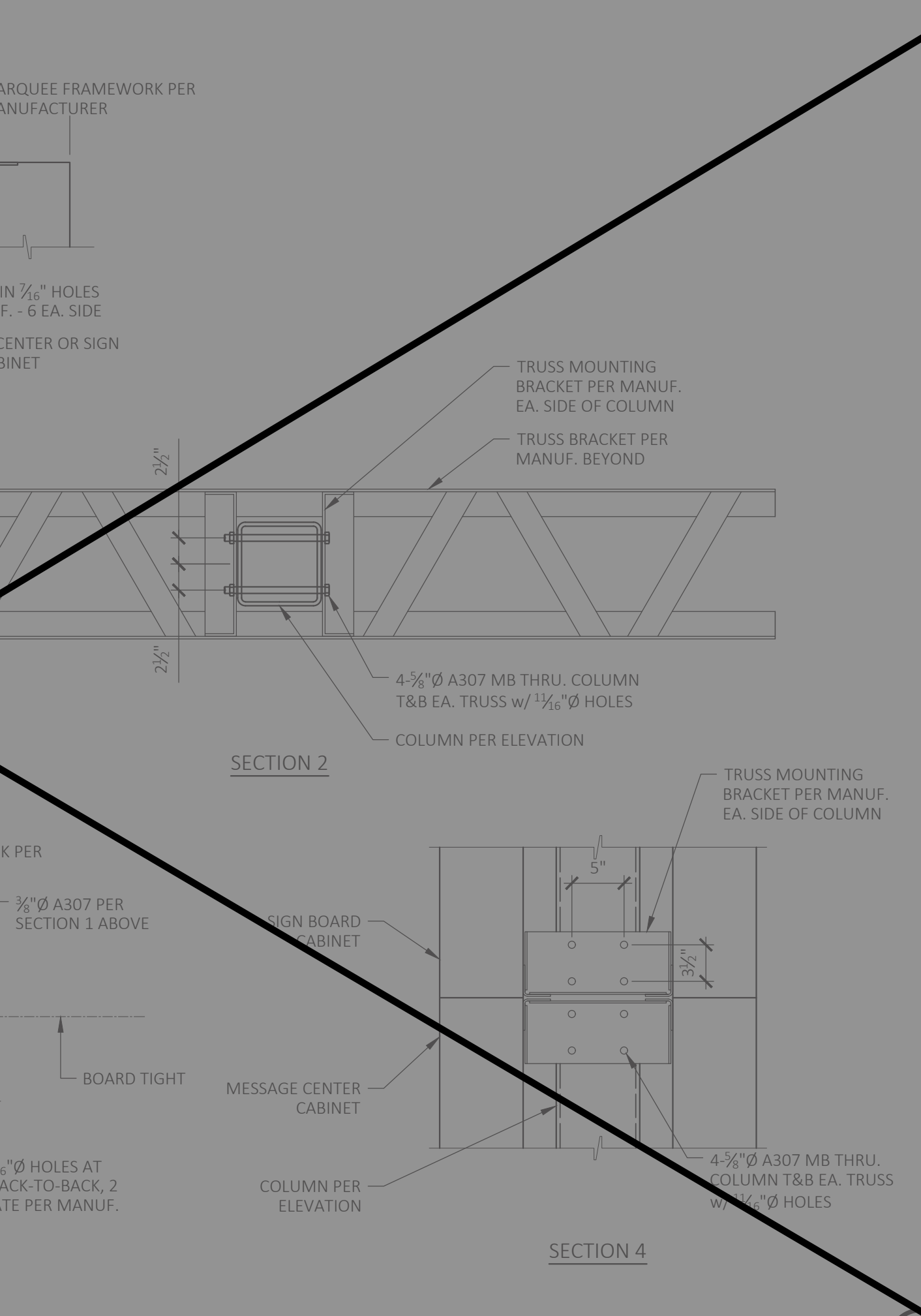
MARQUEE CENTER INSTALLATION



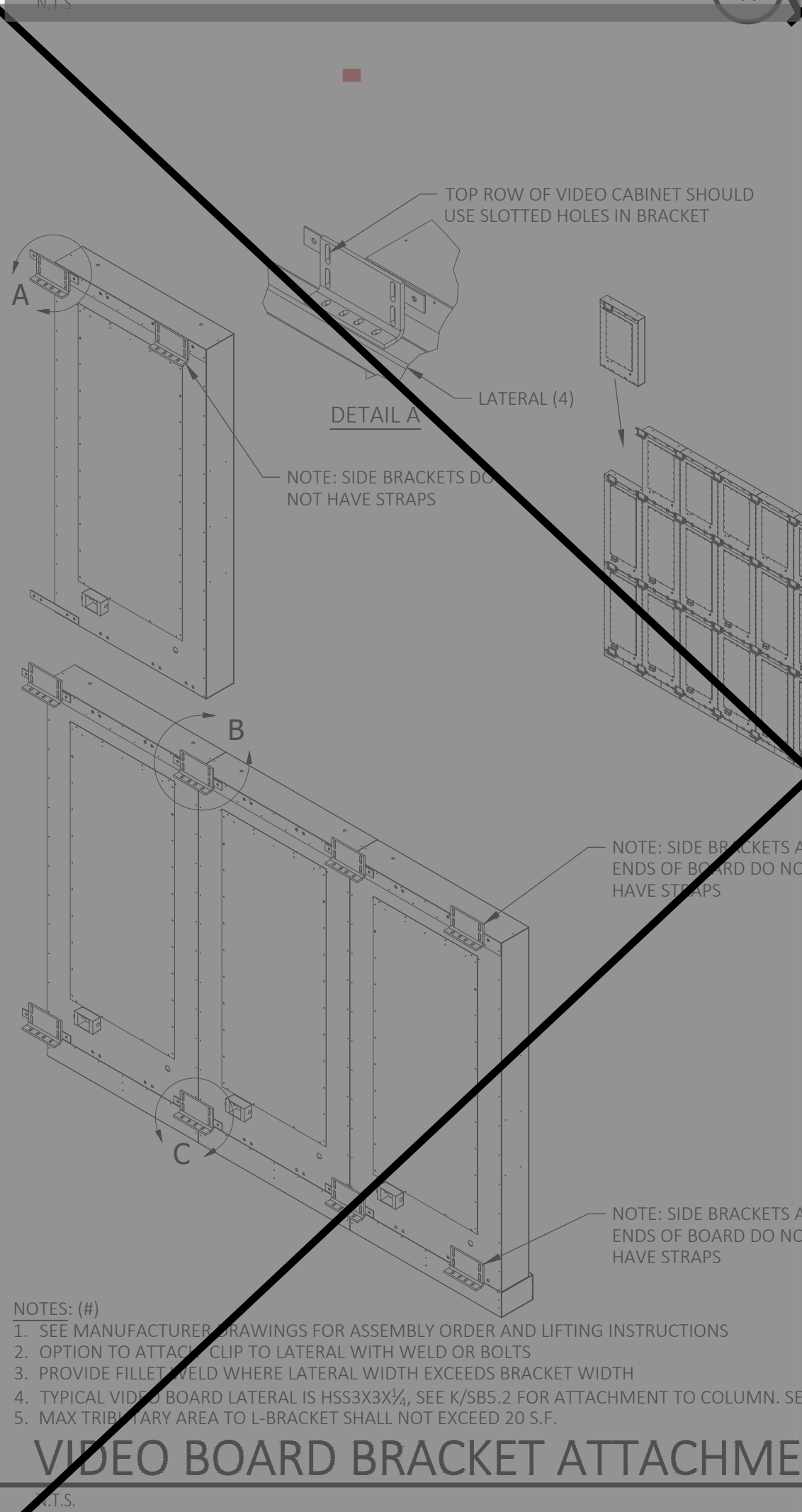
MARQUEE CENTER INSTALLATION



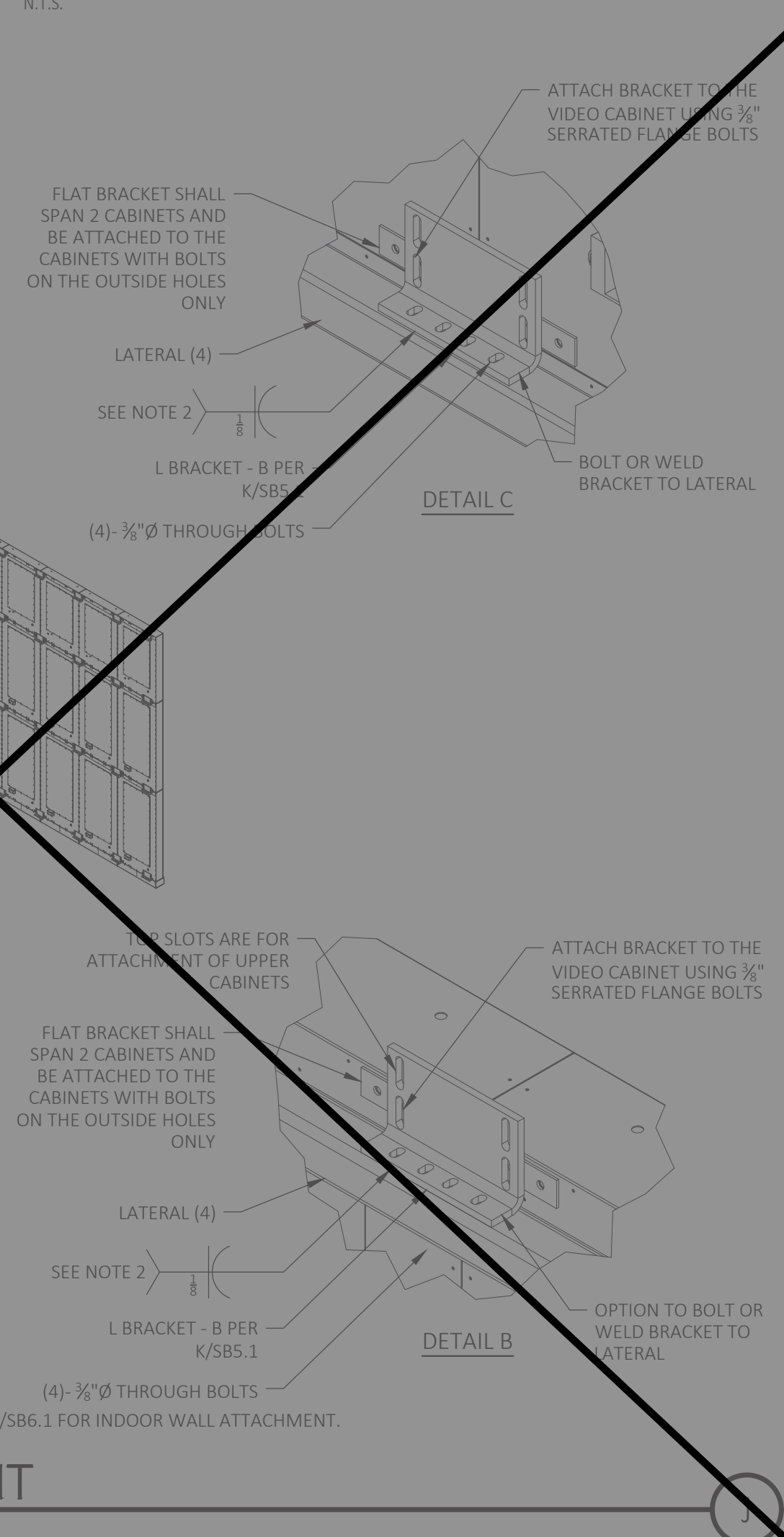
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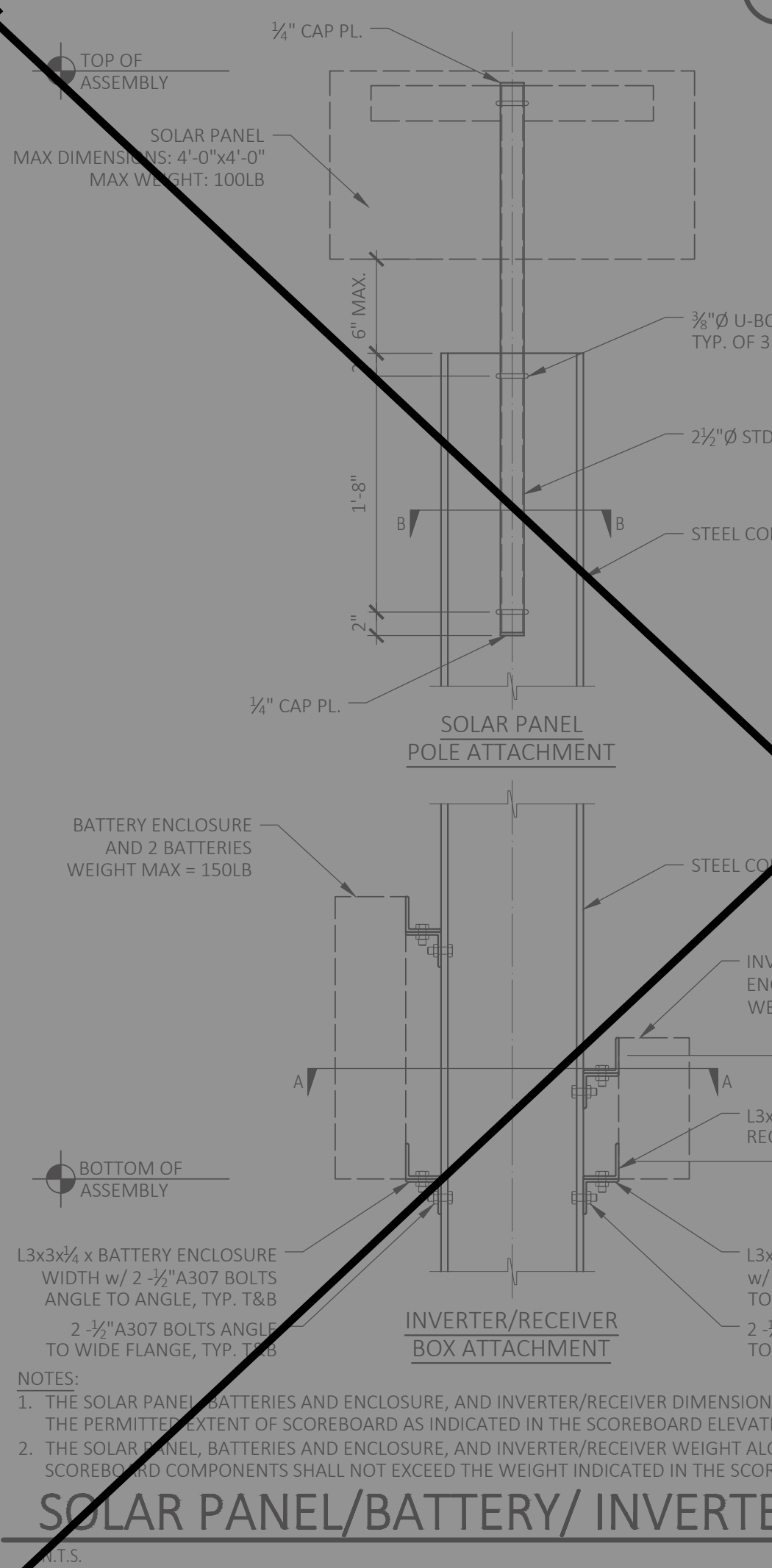
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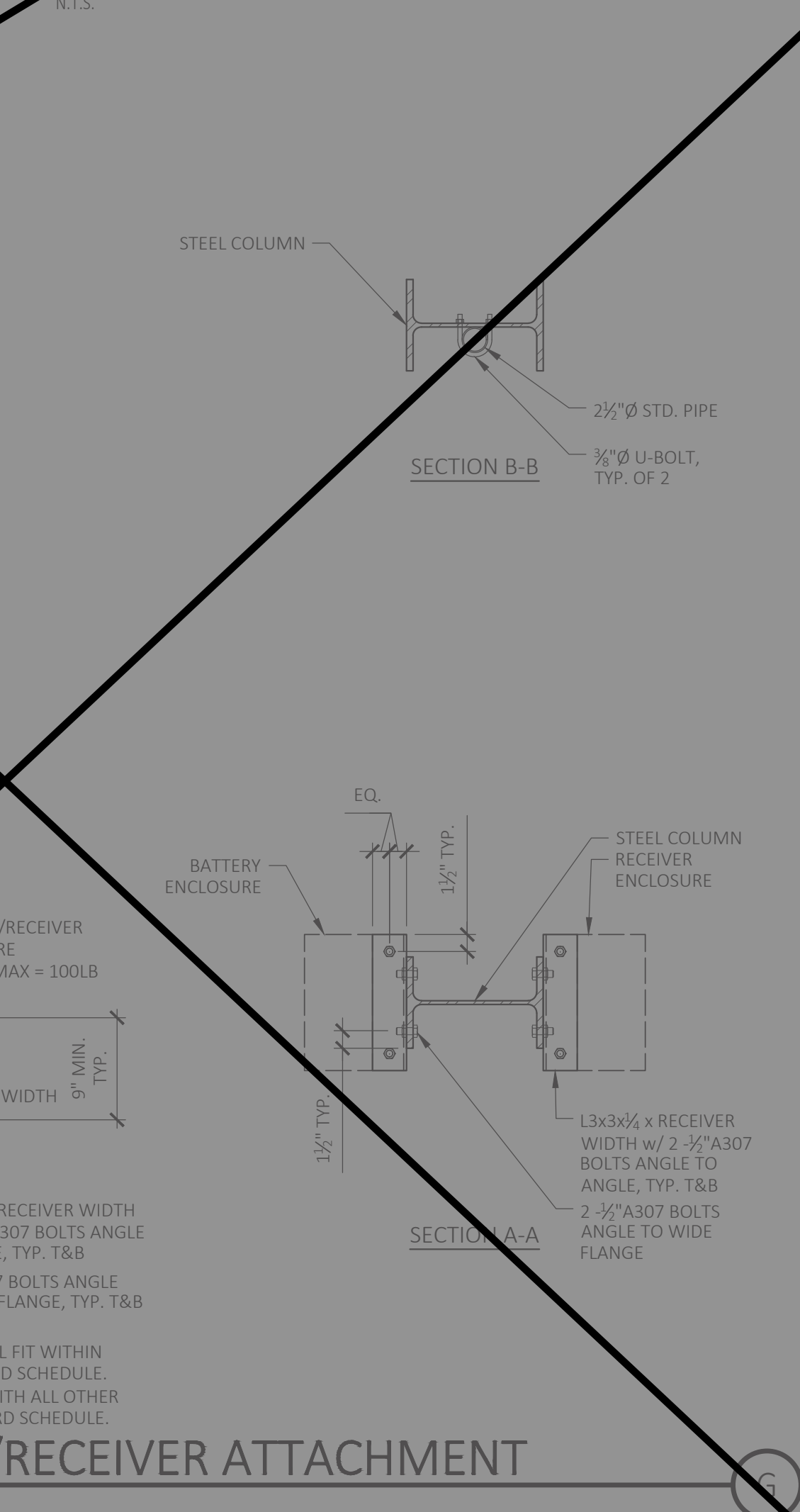
VIDEO BOARD BRACKET ATTACHMENT



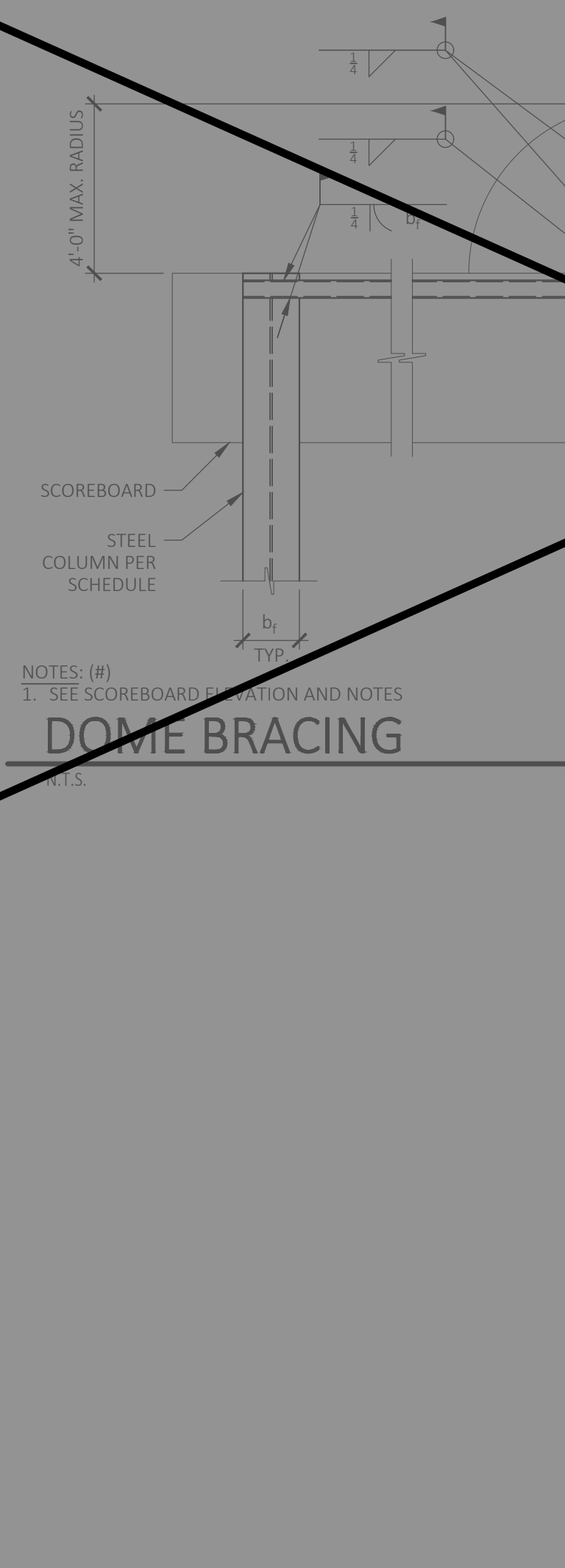
SOLAR PANEL/BATTERY/ INVERTER/RECEIVER ATTACHMENT



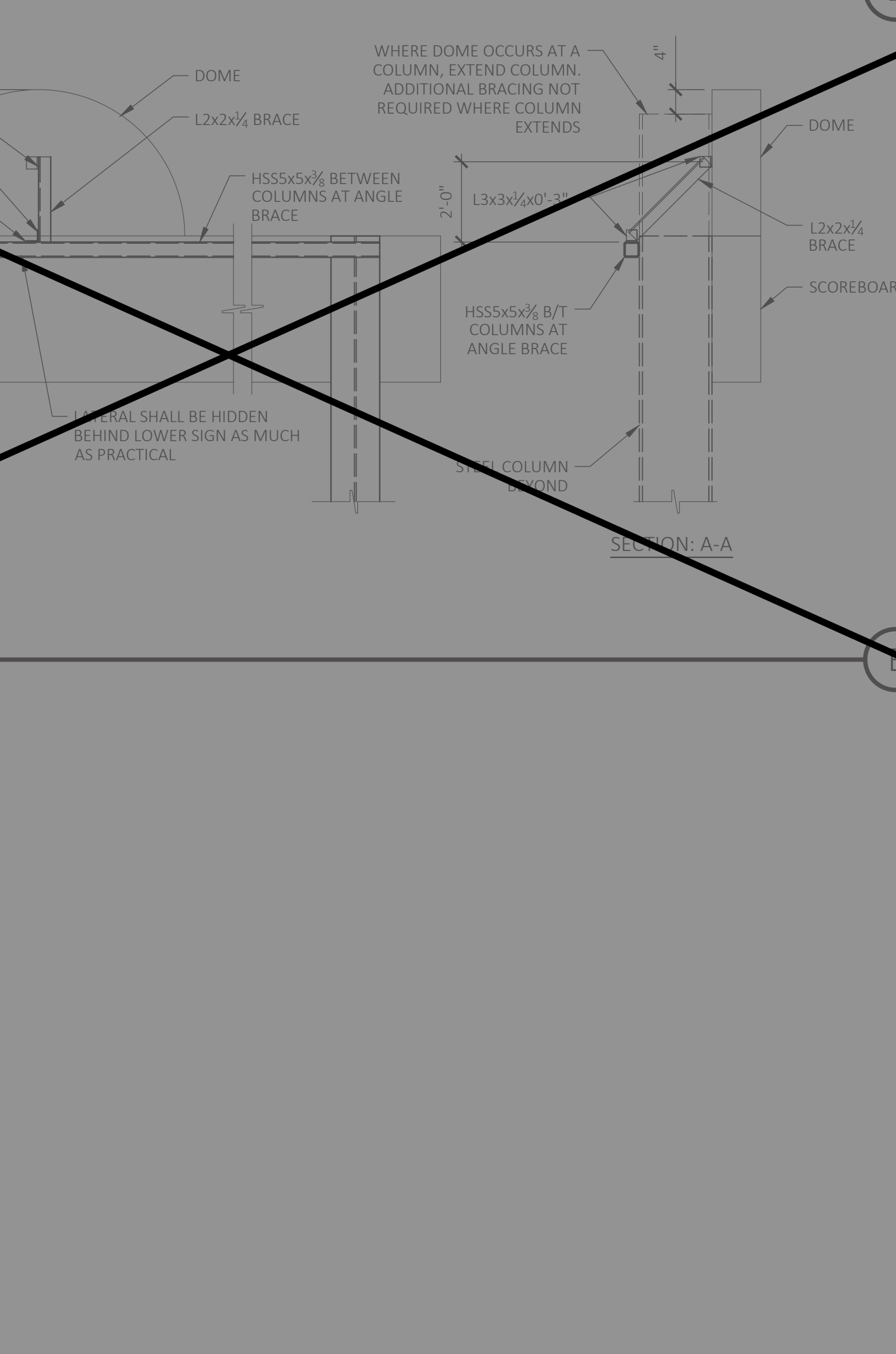
SOLAR PANEL/BATTERY/ INVERTER/RECEIVER ATTACHMENT



DOME BRACING



DOME BRACING



DOME BRACING

HSS SCHEDULE		
COLUMN SPACING, S	HSS SIZE	W/THICKNESS
10'-0"	HSS5x3 1/2	LLV
12'-0"	HSS4x3 1/2	LLV
14'-0"	HSS4x3 1/2	LLV

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-121752 INC.  
REVIEWED FOR:  SS  FLS  ACS   
DATE: 3/19/2024

**SSG**  
structural engineers

REGISTERED PROFESSIONAL ENGINEER  
STRUCTURAL  
No. 5405  
STATE OF CALIFORNIA

DATE SIGNED: 08.09.2023  
PC SEOR REAL

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THANK YOU FOR YOUR INTEREST IN NEVCO SCOREBOARD PRODUCTS.

**NEVCO**

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

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DIV. OF THE STATE ARCHITECT  
APP: 04-23-0000 PC  
REVIEWED FOR:  SS  FLS  ACS   
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

# ROMTEC

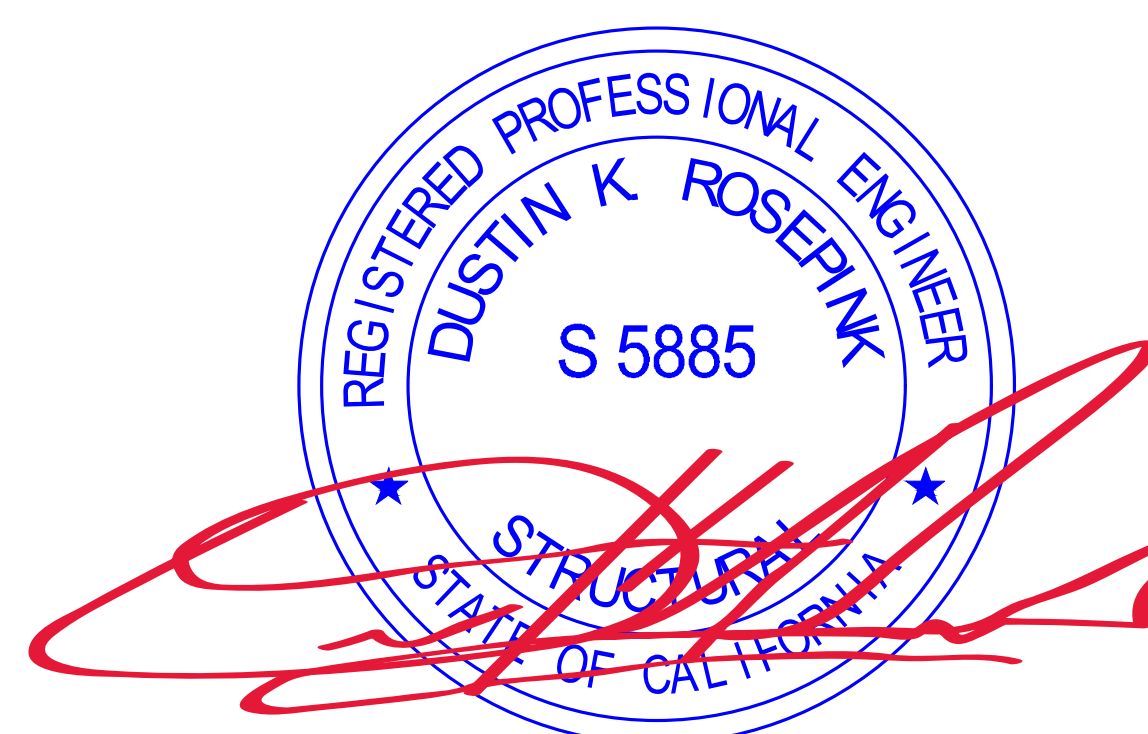
18240 NORTH BANK ROAD - ROSEBURG, OR 97470  
 (541)-496-3541 FAX (541)-496-0803

## 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

SHEET	CONTENTS
G0	TITLE SHEET / REVISION & SHEET SCHEDULE
G1	GENERAL NOTES / SYMBOL LEGEND
G2	DESIGN CRITERIA AND CODE SUMMARY
G3	DESIGN CRITERIA AND CODE SUMMARY
A1.1	FLOOR PLAN
A1.2	ADA CLEARANCES
A1.3	INTERIOR ELEVATIONS VIEWS
A2.1	EXTERIOR ELEVATION VIEWS
A2.2	EXTERIOR ELEVATION VIEWS
A3.1	SECTION VIEWS
A4.1	WALL FINISH SCHEDULE (INTERIOR/EXTERIOR)
A5.1	DOOR SCHEDULE
A5.2	DOOR DETAILS
A6.1	VENT SCHEDULE & DETAILS
S7.1	FOUNDATION PLAN
S7.2	FOUNDATION DETAILS
S7.3	FOUNDATION DETAILS
S7.4	FOUNDATION DETAILS
S8.1	STRUCTURAL CMU PLAN
S8.2	STRUCTURAL CMU REBAR LAYOUT
S8.3	STRUCTURAL CMU DETAILS
S8.4	STRUCTURAL CMU ELEVATIONS
S9.1	ROOF FRAMING PLAN
S10.1	ROOF CONNECTION DETAILS
S10.2	ROOF CONNECTION DETAILS
S10.3	ROOF CONNECTION DETAILS
R1	ROOFING PLAN
R2	ROOFING DETAILS
P1	PLUMBING SCHEDULE
P2	PLUMBING PLAN
E1	ELECTRICAL SCHEDULE
E2	ELECTRICAL PLAN
E3	ELECTRICAL RISER DETAILS
E4	ELECTRICAL PANEL SCHEDULE
E5-12	TITLE 24 DOCUMENTS



3	02/23/24	CR	G0,A1.1,A1.2,A1.3,A2.1,A2.2,A5.2,S7.1,S7.2,S7.3,S8.3,S9.1,S10.3,R1,R2,E1,E2,E4
2	01/18/24	CR	G0,G1,G2,G3,A1.1,A1.2,A2.2,A3.1,A5.2,A6.1,S7.2,S7.3,S7.4,S8.1,S8.2,S8.3,S8.4,S9.1,S10.1,S10.2,S10.3,P1,P2,E1,E2,E3,E4
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

REV.	DATE	BY	DESCRIPTION
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## REVISION SCHEDULE

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

PLAN SET # JFK01

DATE: 10/16/2023

REV.	DATE	BY
1	10-23-2023	CR
2	01-18-2024	CR
3	02-23-2024	CR

DRAWN BY: CR

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

ASTEL ENGINEERING  
 26030 Acero, Suite 200  
 Mission Viejo, CA 92691  
 www.asteleng.com  
 Project #:

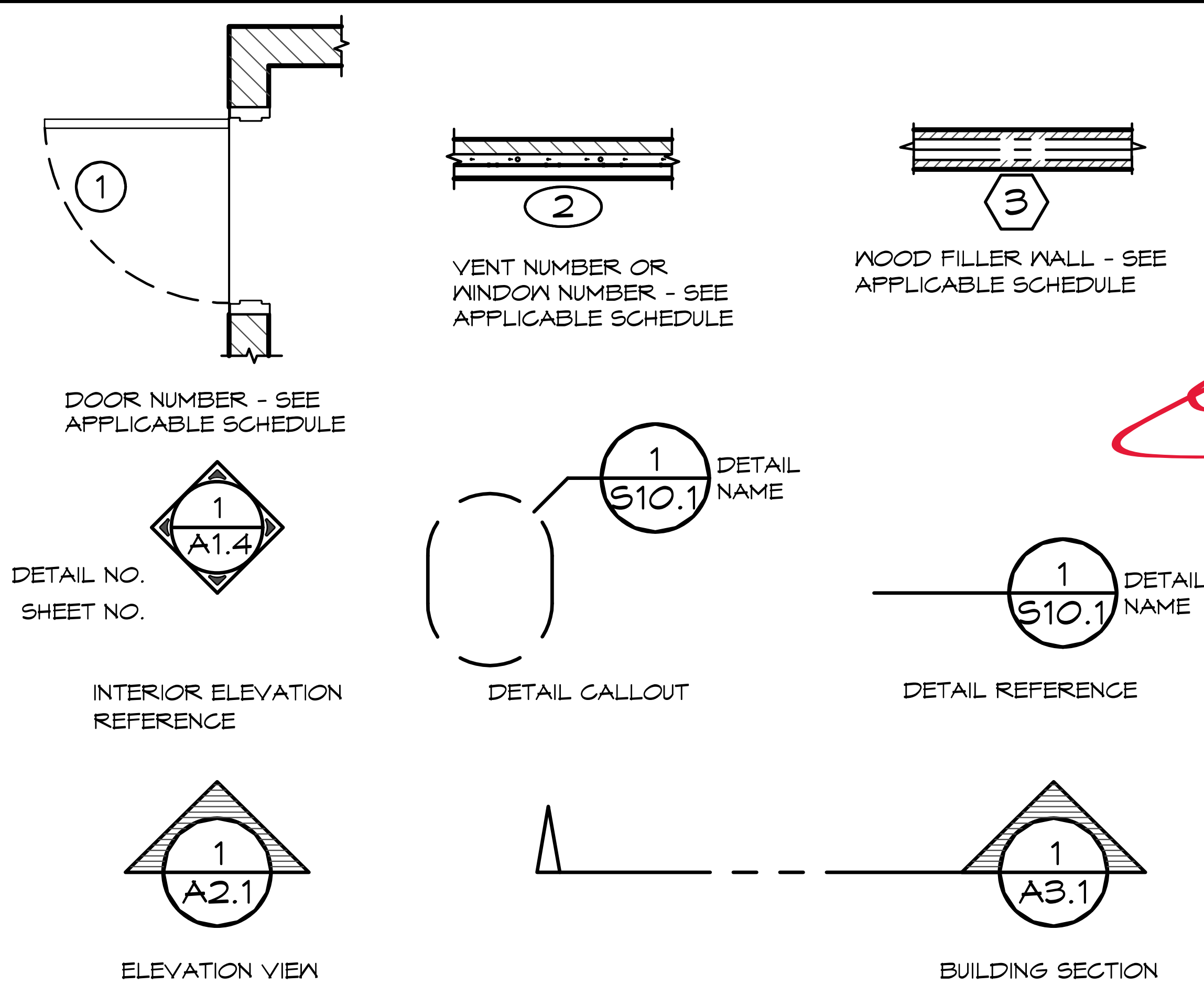
TITLE SHEET  
 REVISION & SHEET SCHEDULE

SHEET NO.

GO



**SYMBOL LEGEND**



**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.4. REFER TO GEOTECHNICAL REPORT BY UES, No. 4630.2300076.0016, DATED OCTOBER 17, 2023.
- A. 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.  
 B. 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 4 FT MAXIMUM LIFTS AND NOT BE WETTED. THE MORTAR TO BE USED SHALL BE TYPE S 1800 PSI MORTAR CONFORMING TO ASTM C270.  
 MASONRY (CONCRETE) GROUT: 2000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS 9" +/- 1" SLUMP, WITH MAX 1/2" AGGREGATE, AND TESTED IN ACCORDANCE TO MEET ACI 318. 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 OR BTR DOUGLAS FIR, UNO. GLU-LAM BEAMS SHALL BE GRADE 24F-V4 OR AS STATED IN NOTE #10.
- 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.)
- GLUE LAMINATED BEAMS SHALL BE DOUGLAS FIR-LARCH, U.N.O. WITH 1-1/2" OUTER AND CORE LAMINATIONS AND SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR STRUCTURAL GLUED LAMINATED TIMBER", AITC/A.P.A.-E.N.S. #117, ANSI/AITC A-190.1 AND ALL APPROVED SUPPLEMENTS THEREOF.  
 GLUE LAMINATED BEAM SHALL HAVE THE FOLLOWING GRADES (U.N.O. ON PLANS):  
 - FOR SIMPLY SUPPORTED BEAMS.....COMBINATION 24F-V4  
 - FOR CANTILEVERED BEAMS OR BEAMS CONTINUOUS OVER SUPPORTS.....COMBINATION 24F-V8 (20F-V12 FOR AC/AC)  
 BEAMS SHALL CONFORM TO A.P.A.-E.N.S. OR A.I.T.C. INDUSTRIAL APPEARANCE GRADE, U.N.O.  
 MOISTURE CONTENT OF THE LUMBER AT THE TIME OF GLUING SHALL NOT BE MORE THAN 16% WITH A MAX VARIATION OF 5% IN ANY BEAM.  
 BEAMS SHALL BEAR LEGIBLE A.P.A.-E.N.S. OR A.I.T.C. GRADE STAMP. IF GRADE STAMP ILLEGIBLE OR REQUIRED BY BUILDING OFFICIALS, A "CERTIFICATE OF INSPECTION" BY AN APPROVED INSPECTION AGENCY SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT PRIOR TO ERECTION.

**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 VOLTAGE
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		

**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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**ROMTEC**

ASTEL ENGINEERING  
 26030 Acero, Suite 200  
 Mission Viejo, CA 92691  
 Project #:

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

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

SHEET TITLE: GENERAL NOTES SYMBOL LEGEND

PLAN SET#	JFK01	
DATE:	10/16/2023	
REVISIONS		
REV.	DATE	BY
1	10-23-2023	CR
2	01-18-2024	CR

SHEET NO. **G1**

**CODES AND STANDARDS**

- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), TITLE 24 PART 1
- 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) 95 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 = 95 MPH  
 EXPOSURE: C  
 INTERNAL PRESSURE COEFF = ±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 602-16)**

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

(a) R=REQUIRED, NR=NOT REQUIRED

TABLE 4 -- MINIMUM SPECIAL INSPECTION REQUIREMENTS			
MINIMUM SPECIAL INSPECTION	REQUIRED FOR QUALITY ASSURANCE (a)		
	INSPECTION TASK	LEVEL 3	REFERENCE FOR CRITERIA
1. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:			
A. PROPORTION OF SITE-PREPARED MORTAR	P		ART. 2.1, 2.6 A, & 2.6 C
B. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES	P		ART. 2.4 B & 2.4 H
C. GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES	P		ART. 3.4 & 3.6 A
D. PRESTRESSING TECHNIQUE	P		ART. 3.6 B
E. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	C		ART. 2.1 C.1
F. SAMPLE PANEL CONSTRUCTION	C		ART. 2.1 C.1
2. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:			
A. GROUT SPACE	C		ART. 3.2 D & 3.2 F
B. PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES	P	SEC. 10.8 & 10.9	ART. 2.4 & 3.6
C. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	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	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	P		ART. 1.5
B. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION	P		ART. 3.3 B
C. SIZE AND LOCATION OF STRUCTURAL MEMBERS	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.	C	SEC. 1.2.1(e), 6.2.1 & 6.3.1	
E. WELDING OF REINFORCEMENT	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))	P		ART. 1.8 C & 1.8 D
G. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	C		ART. 3.6 B
H. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	C		ART. 3.5 & 3.6 C
I. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	C		ART. 3.3 B.9 & 3.3 F.1.b
4. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	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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**ROMTEC**  
 DESIGN CRITERIA AND CODE SUMMARY

PROJECT: 2022 SIERRA II COMPACT 16'-8" W/ MECH RM  
 JOHN F. KENNEDY RR FACILITY  
 SACRAMENTO, CALIFORNIA  
 PLAN SET# JFK01  
 DATE: 10/16/2023  
 REVISIONS  
 REV. DATE BY  
 1 10-23-2023 CR  
 2 01-18-2024 CR  
 DRAWN BY: CR



SHEET NO.

G2

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California Building Code 2022 (Vol 1 & 2)

1705A.3 Concrete Construction

Special inspections and tests of concrete construction shall be performed in accordance with this section and Table 1705A.3.

**Exception:** Special inspections and tests shall not be required for concrete patios, driveways and sidewalks, on grade.

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

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD*	CBC REFERENCE
1. Inspect <i>and test</i> reinforcement, including prestressing tendons, and verify placement. a. Reinforcement in special moment frames, boundary elements of special structural walls and coupling beams. b. All other reinforcement	X —	— X	ACI 318: Ch. 20, 25.2, 25.3, 25.5.1, 26.6.1–26.6.3, 26.13.1, 26.13.3.2, 26.13.3.3	1705A.3.9, 1908A.1, 1910A.2, 1910A.3, [DSA-SS/CC] 1909.2.4, 1909.2.5, 1909.4.1
2. Reinforcing bar welding: a. Verify weldability of reinforcing bars other than ASTM A706; b. Inspect single-pass fillet welds, maximum $5/16$ " ; not defined in 2.d or 2.e. c. Inspect all other welds. d. Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements and coupling beams of special structural walls of concrete and shear reinforcement. e. Shear reinforcement.	— — X X X	X X — — —	AWS D1.4  ACI 318: 18.2.8, 25.5.7, 26.6.4, 26.13.1.4, 26.13.3.2, 26.13.3.3	1705A.3.1, 1903A.8
3. Inspect anchors cast in concrete.	—	X	ACI 318: 17.8.2, 26.7.2, 26.8.2, 26.13.1, 26.13.3.3	—
4. Inspect <i>and test</i> anchors post-installed in hardened concrete members. <sup>b</sup> a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads. b. Mechanical anchors and adhesive anchors not defined in 4.a.	X —	— X	ACI 318: 17.8.2.4, 26.7.2, 26.13.1, 26.13.3.2 ACI 318: 17.8.2.2, 26.7.2, 26.13.1, 26.13.3.3	1705A.3.8, 1910A.5, [DSA-SS/CC] 1909.2.7, 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, 26.13.3.2	1903A.5, 1903A.6, 1903A.7, 1904A.1, 1904A.2, 1910A.1, [OSHDP 1 & 4] 1908A.1, [DSA-SS/CC] 1909.2.1, 1909.2.2, 1909.2.3
6. Prior to <i>and during</i> concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	—	ASTM C31 ASTM C172, ACI 318: 26.4, 26.5, 26.12	1705A.3.5, 1705A.3.6, 1705A.3.9, 1905A.1.17, [DSA-SS/CC] 1909.3.9
7. Inspect concrete and shotcrete placement for proper application techniques.	X	—	ACI 318: 26.5, 26.13, ACI 506: 3.4	1705A.3.9, 1905A.1.15, 1905A.1.16, [DSA-SS/CC] 1909.3.7, 1909.3.8
8. Verify maintenance of specified curing temperature and techniques.	—	X	ACI 318: 26.5.3-26.5.5, 26.13.3.3	—
9. Inspect prestressed concrete for: a. Application of prestressing forces; and b. Grouting of bonded prestressing tendons.	X X	— —	ACI 318: 26.10.2, 26.13.1, 26.13.3.2	1705A.3.4
10. Inspect erection of precast concrete members.	—	X	ACI 318: 26.9, 26.13.1, 26.13.3.3	—
11. For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category D, E or F, inspect such connections and reinforcement in the field for: a. Installation of the embedded parts b. Completion of the continuity of reinforcement across joints. c. Completion of connections in the field.	X X X	— — —	ACI 318: 26.13.1.3  ACI 550.5	—
12. Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5.	—	X	ACI 318: 26.13.1.3	—
13. 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, 26.13.3.3	—
14. Inspect formwork for shape, location and dimensions of the concrete member being formed.	—	X	ACI 318: 26.11.1.2(b), 26.13.3.3	1908A.3, [DSA-SS/CC] 1909.4.3

For SI: 1 inch = 25.4 mm.

- a. Where applicable, see Section 1705A.13.
- 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.



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

PROJECT TITLE: DESIGN CRITERIA AND CODE SUMMARY

SHEET NO. G3

DRAWN BY: CR

DATE: 10/16/2023

REVISIONS

REV. DATE BY

2 01-18-2024 CR

PLAN SET# JFK01


JOHN F. KENNEDY RR FACILITY  
SACRAMENTO, CALIFORNIA

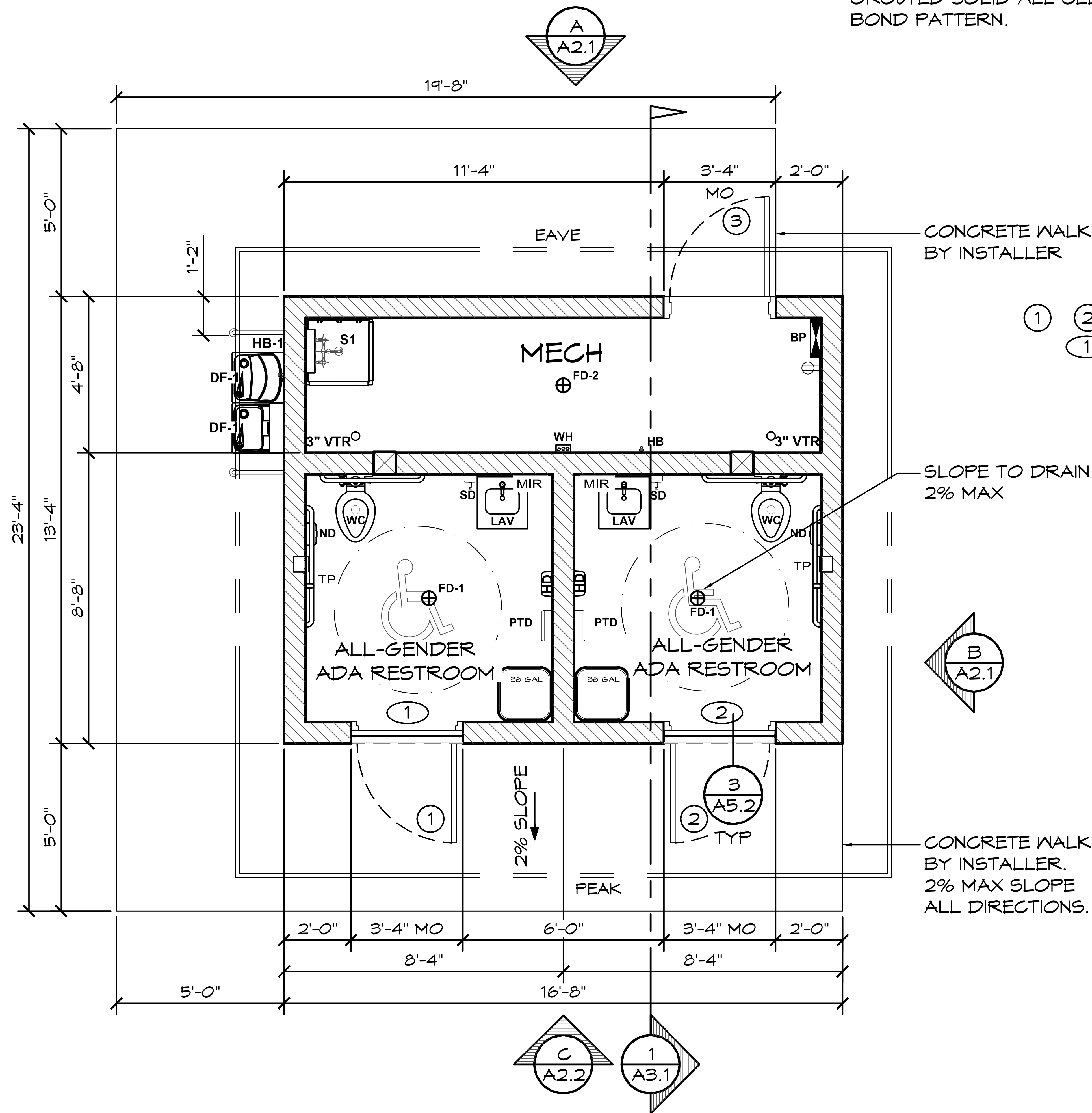
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# WALL TYPE SCHEDULE

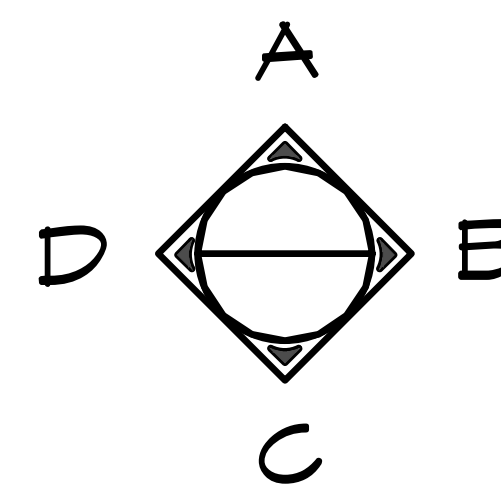
 8" REINFORCED CONCRETE MASONRY BLOCK WALL WITH MORTAR JOINTS, GROUTED SOLID ALL CELLS RUNNING BOND PATTERN.



## NOTES:

1. SEE SHEET A1.2 FOR ADA CLEARANCES.
2. SEE SHEET A5.1 FOR DOOR LEGEND.
3. SEE SHEET A6.1 FOR VENT LEGEND
4. SEE FOUNDATION PLANS AND DETAILS FOR SLAB DESIGN AND DETAILS.
5. 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  
**JOHN F. KENNEDY RR FACILITY**  
**SACRAMENTO, CALIFORNIA**  
 SHEET TITLE: FLOOR PLAN

PLAN SET#  
**JFK01**

DATE:  
**10/16/2023**

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