SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

PARKWAY ELEMENTARY - SHADE STRUCTURE

4720 FOREST PKWY
SACRAMENTO, CA 95823

GENERAL NOTES

1. CONSTRUCTION DOCUMENTS DESCRIBE THE PRODUCTS, SYSTEMS, QUANTITIES, CONFIGURATION, AND PERFORMANCE SPECIFICATIONS THAT DELIVER THE OVERALL DESIGN INTENT OF THE PROJECT.
2. THE CONSTRUCTION DOCUMENT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY BOTH.
3. PERFORMANCE BY THE CONSTRUCTION TEAM SHALL BE CONSISTENT WITH THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AS NECESSARY TO DELIVER THE INDICATED RESULTS OF THE DESIGN INTENT.
4. VERIFY ALL DIMENSIONS, LOCATIONS OF EXISTING UTILITIES, AND CONDITIONS ON THE JOB SITE PRIOR TO THE START OF WORK OR PORTIONS OF THE WORK. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE ACTUAL FIELD CONDITIONS AND THE CONSTRUCTION DOCUMENTS. EXISTING CONDITIONS ARE INDICATED AS A RESULT OF FIELD OBSERVATIONS, INFORMATION SHOWN ON AVAILABLE DOCUMENTS AND FIELD CONDITIONS AT THE TIME OF PREPARATION.
5. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL GOVERNING CODES, ORDINANCES, REGULATIONS AND LAWS.
6. THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS AND SCAFFOLDING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
7. WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.
8. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.
9. DETAILS MARKED 'TYPICAL' SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY NOTED OTHERWISE.
10. ENACT ALL MEASURES TO PROTECT AND SAFEGUARD ALL EXISTING ELEMENTS TO REMAIN FROM BEING DAMAGED. REPLACE OR REPAIR EXISTING ELEMENTS DAMAGED BY THE EXECUTION OF THIS CONTRACT TO EQUAL OR BETTER CONDITION.
11. PRIOR TO THE START OF WORK THE CONTRACTOR SHALL COORDINATE BETWEEN THE REQUIREMENTS OF ALL DISCIPLINES HEREIN AND BETWEEN THE REQUIREMENTS OF ALL DRAWINGS AND SPECIFICATIONS IN ORDER THAT ALL ITEMS SATISFACTORILY RELATE TO ONE ANOTHER. NOTIFY ARCHITECT IMMEDIATELY REGARDING ANY ITEMS THAT CANNOT BE COORDINATED.
12. CONTRACTOR SHALL EXCERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, CONDUIT, ETC. AND TO PREVENT HAZARD TO PERSONNEL AND/OR TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
13. CHANGES TO THE APPROVED DRAWINGS AND/OR SPECIFICATIONS SHALL BE MADE BY ADDENDA OR A CHANGE ORDER APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24 CCR.
14. CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE EXISTING OR NEW STRUCTURAL ELEMENTS SHALL NOT TO BE STARTED UNTIL THE DETAILS HAVE BEEN REVIEWED AND APPROVED BY THE ARCHITECT, AND STRUCTURAL ENGINEER OF RECORD.
15. ALL WORK SHALL CONFORM TO 2022 EDITION TITLE 24, CALIFORNIA CODE OF REGULATION (CCR)
16. THE LIMIT OF WORK LINE SHOWS THESE DRAWINGS IS AN APPROXIMATE LIMIT OF WORK ONLY. REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL WORK, INCLUDING BUT NOT LIMITED TO INSTALLATION OF CONDUIT, MANHOLES, PULLBOXES, ETC WHICH ARE TO BE PART OF THIS WORK, ALTHOUGH OCCURING OUTSIDE OF SHOWN LIMIT OF WORK LINES.
17. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.
18. A FULL TIME "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. INSPECTOR TO BE CLASS 1.
19. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT. THE REPORTS SHALL BE SUBMITTED TO ARCHITECT OF RECORD, STRUCTURAL ENGINEER OF RECORD, OWNER, INSPECTOR OR RECORD, AND THE DSA FIELD ENGINEER. THE REPORTS OF ANY FAILURES OF TESTS AND INSPECTIONS ARE TO BE SUBMITTED TO DSA DISTRICT STRUCTURAL ENGINEER.
20. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
21. SAFETY DURING DEMOLITION AND CONSTRUCTION SHALL COMPLY WITH CFC CHAPTER 33.
22. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION, OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR,, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR.
23. CONTRACTOR IS TO REVIEW AND COMPLY WITH ALL REQUIREMENTS AND MITIGATION MEASURES SET FORTH IN BOTH THE ENVIRONMENTAL IMPACT REPORT (ADDENDUM TO THE ENVIRONMENTAL IMPACT REPORT | SCH NO. 2002071120) INCLUDING ATTACHED BIOLOGICAL RESOURCES TECHNICAL REPORT.
24. NO DUMPING OR PLACING OF ANY DIRT OR DEBRIS SHALL BE ALLOWED OUTSIDE OF THE CONTRACTORS LIMIT OF WORK AREA.
25. ALL WORK SHALL CONFORM TO 2022 TITLE 24, CALIFORNIA COADE OF REGULATIONS (CCR)
26. SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE CONSIDERED AS A CONSTRUCTION CHANGE DOCUMMENT OR ADDENDUM, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION PER DSA IR A-6 AND SECTION 338(C) PART 1, TITLE 24 CCR.

CODES

PARTIAL LIST OF APPLICABLE CODES

2022	CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2022	CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2021 INTERNATIONAL BUILDING CODE VOLUMES 1 & 2 AND 2022 CALIFORNIA AMENDMENTS)
2022	CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022	CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R. (2021 UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022	CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2021 UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022	CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
2022	CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022	CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR (2021 INTERNATIONAL EXISTING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022	CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
2022	CALIFORNIA REFERENCED STANDARDS, PART 12,TITLE 24 C.C.R.

TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 72	NATIONAL FIRE ALARM & SIGNALING CODE (CA AMENDED)	2022 ED.
UL 464	AUDIBLE SIGNAL APPLIANCES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES	2003 ED.
UL 521	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 ED. (R2005)
UL 1971	STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED	2002 ED. (R2018)

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE, CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

STATEMENT OF GENERAL CONFORMANCE

(X) THE DRAWINGS OR SHEETS LISTED ON THE INDEX SHEET
( ) THIS DRAWING PAGE OF SPECIFICATIONS/CALCULATIONS

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

1) DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
2) COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344" OF TITLE 24, PART 1. (TITLE 24, PART 1, SECTION 4-317 (B))

I CERTIFY THAT:

THE PC APPROVED MANUFACTURER DRAWINGS PC#02-121213 LISTED ON THE INDEX SHEET ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN INTENT, AND THEY HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

SIGNATURE — DATE: 2/9/24
ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE

JEFFREY ALAN GRAU
PRINT NAME

C-14648 — LICENSE NUMBER
05-31-25 — EXPIRATION DATE

NOTE:
THIS PROJECT SHALL NOT BE CERTIFIED UNTIL DSA APPLICAITON #02-121661 IS CERTIFIED

PROJECT DESCRIPTION

1. SELECTIVE SITE DEMOLITION AND PREP
2. CONSTRUCTION OF (1) 30'X64' P.C. SHADE STRUCTURE
3. UPGRADES TO PATH OF TRAVEL AND RESTROOMS

DEFERRED ITEMS

NONE

ALTERNATES

1. ALT. #1 - REMOVE AND REPLACE (E) BASEBALL BACKSTOP AND ASSOCIATED CONCRETE AND BENCHES, SEE 1/A1.1

SHEET INDEX

SYMBOL LEGEND

NORTH ARROW
TICK INDICATES PLAN NORTH
ARROW INDICATES TRUE NORTH

ELEVATION CALLOUT (TYPICAL FOR EXTERIOR)
1 / AX.XX
LOCATION ON SHEET
SHEET WHERE ELEVATION IS DRAWN

ELEVATION CALLOUT (TYPICAL FOR INTERIOR)
A1, A2, A3, A4 / AX.XX
LOCATION ON SHEET
SHEET WHERE ELEVATION IS DRAWN

SECTION CALLOUT
SIM / 1 / AX.XX
INDICATES A SIMILAR CONDITION
LOCATION ON SHEET
SHEET WHERE SECTION IS DRAWN

DETAIL CALLOUT
SIM / 1 / AX.XX
INDICATES A SIMILAR CONDITION
LOCATION ON SHEET
SHEET WHERE SECTION IS DRAWN

CONTROL OR DATUM POINT
FIRST FLOOR +0' - 0"
NAME OF ELEVATION (IF APPLICABLE)
ELEVATION ABOVE FINISHED FLOOR

DOOR CALLOUT
101A — DOOR NUMBER

INTERIOR FINISH CALLOUT
FA — MATERIAL FINISH TYPE (SEE FINISH SCHEDULE)

WINDOW CALLOUT
09-WF1 — WINDOW NUMBER (SEE WINDOW SCHEDULE)

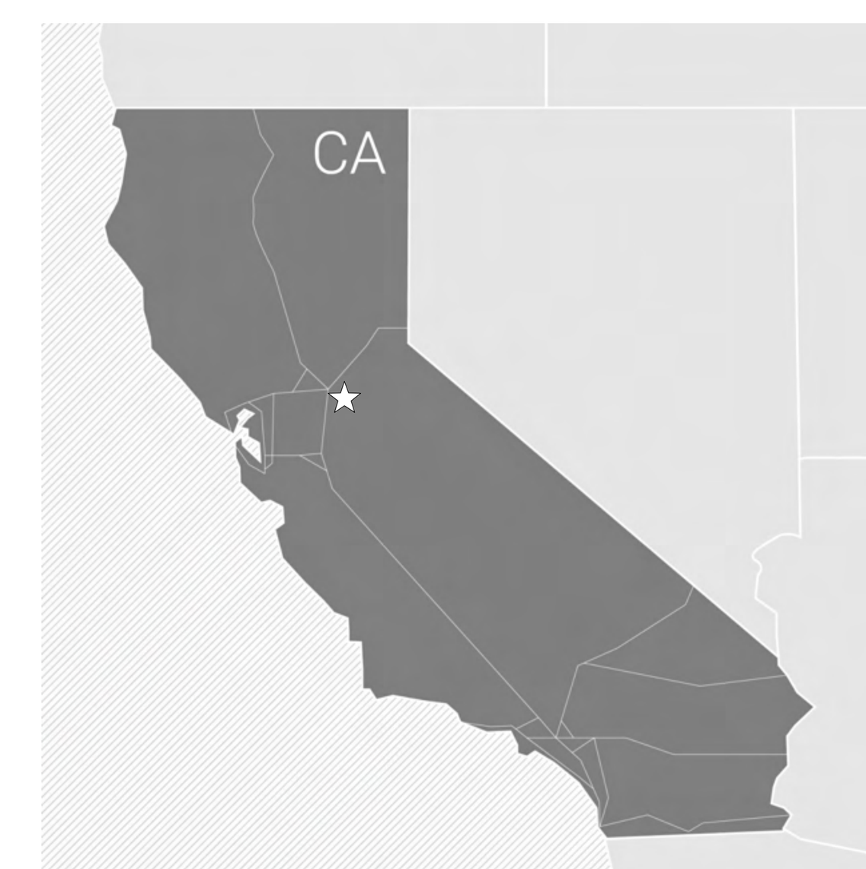
KEYNOTE
? — KEYNOTE NUMBER (SEE LEGEND ON SHEET)

ABBREVIATIONS

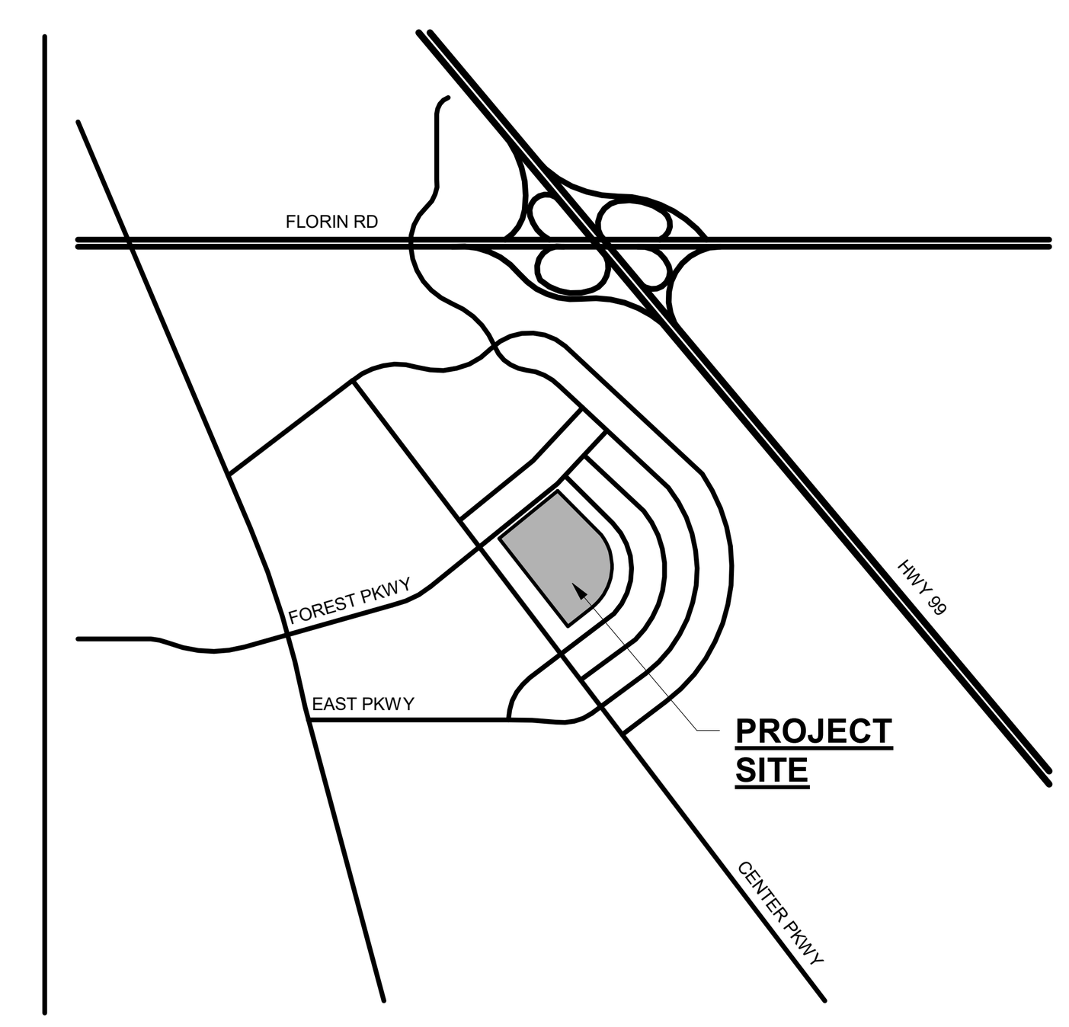
(E)	EXISTING
AB	ANCHOR BOLT
AC	ASPHALTIC CONCRETE PAVING
ACC	ACCESS/ACCESSIBLE
ACP	ACOUSTICAL CEILING PANEL
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJACENT/ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AGG	AGGREGATE
AHU	AIR HANDLING UNIT
ARCH	ARCHITECTURAL
ATT	ATTENUATION
AUTO	AUTOMATIC
BD	BOARD
BLCG	BLOCKING
BO	BOTTOM OF
BUR	BUILT UP ROOFING
CABT	CABINET
CF	CUBIC FEET
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED
CG	CORNER GUARD
CJ	CONTROL JOINT
CL	CENTER LINE
CLF	CHAIN LINK FENCE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLUMN
COMP	COMPRESSION / COMPOSITE
CF	CUBIC FEET
COORD	COORDINATE
CORR	CORRUGATED
CT	CERAMIC TILE
CTSK	COUNTER SKUNK
CW	CURTAINWALL
DEPR	DEPRESSED / DEPRESSION
DF	DRINKING FOUNTAIN
DIM	DIMENSION
DISP	DISPENSER
DS	DOWNSPOUT
DTL	DETAIL
DW	DISHWASHER
DWGS	DRAWINGS
E/W	EACH WAY
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION / ELEVATOR
ENCL	ENCLOSE / ENCLOSURE
EOS	EDGE OF SLAB
EP	ELECTRICAL PANEL
EQ	EQUAL
ESC	EXCUTCHEON
EWC	ELECTRIC WATER COOLER
EXP	EXPOSED
FA	FIRE ALARM
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER W/ CABINET
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FSH	FLAT HEAD SCREW
FIN	FINISH
FLR	FLOOR
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FP	FIREPROOFING
FR	FIRE RATED
FRG	FIRE RATED GLASS
FRP	FIBERGLASS REINFORCED PLASTIC
FRT	FIRE RETARDANT TREATED
FS	FINISH SURFACE
FTG	FOOTING
GB	GRAB BAR
GFRC	GLASS FIBER REINFORCED CONCRETE
GL	GLASS TYPE
GLB	GLUE LAMINATED BEAM
GYP BD	GYPSUM BOARD
GYP PLAS	GYPSUM PLASTIC
HB	HOSE BIBB
HD	HEAVY DUTY
HDR	HEADER
HDWR	HARDWARE
HGT	HEIGHT
HM	HOLLOW METAL
HP	HIGH POINT
HSS	HOLLOW STEEL SECTION
ID	INSIDE DIAMTER
INT	INTERIOR
INV	INVERT
LANDS	LANDSCAPE
LAV	LAVATORY
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LT WT	LIGHT WEIGHT
LVR	LOUVER
MACH	MACHINE
MB	MACHINE BOLT
MDF	MEDIUM DENSITY FIBERBOARD
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MFR	MANUFACTURER
MH	MANHOLE
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL
NIC	NOT IN CONTRACT
NR	NON RATED
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
O/	OVER
O/A	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OFVI	OWNER FURNISHED, VENDOR INSTALLED
OH	OPPOSITE HAND
OPER	OPERABLE
OPNG	OPENING
ORD	OVERFLOW ROOF DRAIN
P/L	PROPERTY LINE
PA	PUBLIC ADDRESS
PAF	POWDER ACTUATED FASTENER PAVING
PCC	PORTLAND CEMENT CONCRETE PAVING
PED	PEDESTRIAN
PERF	PERFORATED
PERIM	PERIMETER
PERP	PERPENDICULAR
PH	PANIC HARDWARE
PIV	POST INDICATOR VALVE
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLUMB	PLUMBING
PNL	PANEL
PNT	PAINT / PAINTED
POC	POINT OF CONNECTION
POLY ISO	POLYISOCYANURATE
PREFIN	PREFINISHED
PREP	PREP / PREPARATION
PTC	POST TENSIONED CONCRETE
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PTS	PNEUMATIC TUBE STATION / SYSTEM
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QT	QUARRY TILE
R	RADIUS, RISER
RB	RESILIENT BASE
RD	ROOF DRAIN
RECEPT	RECEPTACLE
REF	REFERENCE
REFL	REFLECT(ED), (IVE)
REFL	REFLECT(ED), (IVE)
REFR	REFRIGERATOR
REINF	REINFORCE/REINFORCED/ REINFORCEMENT
REM	REMOVE
RH	ROUND HEAD
RHS	ROUND HEAD SCREW
RO	ROUGH OPENING
ROW	RIGHT OF WAY
SCH	SCHEDULE (FOR PIPE)
SCHED	SCHEDULE / SCHEDULING
SD	STORM DRAIN / SOAP DISPENSER
SECT	SECTION
SG	SAFETY GLASS
SHT	SHEET
SHTG	SHEATHING
SMS	SHEET METAL SCREW
SND	SANITARY NAPKIN DISPOSAL
SOV	SHUT OFF VALVE
SPEC	SPECIFICATIONS
SS	STAINLESS STEEL
STC	SOUND TRAMISSION CLASS
STL	STEEL
STSMS	SELF TAPPING SHEET METAL SCREW
SUSP	SUSPENDED
SV	SHEET VINYL
SYM	SYMMETRICAL
T	TREAD
T&B	TOP AND BOTTOM
TO	TOP OF
TOC	TOP OF CURB / CONCRETE
TOP	TOP OF PARAPET
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TS	TACKABLE SURFACE
U/C	UNDER CABINET (OR COUNTER
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
VAC	VACUUM
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VIF	VERIFY IN FIELD
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W/	WITH
W/O	WITHOUT
WB	WOOD BASE
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WGT	WEIGHT
WH	WATER HEATER
WP	WATERPROOFING/WALL PROTECTION
WR	WATER RESISTANT
WRGB	WATER RESISTANT GYPSUM BOARD
WS	WOOD SCREW
WSCT	WAINSCOT
WWF	WELDED WIRE FABRIC

NOTE:
OTHER ABBREVIATIONS USED ON THESE DRAWINGS ARE CONSIDERED STANDARDS IN THE BUILDING INDUSTRY. CONTACT ARCHITECT FOR NECESSARY CLARIFICATION.

STATE MAP



VICINITY MAP



OVERALL SITE PLAN

AGENCY APPROVAL:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121825 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 02/15/2024

Sacramento City
UNIFIED SCHOOL DISTRICT

HMC Architects
3186069000
2101 CAPITOL AVENUE, SUITE 10000
SACRAMENTO, CA 95816 6
(916) 368-7990 / WWW.HMCARCHITECTS.COM

LICENSED ARCHITECT
JEFFREY ALAN GRAU
C-14648
5/31/25
RENEWAL DATE
STATE OF CALIFORNIA

PROJECT TEAM

OWNER
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
5735 47TH AVE, SACRAMENTO, CA 95824

ARCHITECT
HMC ARCHITECTS
2101 CAPITOL AVE, SUITE 100, SACRAMENTO, CA 95816
(916) 368-7990

CIVIL
WARREN CONSULTING ENGINEERS
1117 WINDFIELD WAY #110, EL DORADO HILLS, CA 95762
T (916) 985-1870

ELECTRICAL
EDGE ELECTRICAL CONSULTING
431 30TH STREET, SACRAMENTO, CA 95816
(916) 256-2460

FACILITY:
4720 FOREST PKWY
SACRAMENTO, CA 95823

PROJECT:
PARKWAY ELEMENTARY - SHADE STRUCTURE

SHEET NAME:
COVER SHEET

CONSTRUCTION DOCUMENTS

DATE: 2/09/2024
CLIENT PROJ NO:
SHEET:
A0.1

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PLEASE RECYCLE

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAGE SIZE

FIRE AUTHORITY SITE PLAN

1

1" = 30'-0"

LEGEND

X	EXISTING BUILDING
	(E) 20' EMERGENCY FIRE ACCESS LANE
	(E) CHAINLINK FENCE
	(E) ORNAMENTAL FENCE
	FIRE HYDRANT
	PROPERTY LINE
	LINE OF ROOF OVERHEAD

DSA-810 FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

PROJECT INFORMATION	
School District:	SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
Project name / school:	PARKWAY ELEMENTARY - SHADE STRUCTURE
Project address:	4720 FOREST PKWY, SACRAMENTO, CA 95823

	FIRE & LIFE SAFTEY INFORMATION	ALTERNATE ACCEPTED	
1.	Has a fire hydrant flow test been performed within the past 12 months? ***(If yes, provide a copy of the test data)***	Yes ☐	No ☒
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☐	No ☒
3.	Is the project located within a designated fire hazard serverity zone as established by Cal-Fire? ***(If yes, indicate fire hazard zone classification below)***	Yes ☐	No ☒
	Refer to the following for fire hazard zone locations: ***www.fire.ca.gov/fire_prevention/fire_prevention_ wildland_zones_maps***	Moderate ☐ / High ☐	Very High ☐
	Wildland Interface Area (WIFA) ***(If any designations are checked, project design must meet the requirements of CBC Chapter 7A)***		WIFA ☐

	CONDITION MEANS AND METHODS RESOLUTION	ALTERNATE ACCEPTED Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements			X	
4a.	**Acceptable Alternative:** Emergency vehicle and personel access as proposed by the architect is acceptable for providing fire suppression and protection of life and property				
5.	**Fire Hydrants:** Number and spacing does not meet CFC requirements			X	
5a.	**Acceptable Alternative:** Number of fire hydrants and spacing as proposed by the architect is acceptable for fire suppression and protection of life and property.				
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.			X	
6a.	**Acceptable Alternative:** The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				
7.	Location of fire department connection(s) serving fire sprinkler system or standpipe system does not meet CFC requirements.			X	
7a.	**Acceptable Alternative:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

School District Acceptance of Acceptable Design Alternates
By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements as indicated by one of more of the conditions indicated at items 4a, 5a, 6a, or 7a, for providing fire and life safety protection of life and property.

Accepted by: ______________________ Title: ______________

Signature: ______________________ Date: ______________

LOCAL FIRE AUTHORITY (LFA) INFORMATION	
LFA Agency Name:	
LFA Review Official:	
Title:	Work Phone:
Work Email:	
LFA Reviewer's Signature:	Date:

AGENCY APPROVAL:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121825 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 02/15/2024

Sacramento City
UNIFIED SCHOOL DISTRICT

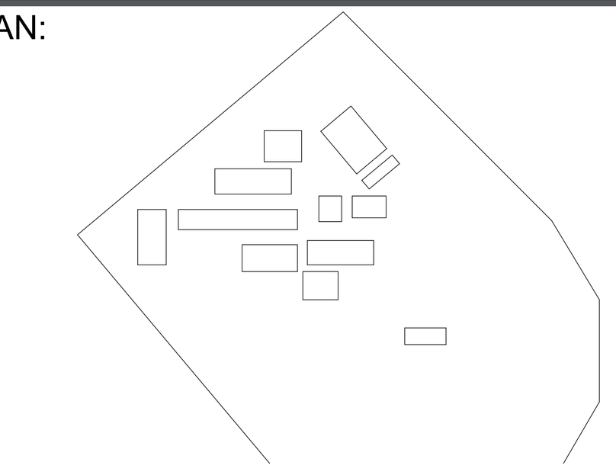
HMC Architects
3186069000
2101 CAPITOL AVENUE, SUITE 100
SACRAMENTO, CA 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT
JEFFREY ALAN GRAU
C-14648
5/31/25
RENEWAL DATE
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEY PLAN:



FACILITY:

**4720 FOREST PKWY
SACRAMENTO, CA 95823**

PROJECT:

PARKWAY ELEMENTARY - SHADE STRUCTURE

SHEET NAME:

FIRE AUTHORITY SITE PLAN

CONSTRUCTION DOCUMENTS

DATE: 2/09/2024 CLIENT PROJ NO:

SHEET:

A0.2

PLEASE RECYCLE

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121825 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 02/15/2024

CIVIL ABBREVIATIONS AND LEGEND

ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED ON THESE PLANS.

AB	AGGREGATE BASE
AC	ASPHALTIC CONCRETE
AD	AREA DRAIN
APN	ASSESSOR'S PARCEL NUMBER
ARV	AIR RELEASE VALVE
ASB	AGGREGATE SUB-BASE
BO	BLOW-OFF VALVE
BV	BUTTERFLY VALVE
BW	BACK OF WALK
C/L	CENTERLINE
CB	CATCH BASIN
CL	CLASS
CMP	CORRUGATED METAL PIPE
CATV	CABLE TELEVISION
CO	CLEANOUT
COMM	COMMUNICATION
CONC.	CONCRETE
CONST.	CONSTRUCT
CR	CURB RETURN
CS	CONCRETE SURFACE
DC	DOUBLE CHECK VALVE
DDC	DOUBLE DETECTOR CHECK VALVE
DG	DECOMPOSED GRANITE
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DWG	DRAWING
DS	DOWNSPOUT
E	ELECTRIC
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
EX	EXISTING
FS	FIRE SERVICE LINE
FDC	FIRE DEPARTMENT CONNECTION
FL	FLOWLINE
FM	SANITARY SEWER FORCE MAIN
FF	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
G	GAS
GR	GRATE ELEVATION
GRD	GRADE ELEVATION
GV	GATE VALVE
HB	HOSE BIBB
HBD	HEADER BOARD
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HP	HIGH POINT
INV	PIPE INVERT ELEVATION
JP	JOINT UTILITY POLE
LF	LINEAL FEET
LIP	LIP OF GUTTER
LT	LEFT
MS	MOWSTRIP
NTS	NOT TO SCALE
OH	OVERHEAD
PCC	PORTLAND CEMENT CONCRETE
PD	PLANTER DRAIN
PIV	POST INDICATOR VALVE
P/L	PROPERTY LINE
PP	POWER POLE
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
R	RADIUS
RIM	MANHOLE RIM ELEVATION (SOLID COVER)
RP	REDUCED PRESSURE BACKFLOW PREVENTER
RW	RIGHT OF WAY
SCH	SCHEDULE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SG	SUBGRADE ELEVATION
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
STD	STANDARD
S/W	SIDEWALK
T	TELEPHONE
TC	TOP OF CURB
TD	TRENCH DRAIN
TDCB	TRENCH DRAIN CATCH BASIN
TP	TELEPHONE POLE
TR	TOP OF RAMP ELEVATION
TRW	TOP OF RETAINING WALL
TSW	TOP OF SEAT WALL
TW	TOP OF WALK ELEVATION
U	UTILITY
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
VCP	VITRIFIED CLAY PIPE
W	WATER
W/	WITH
W/O	WITHOUT
WV	WATER VALVE

LEGEND

NOTE: NOT ALL SYMBOLS MAY BE USED ON THESE PLANS.

PROPOSED GRADING & DRAINAGE SYMBOLS:

8" SD	STORM DRAIN LINE (SIZE AND FLOW SHOWN)
	STORM DRAIN MANHOLE (SDMH)
	CATCH BASIN (CB)
	DROP INLET (DI)
	AREA DRAIN (AD)
	PLANTER DRAIN (PD) OR FLOOR DRAIN (FD)
CO	STORM DRAIN CLEANOUT
99.99	ELEVATION
FF=100.00	FINISHED FLOOR ELEVATION
PAD=99.33	BUILDING PAD ELEVATION
	CONCRETE SIDEWALK
	GRADED DIRECTION FOR DRAINAGE FLOW
	SWALE
	SLOPE
	TREE TO BE REMOVED
	RETAINING WALL

PROPOSED SANITARY SEWER SYMBOLS:

6" SS	SANITARY SEWER LINE (SIZE AND FLOW SHOWN)
	SANITARY SEWER MANHOLE (SSMH)
CO	SEWER CLEANOUT FLUSHER BRANCH

PROPOSED WATER SYMBOLS:

8" W	WATER LINE & SIZE
8" FS	FIRE LINE & SIZE
8" DW	DOMESTIC WATER LINE & SIZE
8" RW	RECLAIMED WATER LINE & SIZE
8" IRR	IRRIGATION SERVICE LINE & SIZE
8" NP	NON POTABLE WATER LINE & SIZE
8" SP	FIRE SPRINKLER SERVICE LINE & SIZE
	GATE VALVE
M	WATER METER
FH	FIRE HYDRANT ASSEMBLY
FDC	FIRE DEPARTMENT CONNECTION
DC	DETECTOR CHECK VALVE
DDC	DOUBLE DETECTOR CHECK VALVE
RP	REDUCED PRESSURE BACKFLOW PREVENTER
	BUTTERFLY VALVE
1"	AIR RELEASE VALVE + SIZE
1"	BLOW-OFF VALVE + SIZE
PIV	POST INDICATOR VALVE

DEMOLITION GENERAL NOTES

1. IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THE GEOTECHNICAL INVESTIGATION REPORT OR ARE ENCOUNTERED DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER AND THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.
2. NO BURNING OR BLASTING SHALL BE PERMITTED.
3. ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.
4. ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.
5. ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.
6. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN IN THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY THE DISTRICT TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK IN ORDER TO VERIFY TO THE GREATEST EXTENT POSSIBLE THE EXISTING UTILITY LINES, CONFLICTS AND PROPOSED UTILITY CONNECTION POINTS.
7. THE SCHOOL DISTRICT SHALL HAVE SALVAGE RIGHTS TO ANY DEMOLISHED ITEMS SHOWN HEREON. THE CONTRACTOR SHALL GIVE THE DISTRICT NOTICE 7 DAYS PRIOR TO THE START OF DEMOLITION. THE DISTRICT SHALL MOVE ANY RETAINED ITEMS OUT OF THE CONTRACTORS WORK AREA, UNLESS ANOTHER ARRANGEMENT IS MADE WITH THE CONTRACTOR. ANY REMAINING ITEMS BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. ANY ITEMS NOT SHOWN FOR REMOVAL SHALL REMAIN AND SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION TO A REASONABLE EXTEND.
8. EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REPLACED WITH NEW BOX/COVER AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
9. ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
10. EXISTING UTILITY STRUCTURES AND PIPING NOT SHOWN ON DEMOLITION PLAN TO BE REMOVED SHALL REMAIN AND BE PROTECTED.

UTILITY VERIFICATION NOTE

PRIOR TO THE START OF CONSTRUCTION, VERIFY AND POTHOLE ALL UTILITY POINTS OF CONNECTION FOR LOCATION, DEPTH, AND SIZE. IF CONFLICT IS FOUND, CONTACT THE ENGINEER IMMEDIATELY FOR DIRECTION.

IRRIGATION DEMOLITION NOTE

WITHIN LANDSCAPE AREAS TO BE DEMOLISHED THERE MAY BE EXISTING IRRIGATION LINES NOT SHOWN ON THIS PLAN. CONTRACTOR SHALL REMOVE LATERAL LINES AND HEADS ENCOUNTERED. MAIN LINES AND CONTROL WIRES MAY ONLY BE REMOVED PROVIDED THAT ROUTING IS KNOWN AND REMOVAL WILL NOT DEACTIVATE AN IRRIGATION SYSTEMS INTENDED TO REMAIN. IF CONFLICT IS FOUND, CONTACT THE ENGINEER FOR DIRECTION.

GENERAL NOTES:

1. THE TYPES, LOCATIONS, SIZES, AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBERS OF UNDERGROUND SERVICE ALERT (USA) TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING TOLL FREE 1-800-227-2600, OR 811.

811 Know what's below. Call before you dig.

2. WARREN CONSULTING ENGINEERS, INC. (WCE) ASSUMES NO RESPONSIBILITY FOR ERRORS IN PHYSICAL LOCATION OF IMPROVEMENTS, HORIZONTAL OR VERTICAL, IF STAKED BY OTHERS. IN ADDITION, ANY SUCH ERRORS IN PHYSICAL LOCATION MAY AFFECT THE INTENDED DESIGN OF SUCH IMPROVEMENTS AND WCE CANNOT BE HELD RESPONSIBLE FOR SUCH CONDITIONS WHICH ARE A RESULT OF ERRORS IN SURVEYING, OR IMPROPER CONSTRUCTION.
3. IF SUBSURFACE CULTURAL RESOURCES, REMAINS, AND/OR ARTIFACTS ARE UNCOVERED DURING PROJECT CONSTRUCTION, ALL WORK IN THE VICINITY SHALL BE STOPPED UNTIL SUCH ITEMS CAN BE ASSESSED BY AN APPROPRIATE MEMBER OF THE COUNTY ENVIRONMENTAL IMPACT SECTION STAFF.
4. CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY: THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS: AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
5. THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY FOR ALL EXCAVATIONS OF 5 FEET OR MORE IN DEPTH.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY PRE-BID AND PRE-CONSTRUCTION SITE INSPECTION, AND/OR OBSERVATIONS ON THE SITE TO PRE-DETERMINE ALL HIS/HER MEANS AND METHODS NECESSARY TO COMPLETE THE IMPROVEMENTS SHOWN ON THESE PLANS AND PER THE PROJECT SPECIFICATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE, AND INCLUDE IN HIS/HER CONTRACT, ALL MEANS AND METHODS NECESSARY TO PERFORM A COMPLETE AND ACCEPTABLE JOB.
7. WHERE IMPROVEMENTS LIE WITHIN AN EXISTING DEVELOPED AREA, CONTRACTOR SHALL USE CAUTION WHEN ACCESSING THE SITE THROUGH THESE EXISTING IMPROVEMENTS. IT IS THE CONTRACTORS RESPONSIBILITY TO PROTECT ANY SUCH EXISTING IMPROVEMENTS OUTSIDE THE PROJECT BOUNDARY, OR EXISTING IMPROVEMENTS WITHIN THE BOUNDARY WHICH ARE TO REMAIN. PROPER PRECAUTIONS SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER.
8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP DETAILED RECORDS OF MINOR CHANGES OR ADJUSTMENTS MADE DURING CONSTRUCTION (WHICH WERE NOT FORMALLY ISSUED). UPON PROJECT COMPLETION, THESE RECORDS AND/OR INFORMATION SHALL BE PROVIDED TO THE OWNER AND WARREN CONSULTING ENGINEERS, INC. UNLESS AN OFFICIAL "AS-BUILT" SET OF PLANS IS A REQUIREMENT OF THE CONTRACT. IF AS-BUILT PLANS ARE A REQUIREMENT OF THE CONTRACT, REFER TO SPECIFICATIONS FOR AS-BUILT DELIVERABLE REQUIREMENTS.
9. IN VEHICULAR PATHWAYS, EXISTING ASPHALTIC AND/OR CONCRETE SURFACES SHALL BE CUT TO A NEAT AND STRAIGHT LINE, PARALLEL OR PERPENDICULAR TO THE VEHICULAR TRAVELED PATH. THIS IS TYPICALLY THE ROADWAY CENTERLINE, BUT MAY VARY. THAT SAWCUT EDGE SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION SO A CLEAN EDGE REMAINS FOR PATCH BACK.. IF EDGE IS DAMAGED, A NEW SAW CUT WILL BE REQUIRED. THE EXPOSED EDGE SHALL BE "TACKED" WITH EMULSION PRIOR TO PAVING.
10. NO BURNING OR BLASTING SHALL BE ALLOWED ONSITE UNLESS SPECIFICALLY ADDRESSED ON PLANS, OR SPECIFICALLY APPROVED AND COORDINATED WITH THE ARCHITECT, ENGINEER, AND LOCAL AGENCY OR OTHER ADMINISTRATIVE AUTHORITY.
11. SUBGRADE AND RESULTING FINISHED GRADE SHALL BE CONSTRUCTED SMOOTH AND UNIFORM BETWEEN SPOT ELEVATIONS, CONTOURS OR OTHER STRUCTURE ELEVATIONS SHOWN ON GRADING OR OTHER PLANS. NO MOUNDS, RUTS, DEPRESSIONS OR OTHER GRADING DEFICIENCIES WILL BE ALLOWED UNLESS SPECIFICALLY SHOWN ON PLANS.
12. ON NEW WATER SYSTEMS, SERVICE LATERALS SHALL BE MADE USING APPROPRIATE "TEE" AND "WYE" FITTINGS. SADDLE TAPS WILL ONLY BE ALLOWED WHEN MAKING CONNECTIONS TO EXISTING WATER MAINS.
13. CURING COMPOUND SHALL BE APPLIED IN A CONTINUOUS SOLID WET FLOWING COAT. ANY "SPOTTY" APPLICATIONS SHALL BE RECOATED IMMEDIATELY. APPLICATION SHALL BE INSPECTED BY PROJECT INSPECTOR DURING APPLICATION.
14. EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE ADDITIONAL SCORE OR EXPANSION JOINTS TO PREVENT UNCONTROLLED CRACKING. THOSE ADDITIONAL JOINTS MAY OR MAY NOT BE SPECIFICALLY SHOWN ON PLANS BUT SHALL BE PROVIDED BY THE CONTRACTOR.
15. EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE A MINOR ADJUSTMENT OF REBAR WITHIN CONCRETE TO ALLOW FOR SUCH STRUCTURE. THAT REBAR ADJUSTMENT MAY NOT BE SPECIFICALLY SHOWN ON PLANS.
16. NO MORE THAN 1 GALLON OF WATER PER YARD OF CONCRETE CAN BE ADDED TO THE TRUCK AFTER ARRIVAL TO PROJECT SITE. THE ADDITION OF WATER CAN ONLY BE ADDED UNDER THE SUPERVISION OF THE CONCRETE INSPECTOR OR LABORATORY TECHNICIAN.
17. WHEN PUMPING CONCRETE FOR PLACEMENT, ABSOLUTELY NO WATER IS TO BE ADDED TO PUMP HOPPER. ANY WATER ADDED TO HOPPER WILL BE REASON FOR CONCRETE REJECTION AT THE CONTRACTORS EXPENSE.
18. ALL CONTRACTION/CONSTRUCTION JOINTS "CJ" SHALL BE 1/4 THE SLAB THICKNESS DEEP, BUT NO LESS THAN 1" FOR CONTROLLING OF CRACKING. CONTRACTOR SHALL EXERCISE CAUTION WHEN FINAL TROWELING OF CONCRETE SO AS NOT TO FILL IN THESE JOINTS WITH CONCRETE CREAM. ANY CRACKS OUTSIDE OF JOINTS WHICH WERE CONSTRUCTED LESS THAN 1" DEEP, SHALL BE CAUSE FOR CONCRETE SLAB(S) TO BE REMOVED AND REPLACE AT CONTRACTORS EXPENSE.
19. ANY SCREED BOARDS SET WITHIN CONCRETE SLABS SHALL BE AN "OVERHEAD SCREED" SO THERE IS NO INTERFERENCE WITH THE PLACEMENT AND ALIGNMENT OF SLAB REINFORCING.
20. 3-1/2" FELT JOINTS WILL NOT BE ACCEPTED. PROVIDE A FULL 4" FELT JOINT FOR 4" SLAB CONSTRUCTION, AND A 6" FELT JOINT FOR A 6" SLAB SLAB CONSTRUCTION.
21. SHOULD ANY SHRINKAGE CRACKS OCCUR OUTSIDE OF EITHER THE EXPANSION JOINTS OR CRACK CONTROL JOINTS, THEN THE CONCRETE SLAB SHALL BE SAWCUT AT THE NEAREST JOINTS ON EACH SIDE OF THE CRACK AND THE CONCRETE SECTION SHALL BE, REMOVED AND REPLACED. NEW CONCRETE SHALL BE DOWELED INTO EXISTING CONCRETE PER DRAWING DETAIL.
22. ALL AREAS DISTURBED BY GRADING OPERATIONS WHETHER SHOWN ON THE DRAWINGS OR NOT SHALL BE HYDRO SEEDED UNLESS OTHERWISE NOTED. HYDRO SEEDING SHALL CONFORM TO LOCAL CITY/COUNTY STANDARDS.
23. REPAIR OR PATCHING OF GALVANIZED METALS, SUCH AS AFTER WELDING GALVANIZED COMPONENTS, SHALL BE MADE USING A ZINC COMPOSITION "HOT STICK" APPLICATION PER ASTM A 780-01. GALVANIZING PAINTS WILL NOT BE ALLOWED.

GENERAL PAVING SURFACE NOTES:

1. PROVIDE EQUIVALENT OF MEDIUM BROOM FINISH AT SLOPES UP TO 5.99%, TYPICAL. PROVIDE EQUIVALENT OF HEAVY BROOM FINISH AT SLOPES 6% AND GREATER. REFER TO SPECIFICATIONS.
2. ALL NEW PEDESTRIAN WALKWAYS (NON-RAMP) SHALL BE SLOPED NO GREATER THAN 2.0%, AND NO LESS THAN 0.75% IN ANY DIRECTION, UNLESS SPECIFICALLY LABELED OTHERWISE. ALL CONCRETE SHALL MEET THE FOLLOWING SLOPE REQUIREMENTS:
   - NO GREATER THAN 5% SLOPE IN THE DIRECTION OF TRAVEL.
   - NO GREATER THAN 2% SLOPE CROSSING THE DIRECTION OF TRAVEL.
   - NO GREATER THAN 2% SLOPE IN ANY DIRECTION IN COURTYARD OR PLAZA AREAS.

CIVIL SHEET INDEX

LANDSCAPE/IRRIGATION NOTE:

GENERAL CONTRACTOR IS REQUIRED TO HIRE A LANDSCAPE SUBCONTRACTOR TO PERFORM ALL LANDSCAPE AND IRRIGATION REPAIRS.

Sacramento City UNIFIED SCHOOL DISTRICT

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SACRAMENTO, CA 95816
916 368 7990 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE

REGISTERED PROFESSIONAL ENGINEER
ANTHONY J. TASSANO
NO. C74696
CIVIL
STATE OF CALIFORNIA

WCE
WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

KEYNOTES

NOTES

FACILITY:
4720 FOREST PKWY
SACRAMENTO, CA 95823

PROJECT:
PARKWAY ELEMENTARY - SHADE STRUCTURE

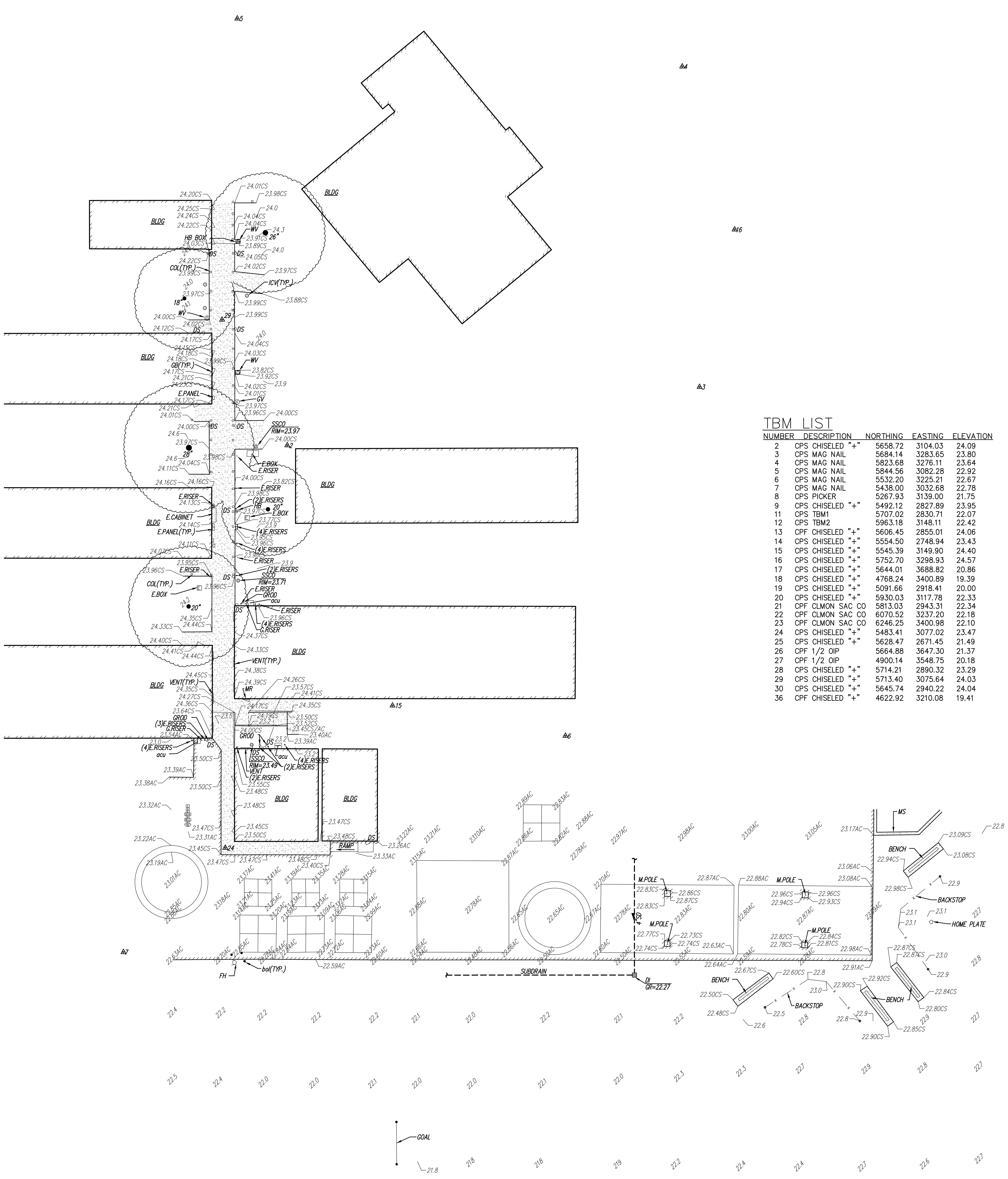
SHEET NAME:
CIVIL GENERAL NOTES AND ABBREVIATIONS

CONSTRUCTION DOCUMENTS

2/09/2024	CLIENT PROJ NO:

SHEET:
C0.1

FILENAME: I:\23-163\CIVIL\DWG\23-163-C01.DWG PLOTTED: Tuesday, January 09, 2024



TBM LIST

NUMBER	DESCRIPTION	NORTHING	EASTING	ELEVATION
2	CPS CHISELED "+"	5658.72	3104.03	24.09
3	CPS MAG NAIL	5684.14	3283.65	23.80
4	CPS MAG NAIL	5823.68	3276.11	23.64
5	CPS MAG NAIL	5844.56	3082.28	22.92
6	CPS MAG NAIL	5532.20	3225.21	22.67
7	CPS MAG NAIL	5438.00	3032.68	22.78
8	CPS PICKER	5267.93	3139.00	21.75
9	CPS CHISELED "+"	5492.12	2827.89	23.95
11	CPS TBM1	5707.02	2830.71	22.07
12	CPS TBM2	5963.18	3148.11	22.42
13	CPF CHISELED "+"	5606.45	2855.01	24.06
14	CPS CHISELED "+"	5554.50	2748.94	23.43
15	CPS CHISELED "+"	5545.39	3149.90	24.40
16	CPS CHISELED "+"	5752.70	3298.93	24.57
17	CPS CHISELED "+"	5644.01	3688.82	20.86
18	CPS CHISELED "+"	4768.24	3400.89	19.39
19	CPS CHISELED "+"	5091.66	2918.41	20.00
20	CPS CHISELED "+"	5930.03	3117.78	22.33
21	CPF CLMON SAC CO	5813.03	2943.31	22.34
22	CPF CLMON SAC CO	6070.52	3237.20	22.18
23	CPF CLMON SAC CO	6246.25	3400.98	22.10
24	CPS CHISELED "+"	5483.41	3077.02	23.47
25	CPS CHISELED "+"	5628.47	2671.45	21.49
26	CPF 1/2 OIP	5664.88	3647.30	21.37
27	CPF 1/2 OIP	4900.14	3548.75	20.18
28	CPS CHISELED "+"	5714.21	2890.32	23.29
29	CPS CHISELED "+"	5713.40	3075.64	24.03
30	CPS CHISELED "+"	5645.74	2940.22	24.04
36	CPF CHISELED "+"	4622.92	3210.08	19.41

EXISTING TOPOGRAPHY

- = PROPERTY LINE
- = CENTERLINE
- = EASEMENT
- = PROPERTY CORNER FOUND AS NOTED
- = PROPERTY CORNER NOTHING FOUND OR SET
- 123 = TEMPORARY BENCHMARK (SEE TBM LIST FOR INFO)
- = SWALE OR DRAINAGE FLOW
- = DRAINAGE FLOW
- = FENCE (TYPE NOTED)
- = TREE (SIZE/TYPE INDICATED)
- = SLOPE
- 100 = CONTOUR
- = CONCRETE SURFACE
- = EDGE OF ASPHALT
- = EDGE OF BUILDING
- = SIGN
- = POST OR BOLLARD
- 99.9 = GROUND ELEVATION
- 99.99 = HARD SURFACE ELEVATION

EXISTING UTILITIES

- 12"SD = STORM DRAIN LINE (SIZE & DIRECTION OF FLOW)
- 12"SD = STORM DRAIN LINE (RECORD INFORMATION)
- 12"SD = STORM DRAIN LINE (UNDERGROUND LOCATING)
- = STORM DRAIN MANHOLE
- = STORM DRAIN CLEANOUT
- = DROP INLET
- = AREA DRAIN
- RWL = RAIN WATER LEADER
- DS = DOWNSPOUT
- 12"SS = SANITARY SEWER LINE (SIZE & DIRECTION OF FLOW)
- 12"SS = SANITARY SEWER LINE (RECORD INFORMATION)
- 12"SS = SANITARY SEWER LINE (UNDERGROUND LOCATING)
- = SANITARY SEWER MANHOLE
- = SANITARY SEWER CLEANOUT
- W = WATER LINE (SIZE INDICATED)
- W = WATER LINE (RECORD INFORMATION)
- W = WATER LINE (UNDERGROUND LOCATING)
- = WATER MANHOLE
- = WATER VALVE
- = WATER METER
- = WATER BOX
- = IRRIGATION CONTROL VALVE
- = FIRE HYDRANT
- = BACKFLOW PREVENTER
- = SPRINKLER
- = HOSE BIBB
- OH–E = OVERHEAD ELECTRIC LINE
- E = UNDERGROUND ELECTRIC LINE
- E = UNDERGROUND ELECTRIC LINE (RECORD INFORMATION)
- E = UNDERGROUND ELECTRIC LINE (UNDERGROUND LOCATING)
- = ELECTRIC MANHOLE
- = UTILITY POLE (WITH GUY WIRE)
- = ELECTRIC METER
- = ELECTRIC BOX
- = STREET LIGHTING BOX
- OR = LIGHT STANDARD
- = SIGNAL LIGHT
- = FLOOD LIGHT
- = ELECTRICAL OUTLET
- G = GAS LINE (SIZE INDICATED)
- G = GAS LINE (RECORD INFORMATION)
- G = GAS LINE (UNDERGROUND LOCATING)
- = GAS MANHOLE
- = GAS VALVE
- = GAS METER
- t = TELEPHONE LINE
- t = TELEPHONE LINE (RECORD INFORMATION)
- t = TELEPHONE LINE (UNDERGROUND LOCATING)
- = STORM DRAIN BOX
- = TRAFFIC SIGNAL BOX

ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED ON THESE PLANS.

AC	ASPHALTIC CONCRETE
ACC	ACCESSIBLE
ACU	AIR CONDITIONING UNIT
AD	AREA DRAIN
APN	ASSESSOR'S PARCEL NUMBER
APP	APPARATUS
BBALL	BASKETBALL POLE
BCM	BRASS CAP MONUMENT
BFP	BACK FLOW PREVENTER
BL.	BLOCK
BLDG	BUILDING
BOL	BOLLARD
BOV	BLOW–OFF VALVE
BR.	BRICK
B.W.F.	BARBED WIRE FENCE
C	COMMUNICATION
C/L	CENTERLINE
CATV	CABLE TELEVISION
CIP	CAPPED IRON PIPE
C.L.F.	CHAIN LINK FENCE
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
COL	COLUMN
CONC.	CONCRETE
COND.	CONDENSATE
CPF	CONTROL POINT FOUND
CPS	CONTROL POINT SET
CS	CONCRETE SURFACE
D	DEPTH
DF	DRINKING FOUNTAIN
DG	DECOMPOSED GRANITE
DI	DROP INLET
DIA	DIAMETER
DRWY	DRIVEWAY
DS	DOWNSPOUT
DWG	DRAWING
E	ELECTRIC
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
FA	FIRE ALARM
FDC	FIRE DEPARTMENT CONNECTION
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FL	FLOWLINE
FO	FIBER OPTIC
FS	FIRE SERVICE
G	GAS
GB	GRADE BREAK
GR	GRATE
GRB	GROUND ROD BOX
GROD	GROUND ROD
GV	GAS VALVE
HB	HOSE BIBB
HBD	HEADER BOARD
HP	HIGH PRESSURE
HR	HANDRAIL
HVE	HIGH VOLTAGE ELECTRIC
HWF	HOG WIRE FENCE
IC	IN CONCRETE
ICP	IRRIGATION CONTROL PANEL
ICV	IRRIGATION CONTROL VALVE
INV	PIPE INVERT ELEVATION
IRR	IRRIGATION
JP	JOINT UTILITY POLE
JT	JOINT TRENCH
LNDG	LANDING
LVE	LOW VOLTAGE ELECTRIC
M.	METAL
MH	MANHOLE
MS	MOW STRIP
MSC	METAL STORAGE CONTAINER
NTS	NOT TO SCALE
OH	OVERHEAD
OHANG	OVERHANG
OIP	OPEN IRON PIPE
OSPH	OLD STEEL POST HOLE
P/L	PROPERTY LINE
PA	PLANTER AREA
PB	PARKING BUMPER
PH	POSTHOLE
PIV	POST INDICATOR VALVE
PP	POWER POLE
PRKG	PARKING
PUE	PUBLIC UTILITY EASEMENT
PV	PAVERS
PVC	POLYVINYL CHLORIDE
R	RUBBER
RG	ROLLING GATE
RIM	MANHOLE RIM ELEVATION
ROW	RIGHT OF WAY
RW	RETAINING WALL
RWD	REDWOOD
RWL	RAIN WATER LEADER
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SIG	SIGNAL
SL	STREET LIGHT
SLB	STREET LIGHT BOX
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
SSMH	SANITARY SEWER MANHOLE
STL.	STEEL
T	TELEPHONE
TBALL	TETHER BALL POLE
TBM	TEMPORARY BENCHMARK
TC	TOP OF CURB
TOW	TOP OF WALL
TP	TELEPHONE POLE
TRW	TOP OF RETAINING WALL
UG	UNDERGROUND
UNK	UNKNOWN
V	VENT
VBALL	VOLLEYBALL
W	WATER
W/	WITH
WD.	WOOD
WF	WOOD FENCE
W.I.F.	WROUGHT IRON FENCE
W.R.F.	WOOD RAIL FENCE
XF	TRANSFORMER
XWALK	CROSSWALK

GRAPHIC SCALE

20' 0 10' 20' 40'

(IN FEET) 1 inch = 20 feet

THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.

NORTH

FILENAME: \23–163\CIVIL\DWG\23–163–C02.DWG PLOTTED: Tuesday, January 09, 2024

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE

AGENCY APPROVAL:

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SS ☑ FLS ☑ ACS ☑
DATE: 02/15/2024

Sacramento City UNIFIED SCHOOL DISTRICT

HMC Architects

3186069000

2101 CAPITOL AVENUE, SUITE 100
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916 368 7990 / www.hmcarchitects.com

ISSUE

DESCRIPTION	DATE

REGISTERED PROFESSIONAL ENGINEER
ANTHONY J. TASSANO
No. C74696
CIVIL
STATE OF CALIFORNIA

WCE
WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

KEYNOTES

NOTES

FACILITY:

4720 FOREST PKWY
SACRAMENTO, CA 95823

PROJECT:

PARKWAY ELEMENTARY - SHADE STRUCTURE

SHEET NAME:

TOPOGRAPHIC SURVEY

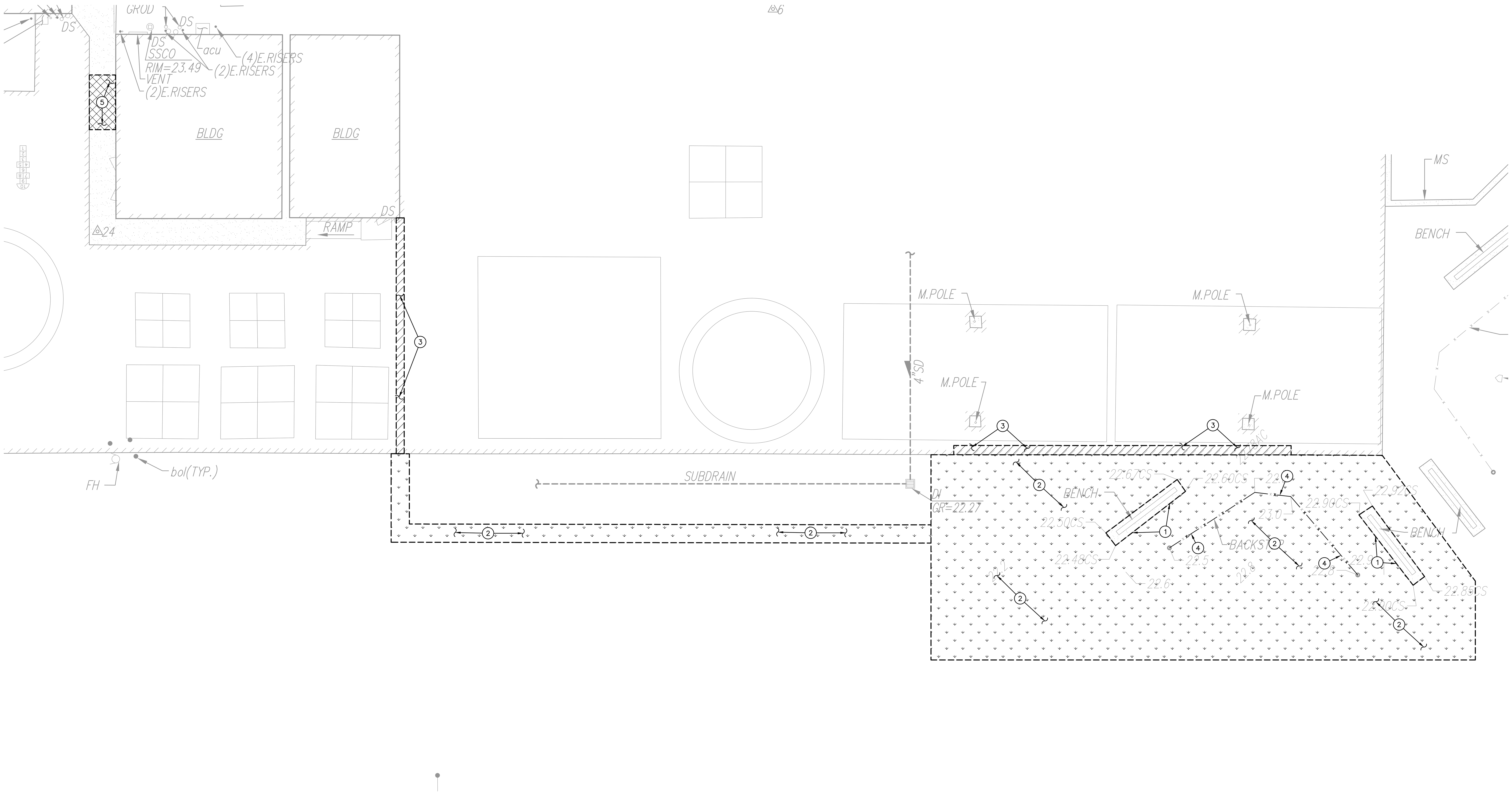
CONSTRUCTION DOCUMENTS

2/09/2024

CLIENT PROJ NO:

SHEET:

C0.2



DEMOLITION NOTES

1. REMOVE AND DISPOSE OF EXISTING WOOD BENCH, CONCRETE PAD AND ASSOCIATED FOOTINGS.

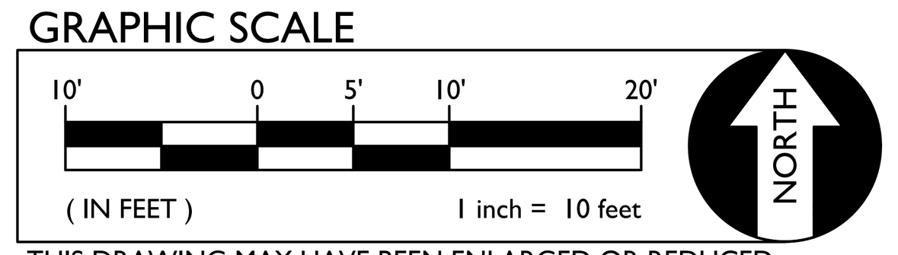
2. REMOVE AND DISPOSE OF EXISTING LANDSCAPING,TURF AND ASSOCIATED IRRIGATION PIPING/SPRINKLERS WITHIN AREAS OF WORK. CUT AND CAP ANY MAINLINES NEAR WHERE THEY ENTER THE BOUNDARY OF THE PROJECT. MARK ALL CAPPED LINES WITH AN IRRIGATION VALVE BOX. ALL EXISTING IRRIGATION AREAS OUTSIDE THE PROJECT WORK AREA SHALL BE PRESERVED AND OPERATIONAL. INTEGRITY SHALL BE MAINTAINED WITH PROPER SPRINKLER COVERAGE TO TURF AREAS TO REMAIN.

3. SAWCUT, REMOVE AND DISPOSE OF EXISTING ASPHALT PAVING AND ASSOCIATED AGGREGATE BASE. SAWCUT SHALL BE A NEAT STRAIGHT LINE, MAINTAIN CLEAN, STRAIGHT CUT EDGE UNTIL NEW PAVING IS PLACED.

4. REMOVE AND DISPOSE OF EXISTING BACKSTOP, FENCE, POSTS, AND ASSOCIATED FOOTINGS.

5. SAWCUT, REMOVE AND DISPOSE OF EXISTING CONCRETE PAVING. SAWCUT SHALL BE A NEAT STRAIGHT LINE, MAINTAIN CLEAN, STRAIGHT CUT EDGE UNTIL NEW PAVING IS PLACED.

GRAPHIC SCALE



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FILENAME: I:\23-163\CIVIL\DWG\23-163-C11.DWG PLOTTED: Wednesday, February 07, 2024

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PLEASE RECYCLE

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DATE: 02/15/2024

Sacramento City
UNIFIED SCHOOL DISTRICT

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3186069000
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ISSUE

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REGISTERED PROFESSIONAL ENGINEER
ANTHONY J. TASSANO
NO. C74696
CIVIL
STATE OF CALIFORNIA

WCE
WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

KEYNOTES

NOTES

FACILITY:

4720 FOREST PKWY
SACRAMENTO, CA 95823

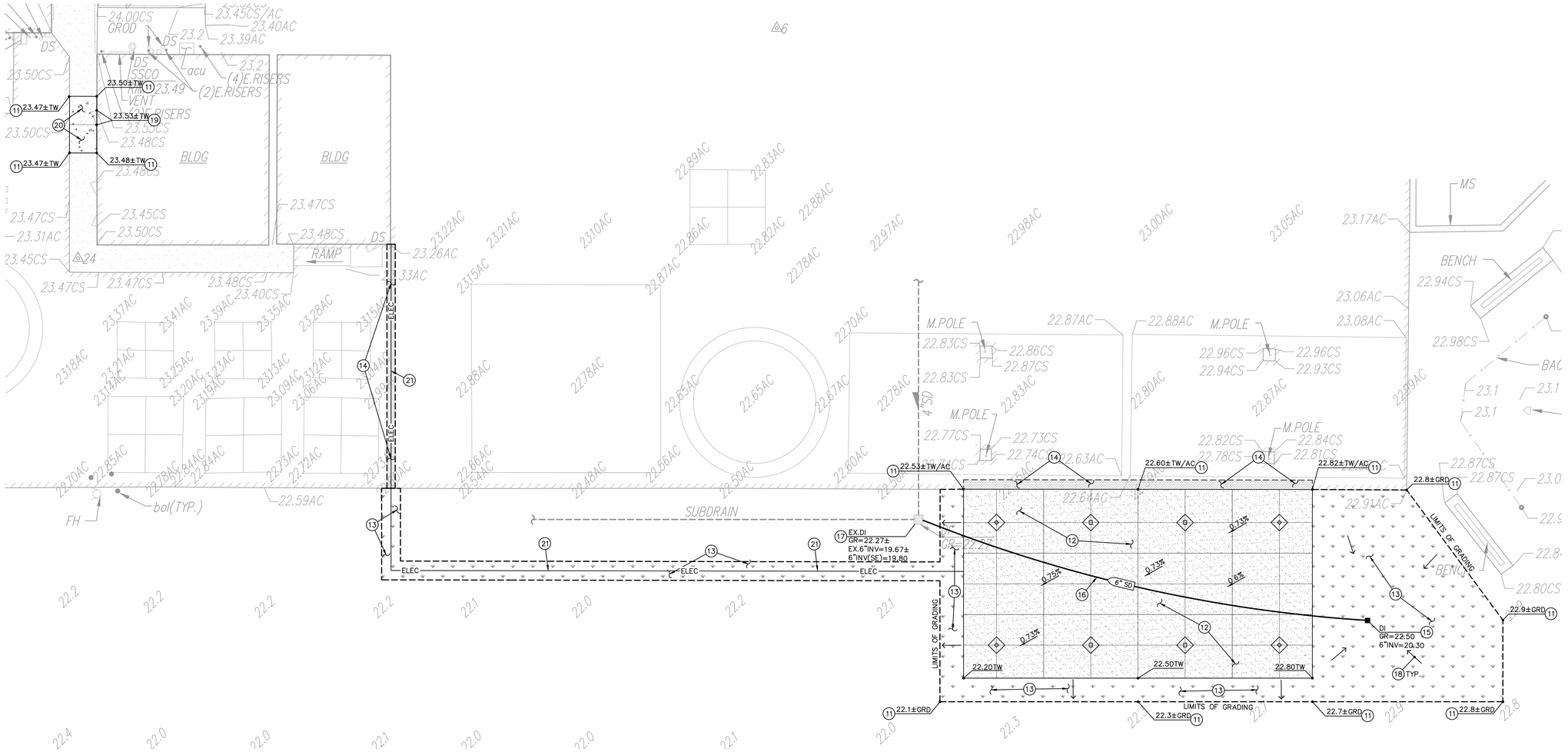
PROJECT:
PARKWAY ELEMENTARY - SHADE STRUCTURE

SHEET NAME:
DEMOLITION PLAN

CONSTRUCTION DOCUMENTS

2/09/2024	CLIENT PROJ NO:

SHEET:
C1.1



SUBGRADE PREPARATION

1. FOLLOWING SITE DEMOLITION ACTIVITIES:

   EXCAVATE DOWN TO ROUGH SUBGRADE ELEVATION, SCARIFY THE EXISTING SOILS TO A MINIMUM DEPTH OF 12 INCHES, MOISTURE CONDITION TO AT LEAST 2 PERCENT ABOVE THE OPTIMUM MOISTURE AND COMPACT TO AT LEAST 90 PERCENT OF THE MAXIMUM DRY DENSITY DETERMINED BY THE ASTM D1557 TEST METHOD. UPPER 12 INCHES OF SUBGRADE SUPPORTING ASPHALT PAVEMENT SHALL BE COMPACTED TO 95 PERCENT.

GRADING AND PAVING NOTES

11. MATCH EXISTING GRADE/ELEVATION.
12. CONSTRUCT CONCRETE SIDEWALK PER (1 C2.1) PLACE 5"PCC WITH #4 REBAR AT 24" O.C.E.W. OVER 12" CL2 AGGREGATE BASE ON COMPACTED SUBGRADE.
13. PLACE SOD IN ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES THAT ARE NOT TO RECEIVE PAVEMENT. PROVIDE NEW SPRINKLER HEADS AND PIPING AS REQUIRED TO ACHIEVE PROPER COVERAGE.
14. PLACE 3"AC OVER 12"AB ON COMPACTED SUBGRADE.
15. CONSTRUCT DROP INLET PER (2 C2.1)
16. PLACE 6" STORM DRAIN PER (3 C2.1)
17. CONNECT TO EXISTING DRAINAGE INLET. FIELD VERIFY EXACT DEPTH, LOCATION AND CONDITION TO MAKE CONNECTION. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.
18. GRADE UNIFORMLY TO INLET.
19. PROPOSED SIDEWALK ELEVATION SHALL NOT BE MORE THAN 1/4" BELOW EXISTING FINISH FLOOR ELEVATION.
20. CONSTRUCT CONCRETE SIDEWALK PER (1 C2.1) PLACE 5"PCC WITH #4 REBAR AT 24" O.C.E.W. ON EXISTING AGGREGATE BASE.
21. REFER TO ELECTRICAL PLANS FOR CONDUIT PLACEMENT AND DETAILING.

GRAPHIC SCALE

10' 0 5' 10' 20'

(IN FEET) 1 inch = 10 feet

NORTH

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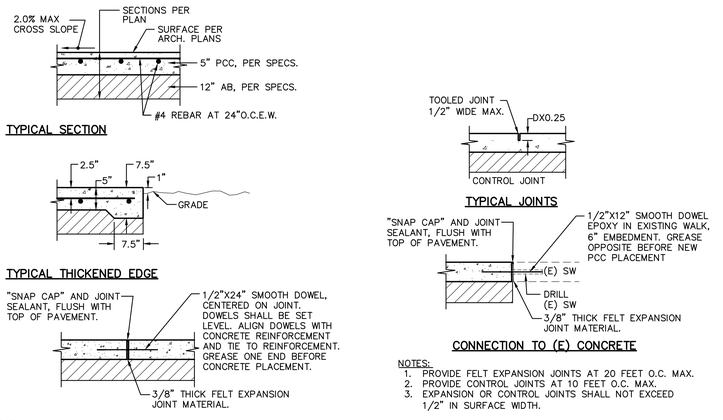
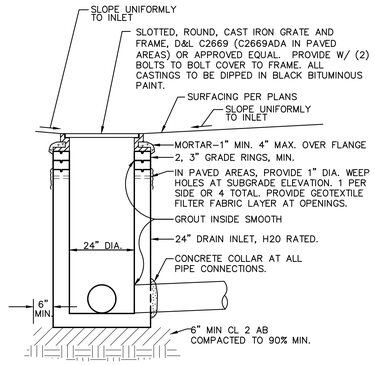
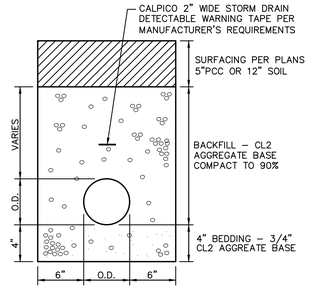


1 C2.1 CONCRETE SIDEWALK — NO SCALE



2 C2.1 DROP INLET — NO SCALE



3 C2.1 STORM DRAIN TRENCH — NO SCALE

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3186069000
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SACRAMENTO, CA 95816
916 368 7990 / www.hmcarchitects.com

ISSUE

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REGISTERED PROFESSIONAL ENGINEER — ANTHONY J. TASSANO — NO. C74696 — STATE OF CALIFORNIA

WCE
WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

KEYNOTES

NOTES

FACILITY:

4720 FOREST PKWY
SACRAMENTO, CA 95823

PROJECT:
PARKWAY ELEMENTARY - SHADE STRUCTURE

SHEET NAME:
GRADING, DRAINAGE AND PAVING PLAN

CONSTRUCTION DOCUMENTS

2/09/2024 | CLIENT PROJ NO:

SHEET:

C2.1

LEGEND

X	EXISTING BUILDING
T	EXISTING TOILET ROOM
(hatched)	EXISTING ADMINISTRATION OFFICE
DF	DRINKING FOUNTAIN
(dotted line)	ACCESSIBLE PATH OF TRAVEL, SEE DEFINITION ON THIS SHEET
(dashed line)	LINE OF ROOF OVERHEAD
(dash-dot line)	PROPERTY LINE

CODE ANALYSIS AND OVERALL SITE PLAN 1
1" = 30'-0"

ACCESSIBLE PATH OF TRAVEL

PATH OF TRAVEL (P.O.T.) AS INDICATED, IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE EXCEPT LEVEL CHAGES THAT DO NOT EXCEED 1/4" VERTICAL. THE PATH OF TRAVEL IS AT LEAST 48" WIDE WITH SLIP RESISTANT SURFACE, STABLE, FIRM AND SMOOTH. CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. THE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTION TO 80" A.F.F. MINIMUM AND WALL MOUNTED OBJECTS WITH THE BOTTOM EDGE BETWEEN 27" AND 80" A.F.F. MINIMUM AND WALL MOUNTED OBJECTS WITH THE BOTTOM EDGE BETWEEN 27" AND 80" A.F.F. SHALL PROTRUDE NO MORE THAN 4" INTO THE PEDESTRIAN CIRCULATION AREA. ARCHITECT TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER PROJECT, AND PATH OF TRAVEL COMPLIES WITH CBC 1133B.

EXISTING PATH OF TRAVEL

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE IN CHARGE STATEMENT: THE P.O.T. IDENTIFIED IN THESE DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS, AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS, OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NON-COMPLIANT

1. HAVE BEEN IDENTIFIED AND
2. THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS, AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS.

ANY NON-COMPLIANT ELEMENTS, COMPONENTS, OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THIS PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NON-CONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT TO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

EXISTING PARKING CALCULATIONS

TOTAL EXISTING PARKING STALL COUNT: 52 STALLS

ACCESSIBLE PARKING STALLS PER TABLE 11B-208.2:

REQUIRED ACCESSIBLE STALLS 3 (51-75 TOTAL STALLS)
REQUIRED VAN ACCESSIBLE STALLS 1 (1-6 ACCESSIBLE STALLS)
EXISTING ACCESSIBLE STALLS PROVIDED 2 STANDARD & 2 VAN

EXISTING BUILDING DATA

BUILDING NAME	USE	DSA APP #
A	ADMINISTRATION	14224, 68584
B	CLASSROOMS & TOILETS	14224, 64759, 68584
C	CLASSROOMS & TOILETS	12462, 68584
D	KINDERGARTEN	14224, 27523
E	MULTIPURPOSE & KITCHEN	14224, 27523, 68584
F	TOILETS	68584
G	CLASSROOMS	67170
H	CLASSROOMS	02-100257
I	CLASSROOM	14596
J	CLASSROOMS	68584
K	CLASSROOMS	68584
L	LIBRARY & TOILETS	68584
M	CLASSROOM	02-101978
N	DAYCARE (HEAD START)	02-105396

PROPOSED SHADE STRUCTURE DATA

BUILDING NAME	SS
USE	SHADE STRUCTURE
OCCUPANCY	A-3
CONSTRUCTION TYPE	II-B, NON-SPRINKLERED
ALLOWABLE AREA (CBC TABLE 506.2)	26,000 SF
ACTUAL AREA	1,920 SF
OCCUPANCY CALCULATION	1,920 SF / 15 = 128 OCC.

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APP: 02-121825 INC:
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DATE: 02/15/2024

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UNIFIED SCHOOL DISTRICT

HMC Architects
3186069000
2101 CAPITOL AVENUE, SUITE 100
SACRAMENTO, CA 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

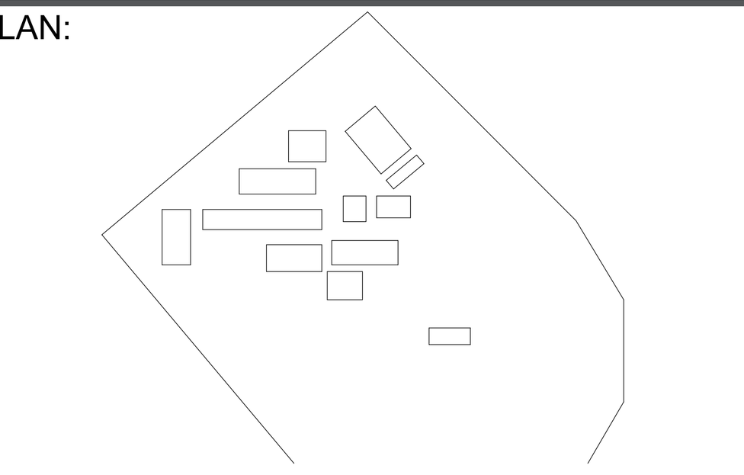
GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AS NEEDED DURING CONSTRUCTION TO SECURE AREA OF WORK.
2. CONTRACTOR SHALL REPLACE, RECONSTRUCT, AND REPAIR ALL EXISTING WORK THAT IS IMPACTED, DAMAGED, OR DESTORYED AS A RESULT OF ANY CONTRACTOR WORK INCLUDING, BUT NOT LIMITED TO, HARDSCAPING, SIDEWALKS, IRRIGATION SYSTEMS, LANDSCAPING, LAWSN, STRUCTURES, AND UTILITIES.
3. CONTRACTOR TO FIELD VERIFY LOCATION OF (E) UTILITIES AND NOTIFY THE DISTRICT OF ANY CONFLICTS WITH PROPOSED LOCATION OF STRUCTURES TO BE INSTALLED

SHEET NOTES

SN.01 (E) FIRE HYDRANT
SN.02 (E) BOLLARD
SN.03 (E) 35' ROLLING GATE WITH KNOX LOCK. GATE IS OPEN DURING SCHOOL HOURS
SN.04 (E) 20' GATE WITH KNOX LOCK PER DSA #02-121661
SN.05 (E) ACCESSIBLE PED. EGRESS GATE WITH PANIC HARDWARE PER DSA #02-114209
SN.06 (E) ACCESSIBLE PED. EGRESS GATE WITH PANIC HARDWARE PER DSA #02-121661
SN.07 (E) 4' HIGH ORNAMENTAL FENCE
SN.08 (E) TOW AWAY SIGN PER DSA #02-114209
SN.09 (E) ACCESSIBLE PARKING PER DSA #02-114209
SN.10 (E) ACCESSIBLE DROP OFF PER DSA #02-114209
SN.11 ADMINISTRATION OFFICE
SN.12 STUDENT AND STAFF RESTROOMS PER DSA #68584, UPGRADED PER THIS APPLICATION
SN.13 (E) DRINKING FOUNTAIN
SN.14 (E) FIRE ALARM SPEAKER
SN.15 (E) EXTERIOR LIGHT FIXTURE
SN.16 EXTERIOR LIGHT FIXTURE, SEE ELECTRICAL DWGS
SN.17 TRENCH, SEE CIVIL AND ELECTRICAL DWGS

KEY PLAN:



FACILITY:

4720 FOREST PKWY
SACRAMENTO, CA 95823

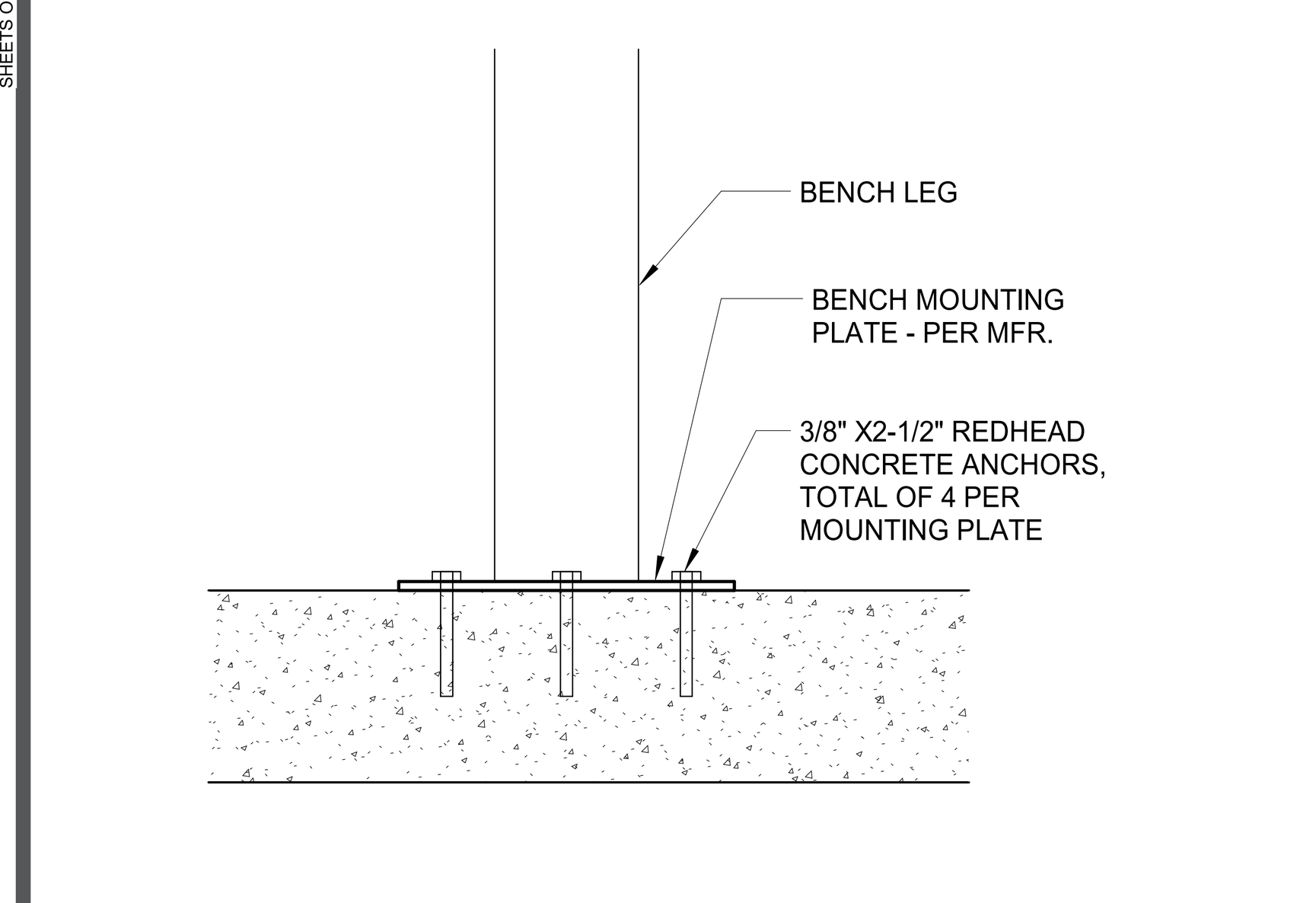
PROJECT:
PARKWAY ELEMENTARY - SHADE STRUCTURE

SHEET NAME:
OVERALL SITE PLAN AND CODE ANALYSIS SITE PLAN

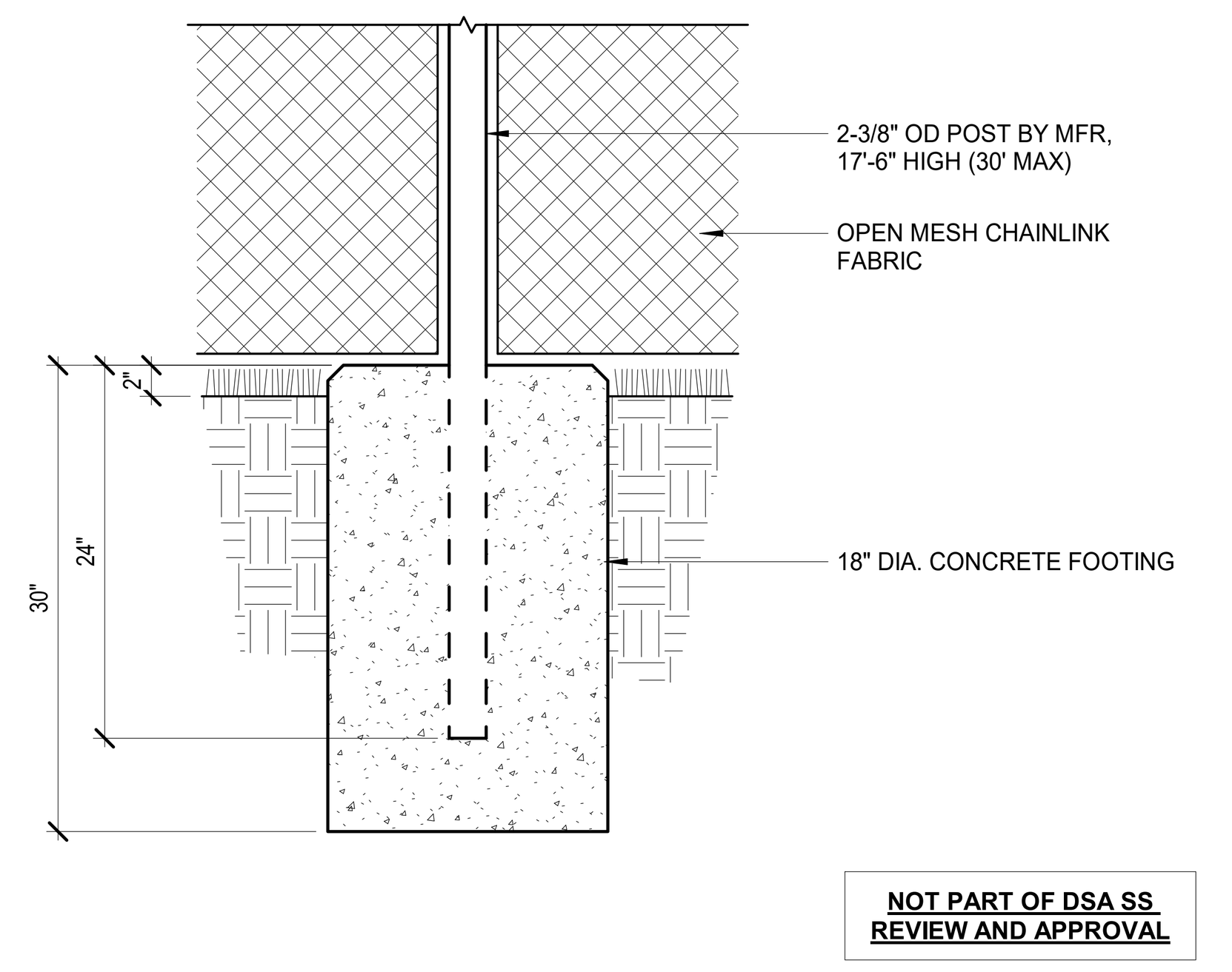
CONSTRUCTION DOCUMENTS

DATE: 2/09/2024 CLIENT PROJ NO:

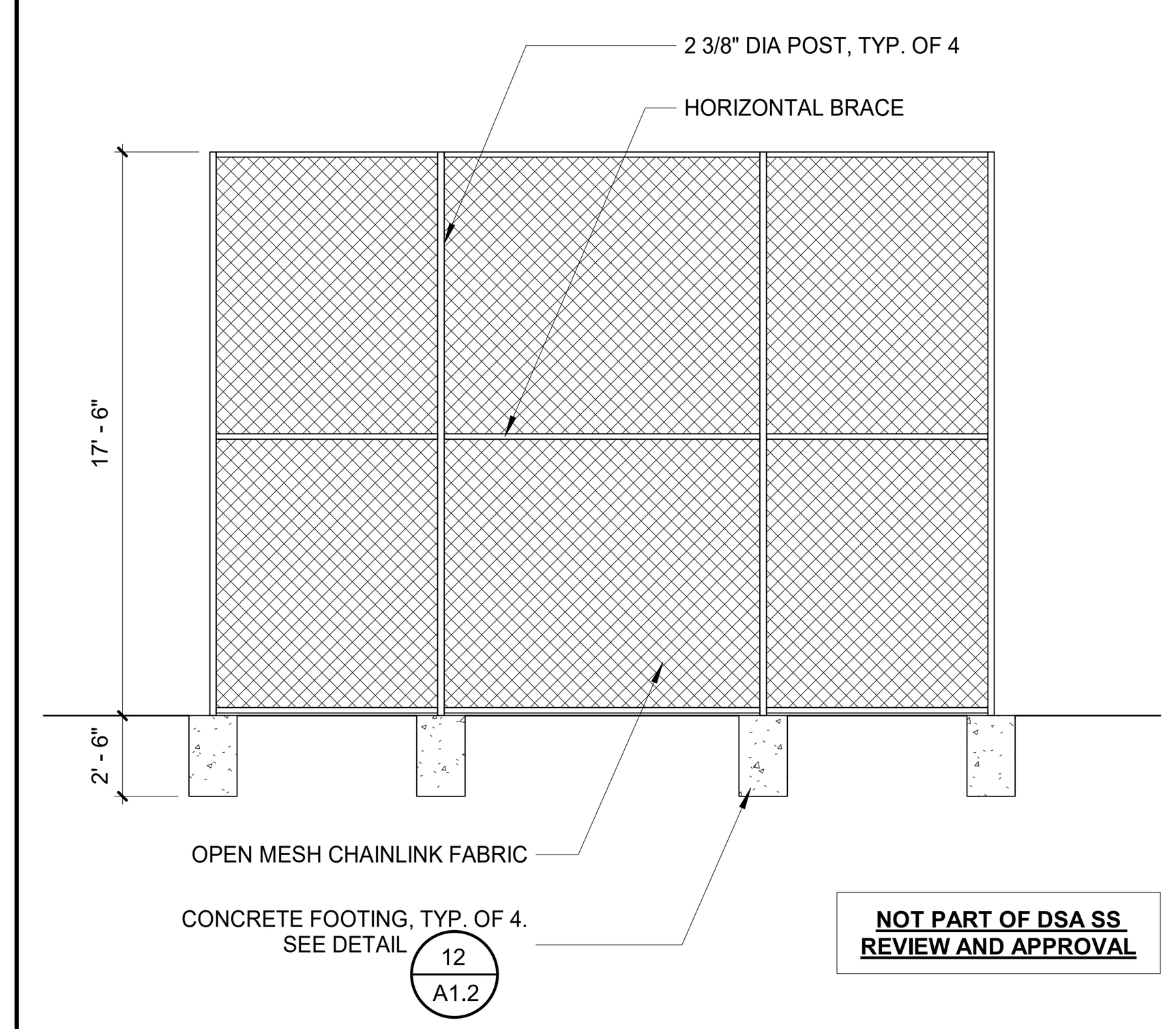
SHEET:
A1.1



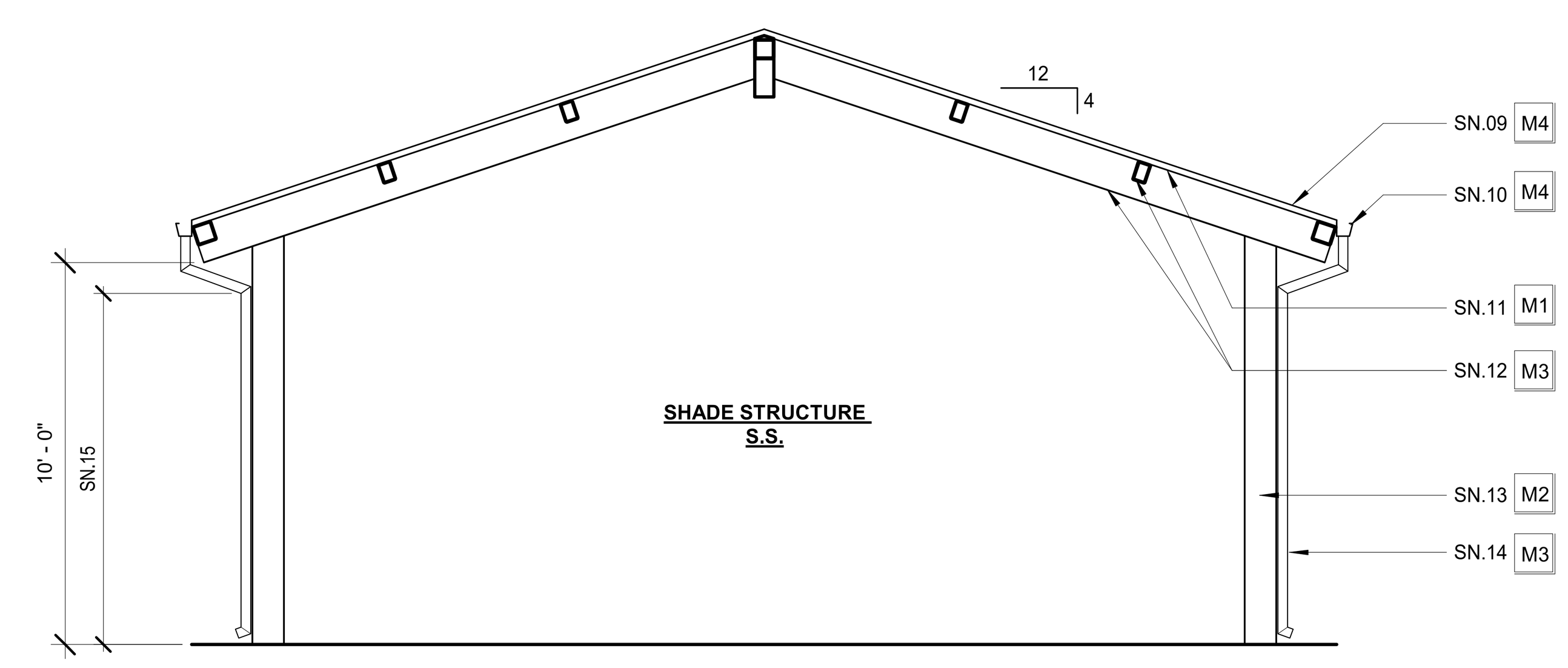
BENCH ANCHORAGE (ALT #1) 13
3" = 1'-0"



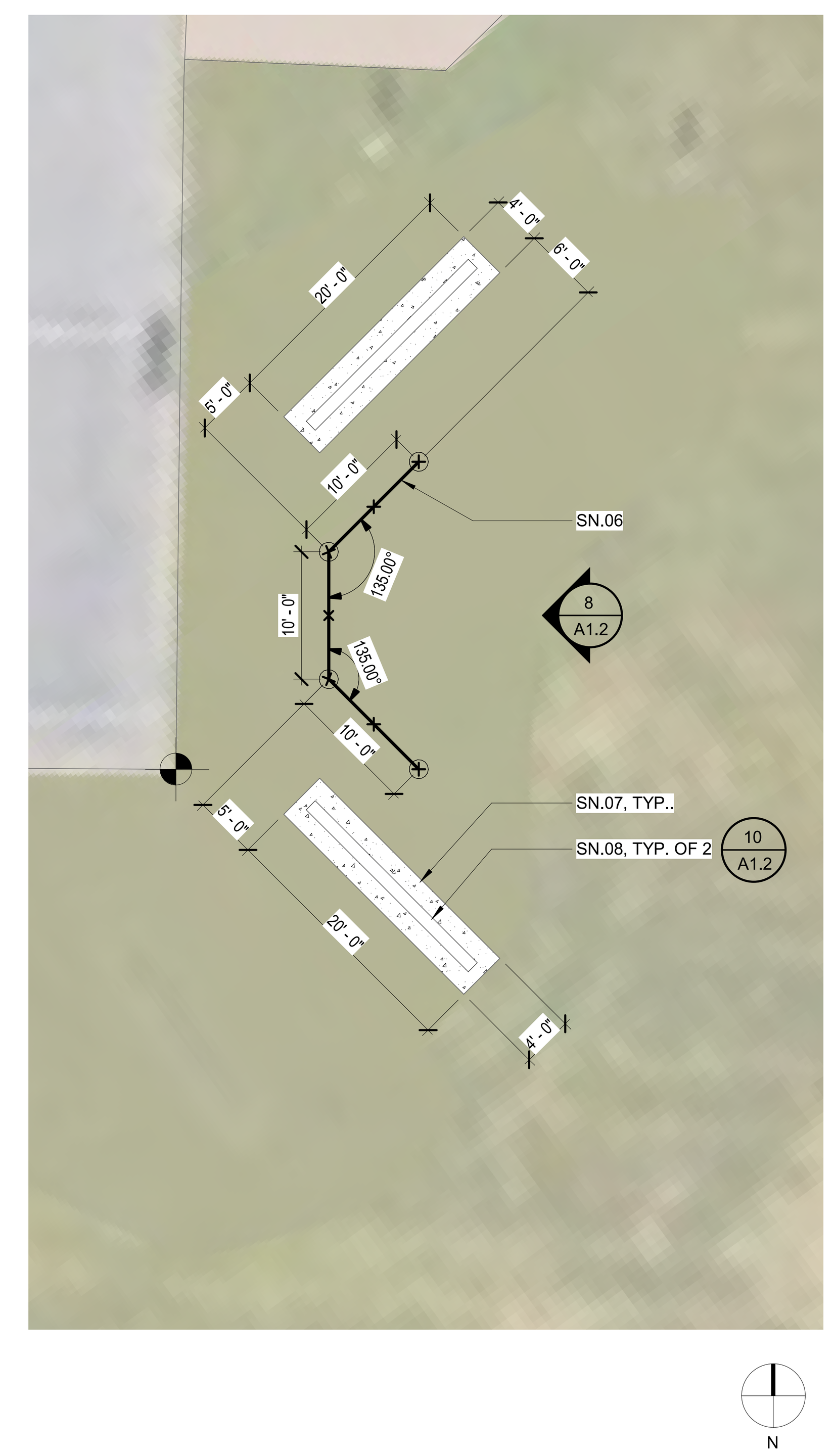
BACKSTOP FOOTING (ALT #1) 12
1" = 1'-0"



BACKSTOP ELEVATION (ALT #1) 8
3/16" = 1'-0"

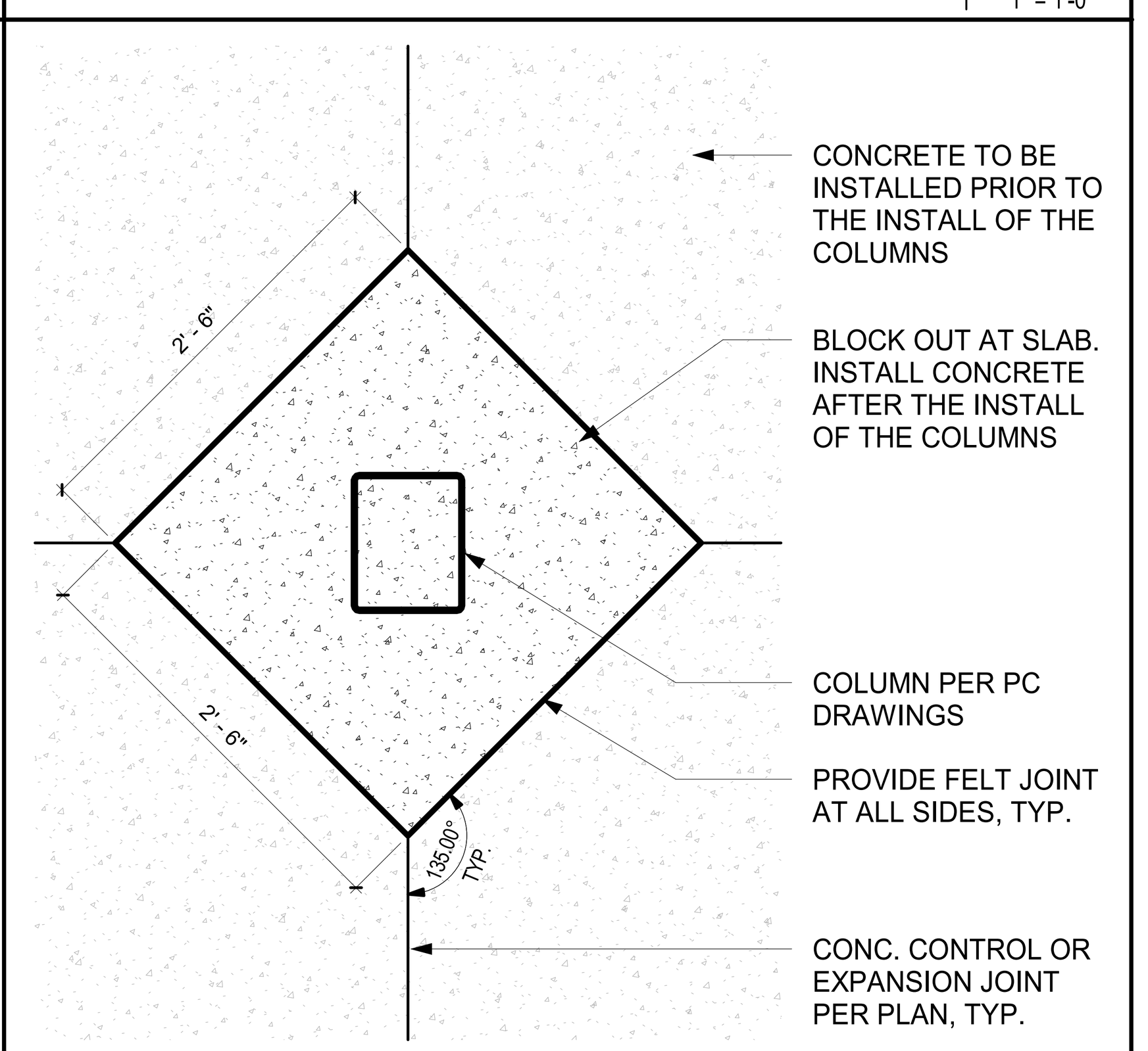


SECTION AT SHADE STRUCTURE 7
1/4" = 1'-0"

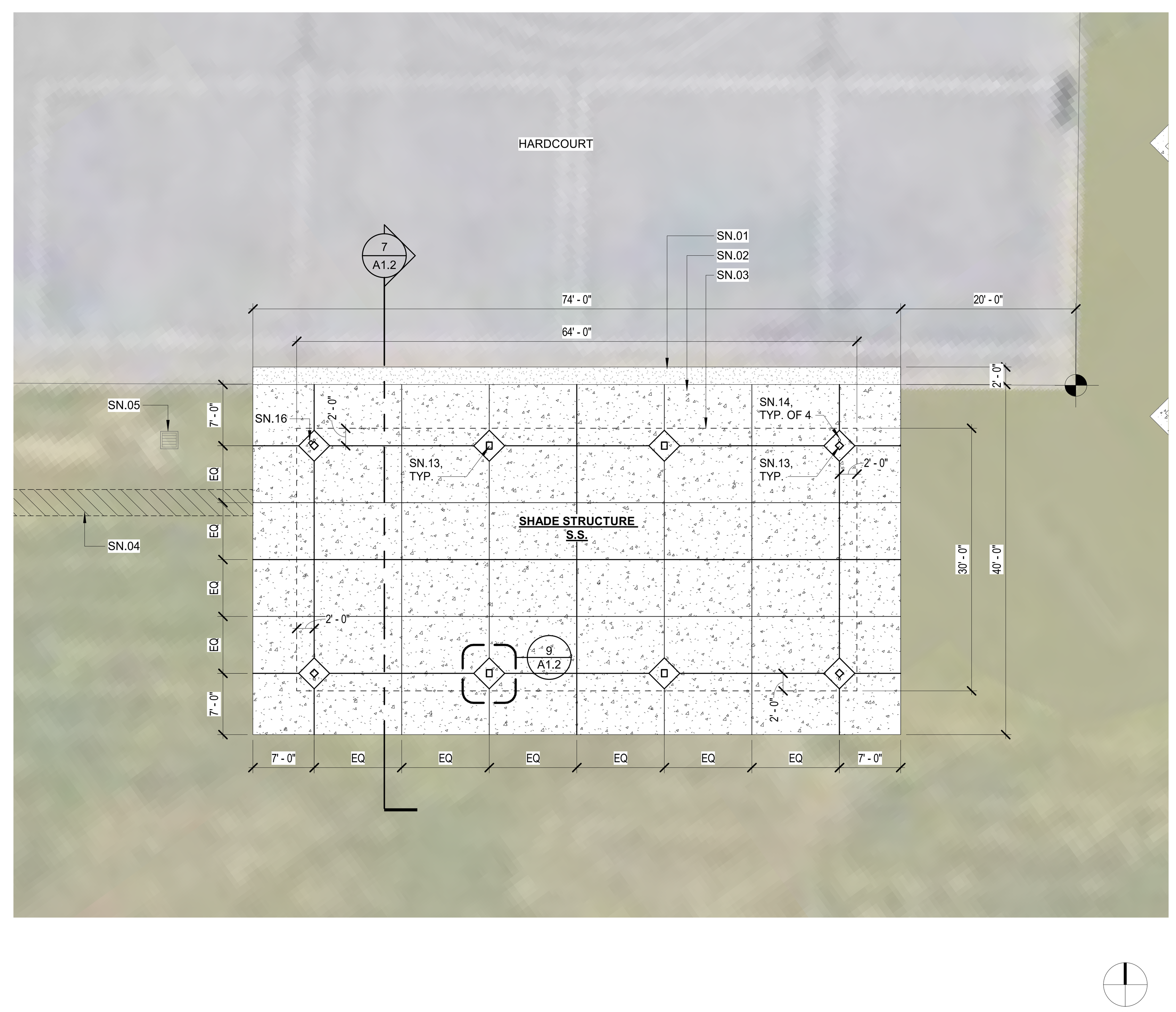


ENLARGED PLAN AT BASEBALL BACKSTOP (ALT. #1) 3
1" = 10'-0"

BENCH ANCHORAGE (ALT. #1) 10
1" = 1'-0"



CONCRETE BLOCK OUT AT SHADE STRUCTURE SLAB 9
1" = 1'-0"



ENLARGED PLAN AT SHADE STRUCTURE 1
1" = 10'-0"

LEGEND

X	EXISTING BUILDING
- - - -	LINE OF ROOF OVERHEAD
	CONCRETE
	ASPHALT

COLOR SCHEDULE

	MATERIAL	COLOR
M1	METAL	METAL FINISH COLOR 1 (1) (2) (3)
M2	METAL	METAL FINISH COLOR 2 (1) (2) (4)
M3	METAL	METAL PREFINISH COLOR 1 (1) (3)
M4	METAL	METAL PREFINISH COLOR 2 (1) (4)

(1) CUSTOM COLORS TO BE SUBMITTED PER SPECIFICATIONS.
(2) CLEAN, PREP AND PAINT ALL SURFACES NOT PREFINISHED
(3) MATCH METAL PAINT COLOR 1 WITH COLOR DESIRED IN METAL PEFINISHED COLOR 1
(4) MATCH METAL PAINT COLOR 2 WITH COLOR DESIRED IN METAL PREFINISHED COLOR 2

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LICENSED ARCHITECT
JEFFREY ALAN GRAY
C-14648
5/31/25
RENEWAL DATE
STATE OF CALIFORNIA

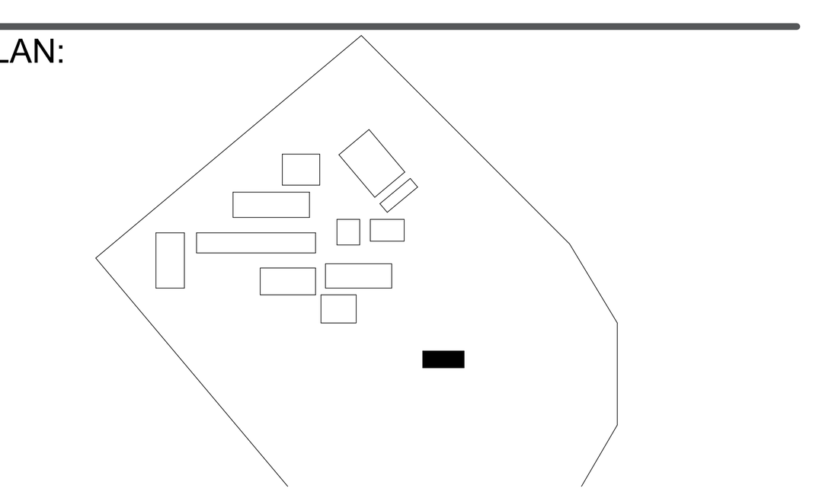
ISSUE

Δ	DESCRIPTION	DATE

SHEET NOTES

SN.01 AC PAVING, SEE CIVIL DWGS
SN.02 CONCRETE, SEE CIVIL DWGS
SN.03 ROOF OVERHANG ABOVE
SN.04 TRENCH, SEE CIVIL AND ELECTRICAL DWGS.
SN.05 (E) STORM DRAIN. PROTECT DRAIN AND STORM DRAIN LINE DURING CONSTRUCTION
SN.06 STEELCRAFT 1024KD CHAINLINK BASEBALL BACKSTOP
SN.07 (E) CONCRETE PAD TO REMAIN
SN.08 REMOVE (E) BENCH AND INSTALL NEW BENCH PER DETAIL 13/A1.2
SN.09 PREFINISHED STANDING SEAM ROOF
SN.10 PREFINISHED GUTTER AND FLASHING
SN.11 PAINT DECK UNDERSIDE
SN.12 HSS BEAM
SN.13 HSS COLUMN, SIZE PER P.C. SHADE STRUCTURE DWGS. PROVIDE CUTOUTS iN BASE PLATE AND COLUMN FOR ELECTRICAL CONDUIT AND OUTLET.
SN.14 3" DIAMETER SCHEDULE 40 STEEL DOWNSPOUT, PAINTED
SN.15 HOLD TIGHT TO UNDERSIDE OF FRAMING: MAINTAIN 9'-0" CLEARANCE MIN.
SN.16 EXTERIOR LIGHT, SEE ELECTRICAL DRAWINGS

KEY PLAN:



FACILITY:
4720 FOREST PKWY
SACRAMENTO, CA 95823

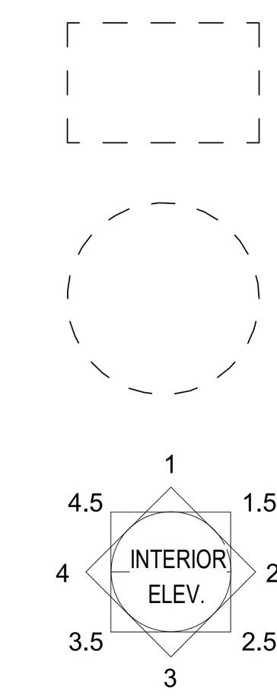
PROJECT:
PARKWAY ELEMENTARY - SHADE STRUCTURE

SHEET NAME:
ENLARGED SITE PLAN AND DETAILS

CONSTRUCTION DOCUMENTS

DATE: 2/09/2024
CLIENT PROJ NO:
SHEET:
A1.2

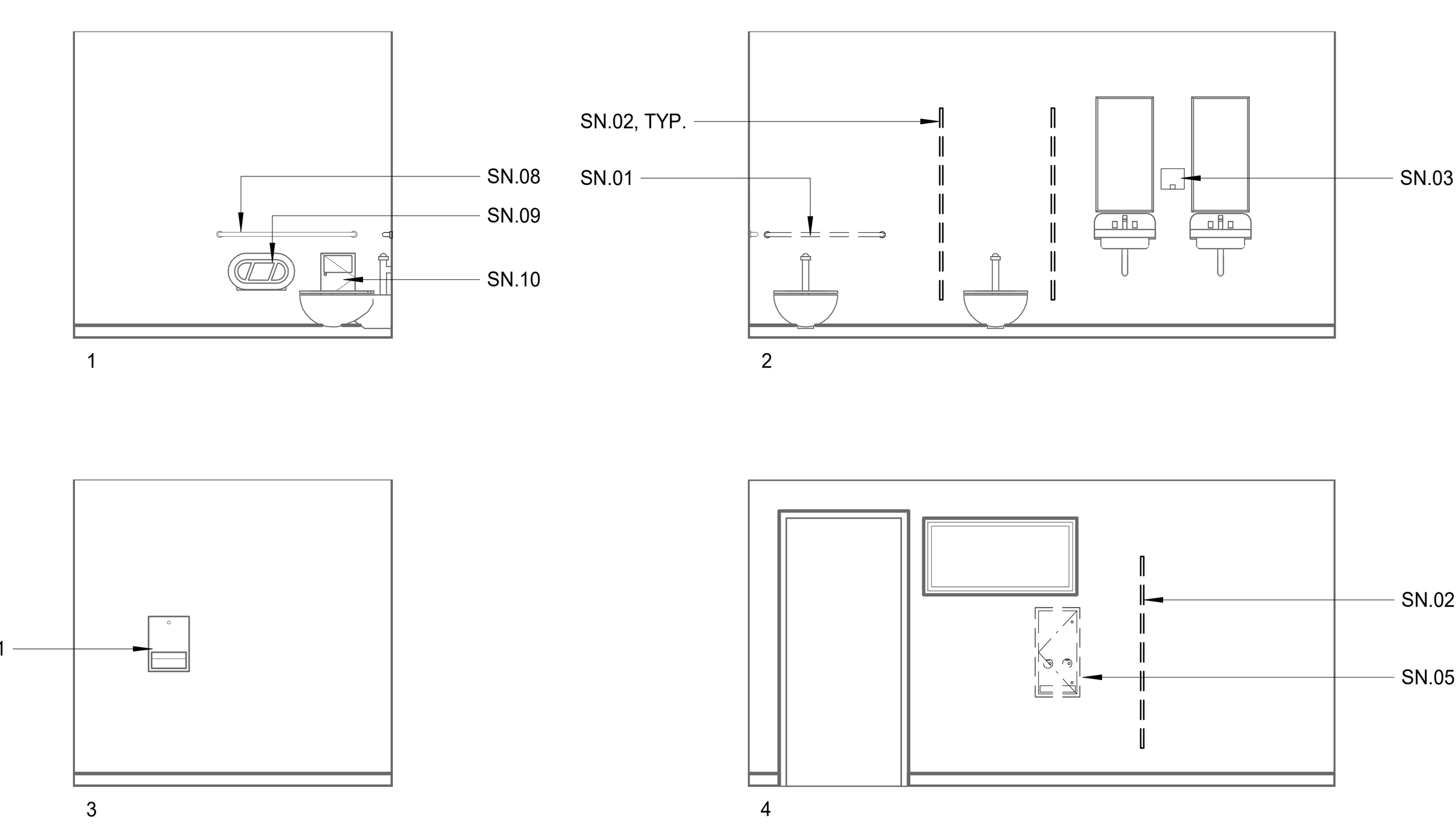
LEGEND



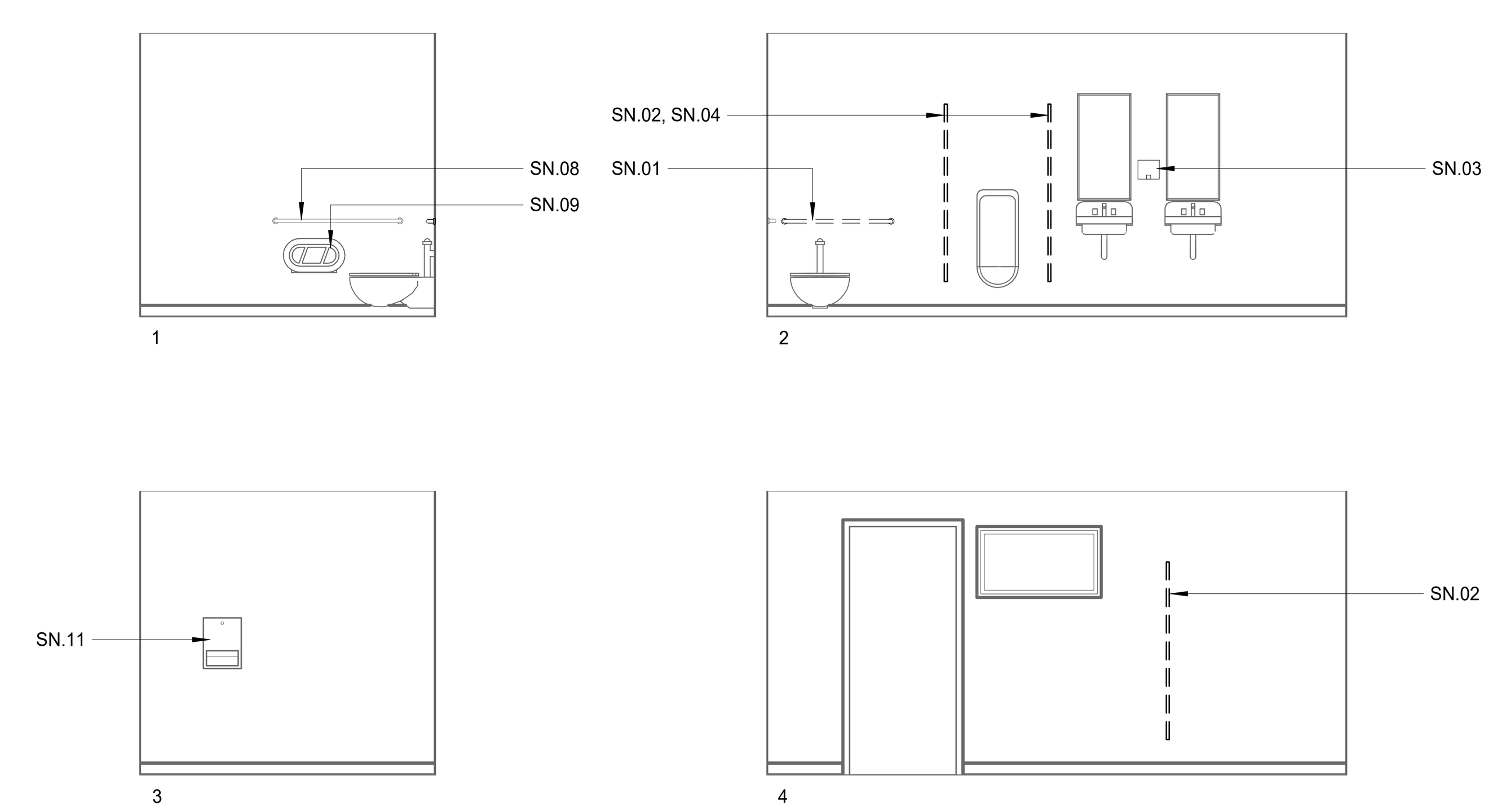
30" x 48" CLEAR SPACE

60" DIA. TURNING CIRCLE

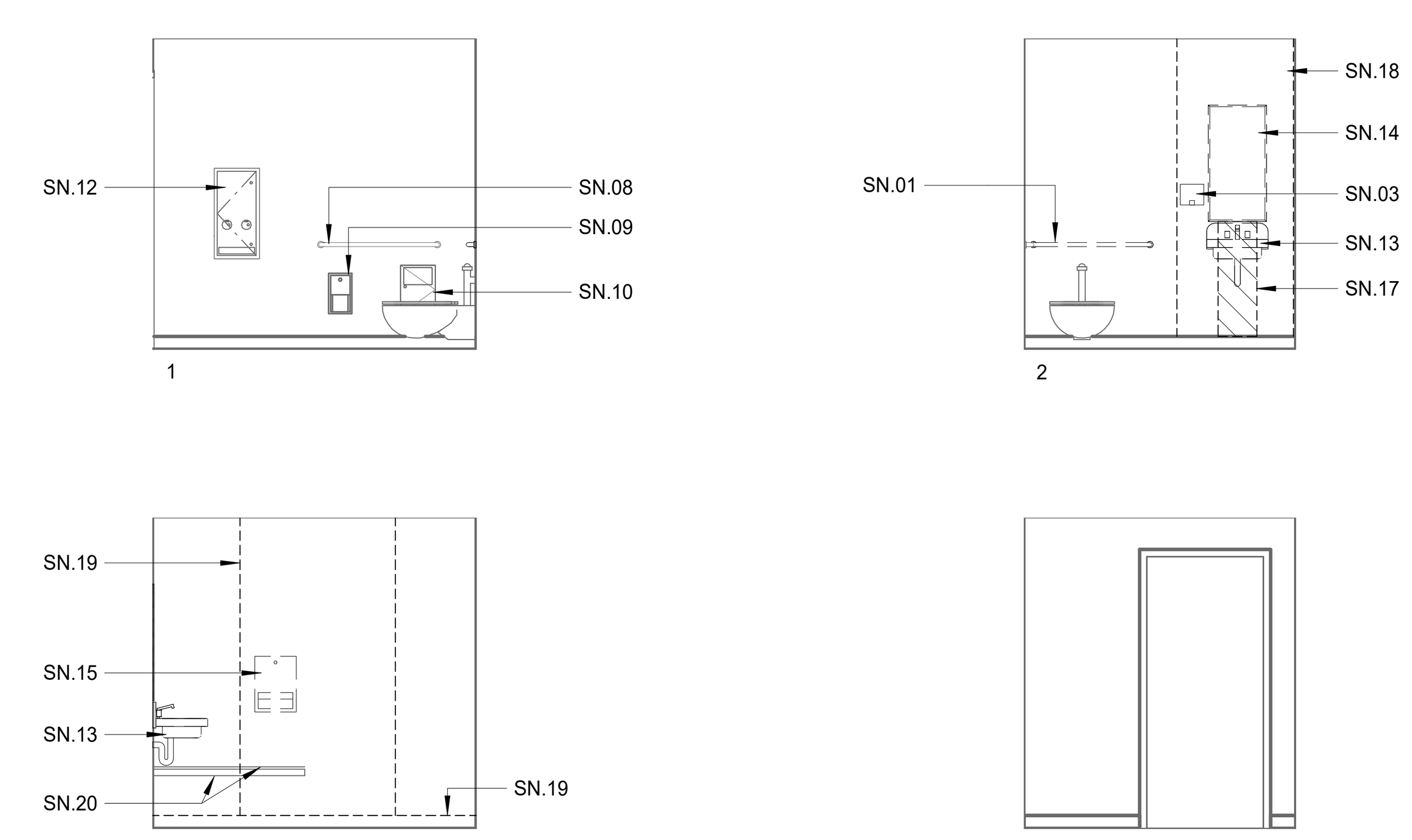
CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ELEVATIONS AND ROOM FINISHES.



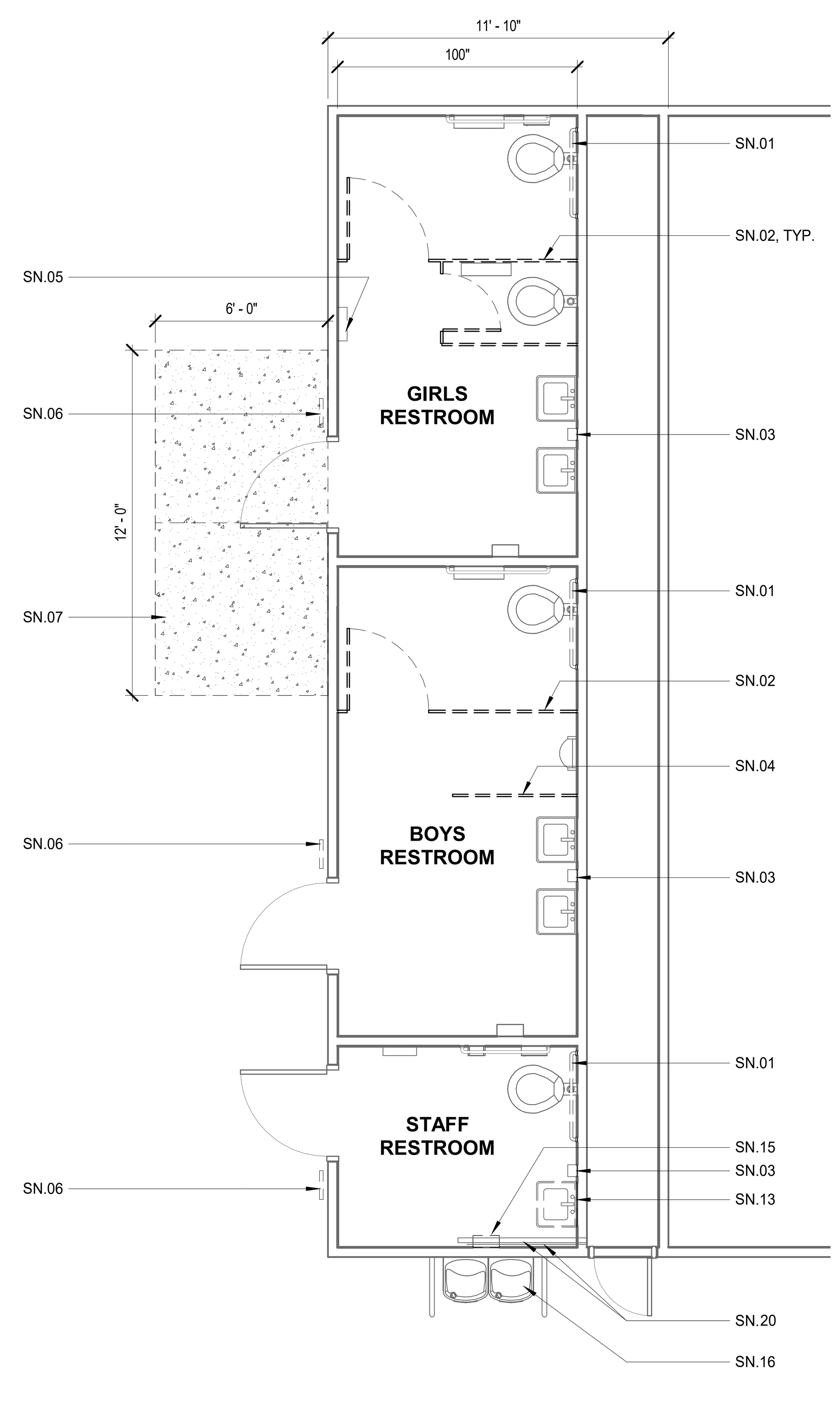
GIRLS RESTROOM - INTERIOR ELEVATIONS - DEMOLITION 3 1/4" = 1'-0"



BOYS RESTROOM - INTERIOR ELEVATIONS - DEMOLITION 10 1/4" = 1'-0"



STAFF RESTROOM - INTERIOR ELEVATIONS - DEMOLITION 9 1/4" = 1'-0"



ENLARGED PLAN AT TOILET ROOMS - DEMOLITION 1 1/4" = 1'-0"

AGENCY APPROVAL:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121825 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 02/15/2024

Sacramento City
UNIFIED SCHOOL DISTRICT

HMC Architects
3186069000
2101 CAPITOL AVENUE, SUITE 100
SACRAMENTO, CA 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT
JEFFREY ALAN GRAY
C-14648
5/31/25
RENEWAL DATE
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

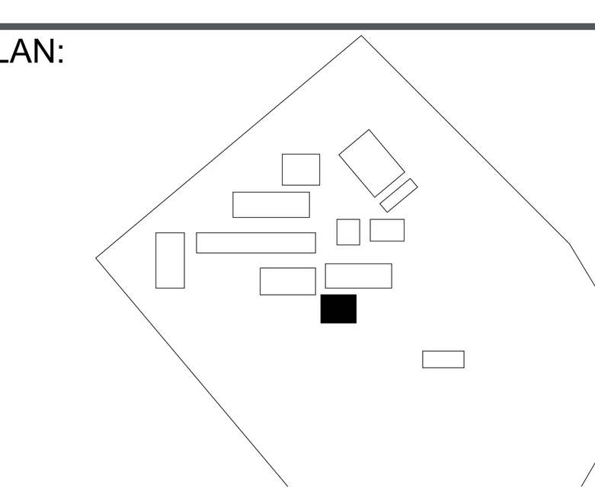
GENERAL NOTES

1. EXISTING FIXTURES AND EQUIPMENT TO REMAIN UNLESS OTHERWISE NOTED
2. FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, SEE SHEET A10.2
3. DIMENSIONS AT EXISTING WALLS ARE FACE OF FINISH, UNLESS OTHERWISE NOTED
4. PROTECT ALL ADJACENT SURFACES, ITEMS, AND FINISHES NOT NOTED TO BE DEMOLISHED
5. EQUIPMENT/FIXTURES NOTED AS "SALVAGE FOR REINSTALLATION" WILL BE REMOVED AND STORED BY THE CONTRACTOR PRIOR TO START OF DEMOLITION. THESE EQUIPMENT/FIXTURES SHAL LBE REINSTALLED BY THE CONTRACTOR UNDER THIS CONTRACT.
6. REMOVE LAL ITEMS SCHEDULED TO BE REMOVED, INCLUDING MOUNTING HARDWARE.
7. DEMO AND REPAIR WALL FINISH AS NECESSARY TO PERFORM FIXTURE AND EQUIPMENT WORK AS NOTED. ADJACENT FINISHES TO BE VERIFIED BY CONTRACTOR.

SHEET NOTES

SN.01 REMOVE (E) REAR GRAB BAR AND SALVAGE FOR REINSTALLATION
SN.02 DEMO (E) TOILET PARTITIONS
SN.03 REMOVE (E) SOAP DISPENSER AND SALVAGE FOR REINSTALLATION
SN.04 DEMO (E) URINAL SCREEN
SN.05 REMOVE (E) SANITARY NAPKIN DISPENSER AND SALVAGE FOR REINSTALLATION
SN.06 DEMO (E) TOILET ROOM ID WALL SIGN
SN.07 DEMO (E) CONCRETE ON PULL SIDE OF (E) EXTERIOR DOOR TO EXTENTS REQUIRED TO CREATE LEVEL LANDING. SEE CIVIL DWGS.
SN.08 (E) SIDE GRAB BAR TO REMAIN
SN.09 (E) TOILET PAPER DISPENSER TO REMAIN
SN.10 (E) SANITARY NAPKIN DISPOSAL TO REMAIN
SN.11 (E) PAPER TOWEL DISPENSER TO REMAIN
SN.12 (E) SANITARY NAPKIN DISPENSER TO REMAIN
SN.13 REMOVE (E) LAVATORY AND SALVAGE FOR REINSTALLATION
SN.14 REMOVE (E) MIRROR AND SALVAGE FOR REINSTALLATION
SN.15 REMOVE (E) PAPER TOWEL DISPENSER AND SALVAGE FOR REINSTALLATION
SN.16 (E) DRINKING FOUNTAIN WITH CANE DETECTION TO REMAIN
SN.17 SHADED AREA INDICATES PORTION OF THE (E) WALL BEHIND THE (E) LAVATORY TO BE REMOVED AS NEEDED TO REMOVE RELATED WATER CARRIER
SN.18 REMOVE AND REPLACE THE (E) FRP, FULL PANEL OR TO THE CLOSEST JOINT
SN.19 REMOVE (E) FRP AND WALL BASE FINISHES FROM WALL FOR INSTALLATION OF NEW FURRED WALL
SN.20 (E) WATER LINE AND WASTE PIPE TO REMAIN

KEY PLAN:



FACILITY:

4720 FOREST PKWY
SACRAMENTO, CA 95823

PROJECT:

PARKWAY ELEMENTARY - SHADE STRUCTURE

SHEET NAME:

TOILET ROOM DEMOLITION PLANS AND INTERIOR ELEVATIONS

CONSTRUCTION DOCUMENTS

DATE: 2/09/2024 CLIENT PROJ NO:

SHEET:

A2.1

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PRINT SIZE

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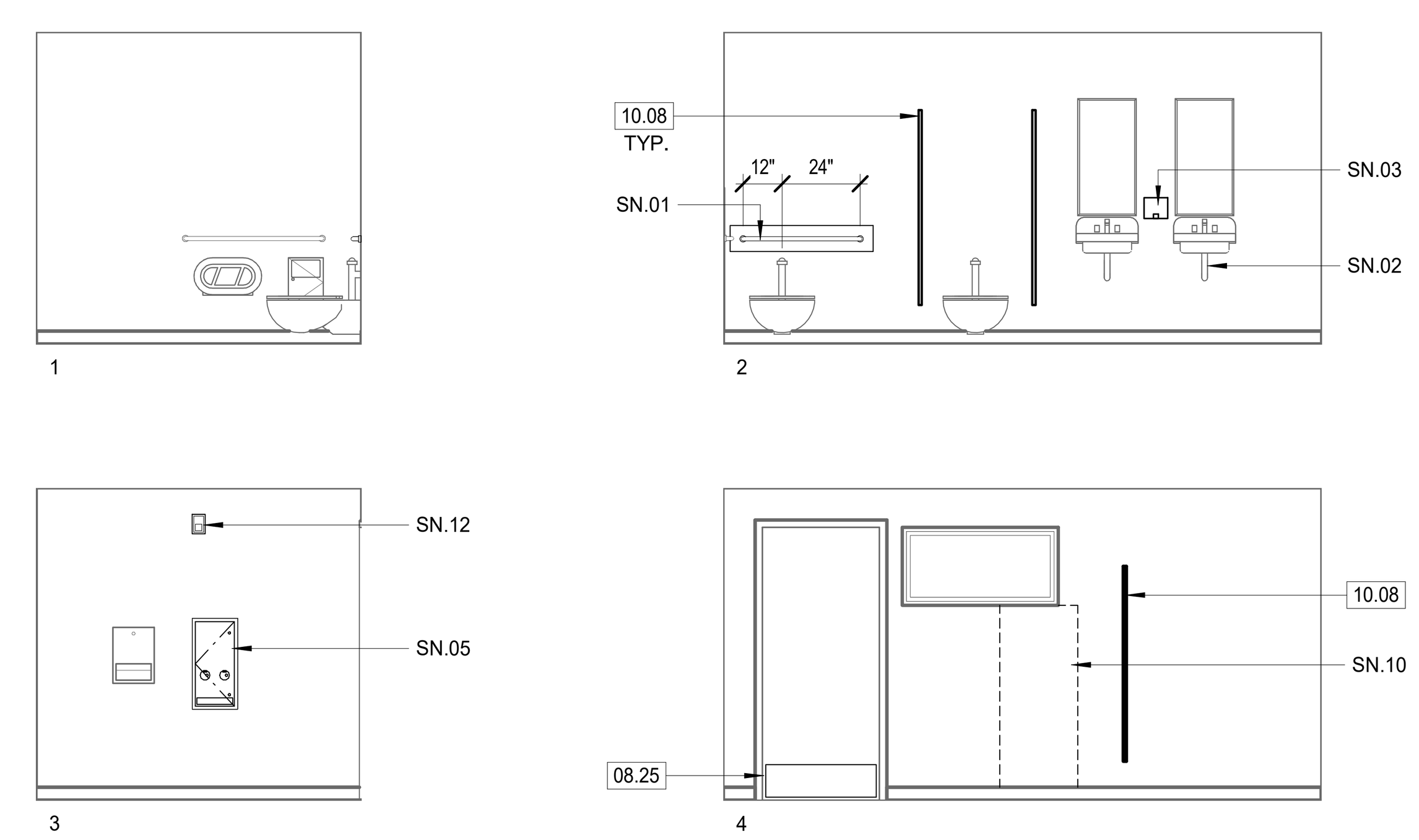
LEGEND

30" x 48" CLEAR SPACE

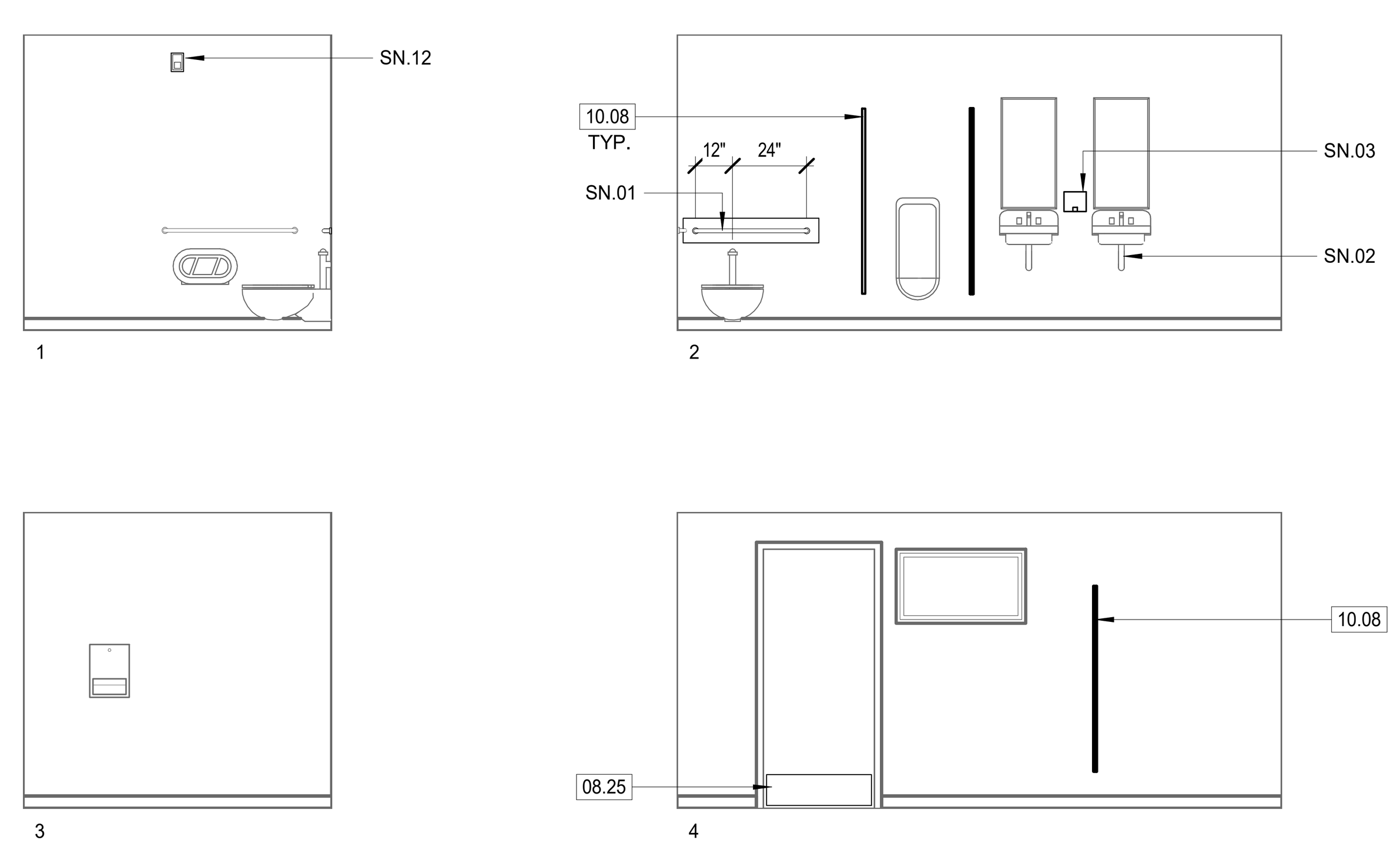
60" DIA. TURNING CIRCLE

CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ELEVATIONS AND ROOM FINISHES.



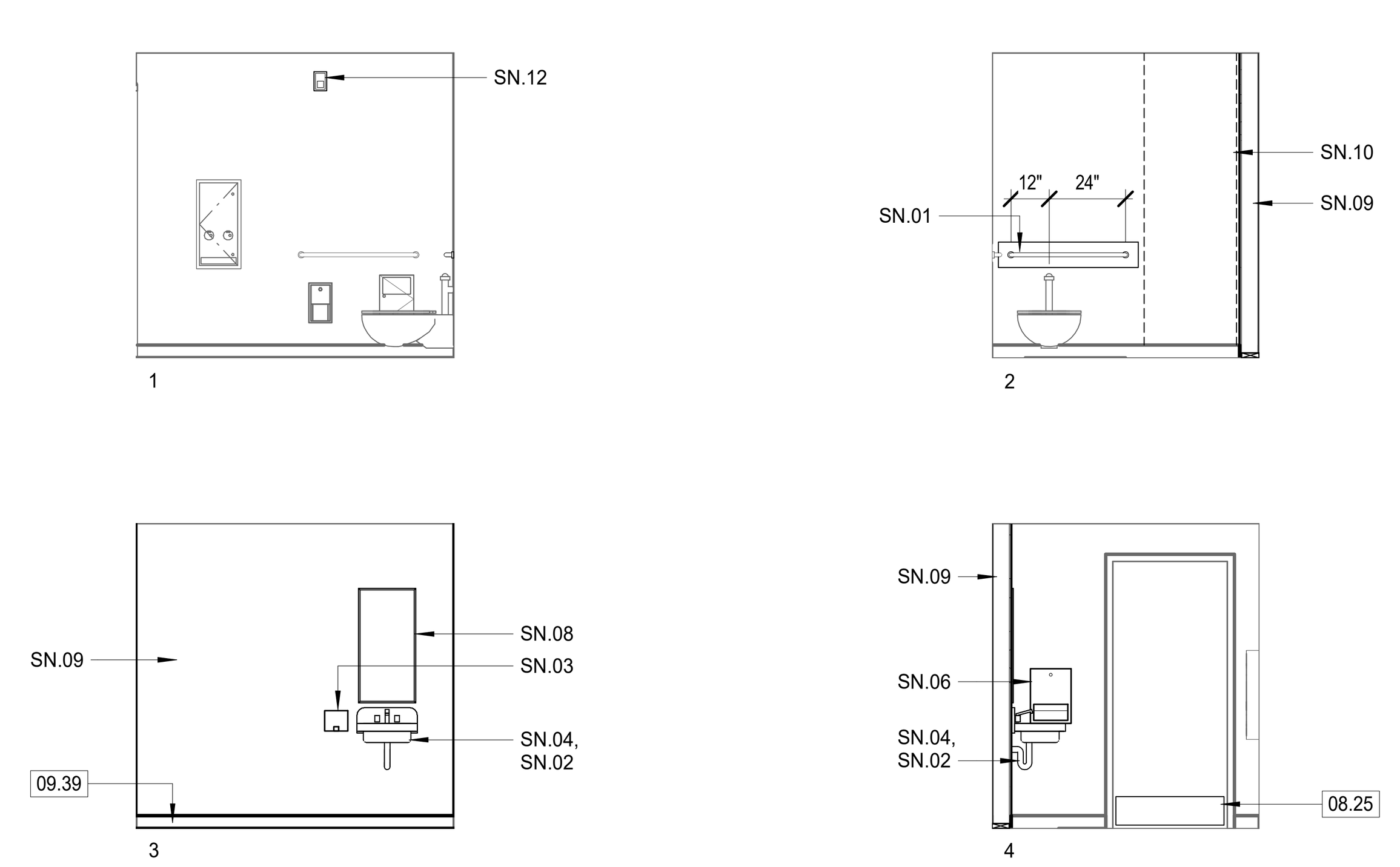
GIRLS RESTROOM - INTERIOR ELEVATIONS - IMPROVEMENT 3

1/4" = 1'-0"



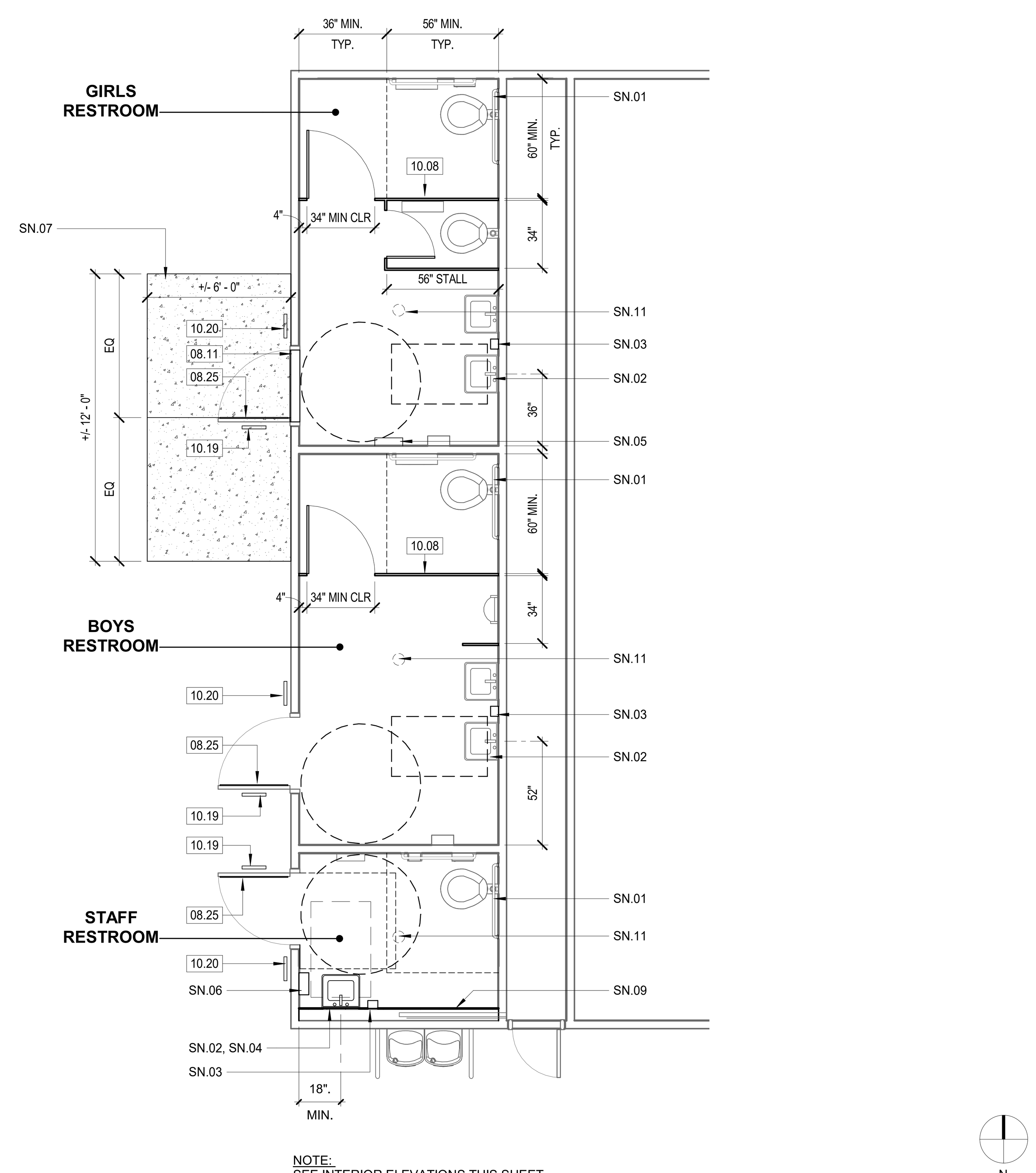
BOYS RESTROOM - INTERIOR ELEVATIONS - IMPROVEMENT 10

1/4" = 1'-0"



STAFF RESTROOM - INTERIOR ELEVATIONS - IMPROVEMENT 9

1/4" = 1'-0"



NOTE:
SEE INTERIOR ELEVATIONS THIS SHEET

ENLARGED PLAN AT TOILET ROOMS - IMPROVEMENT 1

1/4" = 1'-0"

AGENCY APPROVAL:

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LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

08.11	THRESHOLD
08.25	KICK PLATE
09.39	WALL BASE
10.08	TOILET PARTITION
10.19	RESTROOM DOOR SIGN
10.20	RESTROOM WALL SIGN

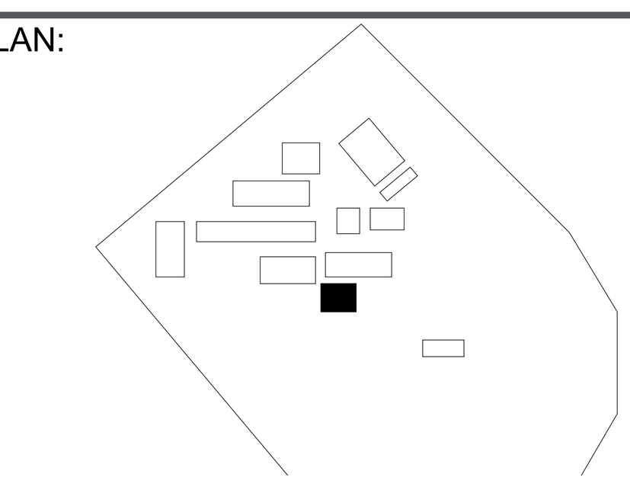
GENERAL NOTES

1. EXISTING FIXTURES AND EQUIPMENT TO REMAIN UNLESS OTHERWISE NOTED
2. FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A10.2
3. DIMENSIONS AT EXISTING WALLS ARE TO FACE OF FINISH, UNLESS OTHERWISE NOTED.
4. PROTECT ALL ADJACENT SURFACES, ITEMS, AND FINISHES NOT NOTED TO BE DEMOLISHED
5. EQUIPMENT/FIXTURES NOTED AS "SALVAGED FOR REINSTALLATION" WILL BE REMOVED AND STORED BY THE CONTRACTOR PRIOR TO START OF DEMOLITION. THESE EQUIPMENT/FIXTURES SHALL BE REINSTALLED BY THE CONTRACTOR UNDER THIS CONTRACT
6. REMOVE ALL ITEMS SCHEDULED TO BE REMOVED, INCLUDING MOUNTING HARDWARE
7. DEMO AND REPAIR WALL FINISH AS NECESSARY TO PERFORM FIXTURE AND EQUIPMENT WORK AS NOTED. ADJACENT FINISHES TO BE VERIFIED BY CONTRACTOR

SHEET NOTES

SN.01	REINSTALL (E) 36" REAR GRAB BAR WITH S.S. PLATE PER 3 / A10.2 MATCH HEIGHT OF (E) SIDE GRAB BAR AND COMPLY WITH 1 / A10.2
SN.02	WRAP ALL EXPOSED PIPES AT SINK WITH INSULATION
SN.03	REINSTALL (E) SOAP DISPENSER TO COMPLY WITH 1 / A10.2
SN.04	REINSTALL (E) LAVATORY TO COMPLY WITH 1 / A10.2
SN.05	REINSTALL (E) SANITARY NAPKIN DISPENSER TO COMPLY WITH 1 / A10.2
SN.06	RESINTALL (E) PAPER TOWEL DISPENSER TO COMPLY WITH 1 / A10.2
SN.07	INSTALL NEW CONCRETE W/ 2% MAX. SLOPE IN ALL DIRECTIONS. EDGES TO HAVE FLUSH TRANSITIONS TO (E) SLAB. SEE CIVIL DWGS.
SN.08	REINSTALL (E) MIRROR TO COMPLY WITH 1 / A10.2
SN.09	2X6 WOOD STUD FURRED WALL. FULL HEIGHT TO 6" ABOVE EXISTING ACOUSTICAL TILE CEILING. MATCH (E) WALL FINISH (FRP o/ GYP. BD.) AND WALL BASE (4" COVED)
SN.10	PATCH AND REPAIR WALL AND FINISH AS NEEDED AFTER RELOCATION OF FIXTURES AND ACCESSORIES. MATCH EXISTING WALL FINISH (FRP o/ GYP. BD.)
SN.11	(E) FIRE ALARM AUTOMATIC INITIATION ON CEILING TO REMAIN
SN.12	(E) FIRE ALARM VISUAL NOTIFICATION TO REMAIN
SN.13	(E) WATER LINE AND WASTE PIPE TO BE INCLOSED WITHIN THE (N) 2X6 STUD WALL

KEY PLAN:



FACILITY:

4720 FOREST PKWY
SACRAMENTO, CA 95823

PROJECT:

PARKWAY ELEMENTARY - SHADE STRUCTURE

SHEET NAME:

TOILET ROOM IMPROVEMENT PLANS AND INTERIOR ELEVATIONS

CONSTRUCTION DOCUMENTS

DATE: 2/09/2024 | CLIENT PROJ NO:

SHEET:

A2.2

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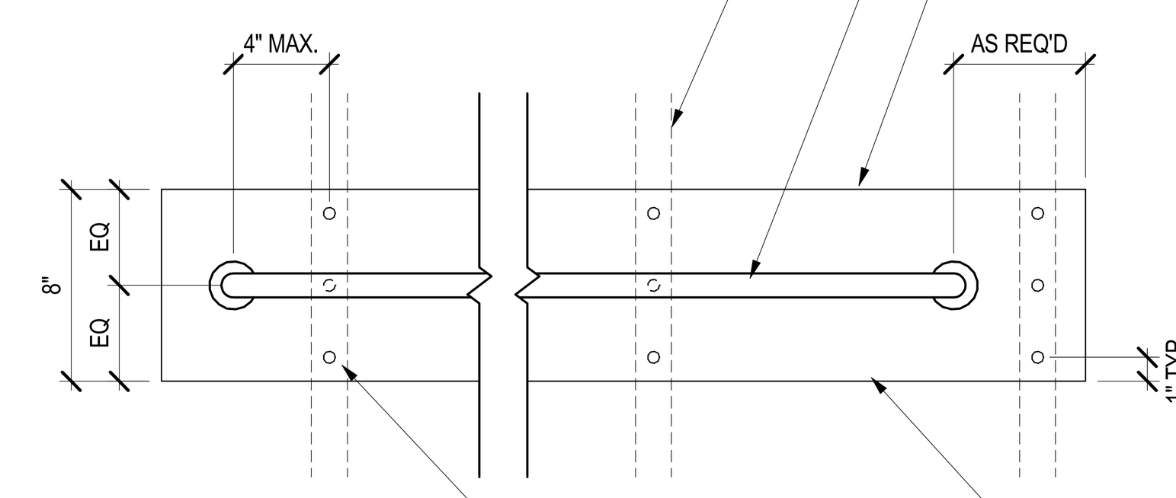
LICENSED ARCHITECT – JEFFREY ALAN GRAY – C-14648 – 5/31/25 RENEWAL DATE – STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE



(E) WOOD STUDS, AS OCCURS

GRAB BAR. ATTACH TO PLATE w/ (3) #12 MACHINE SCREWS AT EACH CONTACT. PRE-DRILL HOLES AS REQUIRED

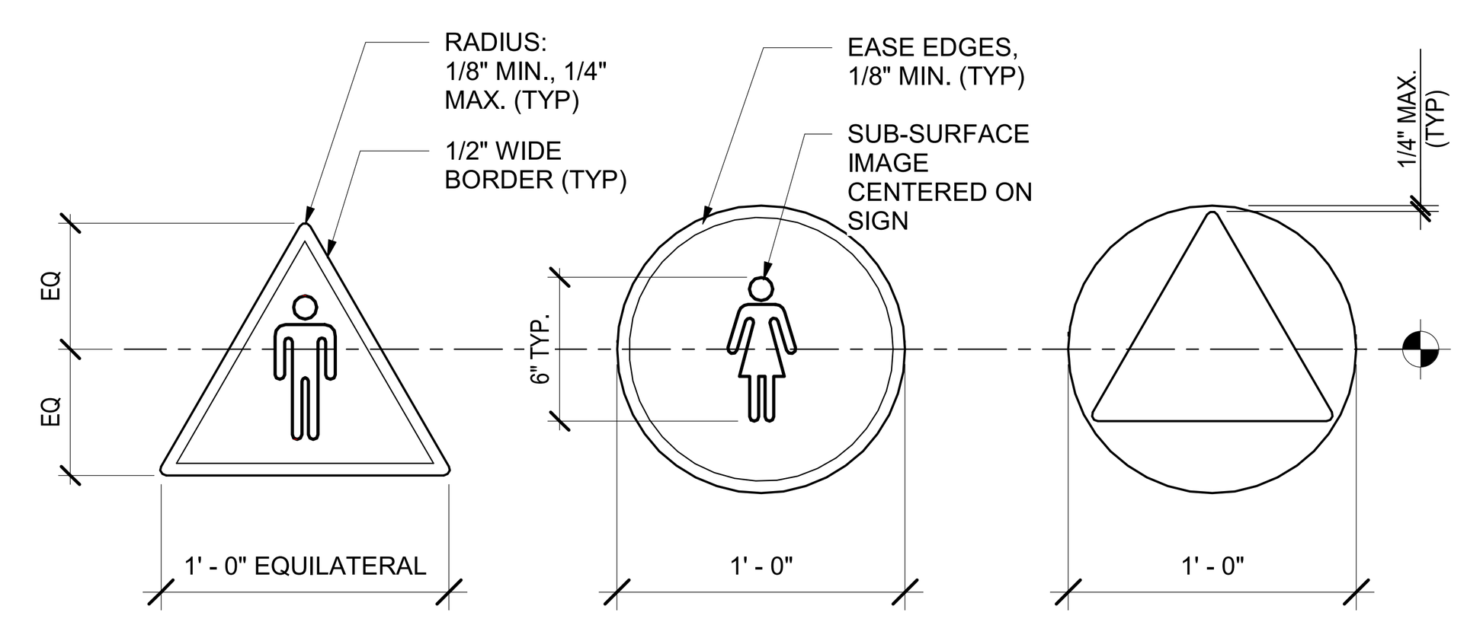
CAULK TOP AND SIDES

3/16" STAINLESS STEEL PLATE, SURFACE ATTACH o/ (E) WALL FINISH. ATTACH PLATE TO (E) STUDS w/ (3) #10 WOOD SCREWS w/ VANDAL RESISTANT HEADS. SCREWS ARE TO BE CENTERED ON WIDTH OF STUDS AND ARE TO HAVE 2" MIN. PENETRATION INTO STUDS. PRE-DRILL HOLES AS REQUIRED TO AVOID SPLITTING

WHERE STUD OCCURS WITHIN 4" OF END OF GRAB BAR, ANCHORAGE MAY BE LOCATED AS SHOWN. OTHERWISE EXTEND PLATE AND ATTACH TO NEXT STUD

NOTES:
1. EASE ALL EXPOSED STAINLESS STEEL EDGES
2. MAINTAIN 12" CLEARANCE ABOVE GRAB BAR, AND 1 1/2" CLEARANCE BELOW AND AT ENDS OF GRAB BAR, PER CBC 11B-609.3

GRAB BAR AT STAINLESS STEEL PLATE — 3
1 1/2" = 1'-0"



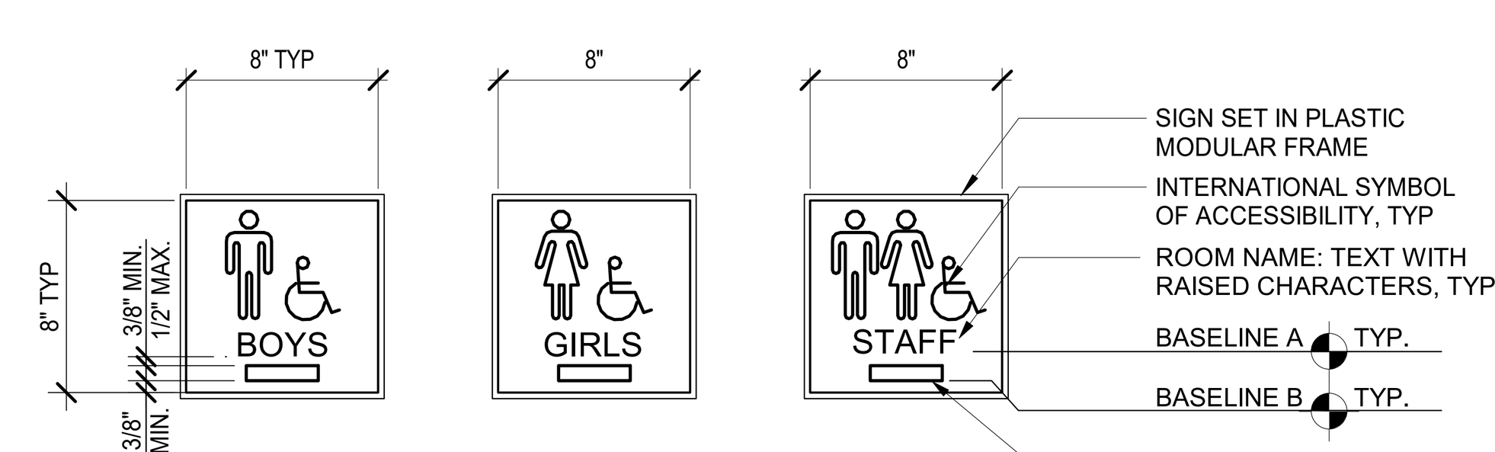
MEN OR BOYS

WOMEN OR GIRLS

STAFF

NOTES:
1. SIGN FIELD COLOR AND BORDER COLOR SHALL CONTRACT WITH DOOR COLOR

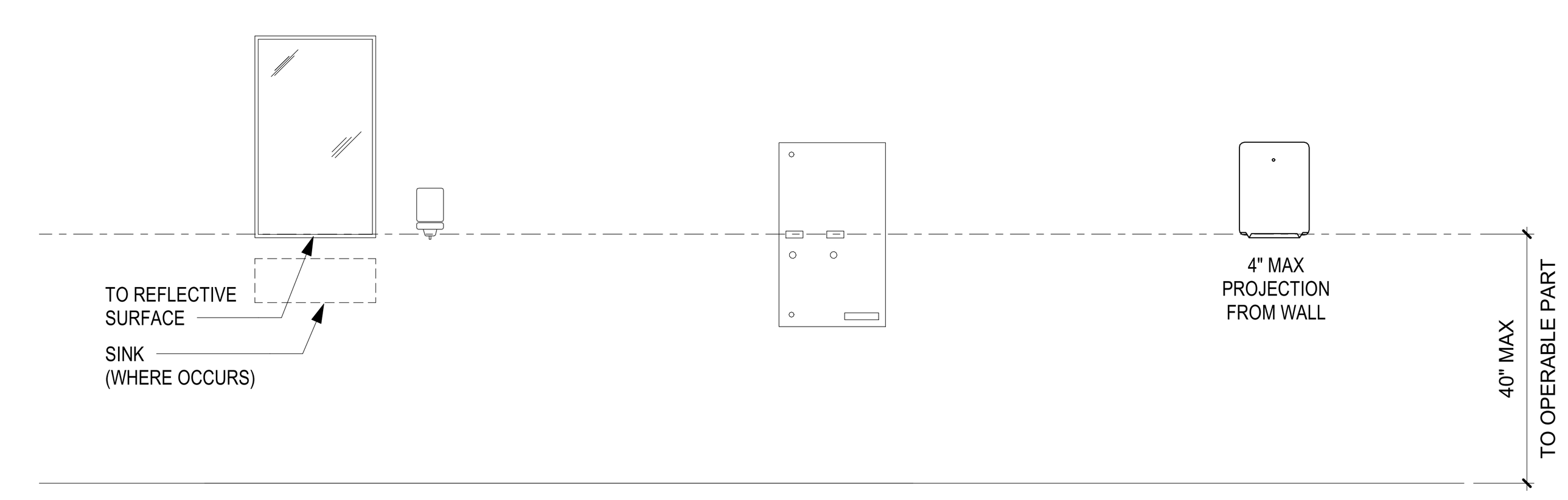
TOILET ROOM DOOR SYMBOLS — 10
1 1/2" = 1'-0"



NOTES: (COMPLY W/ CBC 11B-703)

1. CHARACTERS TO BE 1" HIGH.
2. VERIFY ROOM NAME BEFORE FABRICATION.
3. **BASELINE A (BOT. OF HIGHEST LEVEL OF TEXT) = 59" A.F.F MAX., BASELINE B (LOWEST LINE OF BRAILLE) = 49" A.F.F MIN. (REFER TO 14/A0.2 FOR ACTUAL HEIGHT AND LOCATION).**

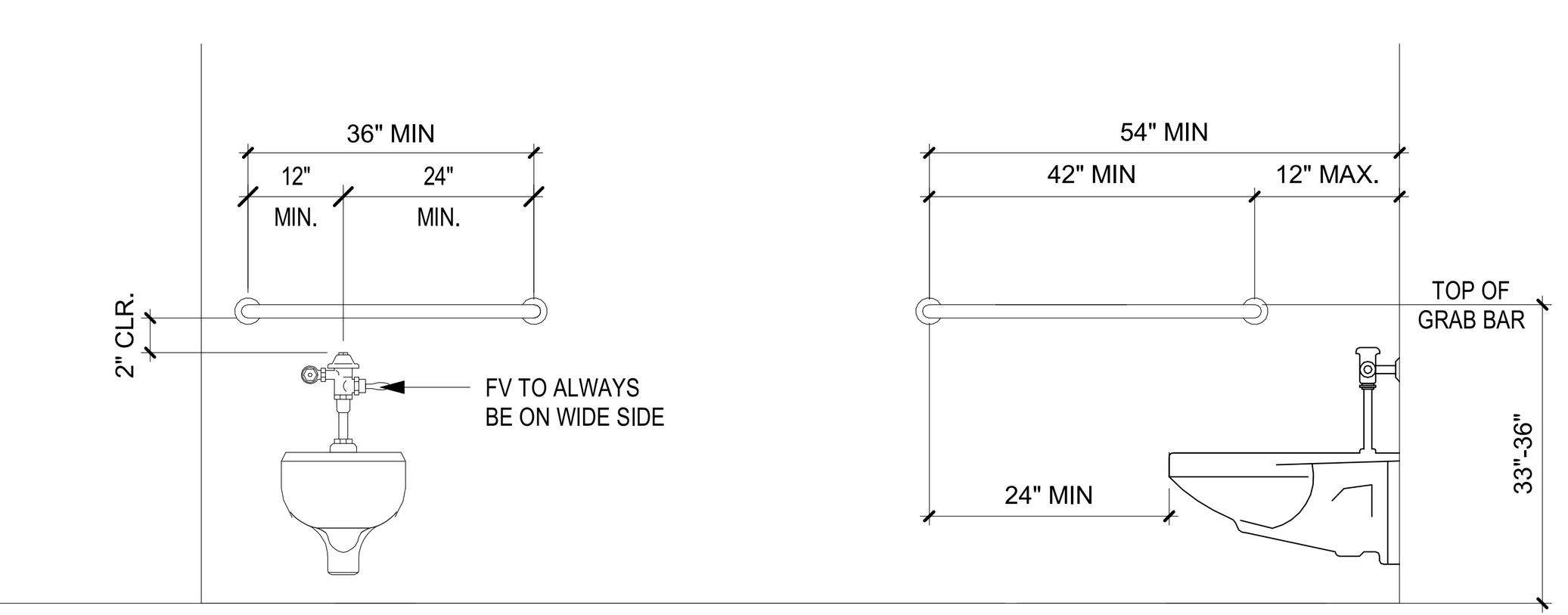
ROOM IDENTIFICATION SIGNS — 9
1 1/2" = 1'-0"



MIRROR/ SOAP DISPENSER

SANITARY NAPKIN VENDING

PAPER TOWEL DISPENSER



GRAB BARS

NOTES:
1. PROVIDE MIN. 30" X 48" CLEAR FLOOR SPACE IN FRONT OF ACCESSORY TO ALLOW FORWARD OR PARALLEL APPROACH.
2. DRAIN AND WATER SUPPLY PIPING SHALL BE INSULATED AND THERE SHALL BE NO SHARP OR ABRASIVE ELEMENTS UNDER LAVATORY.
3. GRAB BAR MOUNTING PER DETAIL 3 / A10.2

STANDARD RESTROOM ACCESSORY MOUNTING — 1
1/2" = 1'-0"

GENERAL NOTES

1. TYPICAL MOUNTING HEIGHTS AND DETAILS APPLY TO ENTIRE PROJECT, WHETHER REFERENCED OR NOT, UNLESS OTHERWISE NOTED
2. ALL DISABLED ACCESSIBLE DIMENSIONS ARE MAXIMUM DIMENSIONS, UNLESS OTHERWISE NOTED
3. HEIGHTS ARE MEASURED FROM FINISH FLOOR, UNLESS OTHERWISE NOTED

FACILITY:
**4720 FOREST PKWY
SACRAMENTO, CA 95823**

PROJECT:
PARKWAY ELEMENTARY - SHADE STRUCTURE

SHEET NAME:
TYPICAL MOUNTING HEIGHTS AND DETAILS

CONSTRUCTION DOCUMENTS

DATE: 2/09/2024 CLIENT PROJ NO:

SHEET:
A10.2

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ABBREVIATION LIST

@	AT
A	AMPERE
AC	ALTERNATING CURRENT
A/C	AIR CONDITIONING
AER	ARC ENERGY REDUCTION
AF	AMP FRAME RATING OR AMP FUSE SIZE
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERES INTERRUPTING CAPACITY
AS	AMP SWITCH RATING
AT	AMP TRIP SETTING
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
BD	BOARD
BFC	BELOW FINISHED CEILING
BRKR	BREAKER
BLDG	BUILDING
BPS	BOOSTER POWER SUPPLY
C	CONDUIT
C/B	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CIRC	CIRCUIT
CLG	CEILING
CO	CONDUIT ONLY, WITH PULL LINE
CONT	CONTINUOUS
CU	COPPER
CWP	METALLIC COLD WATER PIPE
(D)	DEMOLISH
DC	DIRECT CURRENT
DISC	DISCONNECT
DP	DISTRIBUTION PANEL
(E)	EXISTING
E/W	EACH WITH
EA	EACH
EL	EVENING LIGHT
ELEC	ELECTRIC
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EOL	END OF LINE DEVICE
EQUIP	EQUIPMENT
(ER)	EXISTING RELOCATED
ETU	ELECTRONIC TRIP UNIT
EWC	ELECTRICAL WATER COOLER
EWH	ELECTRIC WATER HEATER
(F)	FUTURE
FACP	FIRE ALARM CONTROL PANEL
FAEP	FIRE ALARM EXTENDER PANEL
FATC	FIRE ALARM TERMINAL CABINET
FBO	FURNISHED BY OTHERS
FLUOR	FLUORESCENT
FT	FOOT
GA	GAUGE
GFCI	GROUND FAULT CIRCUIT INTERRUPT
GLZ	GENERAL LIGHTING ZONE
GND	GROUND
GP	METALLIC GAS PIPE
GYP	GYPSUM
HID	HIGH INTENSITY DISCHARGE
HP	HORSE POWER
HT	HEIGHT
HZ	HERTZ
IMC	INTERMEDIATE METALLIC CONDUIT
IN	INCH
ISC	SHORT CIRCUIT CURRENT (RMS SYMMETRICAL)
ISO	ISOLATED
J-BOX	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILLS
KVA	KILO VOLT AMP
KW	KILOWATT
LC	LIGHTING CONTROL PANEL
LV	LOW VOLTAGE
MCM	THOUSAND CIRCULAR MILLS
MECH	MECHANICAL
MDP	MAIN DISTRIBUTION PANEL
MH	METAL HALIDE
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MPOE	MAIN POINT OF ENTRY
MSB	MAIN SWITCHBOARD
(N)	NEW
NIC	NOT IN CONTRACT
NIES	NOT IN ELECTRICAL SECTION OF THESE PLANS & SPECS.
NL	NIGHT LIGHT
NO, #	NUMBER
NTS	NOT TO SCALE
OC.	ON CENTER
OFCI	OWNER FURNISHED, CONTRTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
P	POLE
PB	PULL BOX
PFB	PROVISION FOR FUTURE BREAKER W/ MOUNTING HARDWARE
PDZ	PRIMARY DAYLIT ZONE
PFCT	PROVISION FOR FUTURE CURRENT TRANSFORMER
PH, Ø	PHASE
PLYWD	PLYWOOD
PNL	PANEL
PR	PAIR
PVC	POLYVINYL CHLORIDE CONDUIT
(R)	EXISTING RELOCATED
REQ'D	REQUIRED
RM	ROOM
RMC	RIGID METAL CONDUIT
(RR)	REMOVE AND REPLACE
SDZ	SECONDARY DAYLIT ZONE
SKZ	SKYLIGHT DAYLIT ZONE
SPEC	SPECIFICATION
STC	SIGNAL TERMINAL CABINET
SQ	SQUARE
SW	SWITCH
TEL	TELEPHONE
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLTS
WAP	WIRELESS ACCESS POINT
WP	WEATHERPROOF
WT	WEIGHT
W	WATT
W/	WITH
XFMR	TRANSFORMER
&	AND

GENERAL NOTES

1. PLANS ARE NOT FOR CONSTRUCTION UNTIL APPROVED BY THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL NOT ORDER ANY MATERIALS OR INSTALL ANY EQUIPMENT, PIPING, ETC. UNTIL PLANS ARE APPROVED BY THE AUTHORITY HAVING JURISDICTION.
2. ALL WORK SHALL BE DONE AT SUCH TIME AND IN SUCH MANNER AS PRESCRIBED BY THE SCHOOL'S REPRESENTATIVE.
3. PROTECT EXISTING EQUIPMENT AND FURNISHINGS FROM ANY DAMAGE DUE TO DUST, MOISTURE OR CONTACT WITH WORK CREW OR MATERIALS.
4. THE SCHOOL SHALL BE NOTIFIED AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY POWER SHUTDOWN OF EXISTING PANELS OR SERVICE. SCHEDULE OF SHUTDOWNS SHALL BE AT CONVENIENCE OF THE SCHOOL. THE SCHOOL MAY, AT THEIR OPTION, HAVE A REPRESENTATIVE PRESENT DURING SHUTDOWN. ALL WORK REQUIRING SHUTDOWNS OF EXISTING PANELS OR SERVICE SHALL BE DONE BETWEEN 12:00 AM MIDNIGHT AND 6:00AM WEEKDAYS OR ON SATURDAY AND SUNDAY. REQUIRED SHUTDOWNS SHALL BE KEPT TO A MINIMUM.
5. ADEQUATELY STRAP AND SUPPORT ALL CONDUIT WORK PER CEC. IN GENERAL, SUPPORT ALL CONDUIT WITHIN THREE FEET (3') OF OUTLET BOX, CABINET OR PANEL AND MAXIMUM TEN FEET (10') ON CENTER THEREAFTER.
6. CORE BORE SHALL BE 1" DIAMETER LARGER THAN EACH CONDUIT. SPACE CONDUIT HOLES 3" APART. SEAL AROUND CONDUIT WITH NON-SHRINK, NON-METALLIC GROUT.
7. ALL CONDUCTORS INSTALLED IN PANELBOARDS SHALL BE TRAINED, LACED, AND INSTALLED WITH PHASE TAPE ON ALL CONDUCTORS.
8. LABEL DEVICES (I.E. RECEPTACLES, ETC.) ON EACH COVER PLATE IDENTIFYING CIRCUIT AND PANEL DEVICE IS CONNECTED TO.
9. CLEAN ALL EXTERIOR AND INTERIOR SURFACES OF PANELS AND ALL MATERIAL AND METAL SHAVINGS FROM PANEL AND CABINET INTERIORS. ALL OPENINGS SHALL BE SEALED AND APPLY TOUCH-UP SPRAY PAINT WHERE NEEDED.
10. FIELD COORDINATE DEVICE LOCATIONS PRIOR TO ROUGH-IN.
11. CONTRACTOR WILL PROVIDE WARNING LABELS NOTING THE POTENTIAL FOR ELECTRIC ARC FLASH HAZARDS PER CEC 110.16. PROVIDE LABELS ON EQUIPMENT SUCH AS SWITCHBOARDS, SWITCHGEAR, PANELBOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, MOTOR CONTROL CENTERS, MOTOR STARTER / CONTACTOR PANELS, DISCONNECTS, ETC.. PROVIDE WARNING LABLES BY BRADY, MODEL NO. 101517, OR EQUAL, ON ALL EQUIPMENT.
12. INSTALLATION SHALL COMPLY WITH CEC 210.4 – EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES. THEREFORE ANY CIRCUIT SHARING A COMMON NEUTRAL SHALL BE CAPABLE OF SIMULTANEOUS DISCONNECT OR DEDICATED NEUTRALS SHALL BE INSTALLED.
13. SUPPORT ENCLOSURES, BOXES AND CONDUIT INSTALLATIONS PER CEC 314.23 (A) THROUGH (H).
14. SEAL CONDUIT OPENINGS THROUGH WALLS AND CEILINGS. INSTALL ESCUTCHEON PLATES AT BUILDING INTERIOR. WHERE EQUIPMENT IS INSTALLED ON THE EXTERIOR WALL, STUB CONDUITS THROUGH WALL AND SEAL CONDUIT OPENINGS, THEN INSTALL EXTERIOR EQUIPMENT. ALSO, SEAL AROUND THE PERIMETER EDGE OF THE EQUIPMENT ENCLOSURE BETWEEN THE ENCLOSURE AND BUILDING.
15. RACEWAY SEALS. ALL RACEWAYS ENTERING/EXITING A BUILDING SHALL BE SEALED AT BOTH ENDS TO PREVENT MOISTURE AND RODENTS FROM ENTERING THE BUILDING. SEALANTS SHALL BE LISTED FOR USE WITH CABLE INSULATION, CONDUCTOR INSULATION, BARE CONDUCTOR, SHIELD, OR OTHER COMPONENTS.
16. CONDUITS INSTALLED ON ROOF AND BUILDING EXTERIOR SHALL BE RIGID GALV. STEEL (HEAVY WALL) WITH THREADED FITTINGS. CONDUIT AND WALL TO BE PAINTED OUT TO MATCH EXTERIOR FINISH.
17. EXPOSED CONDUITS TRANSITIONING FROM BELOW OR AT GRADE TO A HEIGHT OF 8 FEET AFG SHALL BE RMC OR IMC.
18. SPLICES AND TERMINALS SHALL BE COMPRESSION TYPE OF SEAMLESS PURE COPPER, TIN PLATED, LONG BARREL (TERMINALS WITH TWO-HOLE PAD AND INSPECTION WINDOW WITH NEMA DRILLING), AS MANUFACTURED BY BURNDY TYPE YS, YAZ-2N OR EQUAL. CLEAN ALL SURFACES AND INSTALL WITH OXIDE INHIBITING COMPOUND, BURNDY PENETROX-E OR EQUAL. APPLY COMPOUND BETWEEN BUS AND LUG PAD AND BETWEEN CONDUCTOR AND LUG BARREL. INSTALL COMPRESSION CONNECTORS WITH 360° CIRCUMFERENTIAL COMPRESSION DYE, BURNDY HYPRESS OR EQUAL. THE INDENTER OR OTHER TYPE TOOLS WILL NOT BE ACCEPTABLE.
19. INSTALL 'MECHANICALLY FASTENED PHENOLIC NAMEPLATE WITH WHITE LETTERING ON BLACK BACKGROUND ON ALL EQUIPMENT, INCLUDING PULL BOXES, WITH DESCRIPTION INDICATED ON DRAWINGS. NAMEPLATES SHALL READ EXACTLY AS DESCRIBED ON THE DRAWINGS. IN GENERAL NAMEPLATE LETTERING SIZE SHALL BE 3/16" HIGH FOR ALL NAMEPLATES SERVING FEEDER AND BRANCH CIRCUIT BREAKERS. ON MAIN SERVICE PANEL, DISTRIBUTION PANELS AND ALL OTHER NAMEPLATES LETTERING SHALL BE 1/4" HIGH.
    - 19.1. ALL SWITCHBOARDS, SWITCHGEAR, PANELBOARDS, VFD'S, MOTORS, JUNCTION BOXES, PULL BOXES, DISCONNECT SWITCHES, ETC., SHALL BE MARKED TO INDICATE EACH DEVICE OR EQUIPMENT WHERE THE POWER ORIGINATES PER CEC 408.4, FIELD IDENTIFICATION REQUIRED, (B) SOURCE OF SUPPLY.
20. EVERY CIRCUIT SHALL BE IDENTIFIED IN A CIRCUIT DIRECTORY AND AT EACH SWITCH OR CIRCUIT BREAKER PER CEC 408.4, FIELD IDENTIFICATION REQUIRED, (A) CIRCUIT DIRECTORY OR IDENTIFICATION. CIRCUIT DIRECTORIES (NEW AND MODIFIED) SHALL BE TYPE WRITTEN, HAND MADE MODIFICATIONS TO PANEL DIRECTORIES WILL NOT BE ACCEPTABLE. CIRCUIT NUMBERS AT SWITCHES OR CIRCUIT BREAKERS SHALL BE ENGRAVED OR A PERMANENTLY AFFIXED PRE-PRINTED LABELS.
21. COORDINATE EQUIPMENT LOCATIONS, CONTROL AND POWER WIRING REQUIREMENTS AND CONNECT POINTS WITH ALL APPLICABLE DISCIPLINES.
22. PROVIDE AND INSTALL FUSES PER UNIT NAMEPLATE DATA ON THE EQUIPMENT PROVIDED.
23. PRIOR TO ORDERING LUMINAIRES, CONFIRM THAT FEATURES DESCRIBED IN THE SPECIFICATION OF THE LUMINAIRE ARE INCLUDED AS WELL AS PART NUMBERS LISTED ON SCHEDULE IN THE SUBMITTAL PACKAGE. CLARIFY NOTED DISCREPANCIES WITH ENGINEER PRIOR TO BID.
24. ALL ELECTRICAL SYSTEMS (CONTROLLED RECEPTACLES, LIGHTING CONTROLS, INTRUSION, FIRE ALARM, ETC.) SHALL BE PROVIDED AS WIRED SYSTEMS UNLESS THE SYSTEM/PRODUCTS ARE SPECIFICALLY IDENTIFIED AS A WIRELESS PRODUCT TO BE PROVIDED. WIRELESS SYSTEMS WILL NOT BE ACCEPTED AS A SUBSTITUTION FOR A SPECIFIED WIRED SYSTEM/PRODUCT.
25. A LAMINATED COPY OF THE FINAL RECORD ONE LINE DIAGRAM SHALL BE PLACED IN ELEC ROOM.
26. PROVIDE WIRING DEVICES AND COVER PLATES IN COLOR(S) SELECTED BY ARCHITECT. THE COLOR OF THE WIRING DEVICE AND COVER PLATE SHALL BE THE SAME UNLESS SPECIFICALLY NOTED OTHERWISE.
27. WEATHERPROOF SHADE STRUCTURE RECEPTACLE COVERS SHALL BE LISTED "EXTRA DUTY", LOCAKBLE, METAL, TYPE HUBBELL RAYNTITE #5028-0.
    - 27.1. GROUND FAULT CIRCUIT INTERRUPTER DUPLEX OUTLETS INSTALLED OUTDOORS SHALL BE "WEATHER RESISTANT" (WR) AND "TAMPER PROOF" (TR) LISTED.
28. REINSTALL EXISTING ELECTRICAL INSTALLATIONS DISTURBED. CERTAIN EXISTING ELECTRICAL INSTALLATIONS MAY BE LOCATED IN WALLS, CEILINGS OR FLOORS THAT ARE TO BE REMOVED AND ARE ESSENTIAL FOR THE OPERATION OF OTHER REMAINING INSTALLATIONS. WHERE THIS CONDITIONS OCCURS, PROVIDE A NEW EXTENSION OF ORIGINAL CIRCUITS, RACEWAYS, EQUIPMENT AND OUTLETS TO RETAIN SERVICE CONTINUITY. INSTALLATIONS SHALL BE CONCEALED IN FINISHED AREAS. WHERE ELECTRICAL EQUIPMENT, BOXES, DEVICES, AND/OR RACEWAYS ARE REMOVED, PATCH AND PAINT SURFACES TO MATCH ADJACENT FINISH.
29. FOR ROOF PENETRATIONS, REFER TO ARCHITECTURAL PLANS FOR INSTALLATION REQUIREMENTS.
30. FOR WALL PENETRATION INSTALLATIONS, REFER TO ARCHITECTURAL PLANS FOR REQUIREMENTS.
31. PROVIDE "LOCK-ON" DEVICE FOR ALL CIRCUIT BREAKERS ON EMERGENCY DEDICATED CIRCUITS.
32. DRAWINGS ARE TO BE CONSIDERED DIAGRAMMATIC. CONTRACTOR SHALL ACCEPT RESPONSIBILITY IN FAMILIARIZING THEMSELVES WITH ARCHITECTURAL AND STRUCTURAL CONDITIONS ALONG WITH INHERENT SPACE LIMITATIONS. WITH THAT UNDERSTANDING SHALL PROVIDE ALL ITEMS OF LABOR, MATERIALS AND TOOLS REQUIRED TO PROVIDE A COMPLETE INSTALLATION.
33. MAINTAIN A MINIMUM OF 12" SEPARATION BETWEEN ANY CONDUIT AND (E) UTILITY CONDUIT.
34. FOR INTERSECTING TRENCHED CONDUIT, MAINTAIN OR EXCEED THE MINIMUM CONDUIT DEPTH REQUIREMENTS.

MEP COMPONENT ANCHORAGE NOTE

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

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVEABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/20 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVEABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

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

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

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

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

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

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM OR OPS FOR 2019 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP ☐ MD ☐ PP ☐ E ■ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP ☐ MD ☐ PP ☐ E ☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE HCAI PRE-APPROVAL (OPM # OR OSP #) #____________.

SYMBOLS LIST

- A2 2a: LED, FLUORESCENT OR HID FIXTURE { CONTROLLED BY SWITCH "a" / CONNECTED TO CIRCUIT 2 / FIXTURE TYPE A2 } APPLIES TO ALL FIXTURES
- LED, FLUORESCENT OR HID FIXTURE – WALL MOUNTED
- LED, FLUORESCENT OR HID FIXTURE – CEILING RECESSED
- LED, FLUORESCENT FIXTURE – SEE FIXTURE SCHEDULE FOR MOUNTING
- LED, FLUORESCENT FIXTURE – WALL MOUNTED
- EXIT LIGHT FIXTURE
- SHADING INDICATES FIXTURE HAS EMERGENCY BATTERY BACKUP
- "MASTER" FIXTURE / "SATELLITE" FIXTURE / PRE-WIRED FIXTURE WHIP INCLUDED AS PART OF FIXTURE } PAIR OF TANDEM WIRED FLUORESCENT GRID FIXTURES
- SITE LIGHTING FIXTURE AND POLE
- BOLLARD AND/OR POLE TOP LIGHT FIXTURE
- GROUND MOUNTED FLOODLIGHT FIXTURE
- FUSED DISCONNECT SWITCH
- DUPLEX CONVENIENCE OUTLET
- DOUBLE DUPLEX CONVENIENCE OUTLET
- GROUND FAULT CIRCUIT INTERRUPTER DUPLEX OUTLET
- GROUND FAULT CIRCUIT INTERRUPTER DOUBLE DUPLEX OUTLET
- SPLIT DUPLEX OUTLET WITH: ONE CONVENIENCE OUTLET, ONE CONTROLLED OUTLET
- DOUBLE DUPLEX OUTLET WITH: ONE DUPLEX CONVENIENCE OUTLET, ONE CONTROLLED DUPLEX OUTLET
- ISOLATED GROUNDING DUPLEX OUTLET
- DOUBLE DUPLEX ISOLATED GROUNDING OUTLET
- EMERGENCY DUPLEX OUTLET
- EMERGENCY DOUBLE DUPLEX OUTLET
- SPECIAL OUTLET TO MATCH CAP PROVIDED WITH MACHINE
- FLUSH FLOOR BOX OR "POKE-THRU" UNIT EQUIPPED WITH FLUSH OR PEDESTAL DUPLEX RECEPTACLE AND VOICE/DATA OUTLETS AS NOTED, OR REFER TO SCHEDULE ON DRAWINGS.
- PLUGMOLD/WIREMOLD RECEPTACLE SYSTEM
- TRANSFORMER
- JUNCTION BOX, SIZE AS REQUIRED BY CODE
- FLEX CONNECTION TO FIXTURE
- PANELBOARD, RECESSED MOUNTED
- PANELBOARD, SURFACE MOUNTED
- MAIN SWITCHBOARD
- HOMERUN TO PANELBOARD OR RESPECTIVE TERMINAL
- CONDUIT RUN CONCEALED IN CEILING OR WALL, SEE SYMBOLS LIST NOTES
- CONDUIT RUN UNDERGROUND OR UNDER FLOOR
- —EM— EMERGENCY SYSTEM CONDUIT AND WIRES
- INSULATED GREEN GROUND CONDUCTOR
- INSULATED ISOLATED GROUND CONDUCTOR, GREEN WITH TRACER STRIPE
- CONDUIT RISER
- EXISTING EQUIPMENT, LIGHTING, DEVICES, CONDUIT, WIRING, ETC., ARE SHOWN LIGHT. NEW OR RELOCATED EQUIPMENT, LIGHTING, DEVICES, CONDUIT, WIRING, ETC., ARE SHOWN DARK.
- EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED
- WIREMOLD SURFACE RACEWAY(S) WITH OUTLETS AS SHOWN OR NOTED, SEE SURFACE RACEWAY SCHEDULE
- (1) 1: SYMBOLS REFERRING TO KEYED NOTES ON SAME SHEET
- AC 1: MECHANICAL EQUIPMENT BY OTHERS, CONNECTED BY ELECTRICAL CONTRACTOR
- A E1: DETAIL DESIGNATION, "A" SIGNIFIES DETAIL, "E-1" SIGNIFIES SHEET NUMBER
- (1)1-1/2"C ← INDICATES SIZE OF CONDUIT = ONE AND ONE HALF INCH CONDUIT; NUMBER WITHIN PARENTHESIS INDICATES QUANTITY OF CONDUITS

SYMBOLS LIST NOTES:

1. MOUNT SWITCH BOXES AT +48" TO TOP OF BOX UNLESS OTHERWISE NOTED.
2. MOUNT OUTLET BOXES AT +15" TO BOTTOM OF BOX UNLESS OTHERWISE NOTED.
3. "A" ADJACENT TO OUTLET INDICATES OUTLET BOX TO BE MOUNTED ABOVE COUNTER. COORDINATE WITH COUNTER HEIGHT AND DEPTH PRIOR TO ROUGH IN. MOUNT OUTLET ABOVE COUNTERS AT:
    - 3.1. +46" MAX TO TOP OF BOX WHERE BOX IS INSTALLED OVER BASE CABINET.
    - 3.2. +44" MAX TO TOP OF BOX WITH OPEN COUNTERS WITH FORWARD APPROACH.
4. OUTLET BOXES SHALL BE:
    - 4.1. WALL MOUNTED – 4" SQ. x 2-1/8" DEEP MINIMUM
    - 4.2. CEILING MOUNTED – 4" SQ. OR 4" OCT. x 2-1/8" DEEP MINIMUM
5. OUTLET BOXES REQUIRING 1-1/4", 1-1/2" OR 2" CONDUITS SHALL BE 4-11/16" x 3-1/4" DEEP MINIMUM.
6. FLUSH MOUNTED OUTLET BOXES SHALL UTILIZE TRIM RINGS. COORDINATE TRIM RING DEPTH WITH WALL FINISH PRIOR TO ROUGH-IN.
7. NO CROSSBARS ON CONDUIT RUN INDICATES MINIMUM 3/4" CONDUIT (OR SURFACE RACEWAY EQUIVALENT), TWO #12 CU CONDUCTORS PLUS 1#12 CU GND. CROSSBARS INDICATE NUMBER OF #12 CU CONDUCTORS IN CONDUIT. CONDUCTOR SIZES OTHER THAN #12 NOTED ON DRAWINGS. INCREASE CONDUIT SIZE AS REQUIRED TO ACCOMMODATE C.E.C. WIRE FILL REQUIREMENTS. INCLUDE ADDITIONAL BOND WIRE IN ALL PVC AND FLEXIBLE CONDUIT. LONG CROSSBAR INDICATES NEUTRAL CONDUCTOR, SHORT CROSSBARS INDICATE PHASE CONDUCTORS.
8. INCREASE BRANCH CIRCUIT CU CONDUCTOR SIZES AS REQUIRED BY THE 120V BRANCH CIRCUIT VOLT DROP CONDUCTOR LENGTH CHART BELOW. USE CONDUCTOR LENGTHS AS FIELD MEASURED, BASED UPON MEASURED FIELD ROUTING LENGTHS. INCREASE MINIMUM CONDUIT SIZE AS REQUIRED TO ACCOMMODATE A MAXIMUM 40% CONDUCTOR FILL OF THE BRANCH CIRCUIT CONDUCTORS. WHERE NECESSARY, PROVIDE A JUNCTION BOX AT ACCESSIBLE CEILING SPACE TO CONVERT THE LAST 15 FEET OF CONDUCTORS TO #10 AWG TO ACCOMMODATE TERMINATION OF CONDUCTORS AT WIRING DEVICES, LIGHTING FIXTURES, CIRCUIT BREAKER, ETC.
9. INSTALL CU GROUND CONDUCTOR IN ALL BRANCH CIRCUITS FOR LIGHT FIXTURES AND POWER DEVICES.

120V BRANCH CIRCUIT VOLT DROP CONDUCTOR LENGTH CHART

LOAD IN VOLT AMPERES	LENGTH OF CONDUCTOR WIRE SIZE IN (GAUGE)				
	#12	#10	#8	#6	#4
1200VA	74	121	183	284	434
1560VA	57	93	141	218	334
1800VA	49	81	122	189	289
1920VA	46	76	115	178	271
2340VA	X	62	94	146	223
2880VA	X	51	76	118	181
3000VA	X	48	73	114	174
3900VA	X	X	56	87	134
4800VA	X	X	46	71	108

NOTES
1. THIS CHART IS FOR COPPER CONDUCTORS ONLY.
2. THIS CHART ASSUMES AN 80% POWER FACTOR AND STEEL RACEWAYS.
3. 2022 CALIFORNIA ENERGY CODE, 130.5(c) ALLOWS A MAXIMUM COMBINED VOLTAGE DROP OF 5%. THIS CHART ASSUMES A MAXIMUM DROP OF 3% FOR FEEDERS. THIS CHART PROVIDES THE MAXIMUM LENGTH OF CONDUCTORS FOR LESS THAN 2% VOLTAGE DROP ON A BRANCH CIRCUIT AT GIVEN VA LOAD.
4. USE WIRE SIZE FROM THIS CHART UNLESS LARGER CONDUCTOR SIZES ARE NOTED ON THE DRAWINGS.
5. FOR VA VALUES NOT SHOWN USE NEXT HIGHEST VALUE FROM THE CHART

AGENCY APPROVAL:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121825 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 02/15/2024

Sacramento City UNIFIED SCHOOL DISTRICT

HMC Architects
3186069000
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ISSUE

Δ DESCRIPTION DATE

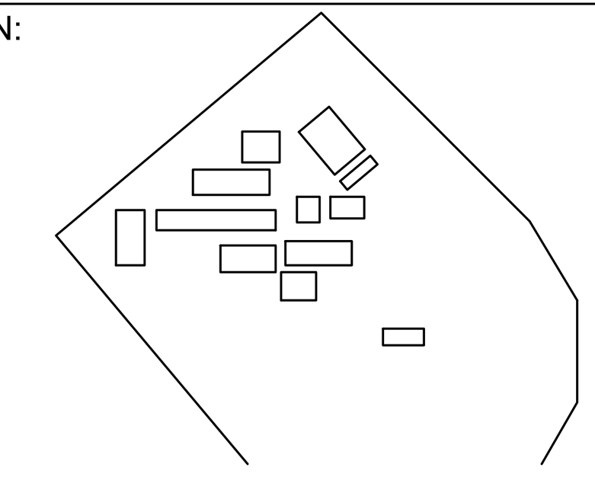
REGISTERED PROFESSIONAL ENGINEER GINO R. ROMANO 17247 Exp. 6/30/24 ELECTRICAL STATE OF CALIFORNIA

PLOT DATE: 2/8/2024

PETERS engineering
7750 College Town Dr. ste.101
Sacramento, CA 95826
Tel (916) 447-2841
www.peterseng.com
Job no. 23.064
consulting mechanical and electrical engineers

NOTES

KEY PLAN:



FACILITY:

4720 FOREST PKWY
SACRAMENTO, CA 95823

PROJECT:

PARKWAY ELEMENTARY - SHADE STRUCTURE

SHEET NAME:

SYMBOLS & NOTES

CONSTRUCTION DOCUMENTS

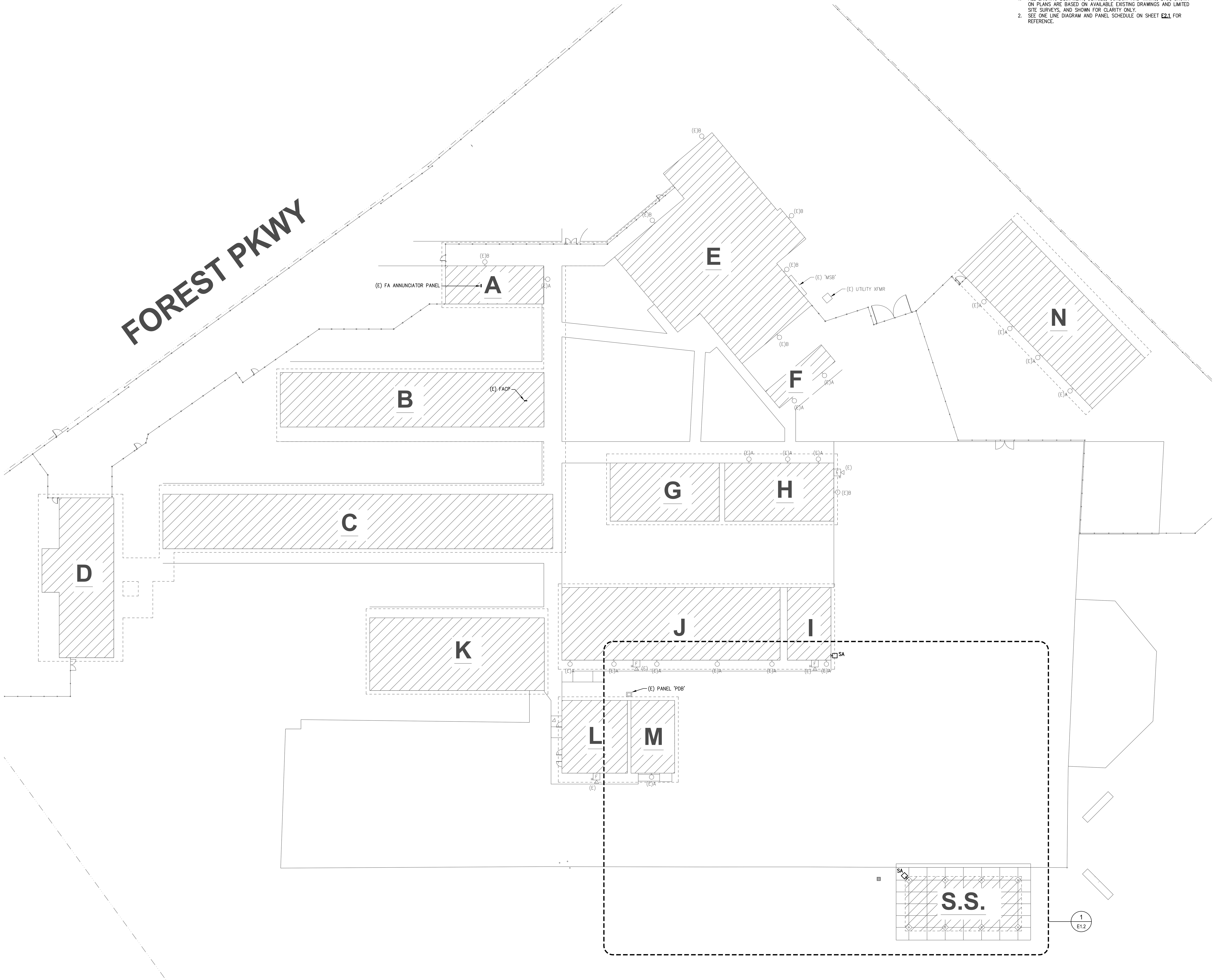
DATE: 2/09/2024 CLIENT PROJ NO:

SHEET:

E0.1

SHEET NOTES:

1. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DRAWINGS AND LIMITED SITE SURVEYS, AND SHOWN FOR CLARITY ONLY.
2. SEE ONE LINE DIAGRAM AND PANEL SCHEDULE ON SHEET E2.1 FOR REFERENCE.



1 SITE PLAN - ELECTRICAL
SCALE: 1" = 20'

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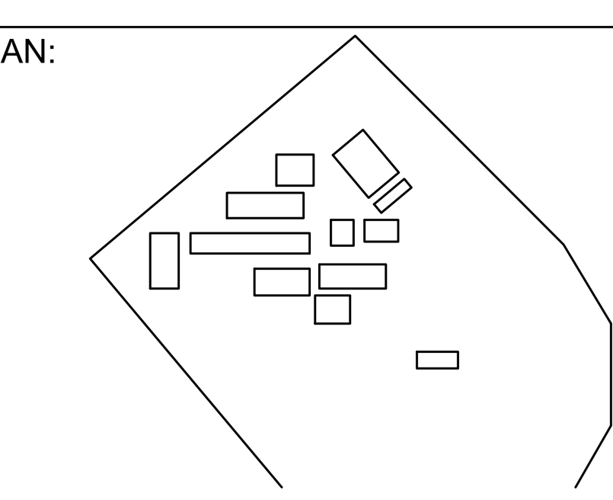

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4720 FOREST PKWY
SACRAMENTO, CA 95823

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PARKWAY ELEMENTARY - SHADE STRUCTURE

SHEET NAME:
SITE PLAN - ELECTRICAL

CONSTRUCTION DOCUMENTS

DATE: 2/09/2024
CLIENT PROJ NO:

SHEET:
E1.1

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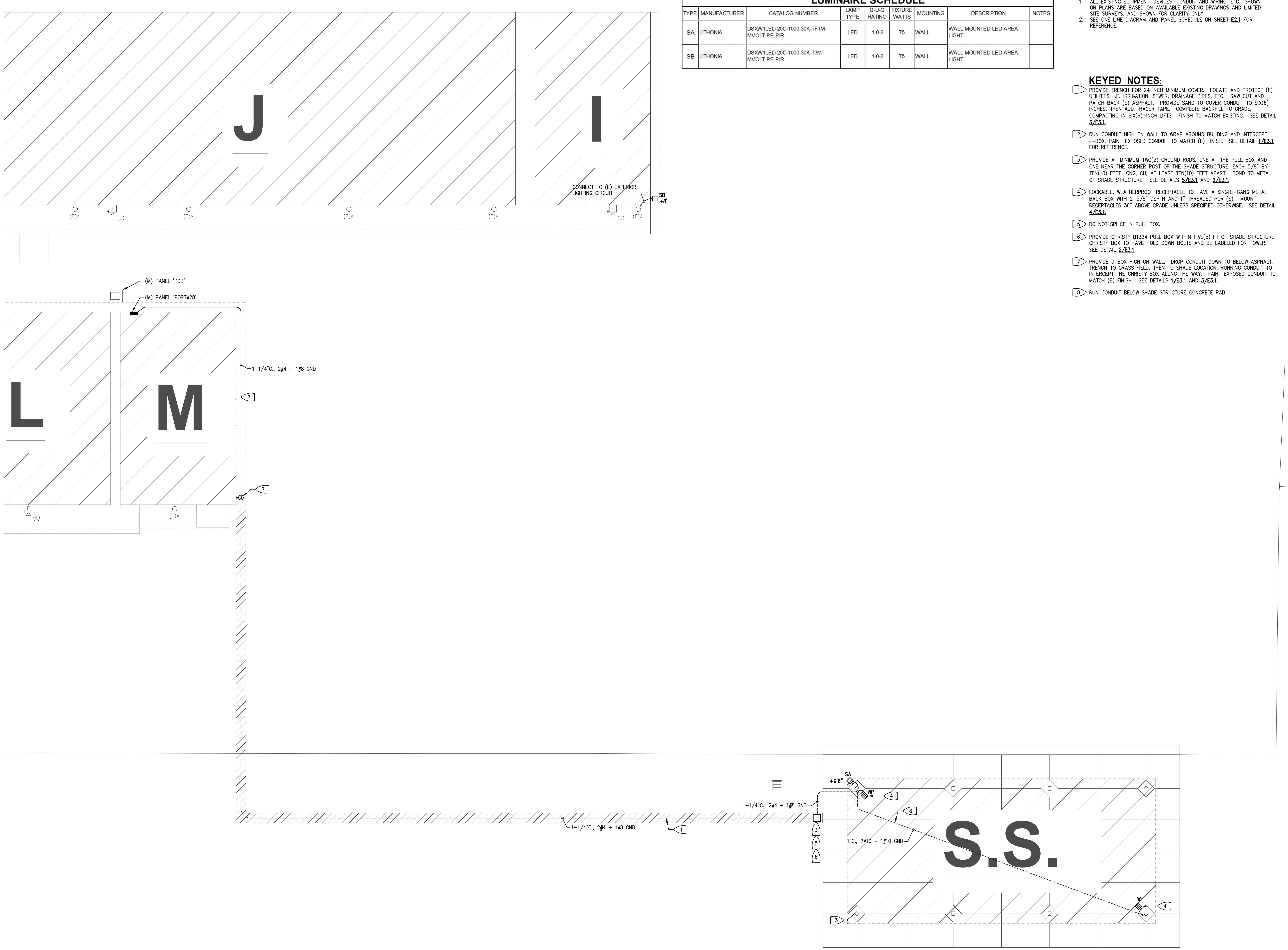
PLEASE RECYCLE

LUMINAIRE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	LAMP TYPE	B-U-G RATING	FIXTURE WATTS	MOUNTING	DESCRIPTION	NOTES
SA	LITHONIA	DSXW1LED-20C-1000-30K-TFTM-MVOLT-PE-PIR	LED	1-0-2	75	WALL	WALL MOUNTED LED AREA LIGHT	
SB	LITHONIA	DSXW1LED-20C-1000-30K-T3M-MVOLT-PE-PIR	LED	1-0-2	75	WALL	WALL MOUNTED LED AREA LIGHT	



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

SHEET NOTES:

1. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DRAWINGS AND LIMITED SITE SURVEYS, AND SHOWN FOR CLARITY ONLY.
2. SEE ONE LINE DIAGRAM AND PANEL SCHEDULE ON SHEET E2.1 FOR REFERENCE.

KEYED NOTES:

1. PROVIDE TRENCH FOR 24 INCH MINIMUM COVER. LOCATE AND PROTECT (E) UTILITIES, I.E. IRRIGATION, SEWER, DRAINAGE PIPES, ETC. SAW CUT AND PATCH BACK (E) ASPHALT. PROVIDE SAND TO COVER CONDUIT TO SIX(6) INCHES, THEN ADD TRACER TAPE. COMPLETE BACKFILL TO GRADE, COMPACTING IN SIX(6)-INCH LIFTS. FINISH TO MATCH EXISTING. SEE DETAIL 3/E3.1.
2. RUN CONDUIT HIGH ON WALL TO WRAP AROUND BUILDING AND INTERCEPT J-BOX. PAINT EXPOSED CONDUIT TO MATCH (E) FINISH. SEE DETAIL 1/E3.1 FOR REFERENCE.
3. PROVIDE AT MINIMUM TWO(2) GROUND RODS, ONE AT THE PULL BOX AND ONE NEAR THE CORNER POST OF THE SHADE STRUCTURE, EACH 5/8" BY TEN(10) FEET LONG, CU, AT LEAST TEN(10) FEET APART. BOND TO METAL OF SHADE STRUCTURE. SEE DETAILS 5/E3.1 AND 2/E3.1.
4. LOCKABLE, WEATHERPROOF RECEPTACLE TO HAVE A SINGLE-GANG METAL BACK BOX WITH 2-5/8" DEPTH AND 1" THREADED PORT(S). MOUNT RECEPTACLES 36" ABOVE GRADE UNLESS SPECIFIED OTHERWISE. SEE DETAIL 4/E3.1.
5. DO NOT SPLICE IN PULL BOX.
6. PROVIDE CHRISTY B1324 PULL BOX WITHIN FIVE(5) FT OF SHADE STRUCTURE. CHRISTY BOX TO HAVE HOLD DOWN BOLTS AND BE LABELED FOR POWER. SEE DETAIL 2/E3.1.
7. PROVIDE J-BOX HIGH ON WALL. DROP CONDUIT DOWN TO BELOW ASPHALT. TRENCH TO GRASS FIELD, THEN TO SHADE LOCATION, RUNNING CONDUIT TO INTERCEPT THE CHRISTY BOX ALONG THE WAY. PAINT EXPOSED CONDUIT TO MATCH (E) FINISH. SEE DETAILS 1/E3.1 AND 3/E3.1.
8. RUN CONDUIT BELOW SHADE STRUCTURE CONCRETE PAD.

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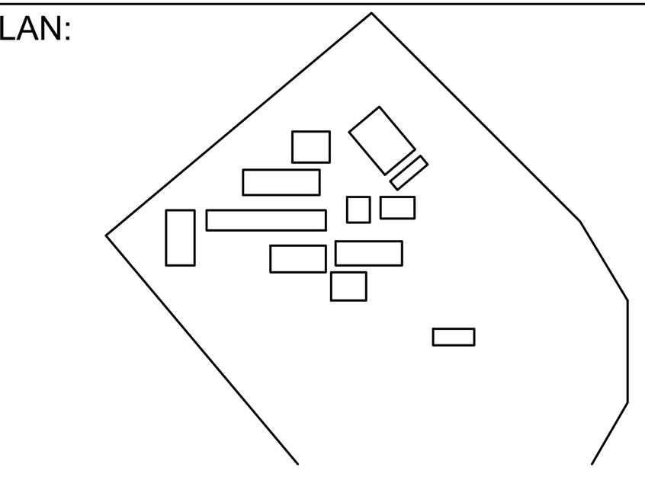

FACILITY:

4720 FOREST PKWY
SACRAMENTO, CA 95823

PROJECT:

PARKWAY ELEMENTARY - SHADE STRUCTURE

SHEET NAME:

ENLARGED SITE PLAN - POWER

CONSTRUCTION DOCUMENTS

DATE: 2/09/2024 | CLIENT PROJ NO:

SHEET:

E1.2

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE

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SHEET NOTES:

1. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DRAWINGS AND LIMITED SITE SURVEYS, AND SHOWN FOR CLARITY ONLY.

KEYED NOTES:

1. MODIFIED PANEL SERVES EQUIPMENT BEING ADDED IN THIS PROJECT. SEE PANEL SCHEDULE ON THIS SHEET FOR REFERENCE.
2. REPLACE 200 AMP PLUG ON SFH BREAKER WITH 100 AMP PLUG TO MATCH FEEDER SIZE.

Voltage Drop Calculations Copper

Job Name: Parkway Elementary School - Shade Structure   Job #: 23.064
Date: 10/16/2023

VOLTAGE: 120   PHASE: 1   POWER FACTOR: 80%   CONDUIT: Steel

FEEDER NUMBER	AMPS AT LOAD	KVA TOTAL	VOLTS AT LOAD	DISTANCE FEET	DISTANCE TOTAL	WIRES/ PHASE	LOAD/ WIRE	WIRE SIZE	WIRE FACTOR	VOLTS DROP	PERCENT VOLT DROP
RECEPT-1	16.0	1.9	117.41	285	285	1	16.00	4	568	2.59	2.16%
RECEPT-2	8.0	1.0	116.21	75	360	1	8.00	10	1995	3.79	3.16%

EXISTING

PANEL: PORT#28 — MANF: SQUARE-D; TYPE: QO LOAD CTR; MAIN: 125/2; BUSS: 125 AMP; FEEDER RATING: 200 AMP; SERVICE: 120 /208 VOLT, 1 Ø, 3W; MOUNTING: RECESSED; ENCLOSURE: WIDTH: 15", DEPTH: 4.5"; 10K AIC; 100% NEUT.

AØ	BØ	DIRECTORY	BRKR	CKT		CKT	BRKR	DIRECTORY	AØ	BØ
1000		LIGHTS	20/1	1	•	2	60/2	A/C	3113.6	
	1000	LIGHTS	20/1	3	•	4	-	"		3113.6
1200		PLUGS	20/1	5	•	6	PFB	SPACE		
		SPACE	PFB	7	•	8	PFB	SPACE		
		SPACE	PFB	9	•	10	PFB	SPACE		
		SPACE	PFB	11	•	12	PFB	SPACE		
		SPACE	PFB	13	•	14	PFB	SPACE		
		SPACE	PFB	15	•	16	PFB	SPACE		
		SPACE	PFB	17	•	18	PFB	SPACE		
		SPACE	PFB	19	•	20	PFB	SPACE		
		SPACE	PFB	21	•	22	PFB	SPACE		
		SPACE	PFB	23	•	24	PFB	SPACE		

	NEW LOAD		DEMAND READINGS		PEAK DEMAND @ 125% + (N) LOAD		TOTAL DEMAND LOAD
	TOTAL PANEL VA	AMPS	AMPS	@125%	AMPS	VA	
AØ =	5313.6 VA	44.3		0.0	44.3 A	5313.6 VA	9427.2 VA
BØ =	4113.6 VA	34.3		0.0	34.3 A	4113.6 VA	44.3 AMPS

NOTES:
1. FEEDER IS 1-1/2" CONDUIT WITH 3#2 + 1#6 CU CONDUCTORS.
2. BRANCH BREAKERS ARE SQUARE-D TYPE QO.
3. MAIN BREAKER IS SQUARE-D TYPE QOM.

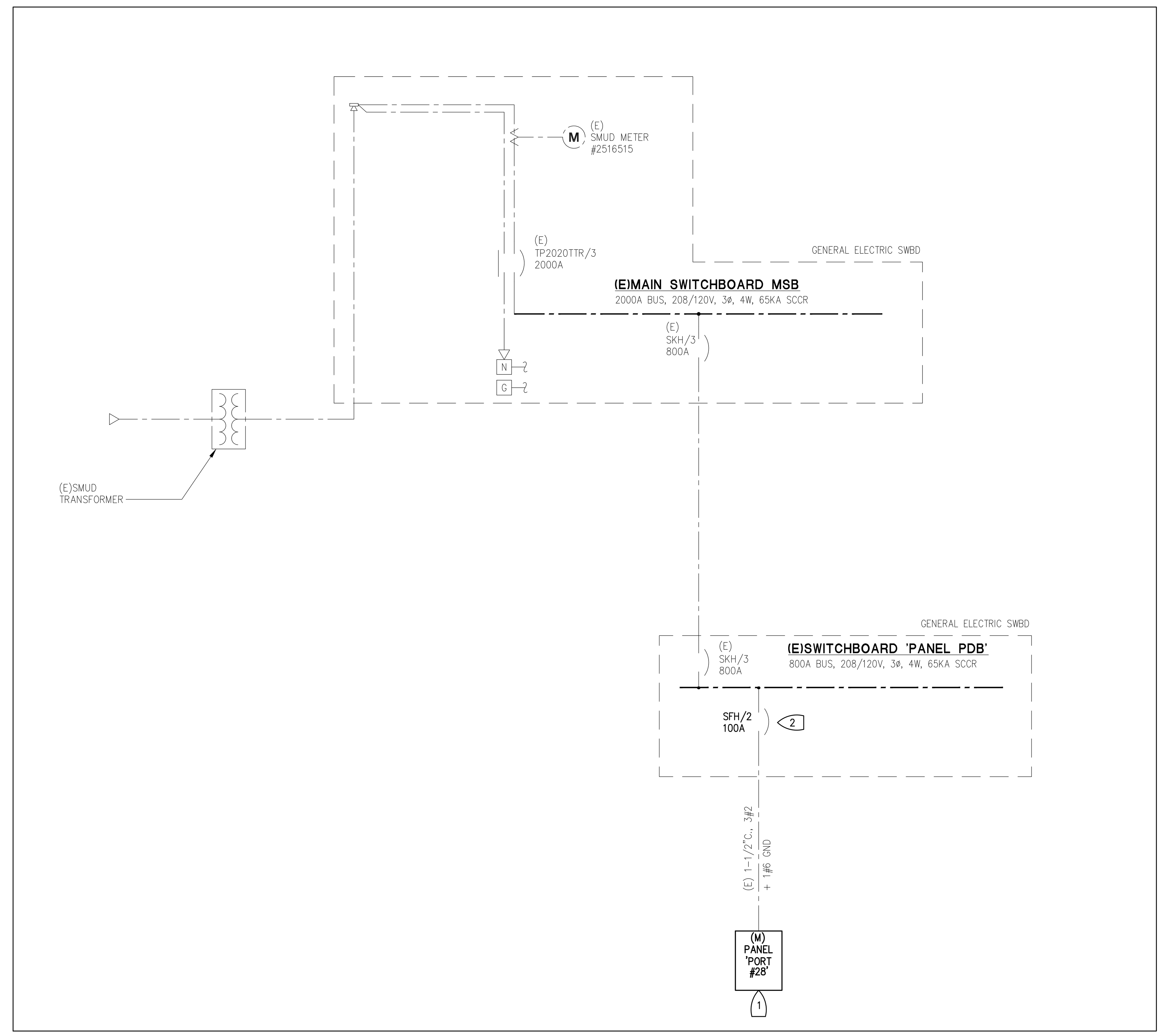
MODIFIED

PANEL: PORT#28 — MANF: SQUARE-D; TYPE: QO LOAD CTR; MAIN: 125/2; BUSS: 125 AMP; FEEDER RATING: 200 AMP; SERVICE: 120 /208 VOLT, 1 Ø, 3W; MOUNTING: RECESSED; ENCLOSURE: WIDTH: 15", DEPTH: 4.5"; 10K AIC; 100% NEUT.

AØ	BØ	DIRECTORY	BRKR	CKT		CKT	BRKR	DIRECTORY	AØ	BØ
1000		LIGHTS	20/1	1	•	2	60/2	A/C	3113.6	
	1000	LIGHTS	20/1	3	•	4	-	"		3113.6
1200		PLUGS	20/1	5	•	6	***20/1***	***RECEPTS - SHADE STRUCT. [4]***	***435***	
		SPACE	PFB	7	•	8	PFB	SPACE		
		SPACE	PFB	9	•	10	PFB	SPACE		
		SPACE	PFB	11	•	12	PFB	SPACE		
		SPACE	PFB	13	•	14	PFB	SPACE		
		SPACE	PFB	15	•	16	PFB	SPACE		
		SPACE	PFB	17	•	18	PFB	SPACE		
		SPACE	PFB	19	•	20	PFB	SPACE		
		SPACE	PFB	21	•	22	PFB	SPACE		
		SPACE	PFB	23	•	24	PFB	SPACE		

	NEW LOAD		DEMAND READINGS		PEAK DEMAND @ 125% + (N) LOAD		TOTAL DEMAND LOAD
	TOTAL PANEL VA	AMPS	AMPS	@125%	AMPS	VA	
AØ =	5748.6 VA	47.9		0.0	47.9 A	5748.6 VA	9862.2 VA
BØ =	4113.6 VA	34.3		0.0	34.3 A	4113.6 VA	47.9 AMPS

NOTES:
1. FEEDER IS 1-1/2" CONDUIT WITH 3#2 + 1#6 CU CONDUCTORS.
2. BRANCH BREAKERS ARE SQUARE-D TYPE QO.
3. MAIN BREAKER IS SQUARE-D TYPE QOM.
4. PROVIDE 20 AMP, SINGLE-POLE BREAKER, MATCHING EXISTING BRANCH BREAKER TYPE.
5. PROVIDE TYPE-WRITTEN PANEL DIRECTORY.



1 ONE LINE DIAGRAM

SCALE: NONE

AGENCY APPROVAL:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121825 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 02/15/2024

Sacramento City
UNIFIED SCHOOL DISTRICT

HMC Architects
3186069000
2101 CAPITOL AVENUE, SUITE 100
SACRAMENTO, CA 95816
916 368 7990 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE

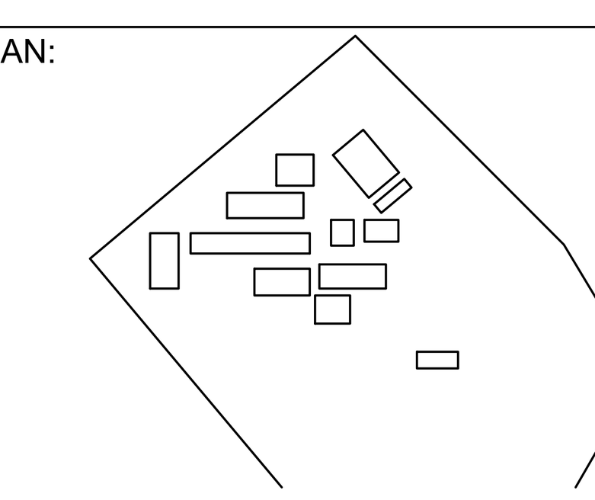
REGISTERED PROFESSIONAL ENGINEER
GINO R. ROMANO
17247
Exp. 6/30/24
ELECTRICAL
STATE OF CALIFORNIA

PLOT DATE: 2/8/2024

PETERS engineering
7750 College Town Dr. ste.101
Sacramento, CA 95826
Tel (916) 447-2841
www.peterseng.com
Job no. 23.064
consulting mechanical and electrical engineers

NOTES

KEY PLAN:



FACILITY:
4720 FOREST PKWY
SACRAMENTO, CA 95823

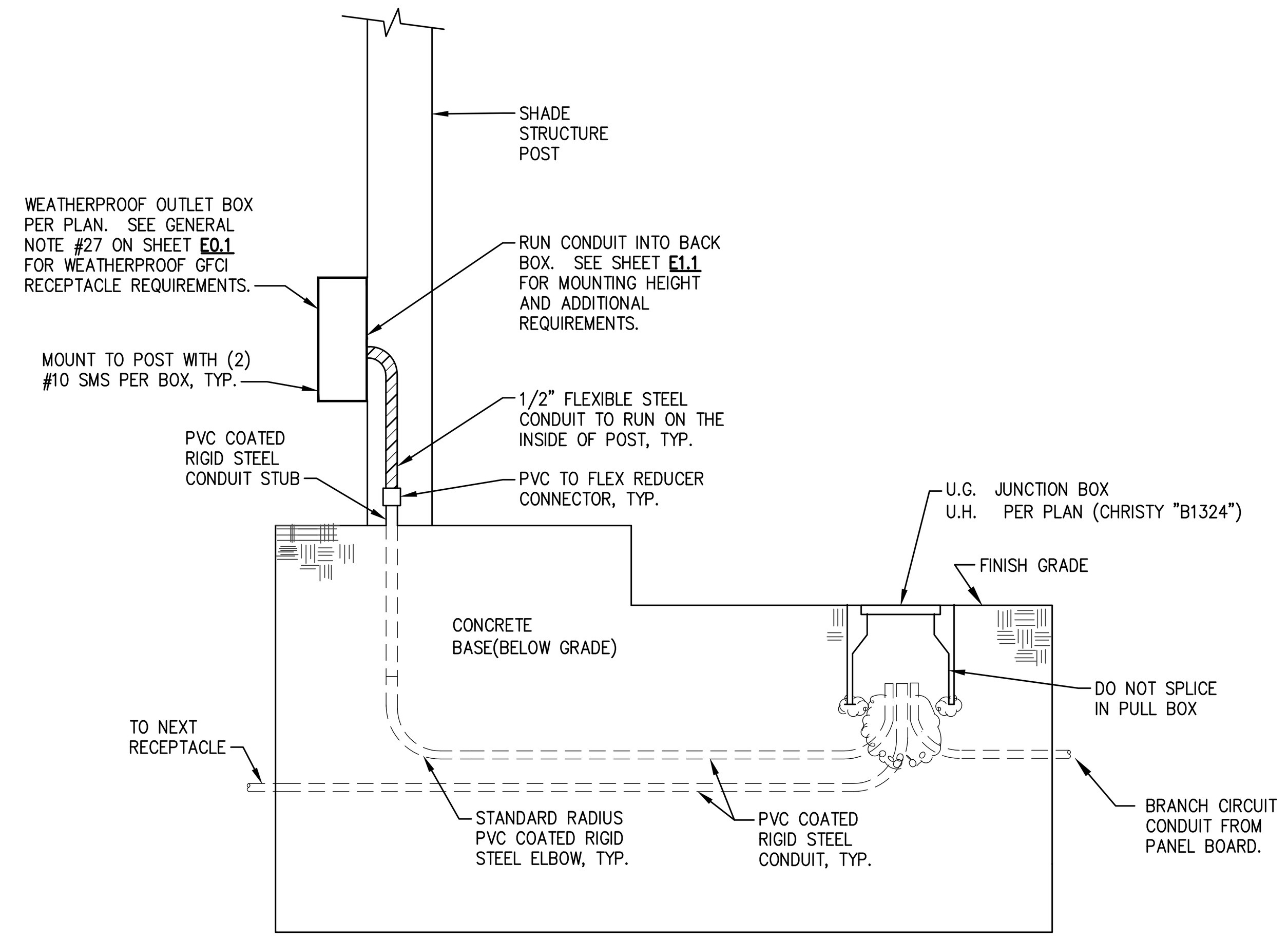
PROJECT:
PARKWAY ELEMENTARY - SHADE STRUCTURE

SHEET NAME:
ONE LINE DIAGRAM

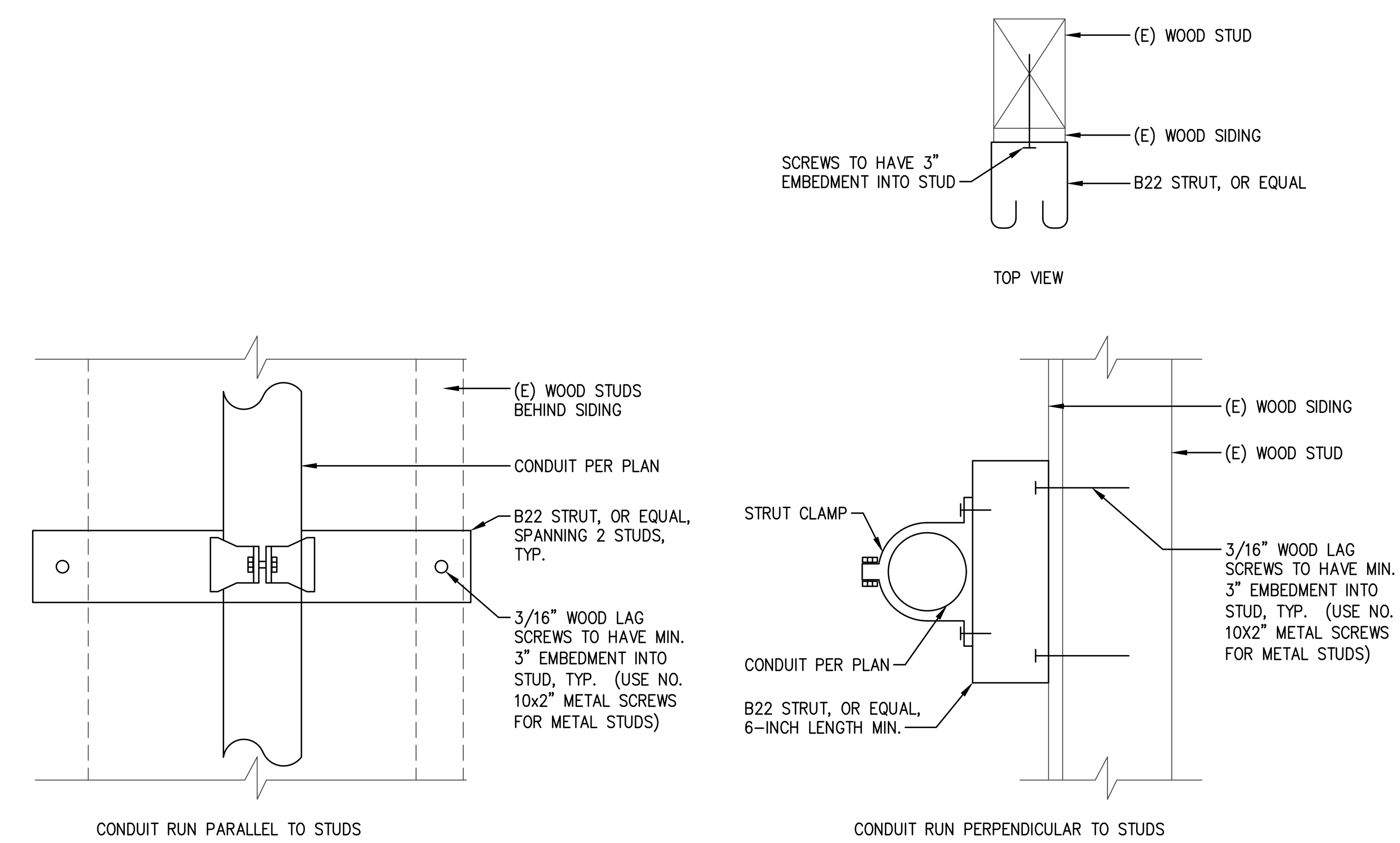
CONSTRUCTION DOCUMENTS

DATE: 2/09/2024   CLIENT PROJ NO:

SHEET:
E2.1

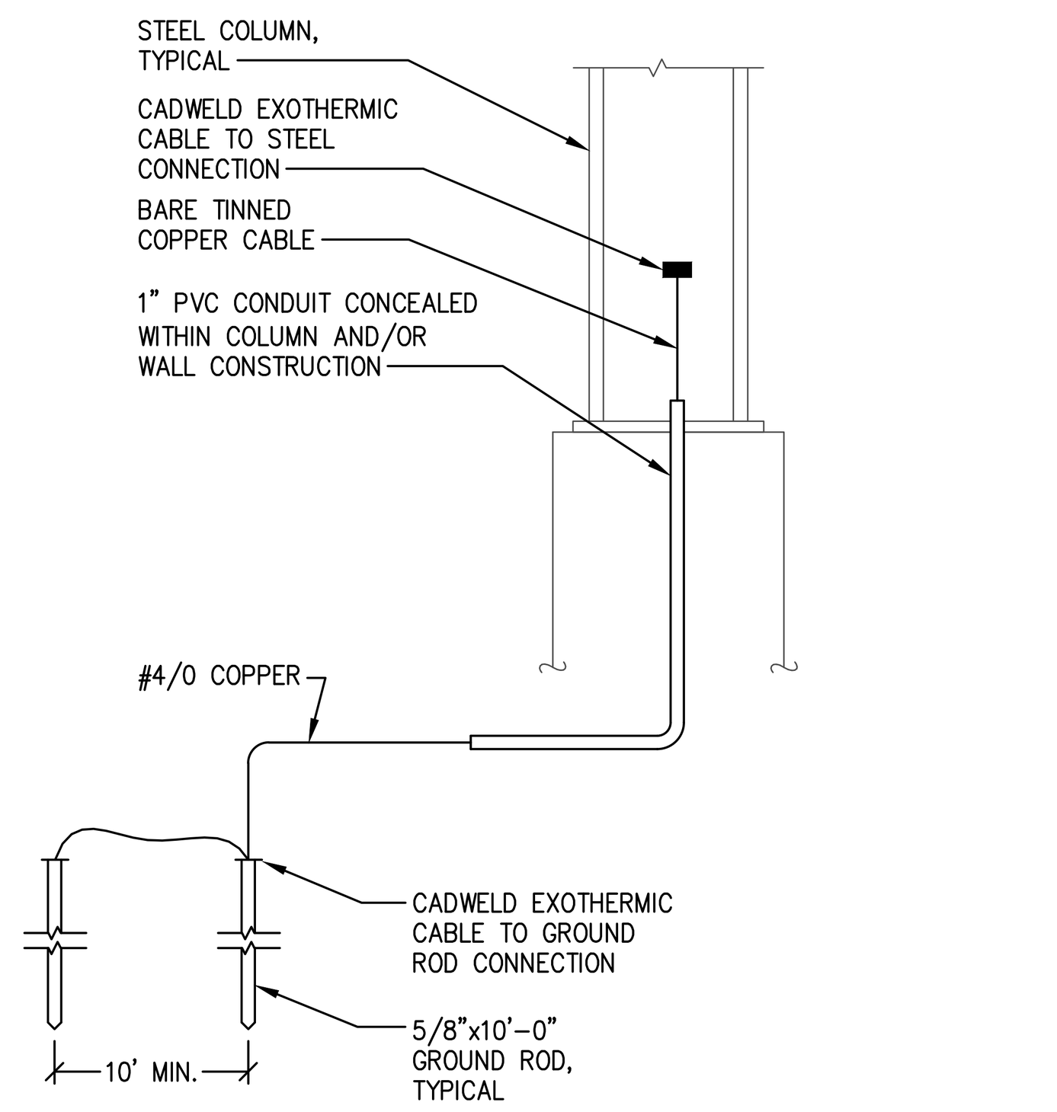


4 **CONDUIT STUB ON POST DETAIL**
SCALE: NONE



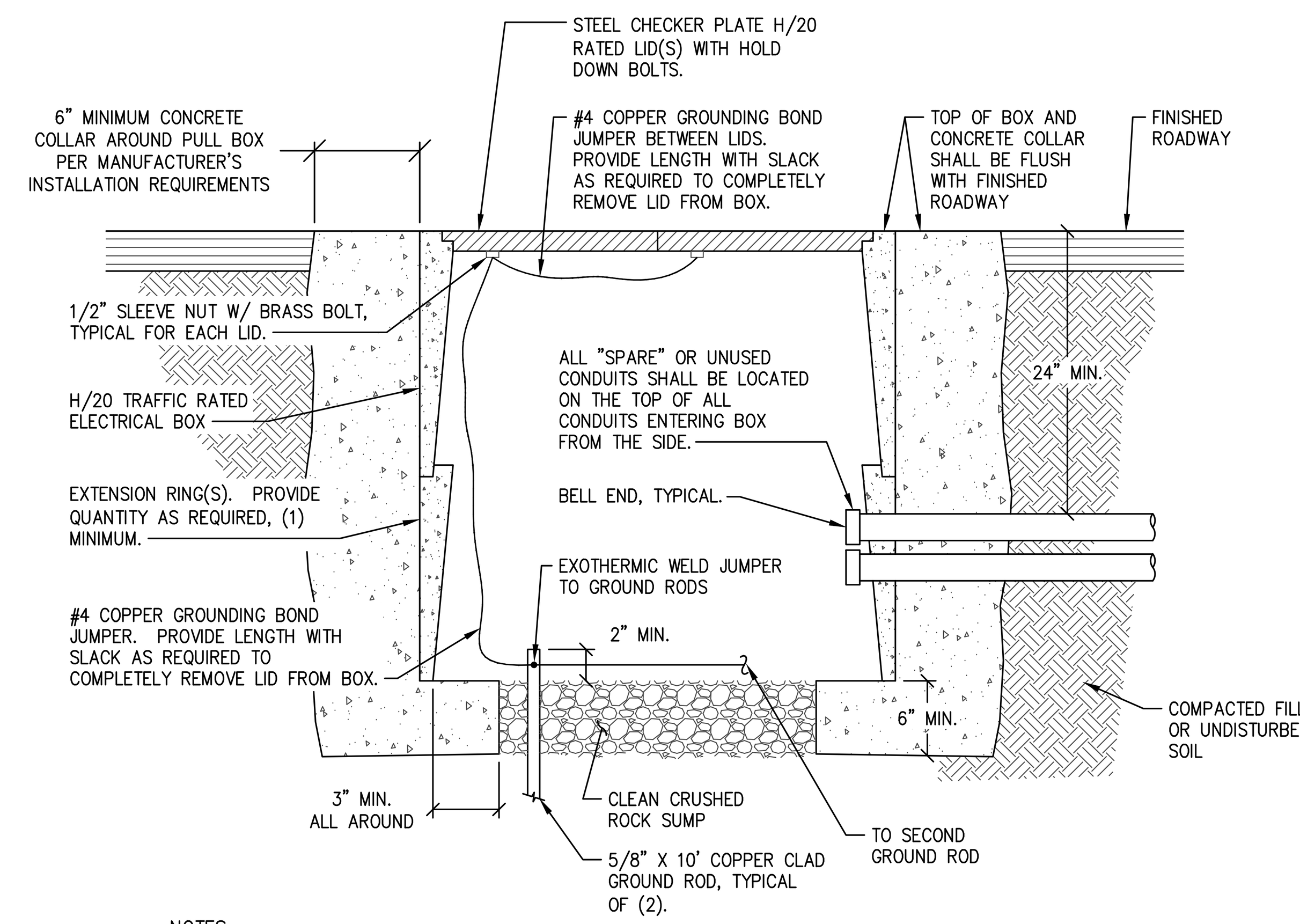
NOTES:
1. CONDUIT SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING TEN(10) FEET AND NOT MORE THAN THREE(3) FEET FROM THE OUTLET AND AT ANY POINT WHERE IT CHANGES DIRECTION.
2. PERFORATED STRAP AND PLUMBER'S TAPE SHALL NOT BE PERMITTED.
3. MAXIMUM CONDUIT AND CONDUCTOR WEIGHT IS 1.83LBS PER LINEAR FOOT.

1 **CONDUIT MOUNTING DETAIL - STUD WALLS**
SCALE: NONE



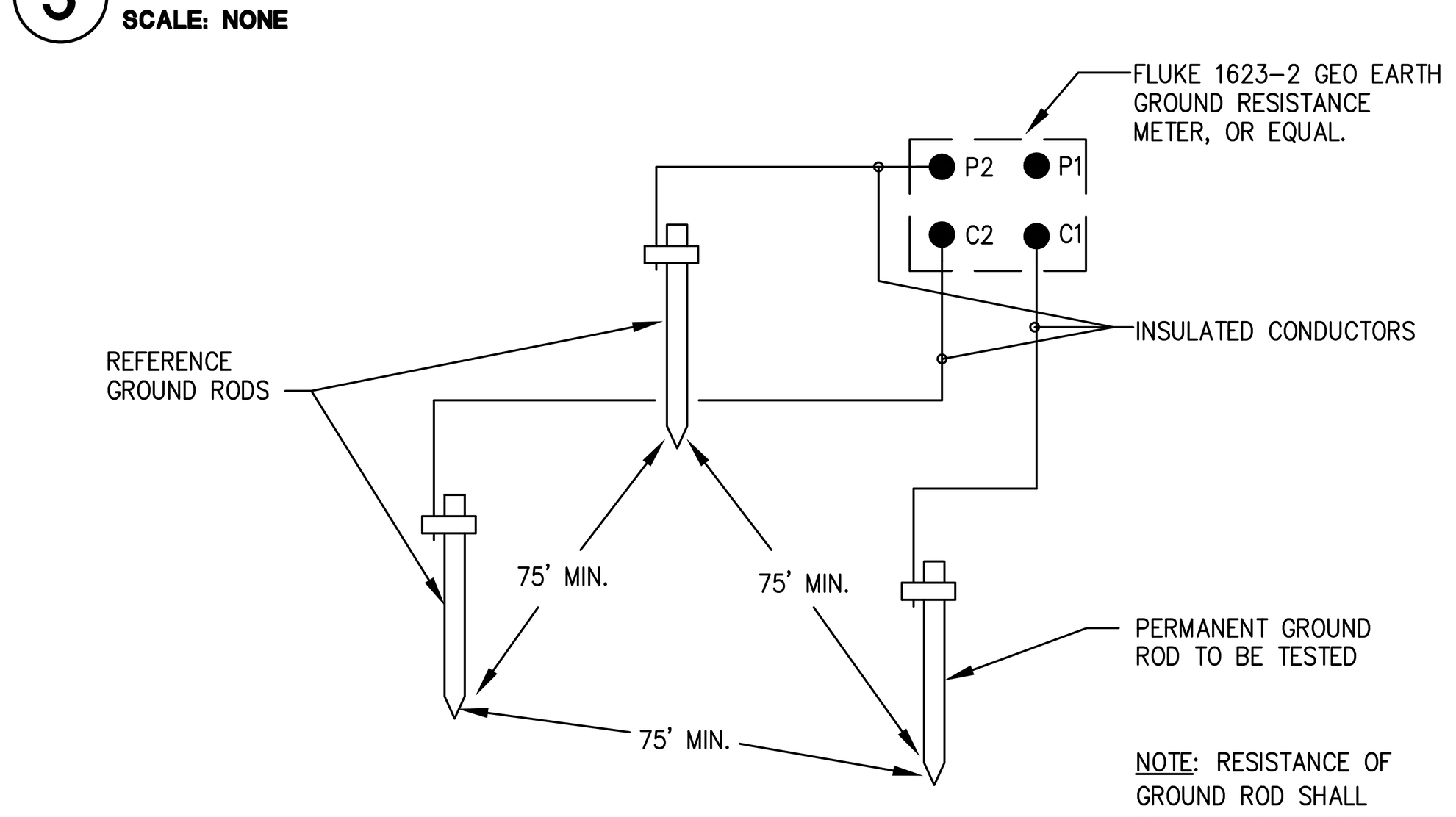
NOTES:
1. ALL GROUNDING CONNECTIONS SHALL BE IN CONFORMANCE WITH C.E.C. ARTICLE 250.
2. FOR ALL ADDITIONAL REQUIREMENTS REFER TO SPEC SECTIONS 26 05 10.

5 **TYPICAL STEEL COLUMN & REBAR GROUNDING DETAIL**
SCALE: NONE



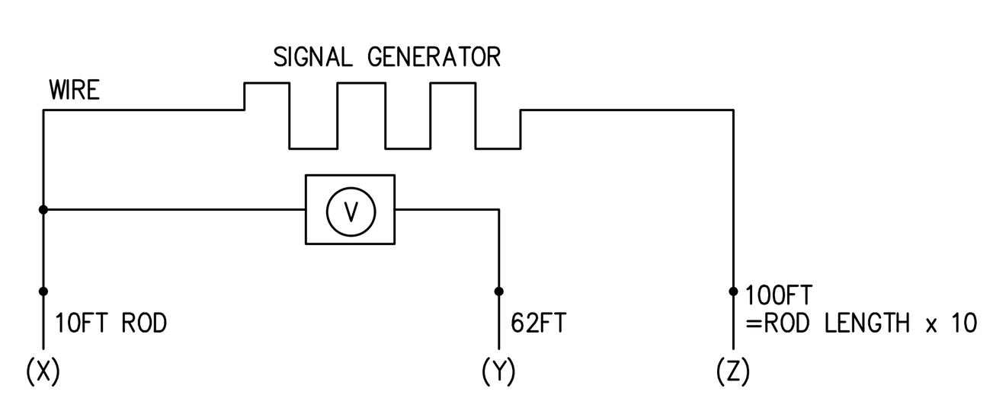
NOTES:
1. PROVIDE H/20 TRAFFIC RATED BOXES IN ALL LOCATIONS WITH VEHICLE TRAFFIC
2. CONTRACTOR SHALL PROVIDE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR H/20 TRAFFIC RATING REQUIREMENTS AS PART OF THE SUBMITTALS.

2 **TYPICAL H/20 TRAFFIC RATED PULL BOX**
SCALE: NONE



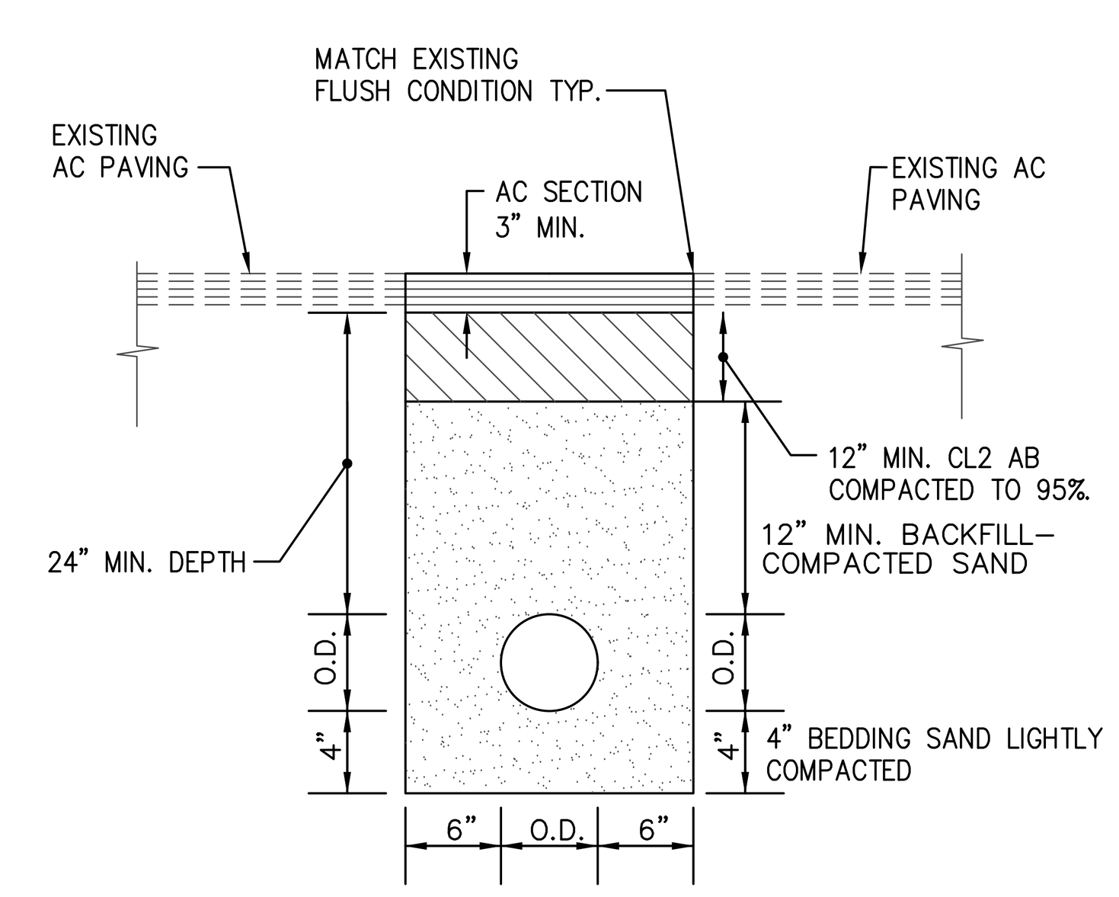
FALL OF POTENTIAL TEST METHOD
NOTES:
1. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY OF 500KVA OR LESS: 10 OHMS.
2. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY OF 500 TO 1000KVA: 5 OHMS.
3. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY GREATER THAN 1000KVA: 3 OHMS.
4. POWER DISTRIBUTION UNITS OR PANELBOARDS SERVING ELECTRONIC I.T. EQUIPMENT: 3 OHMS.
5. MAN-HOLE GROUNDS: 10 OHMS.

FALL OF POTENTIAL 3-POINT TEST:
GROUND RING, I.E. 10 BY 10 RING, 14' DIAGONAL LENGTH ISOLATION FROM UTILITY NEUTRAL PROBE Z IS DRIVEN A DISTANCE OF 10 TIMES DIAGONAL LENGTH OF THE GROUNDING ROD SYSTEM (ROD X). A SECOND PROBE (Y) IS PLACED IN LINE AT A DISTANCE FROM ROD X EQUAL TO THE DIAGONAL LENGTH OF THE GROUNDING SYSTEM.



AT THIS POINT, A KNOWN CURRENT IS APPLIED ACCROSS X & Z, WHILE THE RESULTING VOLTAGE IS MEASURED ACROSS X & Y. OHMS LAW APPLIED R=V/I. THEN (Y) MOVED TO 2 TIMES THE DIAGONAL LENGTH, THEN MOVE OUT TO 3 TIMES(3X), 4X, .. 9X THE DIAGONAL LENGTH TO COMPLETE THE 3 POINT TEST WITH A TOTAL OF NINE RESISTANCE MEASUREMENTS.

6 **METHOD OF TESTING GROUND RODS DETAIL**
SCALE: NONE



3 **TYPICAL TRENCH DETAIL**
SCALE: NONE

AGENCY APPROVAL:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121825 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 02/15/2024

Sacramento City
UNIFIED SCHOOL DISTRICT

HMC Architects
3186069000
2101 CAPITOL AVENUE, SUITE 100
SACRAMENTO, CA 95816
916 368 7990 / www.hmcarchitects.com

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PROFESSIONAL ENGINEER
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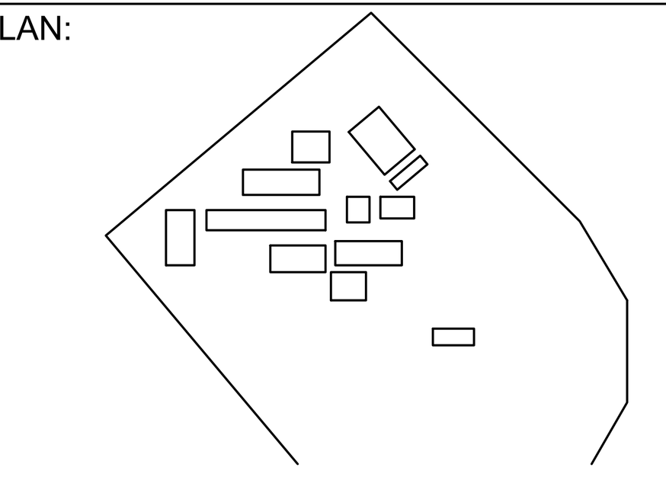
NOTES

KEY PLAN:



FACILITY:
4720 FOREST PKWY
SACRAMENTO, CA 95823

PROJECT:
PARKWAY ELEMENTARY - SHADE STRUCTURE

SHEET NAME:
DETAILS

CONSTRUCTION DOCUMENTS

DATE: 2/09/2024
CLIENT PROJ NO:

SHEET:
E3.1

PLEASE RECYCLE

C:\Users\affifa.kadhim\Documents\Parkway ES_akadhim.RGA.rvt
10/13/2023 4:30:19 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAGE SIZE

DESIGN VALUES

DESCRIPTION	DESIGN VALUES [1]
DEAD AND LIVE LOADS	
ROOF LIVE LOAD	20 PSF
ROOF DEAD LOAD (SUPERIMPOSED ON FRAME) [2]	LOAD SCENARIO= {1,2} DL = {3.5 PSF, 2.0 PSF}
ALLOWABLE SOIL PRESSURE [3, 5]	
SPREAD PAD	
VERTICAL BEARING: DL + Lr + SEISMIC (CONCRETE FOOTING)	1500 PSF
LATERAL COHESION: DL + Lr + SEISMIC (CONCRETE FOOTING)	130 PSF
DRILLED PIER	
SKIN FRICTION DOWN : DL + Lr + SEISMIC (CONCRETE FOOTING) PER 1810A.3.3.1.4	167 PSF
SKIN FRICTION (UPLIFT): DL + LR SEISMIC (CONCRETE FOOTING) PER 1810A.3.31.5	83 PSF
LATERAL BEARING: DL + Lr + SEISMIC (CONCRETE FOOTING) PER 1810A.3.3.2	100 PSF/FT
ROOF SNOW LOAD [6]	
GROUND SNOW LOAD, Pg	10 PSF
RISK CATEGORY	II
ROOF SNOW LOAD: [ ] FLAT, Pf OR [ ] LOW SLOPE, Pm OR [X] SLOPED, Ps	10 PSF
SNOW ROOF SLOPE FACTOR, Cs	1
SNOW EXPOSURE FACTOR, Ce	1.2
SNOW LOAD IMPORTANCE FACTOR, Is	1.0
THERMAL FACTOR, Ct	1.2
DRIFT SURCHARGE LOAD, Pd	0 PSF
DISTANCE FROM ADJACENT STRUCTURE, Pg = 0 PSF	4 IN
DISTANCE FROM ADJACENT STRUCTURE, Pg > 0 PSF	20 FT
ICE LOAD	0 PSF
FLOOD DESIGN	
FLOOD HAZARD AREA	NO
WIND DESIGN [4]	
BASIC WIND SPEED (3 SECOND GUST), Vult	110 MPH
EXPOSURE CATEGORY	C
TOPOGRAPHIC FACTOR, Kzt (1 MINIMUM)	1
INTERNAL PRESSURE COEFFICIENT, GCpi (IF APPLICABLE)	0.0
CLEAR WIND FLOW	YES
OBSTRUCTED WIND FLOW	YES
SEISMIC DESIGN [4]	
LATERAL FORCE-RESISTING SYSTEM	STEEL ORDINARY CANTILEVER COLUMN SYSTEM
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE
SEISMIC DESIGN CATEGORY (SDC)	E
SEISMIC IMPORTANCE FACTOR, Ie	1.0
DESIGN BASE SHEAR, V	Cs x W
SEISMIC RESPONSE COEFFICIENT, Cs	LOAD SCENARIO = {1,2} Cs = {0.90,1.32}
RESPONSE MODIFICATION FACTOR, R	1.25
SITE CLASS [7]	E
REDUNDANCY FACTOR, p	1.3
MAPPED SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, Ss - USED TO DETERMINE Cs	LOAD SCENARIO = {1,2} Ss = {1.406, 2.063}
SHORT-PERIOD SITE COEFFICIENT, Fa	1.2
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, Sds - USED TO DETERMINE Cs	LOAD SCENARIO = {1,2} Sds (MAX) = {1.125, 1.650}
MAPPED SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD, S1	LOAD SCENARIO = {1,2} S_1 = {0.844, 1.07}
LONG-PERIOD SITE COEFFICIENT, Fv	2.0
DESIGN SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD, Sd1	LOAD SCENARIO = {1,2} S_{d1} = {1.125, 1.427}
HORIZONTAL OR VERTICAL IRREGULARITIES TYPE(S)	NONE

1. IF SITE-SPECIFICDESIGN CRITERIA ARE OUTSIDE THE LIMITS OF THESE PC DRAWINGS, CONTACT POLIGON ENGINEERING TO SEE IF AN ENGINEERING LETTER, SUPPLEMENTAL DRAWINGS, AND/OR CALCULATIONS COULD BE SUBMITTED FOR A SITE-SPECIFIC SOLUTION. ANY SITE- SPECIFIC DEVIATION FROM THIS PC MAY NOT BE SUBMITTING TO DSA AS AN OVER-THE-COUNTER.
2. STRUCTURE IS NOT DESIGNED TO SUPPORT SOLAR PANELS. STRUCTURE IS NOT DESIGNED TO SUPPORT SPRINKLER SYSTEMS IN LOAD SCENARIO 2 REGIONS.
3. GEOHAZARD REPORTS ARE REQUIRED IF THE AREA COVERED UNDER THE ROOF EXCEEDS 4000 SQ FT OR IS LOCATED WITHIN STATE OR LOCAL GEOLOGIC HAZARD ZONE. VERIFY SUBMITTAL AND APPROVAL OF A GEOHAZARD REPORT BY CGS PRIOR TO DSA SITE APPLICATION.
4. STRUCTURAL SEPARATION BETWEEN ADJACENT STRUCTURES: RAM 20= 5.0", RAM 30= 3.0" STRUCTURAL SEPARATION BETWEEN EXISTING STRUCTURES: RAM 20= 5.5", RAM 30= 4.0"
5. WHEN PLACING MULTIPLE CANOPIES WITH PIER FOOTINGS ADJACENT TO ONE ANOTHER, THE DESIGN MAY REQUIRE AN ANALYSIS OF GROUP EFFECTS ON THE FOUNDATIONS. THE MINIMUM CLEARANCE BETWEEN CENTER OF PIERS IS EIGHT TIMES PIER DIAMETER WITHOUT AN ACCOMPANYING ENGINEERING LETTER
6. SITE APPLICATION DESIGN PROFESSIONAL AND DSA REVIEWER SHALL VERIFY THE STRUCTURE TO BE LOCATED AT LEAST 20 FEET FROM ANY HIGHER ADJACENT STRUCTURE IF GROUND SNOW IS GREATER THAN ZERO.
7. DESIGN COMPLIES WITH THE CONDITIONS OF EXCEPTION 1 OF ASCE 7-16 SECTION 11.4.8, ITEM 2.
8. APPROVED FIRE APPARATUS ACCESS ROADS SHALL EXTEND TO WITHIN 150 FEET OF ALL PORTIONS OF THE PERIMETER OF THE STRUCTURE PER CFC 503.1.1.

ARCHITECTURAL REQUIREMENTS:

DESCRIPTION	DESIGN VALUES
TYPE OF CONSTRUCTION	II B
NUMBER OF STORIES	1
FIRE SPRINKLER SYSTEM	NOT BY POLIGON

RELATED BUILDING CODES AND STANDARDS:

TITLE 24 CODES:

2022 California Administrative Code (CAC)..........................(Part 1, Title 24, CCR)
2022 California Building Code (CBC), Volumes 1 and 2 (Part 2, Title 24, CCR)
(2021 International Building Code with 2022 California amendments)
2022 California Electrical Code ....(Part 3, Title 24, CCR)
(2020 National Electrical Code with 2022 California amendments)
2022 California Mechanical Code (CMC) ....(Part 4, Title 24, CCR)
(2021 Uniform Mechanical Code with 2022 California amendments)
2022 California Plumbing Code (CPC) ....(Part 5, Title 24, CCR)
(2021 Uniform Plumbing Code with 2022 California amendments)
2022 California Energy Code ....(Part 6, Title 24, CCR)
2022 California Fire Code (CFC) ....(Part 9, Title 24, CCR)
(2021 International Fire Code with 2022 California Amendments)
2022 California Existing Building Code (CEBC)......................(Part 10, Title 24, CCR)
2022 California Green Building Standards Code...................(Part 11, Title 24, CCR)
2022 California Referenced Standards Code .... (Part 12, Title 24, CCR)
Title 19 CCR, Public Safety, State Marshal Regulations

NFPA 13 - 2016
NFPA 72 - 2016

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:

2022 CBC, CHAPTER **35**
2022 CFC, CHAPTER **80**

SCOPE OF WORK NARRATIVE:

THESE DRAWINGS ILLUSTRATE THE FABRICATION AND INSTALLATION REQUIREMENTS FOR A FREE-STANDING PREFABRICATED STEEL SHADE STRUCTURE. THE ENTIRE STRUCTURAL SYSTEM IS COMPRISED OF TUBULAR STEEL MEMBERS SUPPORTED ON CONCRETE FOUNDATIONS. THE FLEXIBILITY INCLUDED HEREIN ALLOWS THIS STRUCTURE TO COMPLY WITH A WIDE VARIETY OF PROJECT SITES AND LOADING REQUIREMENTS.

INSTRUCTIONS FOR ARCHITECTS PLANNING TO SUBMIT THESE PRE-CHECKED DRAWINGS TO DSA:

STEP 1 PROJECT INFORMATION

PROJECT NAME	PARKWAY ELEMENTARY SCHOOL - NEW SHADE STRUCTURE	
SCHOOL DISTRICT	SACRAMENTO CITY UNIFIED SCHOOL DISTRICT	
USE AND OCCUPANCY CLASSIFICATION	A-3	**(PROPOSED OCCUPANCY: A1, A2, A3, A4, A5, B, E)**
OCCUPANT LOAD FACTOR	15	**(15 SQFT/PERSON MAX; 5 SQFT/PERSON MIN FOR ANY A OCCUPANCY 20 SQFT/PERSON MAX FOR B OR E OCCUPANCY)**
TOTAL ROOF AREA	1,920	**(MAXIMUM 4500 SQFT FOR ANY A OCCUPANCY, 10,000 SQFT FOR B OCCUPANCY, AND 5000 SQFT FOR E OCCUPANCY)**
NUMBER OF OCCUPANTS	128	**(MAXIMUM 300 FOR ANY A OCCUPANCY, 500 FOR B OCCUPANCY, AND 250 FOR E OCCUPANCY)**

STEP 2 DESIGN OPTIONS

ROOF DECK	[ ] MULTI-RIB (MR)	**DEFAULT**, WEIGHT 1.2 PSF
	[X] STANDING SEAM (SS)	WEIGHT 1.8 PSF
GUTTERS	[ ] NO	**DEFAULT**
	[X] YES	SEE RAM7.0 FOR DETAILS
ELECTRICAL ACCESS	[ ] NO	**DEFAULT**
	[X] YES	SEE RAM7.1 FOR DETAILS
CLEAR HEIGHT	[ ] 8'	**DEFAULT**
	[X] 10' OTHER	10' MAX

STEP 3 SEISMIC ACCELERATION

Ss 0 . 6 5 0 **(g)**
S1 0 . 2 4 0 **(g)**

STEP 4 SEISMIC REGIONS

0.000 < Ss <= 1.406 S1 <= 0.844	[X] WHITE	3.5 PSF MAX DEA LOAD
1.406 < Ss <= 2.063 S1 <= 1.070	[ ] GREEN	2.0 PSF MAX DEAD LOAD

STEP 5 TOTAL ROOF DEAD LOAD

ROOF DECK	1 . 8 PSF	SEE STEP 2' 'ROOF DECK FOR WEIGHTS
COLLATERAL	0 . 0 PSF	LIGHTING , FIRE SUPPRESSION, ETC.
TOTAL	1 . 8 PSF	ADD 'ROOF DECK' AND 'COLLATERAL'

STEP 6 LOAD SCENARIO

WHITE	TOTAL ROOF DEAD LAOD <= 3.5 PSF	[X] **LOAD SCENARIO 1**
GREEN	TOTAL ROOF DEAD LOAD < 2.0 PSF	[ ] **LOAD SCENARIO 2**

STEP 7 PC STRUCTURE

ROOF WIDTH <= 20	[ ] **RAM 20**
20 < ROOF WIDTH <= 30	[X] **RAM 30**

STEP 8 STRUCTURE SIZE

	RAM 20		RAM 30	
ROOF WIDTH	[ ] 20'	**DEFAULT**	[X] 30'	**DEFAULT**
	[ ] ______ OTHER	9' MIN; 20' MAX	[ ] ______ OTHER	20'-6" MIN; 30' MAX
ROOF LENGTH	[ ] 44'	2 BAYS	[ ] 44'	2 BAYS
	[ ] 64'	3 BAYS	[X] 64'	3 BAYS
	[ ] 84'	4 BAYS	[ ] 84'	4 BAYS
	[ ] ______ OTHER		[ ] ______ OTHER	

STEP 9 FOUNDATION TYPE

	RAM 20		RAM 30	
FOUNATION TYPE	[ ] SPREAD PAD	[ ] DRILLED PIER	[ ] SPREAD PAD	[X] DRILLED PIER

STEP 10 FOUNDATION SUMMARY

RAM 20		RAM 30	
[ ] LOAD SCENARIO 1 SPREAD PAD	[ ] LOAD SCENARIO 1 DRILLED PIER	[ ] LOAD SCENARIO 1 SPREAD PAD	[X] LOAD SCENARIO 1 DRILLED PIER
[ ] LOAD SCENARIO 2 SPREAD PAD	[ ] LOAD SCENARIO 2 DRILLED PIER	[ ] LOAD SCENARIO 2 SPREAD PAD	[ ] LOAD SCENARIO 2 DRILLED PIER

STEP 11 SHEET INDEX

BASE FRAME	RAM 20 SHEET INDEX				RAM 30 SHEET INDEX			
ROOF DECK	MR		SS		MR		SS	
FOUNDATION TYPE	SPREAD PAD	DRILLED PIER	SPREAD PAD	DRILLED PIER	SPREAD PAD	DRILLED PIER	SPREAD PAD	DRILLED PIER
SELECT ONE	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[X]
ORDER FORM	RAM1.0	RAM1.0	RAM1.0	RAM1.0	RAM1.0	RAM1.0	RAM1.0	RAM1.0
NOTES AND SPECIAL INSPECTIONS	RAM1.1	RAM1.1	RAM1.1	RAM1.1	RAM1.1	RAM1.1	RAM1.1	RAM1.1
FOUNDATION PLAN	RAM2.0	RAM2.1	RAM2.0	RAM2.1	RAM2.2	RAM2.3	RAM2.2	RAM2.3
FRAMING PLAN	RAM3.0	RAM3.0	RAM3.0	RAM3.0	RAM3.1	RAM3.1	RAM3.1	RAM3.1
FRAME CONNECTION DETAILS	RAM4.0	RAM4.0	RAM4.0	RAM4.0	RAM4.2	RAM4.2	RAM4.2	RAM4.2
SECTION DETAILS	RAM4.1	RAM4.1	RAM4.1	RAM4.1	RAM4.3	RAM4.3	RAM4.3	RAM4.3
ARCHITECTURAL VIEWS	RAM5.0	RAM5.0	RAM5.0	RAM5.0	RAM5.1	RAM5.1	RAM5.1	RAM5.1
ROOF CONNECTION DETAILS	RAM6.0	RAM6.0	RAM6.1	RAM6.1	RAM6.0	RAM6.0	RAM6.1	RAM6.1
MISC DESIGN OPTIONS	RAM7.0	RAM7.0	RAM7.0	RAM7.0	RAM7.0	RAM7.0	RAM7.0	RAM7.0
ELETRICAL CUTOUTS	RAM7.1	RAM7.1	RAM7.1	RAM7.1	RAM7.1	RAM7.1	RAM7.1	RAM7.1

STEP 12 MULTIPLE STRUCTURES

	ROOF WIDTH X LENGTH	QTY
MULTIPLE STRUCTURES		

STEP 1: GENERAL PROJECT INFORMATION

- IDENTIFY PROJECT NAME AND SCHOOL DISTRICT
- IDENTIFY USE AND OCCUPANCY CLASSIFICATION
  - THE USE AND OCCUPANCY DETERMINE THE MAXIMUM SQUARE FOOTAGE OF THE STRUCTURE
  - THE MAXIMUM SQUARE FOOTAGE IS ALSO LIMITED BY THE NUMBER OF OCCUPANTS
- IDENTIFY THE OCCUPANT LOAD PER TABLE 1004.5 IN THE CBC
- IDENTIFY TOTAL ROOF AREA WHICH SHALL NOT EXCEED ALLOWABLE AREA PER TABLE 506.2 IN THE CBC.
- IDENTIFY EXPECTED NUMBER OF OCCUPANTS BASED ON THE ESTIMATED OCCUPANT LOAD
  - TOTAL ROOF AREA DIVIDED BY OCCUPANT LOAD CAN DETERMINE NUMBER OF OCCUPANTS

STEP 2: DESIGN OPTIONS

- SELECT ROOF DECK FOR YOUR PROJECT
  - "MR" REPRESENTS MCELROY METAL "MULTI-RIB" ROOF DECK
  - "SS" REPRESENTS MCELROY METAL "MEDALLION-LOK" 16" STANDING SEAM ROOF DECK
- SELECT WHETHER GUTTERS AND DOWNSPOUTS FROM POLIGON IS NEEDED FOR YOUR PROJECT
  - IF "YES", THEN INCLUDE SHEET RAM7.0 IN THE DRAWING SET
- SELECT WHETHER ELECTRICAL CUTOUTS ARE NEEDED FOR YOUR PROJECT
  - SHEET RAM7.0 SHOWS ELECTRICAL CUTOUT SIZE AND LOCATION CUTOUTS IN COLUMNS
  - SHEET RAM7.1 HAS INSTRUCTIONS AND SHEET TO IDENTIFY WHICH COLUMNS
  - SHEET RAM7.1 MUST BE FILLED OUT IN THE SUBMITTAL SET APPROVED BY DSA
  - IF NOTHING IS FILLED IN ON RAM7.1, POLIGON WILL ASSUME CUTOTUS ARE ONLY IN COLUMN A1 (SEE 'FRAMING PLAN' FOR REFERENCE)
- SELECT CLEAR HEIGHT (SEE 'ARCHITECTURAL VIEWS' SHEET FOR REFERENCE)
  - MIN 7'-1"; MAX 10'-0"
- **IF NOTHING IS SELECTED, POLIGON WILL ASSUME THE DEFAULT FOR EACH DESIGN OPTION**

STEP 3: IDENTIFY THE Ss & S1 ACCELERATION (g) FOR YOUR PROJECT AND GEOTECHNICAL INFORMATION

- Ss & S1 VALUE DETERMINES THE REQUIRED SEISMIC DESIGN FORCES
- Ss & S1 VALUE DEPENDS ON PROJECT'S GEOGRAPHICAL LOCATION
  - FIND Ss & S1 VALUES FOR YOUR PROJECT IN THE SITE SPECIFIC GEOTECHNICAL REPORT
  - FIND Ss & S1 VALUES FOR YOUR PROJECT USING (https://asce7hazardtool.online/)
- THIS PC IS NOT APPROVED FOR Ss VALUES GREATER THAN 2.063 (CONTACT POLIGON FOR ADDITIONAL OPTIONS)

STEP 4: IDENTIFY THE SEISMIC REGION FOR YOUR PROJECT

- THE REGIONS ARE DEPENDANT ON THE Ss & S1 VALUE DETERMINED IN STEP 3
- THE SEISMIC REGION DICTATES THE MAXIMUM DEAD LOAD PERMITTED (SEE TABLE TO THE LEFT)

STEP 5: IDENTIFY THE ROOF DEAD LOAD FOR YOUR PROJECT

- THE ROOF DECK DEAD LOAD WILL ALWAYS BE INCLUDED
- THE COLLATERAL LOAD REPRESENTS ADDITIONAL LOAD THAT CAN BE SUPPORTED BY THE FRAME
- TOTAL ROOF DEAD LOAD MUST BE LESS THAN OR EQUAL TO THE MAX DEAD LOAD SHOWN IN STEP 4
- CUT SHEETS OF ANY BOARDS, BOXES AND EQUIPMENT TO BE MOUNTED ON THE STRUCTURE, INCLUDING WEIGHTS AND DIMENSIONS ARE REQUIRED

STEP 6: IDENTIFY THE LOAD SCENARIO

- REFERENCE THE STEP 4 COLOR AND SELECT THE APPLICABLE LOAD SCENARIO
- LOAD SCENARIOS HAVE NO IMPACT ON FRAME DESIGN OR COST, BUT DO AFFECT FOUNDATION SIZE

STEP 7: IDENTIFY PC STRUCTURE

- ROOF WIDTHS UP TO 20' WIDE USE THE "RAM 20"
- ROOF WIDTHS UP TO 30' WIDE USE THE "RAM 30"
- THE 20' AND 30' WIDTHS ARE SUGGESTED BECAUSE THEY ARE THE MOST ECONOMICAL
- MAXIMUM WIDTH IS 30'; (SEE 'ARCHITECTURAL VIEWS' SHEET FOR REFERENCE)

STEP 8: IDENTIFY SITE SPECIFIC ROOF WIDTH AND LENGTH

- DO NOT EXCEED THE TOTAL ROOF AREA FROM STEP 1 (ROOF WIDTH MULTIPLIED BY ROOF LENGTH)

STEP 9: FOUNDATION TYPE

- SELECT A FOUNDATION BASED THE DESIRED FOUNDATION TYPE
- SELECT EITHER SPREAD PAD OR DRILLED PIER FOUNDATION PRIOR TO APPROVAL
- FOUNDATION TYPE IMPACTS CONSTRUCTION (TIMING, SEQUENCE, COST, ETC.)
- FOUNDATION TYPE IMPACTS ANCHOR BOLT LENGTH (NOT PROVIDED BY POLIGON)
- REVIEW OF SITE-SPECIFIC SOILS REPORT TO EVALUATE APPLICABILITY OF FOUNDATION OPTIONS AVAILABLE

STEP 10: FOUNDATION SUMMARY

- USE THE SELECTIONS FROM STEP 6 AND STEP 9 TO SELECT THE APPROPRIATE FOUNDATION

STEP 11: SELECT APPLICABLE SHEET INDEX FOR YOUR PROJECT

- IDENTIFY THE APPLICABLE SHEET INDEX
- INCLUDE APPLICABLE SHEETS WITH YOUR DSA SUBMITTAL
- EXCLUDE 'MISC DESIGN OPTIONS' SHEET FOR PROJECTS WITHOUT ELECTRICAL CUTOUTS OR GUTTERS
- EXCLUDE 'ELECTRICAL CUTOUTS' SHEET FOR PROJECTS WITHOUT ELECTRICAL CUTOUTS

STEP 12: MULTIPLE STRUCTURES WITH THE SAME PC#

- FILL IN ROOF LENGTH AND WIDTH OF STRUCTURES AS WELL AS QUANTITY
- UNO ON THE POLIGON DRAWINGS, POLIGON WILL ASSUME ALL DESIGN CRITERIA FOR EACH STRUCTURE IS THE SAME
- CONTACT POLIGON FOR FURTHER INFORMATION

ABBREVIATIONS:

ACI	AMERICAN CONCRETE INSTITUTE	MR	MULTI-RIB ROOF PANEL (MCELROY)
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	NTS	NOT TO SCALE
ASM	ASSEMBLY (INTERNAL REFERENCE)	NO	NUMBER
ASTM	AMERICAN SOCIETY FOR TESTING AND MAT'LS	OC	ON CENTER
AWS	AMERICAN WELDING SOCIETY	OSHA	OCCUPATIONAL HEALTH AND SAFETY ADM.
CBC	CALIFORNIA BUILDING CODE	PCF	POUNDS PER CUBIC FOOT
CJP	COMPLETE JOINT PENETRATION	PD	POLIGON DRAWING
CLR	CLEAR	PJ	PRETENSIONED JOINT
DEG	DEGREE	PLCS	PLACES
DIA	DIAMETER	PLT	PLATE
DIM	DIMENSION	PSF	POUNDS PER SQUARE FOOT
DSA	DIVISION OF THE STATE ARCHITECT	PSI	POUNDS PER SQUARE INCH
EQ	EQUAL	QTY	QUANTITY
FT	FEET	REF	REFERENCE
GA	GAGE	SQ	SQUARE
IN	INCHES	SS	STANDING SEAM ROOF PANEL (MCELROY)
KSI	KIPS PER SQUARE INCH	TYP	TYPICAL
MAX	MAXIMUM	UNO	UNLESS NOTED OTHERWISE
MIN	MINIMUM	USGS	U.S. GEOLOGICAL SURVEY
MISC	MISCELLANEOUS	W/	WITH
MPH	MILES PER HOUR		

SPECIFICATIONS

PART 1 - GENERAL

1.1 STRUCTURE DESCRIPTION
A. STRUCTURE(S) BASED ON THE FOLLOWING PC DESIGN(S):
1. HIP ROOF (RAM)

1.2 DESIGN REQUIREMENTS
A. MEET THE DESIGN INTENT SHOWN ON THE PC DRAWINGS APPROVED FOR THIS PROJECT.
1. DESIGN CRITERIA
2. MEMBERS SIZES
3. HIDDEN BOLTED CONNECTIONS BETWEEN STRUCTURAL MEMBERS
4. COLUMN ANCHORAGE SHALL INCLUDE FOUR (4) BOLTS IN COMPLIANCE WITH OSHA 1926.755(A)(1).
5. NO FIELD WELDING PERMITTED
6. NO FIELD PAINTING PERMITTED
7. ROOF DIMENSIONS AND SLOPES
8. EXPOSED STEEL ROOF FASTENERS (IF APPLICABLE) POWDER COATED BY MANUFACTURER
9. ROOF DECK SPANS FROM PEAK TO EAVE AND PERMITS PROPER DRAINAGE WITHOUT DEBRIS BUILD-UP.

1.3 SUBMITTALS
A. DRAWINGS AND CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE APPROPRIATE STATE.
B. ONLY MANUFACTURERS THAT SUBMIT DRAWINGS AND CALCULATIONS PRIOR TO BID SHALL BE CONSIDERED.
C. MANUFACTURER MUST BE ABLE TO SUBMIT APPROPRIATE LABORATORY TESTS FOR THE FOLLOWING:
1. FRAME FINISH REQUIREMENTS LISTED IN PART 2 OF THIS SPECIFICATION.
2. CERTIFIED MILL TEST REPORTS FOR STRUCTURAL STEEL (DESCRIBING THE CHEMICAL AND PHYSICAL PROPERTIES).
3. CERTIFIED MILL TEST REPORTS FOR STRUCTURAL BOLTS.

1.4 TECHNICAL SUPPORT
A. MANUFACTURER MUST HAVE IN-HOUSE ENGINEERING DEPARTMENT AND A PROFESSIONAL ENGINEER LICENSED IN THE APPROPRIATE STATE TO ANSWER TECHNICAL QUESTIONS.

1.5 QUALITY ASSURANCE
A. GENERAL
1. FABRICATION PROCEDURES SHALL COMPLY WITH APPLICABLE CODES AND LOCAL REGULATIONS.
2. REQUIRED STRUCTURAL TESTS AND SPECIAL INSPECTIONS INCLUDED ON THE PROJECT DSA-103 FORM.
B. MANUFACTURER QUALIFICATIONS
1. MINIMUM (10) YEARS ENGINEERING AND FABRICATING PRE-ENGINEERED STRUCTURES
2. MANUFACTURER OWNED AND OPERATED POWDER COAT PAINT FINISH SYSTEM
3. ALL AWS CERTIFIED WELDERS
4. FULL-TIME PROFESSIONAL ENGINEER ON STAFF LICENSED IN THE APPROPRIATE STATE
5. FULL-TIME AWS CERTIFIED ASSOCIATE WELDING INSPECTOR ON STAFF
6. FULL-TIME QUALITY ASSURANCE MANAGER ON STAFF
7. FULL-TIME LEED AP ON STAFF
C. MANUFACTURER CERTIFICATIONS
1. PCI 4000 CERTIFICATION THROUGH POWDER COATING INSTITUTE (PCI)
2. AISC CERTIFIED FABRICATOR

1.6 MANUFACTURER WARRANTY
A. STRUCTURE MUST HAVE (10) YEAR LIMITED WARRANTY ON STEEL FRAME MEMBERS.
B. STRUCTURE MUST HAVE (10) YEAR LIMITED WARRANTY ON PAINT SYSTEM.
C. PASS THROUGH WARRANTY OF ROOFING MANUFACTURER SHALL BE PROVIDED UPON REQUEST.

PART 2 - PRODUCTS

2.1 MANUFACTURER
A. ACCEPTABLE MANUFACTURERS
1. POLIGON, A DIVISION OF PORTERCORP.
A. 4240 N 136TH AVE., HOLLAND, MI 49424; (616) 399-1963; WWW.POLIGON.COM .
I. FOR POLIGON STRUCTURES IN *NORTHERN CALIFORNIA*, THE LOCAL REPRESENTATIVE IS ALL ABOUT PLAY (WWW.PLAYGROUNDPROS.COM). EMAIL AAP@PLAYGROUNDPROS.COM OR CALL (916) 923-2180
II. FOR POLIGON STRUCTURES IN *SOUTHERN CALIFORNIA*, THE LOCAL REPRESENTATIVE IS MIRACLE PLAYGROUND SALES (MIRACLEPLAYGROUNDSALES.COM EMAIL SALES@MIRACLEPLAYGROUND.COM OR CALL (951) 695-4515
B. SUBSTITUTION LIMITATIONS
1. THE ENGINEERING FOR THIS STRUCTURE IS ONLY APPLICABLE IF POLIGON SUPPLIES THE MATERIAL.
2. IF THE CONTRACTOR ELECTS TO SUBSTITUTE A DIFFERENT STRUCTURE, THEY ARE RESPONSIBLE TO OBTAIN THE NECESSARY DSA APPROVAL WITH:
A. NO COST TO THE DISTRICT OR ARCHITECT
B. NO CHANGE TO THE CONSTRUCTION SCHEDULE
3. SUBSTITUTIONS MUST BE APPROVED A MINIMUM OF (10) DAYS BEFORE BID.
4. ALL APPROVED MANUFACTURERS SHALL BE NOTIFIED IN WRITING BEFORE THE BID DATE.
5. SUBSTITUTE MANUFACTURERS SHALL NOT BE ALLOWED TO BID WITHOUT WRITTEN NOTIFICATION.
6. SUBSTITUTE MANUFACTURERS MUST MEET "MANUFACTURER QUALIFICATIONS" LISTED IN PART 1 OF THIS SPECIFICATION.
7. SUBSTITUTE MANUFACTURERS MUST PROVIDE PROOF OF "MANUFACTURER CERTIFICATIONS" ABOVE.
8. SUBSTITUTE MANUFACTURERS MUST PROVIDE PAINT FINISH DESCRIBED IN "FRAME FINISH" BELOW.

2.2 FRAME
A. MATERIALS
1. ANCHOR BOLTS: SEE DRAWINGS FOR REQUIREMENTS. ANCHOR BOLTS NOT PROVIDED BY MANUFACTURER
2. STRUCTURAL STEEL: SEE DRAWINGS FOR REQUIREMENTS.
3. STRUCTURAL BOLTS: SEE DRAWINGS FOR REQUIREMENTS.
B. FINISH
1. FRAME FINISH: POLI-5000 POWDER COAT. NO FIELD PAINTING PERMITTED.
A. COMPONENTS SHALL BE CLEANED, PRE-TREATED, AND FINISHED AT A FACILITY OWNED AND DIRECTLY SUPERVISED BY THE MANUFACTURER.
B. COMPONENTS SHALL BE SHOT BLASTED TO SSPC-SP10 NEAR-WHITE BLAST CLEANING. SSPC-SP2 HAND TOOL CLEANING WILL NOT BE AN ACCEPTABLE ALTERNATIVE.
C. COMPONENTS SHALL BE PRETREATED IN A (3) STAGE IRON PHOSPHATE OR EQUAL WASHER.
D. COMPONENTS SHALL RECEIVE EPOXY PRIMER COAT FOR SUPERIOR CORROSION PROTECTION.
E. COMPONENTS SHALL RECEIVE TOP COAT OF SUPER DURABLE TGIC POWDER COAT.
F. FINISH SHALL NOT HAVE ANY VOC EMISSIONS.
G. MANUFACTURER SHALL BE ABLE TO PRODUCE DOCUMENTATION STATING SAMPLE PRODUCTION COMPONENTS HAVE BEEN TESTED TO MEET THE FOLLOWING:
I. SALT SPRAY RESISTANCE PER ASTM B 117/ ASTM D 1654 TO 10,000 HOURS WITH NO CREEP FROM SCRIBE LINE AND RATING OF 10.
II. HUMIDITY RESISTANCE PER ASTM D2247-02 TO 5,000 HOURS WITH NO LOSS OF ADHESION OR BLISTERING.
III. COLOR/UV RESISTANCE PER ASTM G154-04 TO 2,000 HOURS EXPOSURE, ALTERNATE CYCLES WITH RESULTS OF NO CHALKING, 75% COLOR RETENTION, COLOR VARIATION MAXIMUM 3.0 E VARIATION CIE FORMULA (BEFORE AND AFTER 2,000 HOURS EXPOSURE).
2. FRAME COLOR: DETERMINED BY DISTRICT.
C. FABRICATION
1. FABRICATE COMPONENTS TO PERMIT BOLTED CONNECTIONS ON SITE. NO FIELD WELDING PERMITTED.
2. LABEL EACH MEMBER WITH UNIQUE PART NUMBER TO STREAMLINE ERECTION.
3. WELDING REQUIREMENTS: SEE DRAWINGS FOR REQUIREMENTS.

2.3 ROOF
A. MATERIALS
1. ROOF MATERIAL: SEE DRAWINGS FOR REQUIREMENTS.
2. ROOF HARDWARE: SEE DRAWINGS FOR REQUIREMENTS.
B. FINISH
1. ROOF FINISH: KYNAR 500 HIGH-PERFORMANCE RESIN-BASED PAINT.
2. ROOF COLOR: DETERMINED BY OWNER.

2.4 MISCELLANEOUS
A. MATERIALS
1. CONCRETE MATERIAL: SEE DRAWINGS FOR REQUIREMENTS. CONCRETE NOT PROVIDED BY MANUFACTURER.

PART 3 - EXECUTION

3.1 STORAGE AND HANDLING
A. PROTECT MATERIAL AFTER DELIVERY FROM WEATHER, SUNLIGHT, AND DAMAGE.
B. ELEVATE MATERIAL TO ALLOW CIRCULATION AND REDUCE MOLD, FUNGI DECAY, AND INSECT INFESTATION.
C. HANDLE MATERIAL WITH PROTECTIVE STRAPS OR PADDED FORKLIFT. HANDLING MATERIAL WITH CHAIN OR CABLE WILL NOT BE ACCEPTED AND MAY VOID MANUFACTURER'S WARRANTY.
D. TO PREVENT MOISTURE DAMAGE TO ANY WOOD MATERIAL (IF APPLICABLE), KEEP WOOD PACKAGED BEFORE INSTALLATION AND COVER IMMEDIATELY WITH ANY SECONDARY ROOF MATERIAL.

3.2 ERECTION
A. INSTALL COMPONENTS ACCORDING TO MANUFACTURER'S INSTALLATION DRAWINGS AND THESE SPECIFICATIONS.
B. ANCHOR BOLT AND COLUMN LAYOUT IS CRITICAL.
C. COMPLY WITH SPECIFIC BOLTING INSTALLATION REQUIREMENTS PROVIDED ON DRAWINGS REQUIRING THE CONTRACTOR TO COORDINATE THIS PHASE OF CONSTRUCTION WITH THE SPECIAL BOLTING INSPECTOR AND THE INSPECTOR OF RECORD *PRIOR TO THE ERECTION OF THE FRAME.*
D. NO FIELD SLOTTING OR OPENING OF HOLES WILL BE ALLOWED. TOLERANCES ON STEEL STRUCTURAL MEMBERS ARE SET ACCORDING TO AISC CONSTRUCTION PRACTICES, FOLLOWED DURING FABRICATION, AND CANNOT BE INCREASED.
E. AFTER INSTALLATION, RESTORE DAMAGED SURFACES TO THE ORIGINAL CONDITION USING TOUCH-UP PAINT PROVIDED BY MANUFACTURER. IF THE ARCHITECT DOES NOT ACCEPT THAT, REPLACE DAMAGED MATERIAL AT NO COST TO THE DISTRICT.
F. COORDINATE AS REQUIRED WITH OTHER DISCIPLINES (ELECTRICAL, PLUMBING, ETC.)
G. COMPLY WITH ALL APPLICABLE OHSA REQUIREMENTS

3.3 REPAIR
A. DO NOT ATTEMPT ANY FIELD CHANGES TO THE STRUCTURE WITHOUT FIRST CONTACTING THE MANUFACTURER.
3.4 QUALITY CONTROL
A. TESTS AND INSPECTIONS DURING ERECTION ARE NOT REQUIRED BY THE MANUFACTURER, BUT MAY BE REQUIRED BY OTHERS.
B. THE PROJECT INSPECTOR, AND ENTIRE CONSTRUCTION OVERSIGHT PROCESS, SHALL COMPLY WITH DSA PR 13-01. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

STATE APPROVALS-SITE

4080 PLAZA GOLDORADO CIRCLE SUITE B, CAMERON PARK, CA 95682 530.677.5515

GHD

poligon PORTER

REGISTERED PROFESSIONAL ENGINEER JESSICA E. NAPIER No. S5476 STRUCTURAL STATE OF CALIFORNIA

STATE APPROVALS-PC

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-121213 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 7/18/2023

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

ORDER FORM

HIP ROOF - RAM

RAM1.0

AGENCY APPROVAL:

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-121825 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 02/15/2024

Sacramento City UNIFIED SCHOOL DISTRICT

HMC Architects
3186069000
2101 CAPITOL AVENUE, SUITE 100
SACRAMENTO, CA 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT JEFFREY ALAN GRAU C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

FACILITY:
4720 FOREST PKWY
SACRAMENTO, CA 95823

PROJECT:
PARKWAY ELEMENTARY - SHADE STRUCTURE

SHEET NAME:
ORDER FORM

CONSTRUCTION DOCUMENTS

DATE: 2/09/2024 CLIENT PROJ NO:

SHEET:
RAM1.0

PLEASE RECYCLE

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GENERAL:

1. GENERAL NOTES AND TYPICAL DETAILS SHALL APPLY TO ALL PARTS OF THE JOB EXCEPT WHERE THEY MAY CONFLICT WITH DETAILS AND NOTES ON OTHER SHEETS. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED SUBJECT TO REVIEW BY THE STRUCTURAL ENGINEER FOR THIS PROJECT.
2. WORK SHALL CONFORM TO THE REQUIREMENTS, AS AMENDED TO DATE, OF THE LATEST ADOPTED EDITION OF THE CBC, C.A.C. TITLE 24, AND ALL OTHER LOCAL, STATE AND FEDERAL REGULATIONS.
3. OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR THIS PROJECT PRIOR TO PROCEEDING WITH ANY WORK INVOLVED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR THIS PROJECT AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
5. THESE CONSTRUCTION DRAWINGS AND SPECIFICATIONS 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, INCLUDING, BUT NOT LIMITED TO, BRACING, TEMPORARY SUPPORTS, AND SHORING. OBSERVATION VISITS TO THE SITE BY FIELD REPRESENTATIVES OF THE ARCHITECT/ENGINEER SHALL NOT INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES. ANY SUPPORT SERVICES PERFORMED BY THE ARCHITECT/ENGINEER DURING THE CONSTRUCTION SHALL BE DISTINGUISHED FROM CONSTRUCTION AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ARCHITECT/ENGINEER, WHETHER OF MATERIAL OR WORK, ARE FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DOCUMENTS, BUT DO NOT GUARANTEE CONSTRUCTION.
6. ASTM DESIGNATIONS AND ALL STANDARDS REFER TO THE LATEST AMENDMENTS.
7. CONFORM TO APPLICABLE CAL/OSHA CONSTRUCTION SAFETY REGULATIONS FOR ALL WORK PERFORMED DURING CONSTRUCTION. JOB SITE SAFETY IS STRICTLY THE RESPONSIBILITY OF THE CONTRACTOR AND NOT THE ARCHITECT/ENGINEER OR OWNER.
8. THE ENGINEER AND THEIR CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, HANDLING, REMOVAL OR DISPOSAL OF HAZARDOUS MATERIALS AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED, TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.
9. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, OR IF A CHANGE IN THE SCOPE OF WORK IS PROPOSED, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED CHANGE(S) SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
10. THE SCHOOL DISTRICT'S INSPECTOR OF RECORD SHALL INSPECT AND APPROVE THE ERECTED FRAME PRIOR TO ROOF INSTALLATION.
11. SEE REQUIREMENTS FOR LOCATION IN ANY FIRE HAZARD SEVERITY ZONE FOR WILDLAND URBAN INTERFACE AREAS (WUI) AS SPECIFIED IN THE APPLICABLE VERSION OF THE CALIFORNIA BUILDING CODE. PROVIDE PROTECTION AND DETAILS OF ALL AREAS COMPLYING WITH THE WUI REQUIRMENTS.
12. LOCATING THIS STRUCTURE CLOSER THAN 20 FEET TO OTHER STRUCTURES MAY AFFECT THE ALLOWABLE AREA FOR THE EXISTING CONSTRUCTION PER THE APPLICABLE VERSION OF THE CALIFORNIA BUILDING CODE.
13. VIEWS AND DETAILS ARE NOT DRAWN TO SCALE (UNLESS NOTED OTHERWISE). DO NOT SCALE THESE DRAWINGS.
14. OTHER SITE SPECIFIC ITEMS MAY BE REQUIRED.
15. WHEN A SITE-SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A SOILS ENGINEEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN THE PC ARE STILL APPLICABLE.

STRUCTURAL AND MISCELLANEOUS STEEL:

1. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 360 - 16 AND 303-16 MANUAL REFERENCED BY THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE.
2. PIPE SECTIONS SHALL CONFORM TO ASTM A53, Fy = 35 ksi, GRADE B UNLESS NOTED OTHERWISE.
3. STRUCTURAL TUBING (HSS SHAPES) SHALL CONFORM TO ASTM A500, GRADE B (OR HIGHER), Fy = 46 KSI.
4. IF MATERIAL AVAILABILITY IS LIMITED, MEMBER THICKNESSES CAN BE INCREASED BEYOND WHAT IS SHOWN IN THESE DRAWINGS (MAXIMUM INCREASE OF 1/8").
5. ALL CHANNELS, ANGLES, PLATES AND MISC. STEEL SHALL CONFORM TO ASTM A36, Fy = 36 KSI.
6. ALL COLD FORM STEEL SHALL CONFORM TO ASTM A653, CS = TYPE B, Fy = 50 KSI.
7. STRUCTURAL STEEL AND DECK SHALL BE IDENTIFIED FOR CONFORMITY PER CBC 2202A.1.
8. ROOF DECK SHALL HAVE KYNAR 5000 METAL COATING.
9. ROOF DECK SHALL CONFORM TO ATSM A792, Fy = 50 KSI.
10. MR ROOF SCREWS MEET ASTM A510 WITH A HEAD DIMENSION OF 0.31" (FLAT-TO-FLAT) AND INTEGRAL WASHER DIMENSION OF 0.58" (OUTSIDE DIAMETER).
11. SS ROOF SCREWS MEET ASTM A510 WITH A HEAD DIMENSION OF 0.437" (OUTSIDE DIAMETER).

WELDING:

1. ALL WELDING SHALL COMPLY WITH AWS D1.1 SPECIFICATIONS AND SHALL BE DONE BY AWS QUALIFIED WELDERS CERTIFIED FOR THE TYPE OF WELDING TO BE PERFORMED.
2. ALL WELDING SHALL BE DONE BY GAS METAL ARC PROCESS WITH E70XX ELECTRODES. FLUX CORE ARC WELD SHALL CONFORM TO CHARPY NOTCH TOUGHNESS RATING OF 20 ft-lb @ (O° F).
3. ALL WELDING SHALL BE DONE IN THE SHOP WITH REQUIRED INSPECTION, PRE-APPROVED BY DSA, TO ENSURE PROPER MATERIAL ID AND WELDING.
4. WELD FILLER METAL MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION OF COMPLIANCE WITH CODE AND SPECIFICATIONS.

BOLTING:

1. ALL BOLTS SHOWN ON THESE DRAWINGS ARE ASTM F3125 (A325 TYPE 1) HIGH STRENGTH BOLTS (UNO) AND SHALL BE HOT DIPPED GALVANIZED PER ASTM F2329.
2. HIGH STRENGTH BOLTS SHALL BE SAMPLED AND TESTED IN COMPLANCE WITH CBC 2213A.1.
3. BEFORE ERECTING THE FRAME, VERIFY ALL BOLTS AND NUTS ARE CLEAN OF DEBRIS AND BURRS - INCLUDING THE HARDWARE ALREADY FASTENED INSIDE THE MEMBERS. CHASING SOME OF THE BOLTS AND NUTS MAY BE REQUIRED.
4. ANCHOR BOLTS (HEAVY HEX HEAD, ASTM F1554, GRADE 55) SHALL BE HOT DIPPED GALVANIZED PER ASTM F2329. ANCHOR BOLTS MAY BE HEADED OR THREADED WITH A NUT THAT IS PREVENTED FROM ROTATING.
5. HIGH STRENGTH NUTS SHALL CONFORM TO ASTM A563 AND SHALL BE GALVANIZED PER ASTM F2329.
6. HIGH STRENGTH WASHERS SHALL CONFORM TO ASTM F436 AND SHALL BE GALVANIZED PER ASTM F2329.
7. THE BOLTING INSTALLATION REQUIREMENTS OUTLINED BELOW ARE CRITICAL TO THE STRUCTURE'S DESIGN AND PERFORMANCE. **THE INSTALLER IS REQUIRED TO COORDINATE THIS PHASE OF CONSTRUCTION WITH THE SPECIAL BOLTING INSPECTOR AND THE INSPECTOR OF RECORD PRIOR TO THE ERECTION OF THE FRAME**. ALL BOLTS SHALL BE INSTALLED AND INSPECTED PER THE APPLICABLE VERSION OF AISC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS", CBC 1705A.2.1; AISC 341-16 J7; AISC 360-16 N5.6.
   A. PRETENSIONED JOINTS (IDENTIFIED ON THE FRAME CONNECTION DETAILS WITH A "PJ REQUIRED") MUST BE INSTALLED AND INSPECTED TO MEET ONE OF FOLLOWING REQUIREMENTS:
      1. TURN-OF-NUT PRETENSIONING
      2. CALIBRATED WRENCH PRENTENSIONING
      3. DIRECT-TENSION-INDICATOR PRETENSIONING (CONTRACTOR RESPONSIBLE FOR PURCHASE OF REQUIRED WASHERS)

   B. ALL OTHER JOINTS MUST BE INSTALLED AND INSPECTED TO MEET THE REQUIREMENTS OF SNUG-TIGHTENED JOINTS. **NOTE TO INSTALLER AND INSPECTOR(S): THE SNUG-TIGHT CONDITION EXISTS, IN PART, WHEN ALL THE BOLTS IN THE JOINT HAVE BEEN TIGHTENED SUFFICIENTLY TO PREVENT THE REMOVAL OF THE NUTS WITHOUT THE USE OF A WRENCH.**

   THE CONTRACTOR, SPECIAL BOLTING INSPECTOR AND THE INSPECTOR OF RECORD MUST ALL AGREE ON WHICH APPROACH WILL BE USED TO PRETENSION THE BOLTS. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THE APPROACH AGREED TO BY ALL PARTIES LISTED ABOVE.

FOUNDATIONS:

1. ALLOWABLE SOIL PRESSURES ASSUME CLASS 5 SOIL CLASSIFICATION PER 2022 CBC TABLE 1806A. 2.
2. FILL AND BACKFILL SHALL BE COMPACTED TO 95% OF MAX. DENSITY IN ACCORDANCE WITH ASTM TEST METHOD D1557. FLOODING NOT PERMITTED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, ETC. NECCESSARY TO SUPPORT CUT AND/OR FILL BANKS DURING EXCAVATION, AND FORMING AND PLACEMENT OF CONCRETE.
4. STRUCTURES SHALL BE SETBACK FROM ADAJCENT SLOPES TO PROVIDE FIRM MATERIAL FOR EMBEDMENT AND FOR PROTECTION FROM SLOPE DRAINAGE, EROSION, AND SHALLOW FAILURES.
   A. BOTTOM OF ASCENDING SLOPE: THE SMALLER OF HALF THE HEIGHT OF THE SLOPE AND 15FT MEASURED FROM THE FACE OF THE STRUCTURE TO THE TOE OF THE SLOPE
   B. TOP OF DECENDING SLOPE: THE SMALLER OF A THIRD OF THE HEIGHT OF THE SLOPE AND 40 FT MEASURED FROM THE FACE OF THE FOOTING TO THE TOP OF THE SLOPE

   ALTERNATE SETBACKS ARE PERMITTED, SUBJECT FOR APPROVAL. A GEOTECHNICAL INVESTIGATION MAY BE REQUIRED.
5. STRUCTURES PLACED ON LIQUIFIABLE SOILS OR SITE CLASS F MAY NOT BE SUBMITTED FOR AN OVER THE COUNTER REVIEW.

CONCRETE:

1. MIX DESIGN REQUIREMENTS: (NORMAL WEIGHT CONCRETE)

MINIMUM STRENGTH f'c (28 DAYS)	EXPOSURE CATEGORY	W/C RATIO MAXIMUM)	SLUMP (± 1")	UNIT WEIGHT (NORMAL WEIGHT)
5000 PSI	F3, S3, W2, C2	0.4	4"	150 PCF

2. CHANGES TO THE MIX DESIGN MUST BE APPROVED BY THE ENGINEER OR ARCHITECT OF RECORD AND DSA
3. AGGREGATES SHALL CONFORM TO ASTM C33. MAX AGGREGATE SIZE = 1".
4. CEMENT SHALL CONFORM TO ASTM C150 (TYPE V) WITH A MAXIMUM EXPANSION OF 0.040%, FOR SULFATE RESISTANCE.
5. ADMIXTURES CONTAINING CALCIUM CHLORIDE ARE PROHIBITED.
6. CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES SHALL BE AIR ENTRAINED PER ACI 318-19 SECTION 19.3.3.
7. CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF FIVE DAYS AFTER PLACEMENT. ALTERNATE METHODS WILL BE APPROVED IF SATISFACTORY PERFORMANCE CAN BE ASSURED.
8. CONCRETE SHALL NOT FREE FALL MORE THAN FIVE FEET.
9. CONCRETE SHALL BE PROPORTIONED PER ACI 318-19 26.4.
10. CONCRETE SHALL BE TESTED PER CBC 1910A.1, 1705A.3, AND ACI 318-19 26.13. BATCH PLANT INSPECTION NOT REQUIRED. CONTRACTOR SHALL IMPLEMENT WEIGHTMASTER AND BATCH TICKET REQUIREMENTS OF CBC 1705A.3.3.1.

REINFORCING STEEL:

1. REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A615, (DEFORMATIONS SHALL BE IN ACCORDANCE WITH ASTM A305) AS FOLLOWS:
   GR 60: (#4 BARS AND LARGER)
   GR 40: (#3 BARS)
2. DETAILING, FABRICATION, AND ERECTION OF REINFORCING BARS SHALL CONFORM TO THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES."
3. MIN. COVER FOR CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:
   A. CAST AGAINST EARTH.. 3"
   B. CAST AGAINST FORM BELOW GRADE...................... 2"
   C. FORMED SLABS (#11 BAR & SMALLER)..................... 3/4"
   D. SLABS ON GRADE (FROM TOP OF SLAB).................. 1"
   E. COLUMNS AND BEAMS (MAIN BARS)...................... 2"
   F. WALLS EXPOSED TO WEATHER (#6-#18 BARS)......... 2"
   (#5 & SMALLER)......... 11/2"
   G. NOT EXPOSED TO WEATHER (#11 & SMALLER)........ 3/4"
4. BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND. BENDS SHALL BE MADE COLD.
5. FOR #6 BARS AND SMALLER, REINFORCING SHALL BE LAP SPLICED 45 BAR DIA MINIMUM IN CONCRETE. FOR #7 BARS AND LARGER, REINFORCING SHALL BE LAP SPLICED 55 BAR DIAMETERS MINIMUM IN CONCRETE. ALL LAP SPLICES MUST COMPLY WITH ACI 318-19.
6. PRIOR TO PLACING OF CONCRETE, REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE WELL SECURED IN POSITION.
7. WELDING OF REINFORCING IS NOT ALLOWED
8. REINFORCING STEEL SHALL BE SAMPLED AND TESTED PER CBC 1910A.2.

POWDER COATED AND EPOXY PRIMED FINISH:

1. ENTIRE POWDER COATING PROCESS COMPLETED IN SAME FACILITY AS STEEL FABRICATION.
2. ALL CARBON STEEL MEMBERS (COLUMNS, BEAMS, PLATES, ETC.) PAINTED WITH PRIME COAT PER THE "AISC CODE OF STANDARD PRACTICE" AND THE "AISC SPECIFICATION SECTION M3" (UNLESS NOTED OTHERWISE).
3. PARTS PRETREATED IN A 3 STAGE IRON PHOSPHATE WASHER (OR EQUAL).
4. EPOXY PRIMER POWDER COAT APPLIED TO PARTS FOR SUPERIOR CORROSION PROTECTION.
5. TOP POWDER COAT OF SUPER DURABLE TGIC (COLOR SELECTED FROM MANUFACTURER'S STANDARD OPTIONS OR CUSTOM COLOR).
6. SAMPLE PRODUCTION PARTS TESTED TO MEET THE FOLLOWING CRITERIA:
   A. SALT SPRAY RESISTANCE PER ASTM B 117/ ASTM D 1654
      1. 10000 HOURS WITH NO CREEP FROM SCRIBE LINE AND RATING OF 10
   B. HUMIDITY RESISTANCE PER ASTM D2247-02
      1. 5000 HOURS WITH NO LOSS OF ADHESION OR BLISTERING
   C. COLOR/UV RESISTANCE PER ASTM G154-04
      1. 2000 HOURS EXPOSURE ALTERNATE CYCLES WITH NO CHALKING, 75% COLOR RETENTION, AND COLOR VARIATION MAXIMUM 3.0 E VARIATION CIE FORMULA (BEFORE AND AFTER 2000 HOURS EXPOSURE

CONSTRUCTION NOTES

1. A DSA-CERTIFIED CLASS 2 INSPECTOR IS REQUIRED FOR THIS PROJECT.
2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQURIED BY SECTION 4-338, PART 1, TITLE 24 CCR AND DSA IR A-6.
3. A "DSA-CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE OWNER (E.G. DISTRICT, ETC.) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
4. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE OWNER (E.G. DISTRICT, ETC.) SHALL CONDUCT ALL THE REQUIRED TEST AND INSPECTIONS FOR THE PROJECT.

NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEER RESPONIBILITY

1. FOR THE SITE-SPECIFIC PROJECT, NEITHER POLIGON OR GHD ARE THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE.
2. FOR THE SITE-SPECIFIC PROJECT, GHD AND POLIGON'S RESPONSIBILITY IS LIMITED TO THE PREPARATION OF THE PLANS AND SPECIFICATIONS FOR THE STRUCTURES OF THIS PC ONLY.
3. STRUCTURAL OBSERVATION OF CONSTRUCTION IS SPECIFICALLY EXCLUDED FROM GHD AND POLIGON'S RESPONSIBILITY FOR THE SITE-SPECIFIC PROJECT.
4. ALL CONSTRUCTION ACTIVITIES RELATED TO STRUCTURAL ENGINEERING MAY BE DELEGATED TO A QUALIFIED ENGINEER BY THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE. THESE ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO, APPROVAL OF INSPECTOR QUALIFICATIONS, STRUCTURAL OBSERVATIONS OF CONSTRUCTION, REVIEW OF INSPECTIONS REPORTS, AND SIGNING OFF ON THE VERIFIED REPORT FOR COMPLETED WORK.
5. POLIGON WILL BE RESPONSIBLE FOR RESPONDING TO QUESTIONS PERTAINING TO THE PLANS AND SPECIFICATIONS FOR THE STRUCTURES OF THIS PC WHICH ARISE DURING PLAN REVIEW AND CONSTRUCTION.

SPECIAL INSPECTION NOTES:

1. THE PROJECT INSPECTOR AND TESTING AGENCY SHALL BE SELECTED BY THE SCHOOL DISTRICT AND APPROVED BY DSA AND THE ARCHITECT OF RECORD.
2. COSTS OF THE PROJECT INSPECTOR AND THE TESTING AGENCY SHALL BE BORN BY THE SCHOOL DISTRICT.
3. THE PROJECT INSPECTOR, AND ENTIRE CONSTRUCTION OVERSIGHT PROCESS, SHALL COMPLY WITH DSA PR 13-01.
4. ON APPROVED PC DRAWINGS, THE STATEMENT OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS (FORM DSA-103) BELOW IS ONLY AN EXAMPLE. ON APPROVED PC DRAWINGS, THE EXAMPLE FORM DSA-103 MUST BE CROSSED OUT BEFORE THE PC DRAWINGS CAN BE APPROVED AS PART OF A SITE-SPECIFIC (OR STOCKPILE) PROJECT SO THEY WILL NOT CONFLICT WITH THE OFFICIAL FORM DSA-103 FOR THE PROJECT.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

Application Number:	**School Name:**	**School District:**
DSA File Number:	**Increment Number:**	**Date Submitted:**

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

***NOTE:** Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required **Periodic** – Indicates that a periodic special inspection is required **Test** – Indicates that a test is required	**GE** – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative. **LOR** – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335. **PI** – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA. **SI** – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

	Test or Special Inspection	Type	Performed By	Code References and Notes
	S1. GENERAL:			
☑	**a.** Verify that: • Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. • Foundation excavations are extended to proper depth and have reached proper material. • Materials below footings are adequate to achieve the design bearing capacity.	See Notes	PI	Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12" depth under foundations is not permitted without a geotechnical report.
	S2. SOIL COMPACTION AND FILL:			
☑	**a.** Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.	Continuous	LOR*	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.
☑	**b.** Compaction testing.	Test	LOR*	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.
	S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):			
☑	**a.** Inspect drilling operations and maintain complete and accurate records for each pier.	Continuous	PI	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
☑	**b.** Verify pier locations, diameters, plumbness, and lengths. Record concrete or grout volumes.	Continuous	PI	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
☑	**c.** Concrete piers.	Provide tests and inspections per CONCRETE section below.		
	C1. CAST-IN-PLACE CONCRETE			
☑	**a.** Verify use of required design mix.	Periodic	SI	**Table 1705A.3 Item 5, 1910A.1.**
☑	**b.** Identifiy, sample, and test reinforcing steel.	Test	LOR	**1910A.2;** ACI 318-19 Ch. 20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.)
☑	**c.** During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Test	LOR	**Table 1705A.3 Item 6**; ACI 318-19 Sections 26.5 & 26.12.
☑	**d.** Test concrete (f'_c).	Test	LOR	**1905A.1.17;** ACI 318-19 Section 26.12.
☑	**e.** Batch plan inspection:	See Notes	SI	Default of **'Continuous'** per **1705A.3.3**. If approved by DSA, batch plant inspection may be reduced to **'Periodic'** subject to requirements in Section **1705.A.3.3.1**, or eliminated per **1705A.3.3.2**. See IR 17-13. (See Appendix (end of this form) for exemptions.)
	S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES			
☑	**a.** Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	Periodic	*	**Table 1705A.2.1 Item 3a–3c.** 2202A.1; AISI S100-20 Section A3.1 & A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.
☑	**b.** Test unidentified materials	Test	LOR	**2202A.1**
☑	**c.** Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.
☑	**d.** Verify and document steel fabrication per DSA-approved construction documents.	Periodic	SI	Not applicable to cold-formed steel light-frame construction, except for trusses (**1705A.2.4**).
	S/A2. HIGH-STRENGTH BOLTS:			
☑	**a.** Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents.	Periodic	SI	**Table 1705A.2.1 Items 1a & 1b, 2202A.1;** AISC 360-16 Section A3.3, J3.1, and N3.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9.
☑	**b.** Test high-strength bolts, nuts and washers.	Test	LOR	**Table 1705A.2.1 Item 1c, 2213A.1**; RCSC 2014 Section 7.2; DSA IR 17-8.
☑	**c.** Bearing-type ("snug tight") connections.	Periodic	SI	**Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2;** AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Section 9.1; DSA IR 17-9.
☑	**d.** Pretensioned and slip-critical connections.	*	SI	**Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2;** AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. * "Continuous" or "Periodic" depends on the tightening method used.
	S/A3. WELDING:			
☑	**a.** Verify weld filler material identification markings per AWS designation listed on the DSA- approved documents and the WPS.	Periodic	SI	**1705A.2.5, Table 1705A.2.1 Items 4 & 5**; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17- 3.
☑	**b.** Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.
☑	**c.** Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.
	S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):			
☑	**a.** Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	**Table 1705A.2.1 Items 5a.1–4;** AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☑	**b.** Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	Periodic	SI	**1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6;** AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
	S/A9. ANCHOR BOLTS AND ANCHOR RODS:			
☑	**a.** Anchor Bolts and Anchor Rods	Test	LOR	Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11.

Name of Architect or Engineer in general responsible charge:

Name of Structural Engineer (When structural design has been delegated):

Signature of Architect or Structural Engineer: Date:

Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.

DSA STAMP

DSA 103-22: LIST OF REQUIRED VERIFIED REPORTS, CBC 2022

1. Soils Testing and Inspection: Geotechnical Verified Report Form DSA 293
2. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
3. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
4. High-Strength Bolt Installation Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

STATE APPROVALS-SITE

STATE APPROVALS-PC

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-121213 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 7/18/2023

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

NOTES AND SPECIAL INSPECTIONS

HIP ROOF - RAM

RAM1.1

AGENCY APPROVAL:

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-121825 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 02/15/2024

Sacramento City UNIFIED SCHOOL DISTRICT

HMC Architects
3186069000
2101 CAPITOL AVENUE, SUITE 100
SACRAMENTO, CA 95816
916 368 7990 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE

FACILITY:
4720 FOREST PKWY
SACRAMENTO, CA 95823

PROJECT:
PARKWAY ELEMENTARY - SHADE STRUCTURE

SHEET NAME:
NOTES AND SPECIAL INSPECTIONS

CONSTRUCTION DOCUMENTS

DATE: 2/09/2024 CLIENT PROJ NO:

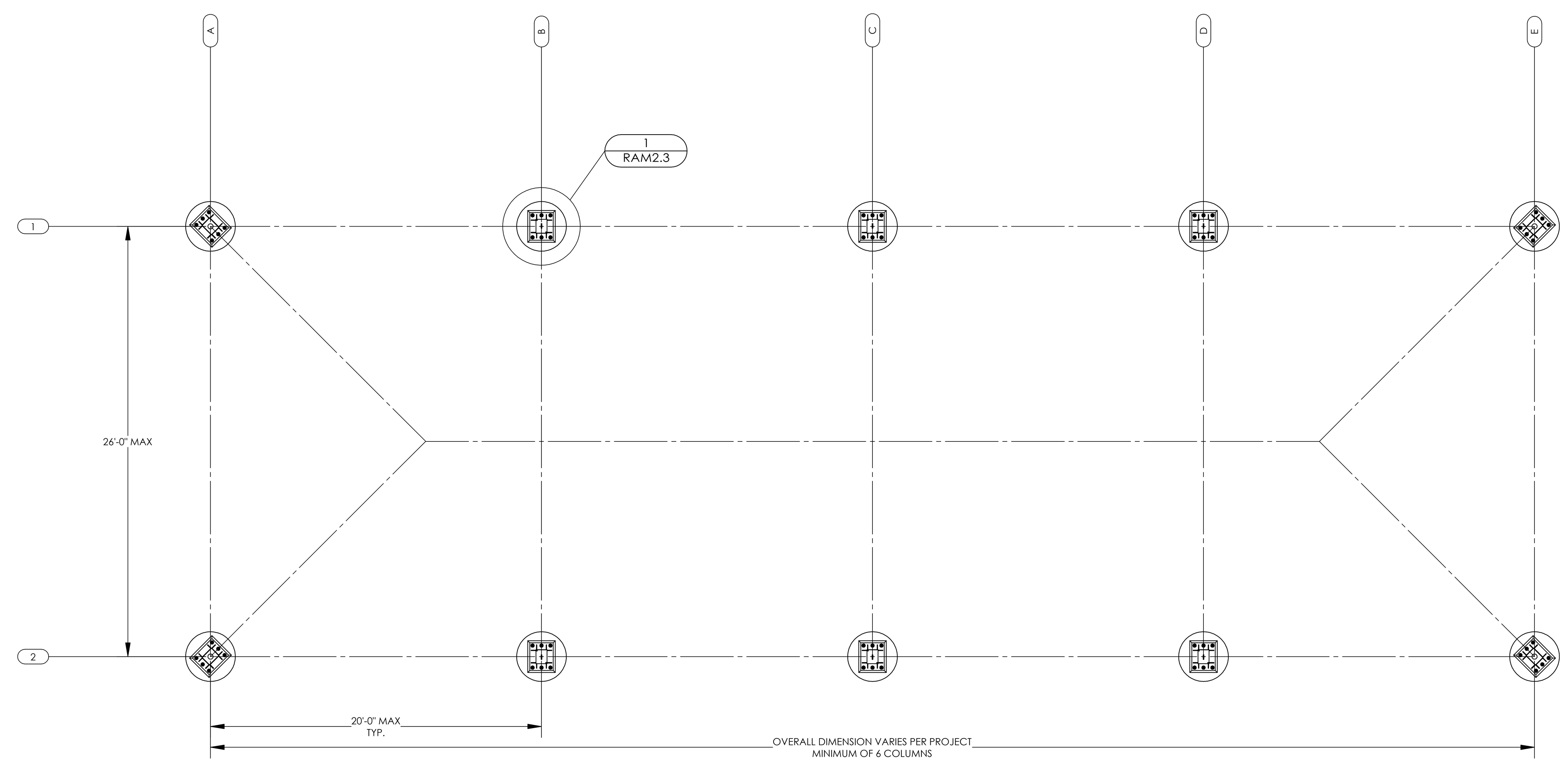
SHEET:
RAM1.1

AGENCY APPROVAL:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121825 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 02/15/2024

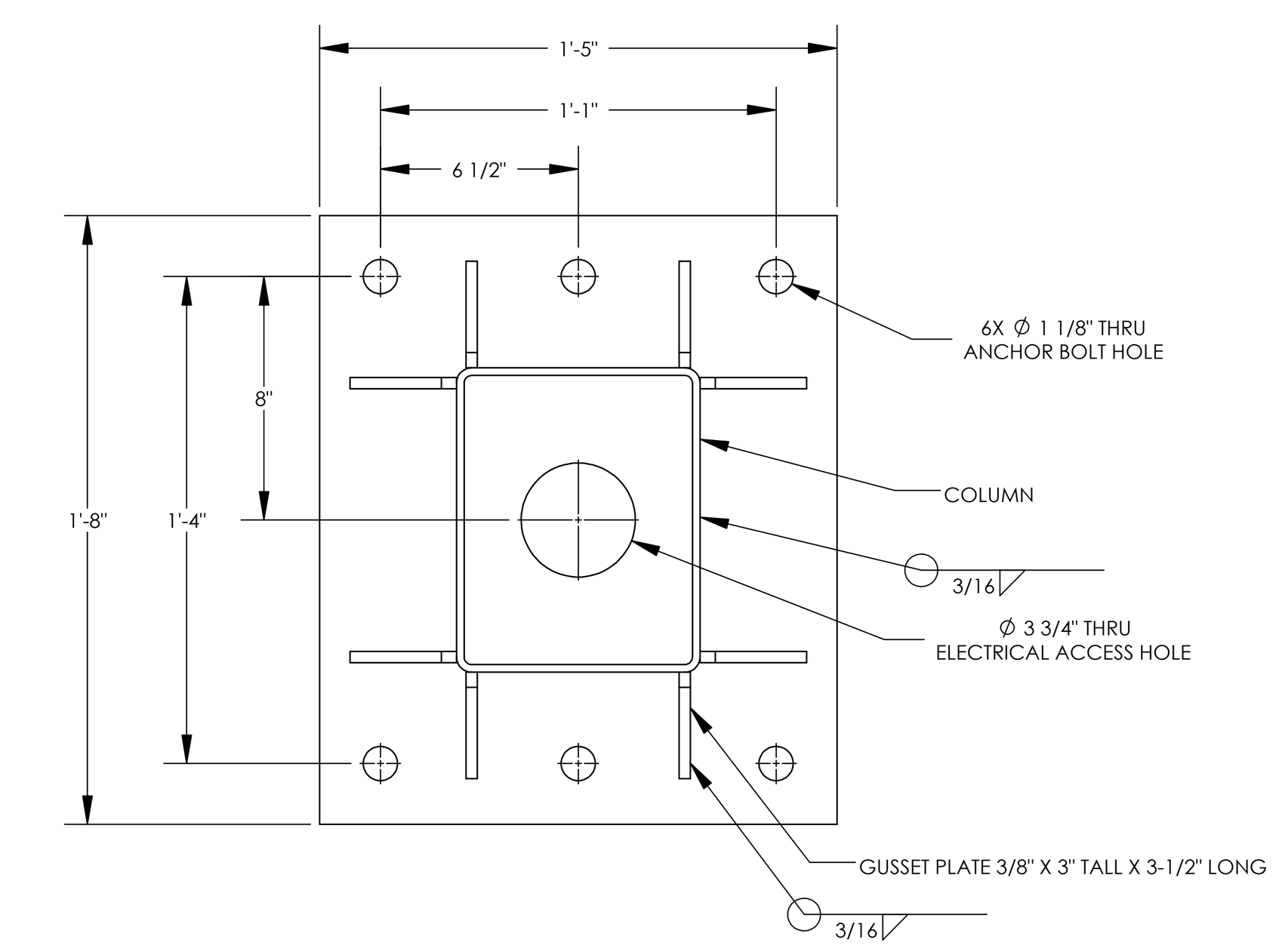
FOUNDATION PLAN NOTES:

1. TOP OF ALL FOUNDATIONS MUST BE CONSTRUCTED AT ONE COMMON ELEVATION (COORDINATE WITH SITE PLANS - NOT BY POLIGON)
2. ALL FOUNDATIONS MUST BE CENTERED UNDER COLUMNS (UNO).
3. SEE SHEET RAM1.1 FOR CONCRETE REQUIREMENTS.
4. PRIOR TO FORMING AND CASTING FOUNDATIONS, REVIEW FOUNDATION PLAN FOR REQUIRED ORIENTATION.
5. FOUNDATION MATERIAL AND INSTALLATION NOT BY POLIGON.
6. VIBRATE CONCRETE FULL DEPTH OF FOUNDATION.
7. FOR DRILLED PIER FOUNDATIONS, PREVENT SOIL FROM ENTERING EXCAVATED HOLE (FORM, ETC).



FOUNDATION PLAN (DRILLED PIER)

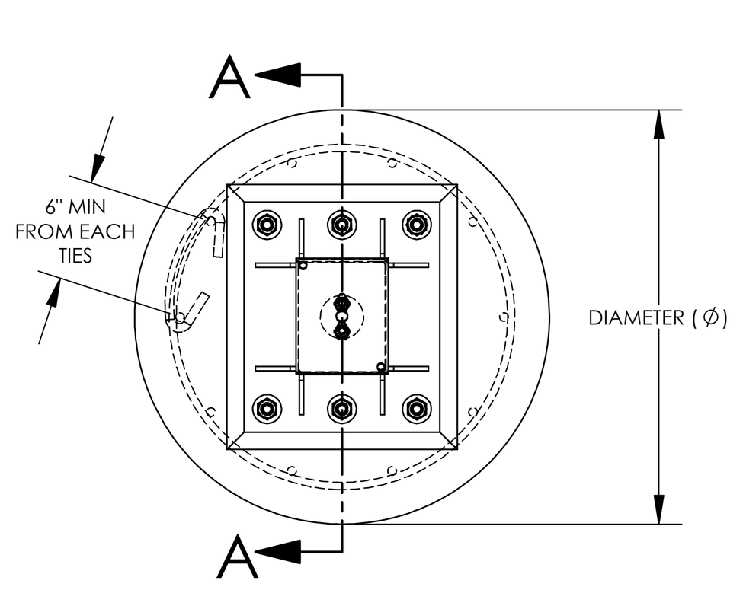
SCALE: 3/16" = 1'-0"



DETAIL 3

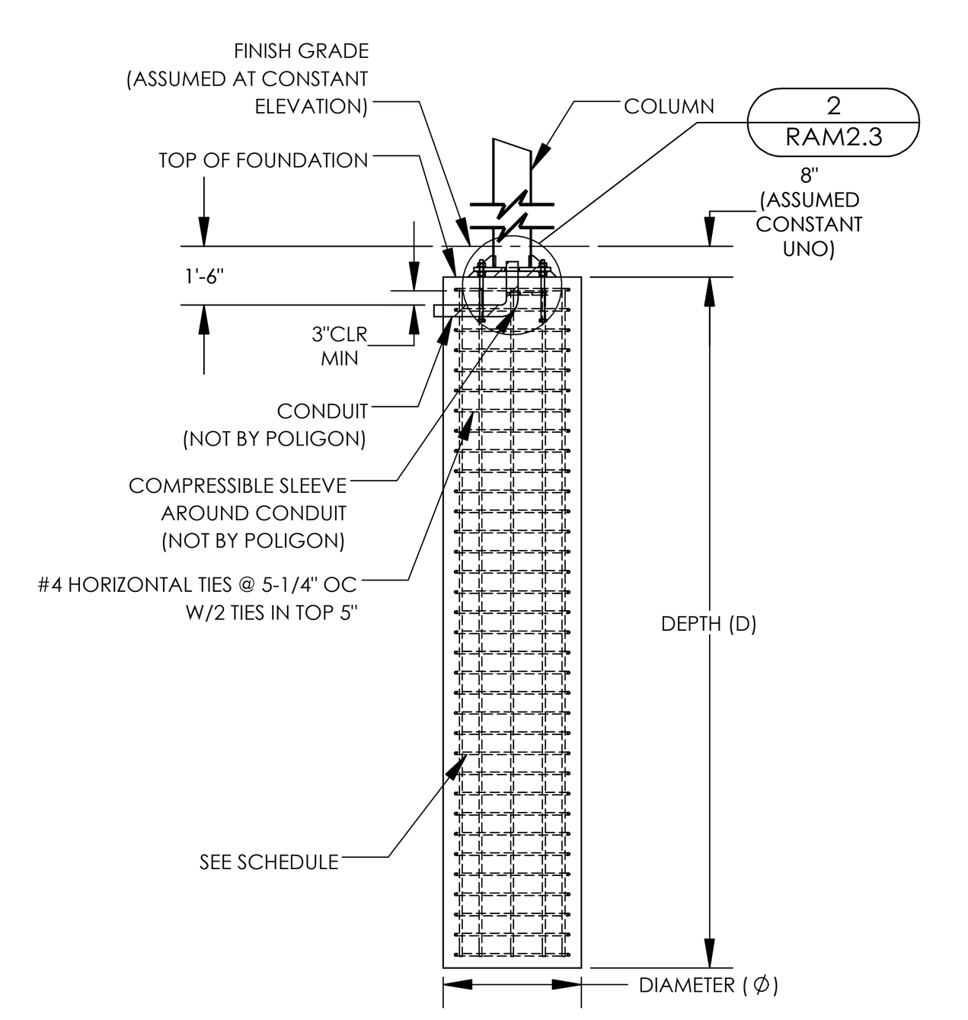
SCALE: 1-1/2" = 1'-0"

COLUMN BASEPLATE — 3



DETAIL 1

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



SECTION A-A

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

FOUNDATION REQUIREMENTS VARY PER PROJECT

SEE SHEET RAM1.0 FOR REQUIRED LOAD SCENARIO AND FOUNDATION TYPE (STEP 9 OF 'INSTRUCTIONS')

ONLY REFERENCE COPY OF PC DRAWINGS SUBMITTED FOR THIS PROJECT

DRILLED PIER

SIZE AND REINFORCING REQUIREMENTS

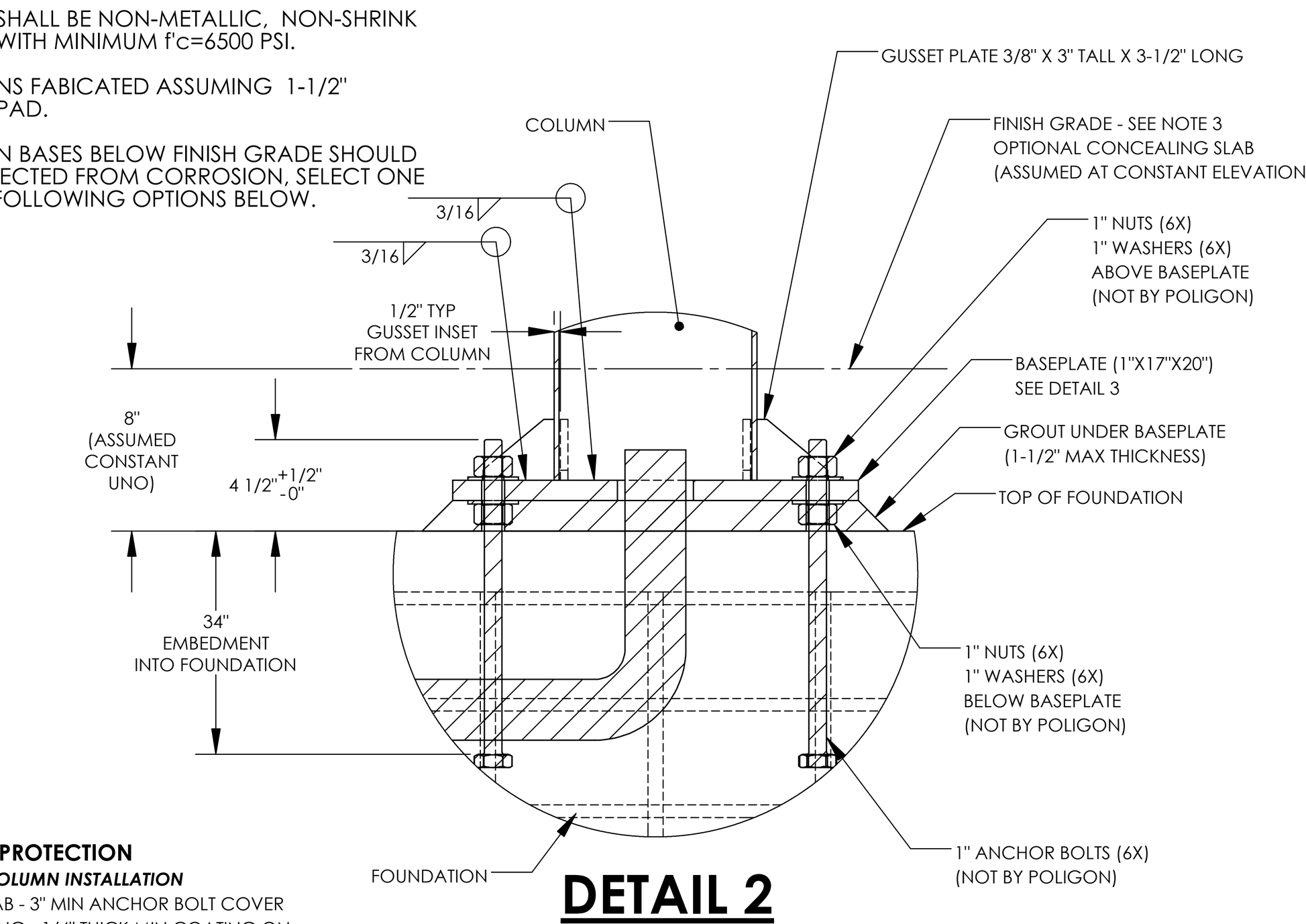
LOAD SCENARIO	DIAMETER (Ø)	DEPTH (D)	VERTICAL REINFORCING[1]	
			QTY	SIZE
1	3'-0"	13'-0"	10	#7
~~2~~	~~3'-0"~~	~~15'-0"~~	~~10~~	~~#7~~

[1] EQUALLY SPACED AROUND DRILLED PIER

DRILLED PIER FOUNDATION — 1

NOTES:

1. GROUT SHALL BE NON-METALLIC, NON-SHRINK GROUT WITH MINIMUM f'c=6500 PSI.
2. COLUMNS FABICATED ASSUMING 1-1/2" GROUT PAD.
3. COLUMN BASES BELOW FINISH GRADE SHOULD BE PROTECTED FROM CORROSION, SELECT ONE OF THE FOLLOWING OPTIONS BELOW.



COLUMN BASE PROTECTION

BELOW SURFACE COLUMN INSTALLATION

[ ] CONCRETE SLAB - 3" MIN ANCHOR BOLT COVER
[ ] MASTIC COATING - 1/4" THICK MIN COATING ON ALL STEEL SURFACES BELOW GRADE

DETAIL 2

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

COLUMN BASEPLATE AND ANCHOR BOLTS — 2

STATE APPROVALS-SITE

GHD — 4800 PLAZA ON GOLDORADO CIRCLE, SUITE B, CAMERON PARK, CA 95682, 530.677.5515

poligon | PORTER CORP

STATE APPROVALS-PC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121213 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 7/18/2023

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

FOUNDATION PLAN DRILLED PIER

HIP ROOF - RAM 30

RAM2.3

Sacramento City UNIFIED SCHOOL DISTRICT

HMC Architects
3186069000
2101 CAPITOL AVENUE, SUITE 100
SACRAMENTO, CA 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT — JEFFREY ALAN GRAY — C-14648 — 5/31/25 RENEWAL DATE — STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

FACILITY:
4720 FOREST PKWY
SACRAMENTO, CA 95823

PROJECT:
PARKWAY ELEMENTARY - SHADE STRUCTURE

SHEET NAME:
FOUNDATION PLAN DRILLED PIER

CONSTRUCTION DOCUMENTS

DATE: 2/09/2024
CLIENT PROJ NO:

SHEET:
RAM2.3

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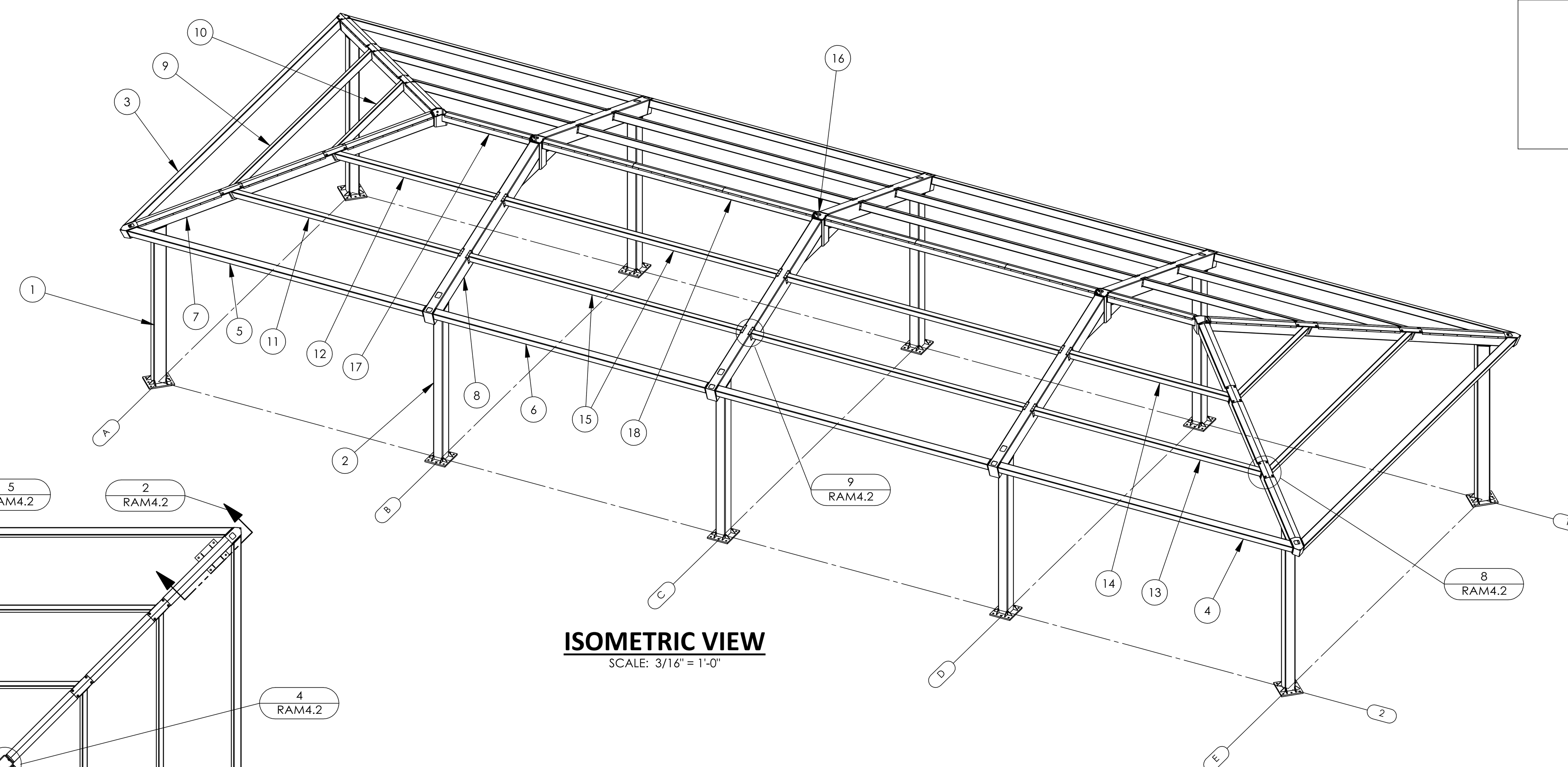
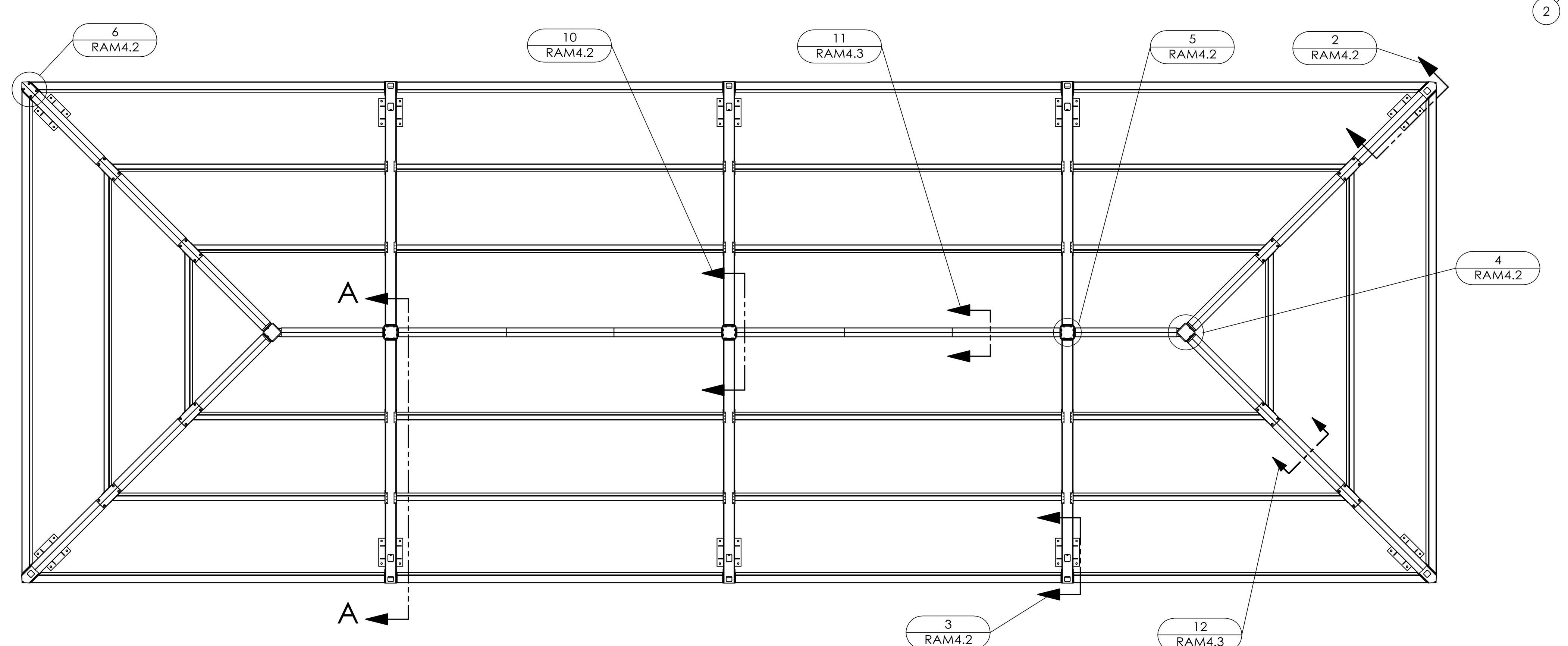
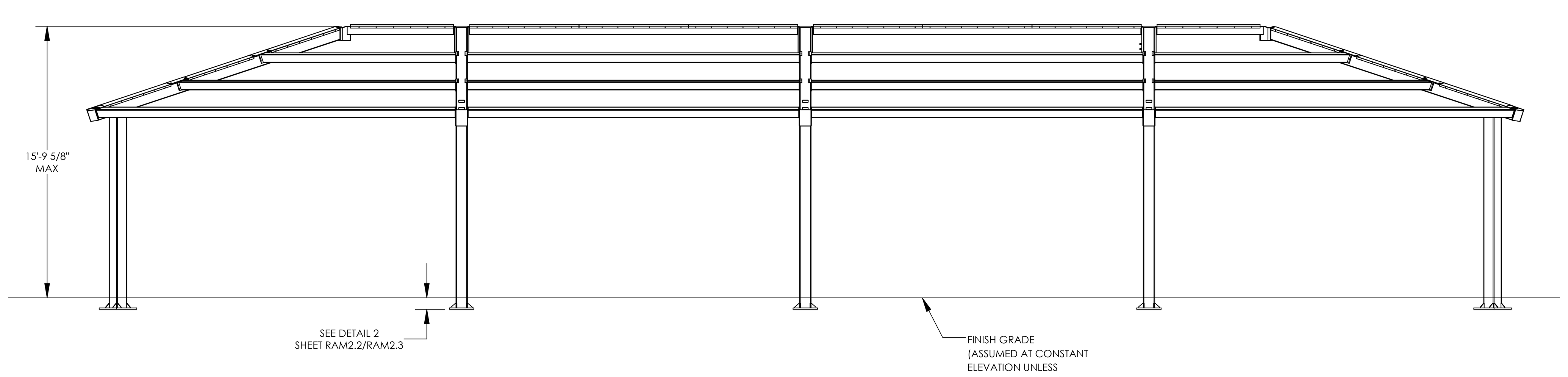


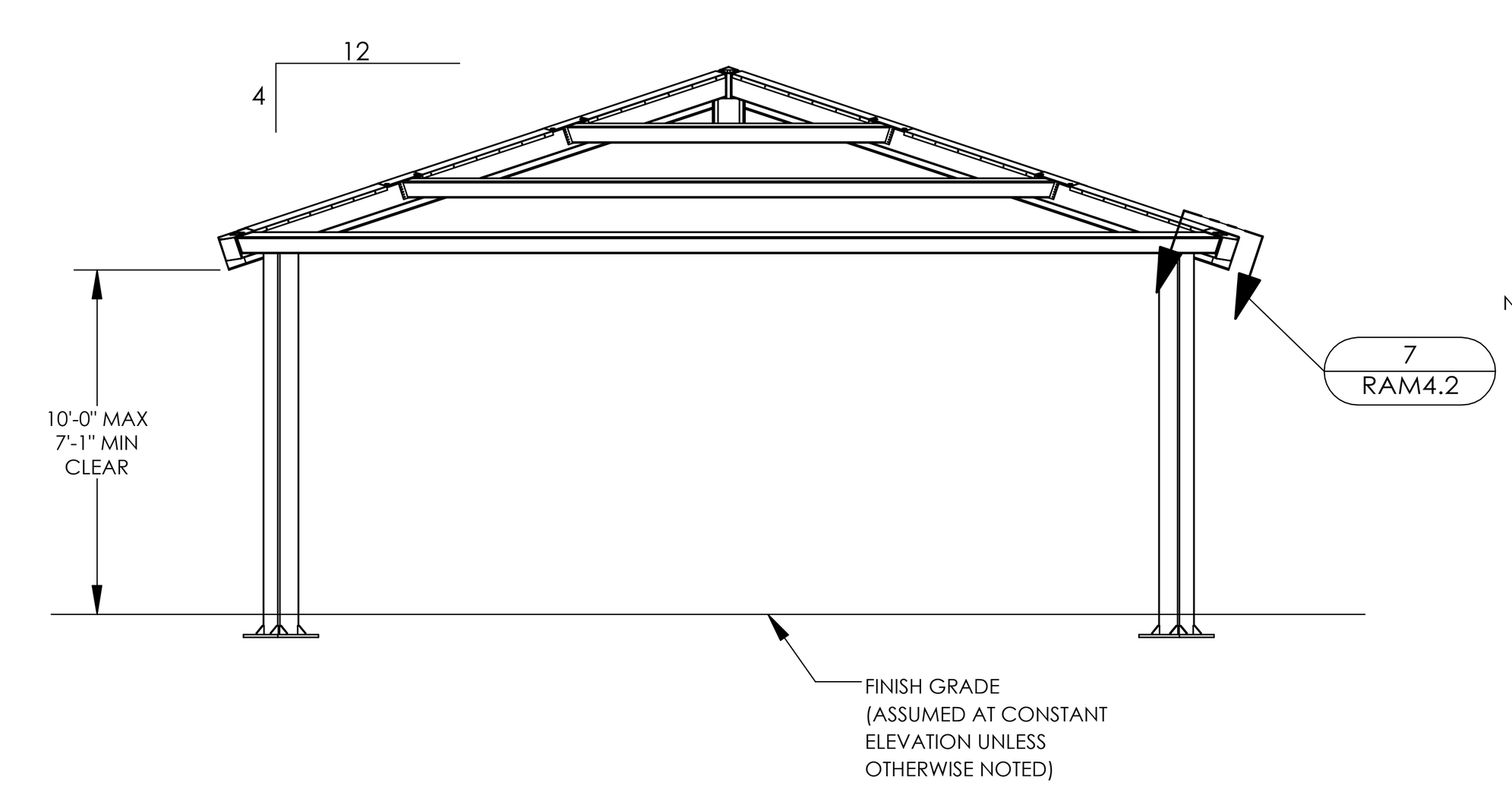
ISOMETRIC VIEW
SCALE: 3/16" = 1'-0"



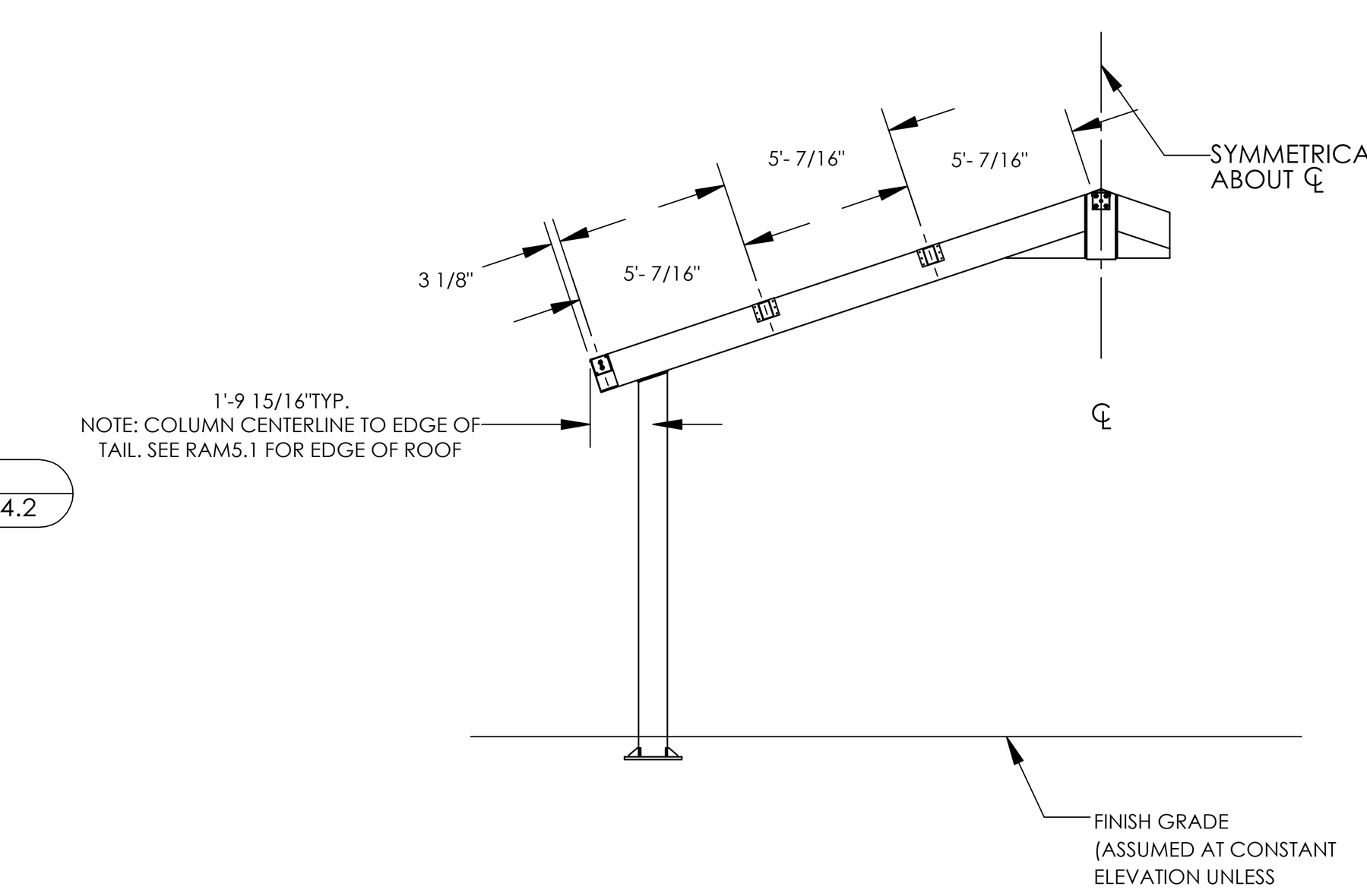
PLAN VIEW
SCALE: 3/16" = 1'-0"



FRONT ELEVATION
SCALE: 3/16" = 1'-0"



SIDE ELEVATION
SCALE: 3/16" = 1'-0"



SECTION A-A
SCALE: 3/16" = 1'-0"

ITEM	QTY.	PART NO.	DESCRIPTION	MATERIAL	WEIGHT
18	2	-	R-BEAM ASM	HSS6X6X3/16	287.26
17	2	-	END R-BEAM ASM	HSS6X6X3/16	154.14
16	6	-	C-TUBE ASM	HSS10X10X5/8	143.92
15	8	-	SIDE PURLIN ASM	HSS6X4x3/16	234.29
14	2	-	CORNER PURLIN ASM	HSS6X4x3/16	136.79
13	2	-	CORNER PURLIN ASM	HSS6X4x3/16	193.62
12	2	-	CORNER PURLIN ASM	HSS6X4x3/16	136.94
11	2	-	CORNER PURLIN ASM	HSS6X4x3/16	193.78
10	2	-	END PURLIN ASM	HSS6X4x3/16	110.56
9	2	-	END PURLIN ASM	HSS6X4x3/16	224.23
8	6	-	GABLE BEAM ASM	HSS12X8X1/4	559.76
7	4	-	HIP BEAM ASM	HSS8X8X3/16	431.12
6	4	-	SIDE EAVE BEAM ASM	HSS6X6X3/16	284.96
5	2	-	CORNER EAVE BEAM ASM	HSS6X6X3/16	306.07
4	2	-	CORNER EAVE BEAM ASM	HSS6X6X3/16	306.00
3	2	-	END EAVE BEAM ASM	HSS6X6X3/16	413.48
2	6	-	SIDE COLUMN ASM	HSS10X8X1/4	425.36
1	4	-	CORNER COLUMN ASM	HSS10X8X1/4	433.63

STATE APPROVALS-SITE

STATE APPROVALS-PC

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-121213 PC
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DATE: 7/18/2023

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

FRAMING PLAN

HIP ROOF - RAM 30

RAM3.1

AGENCY APPROVAL:

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-121825 INC:
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Sacramento City
UNIFIED SCHOOL DISTRICT

HMC Architects
3186069000
2101 CAPITOL AVENUE, SUITE 100
SACRAMENTO, CA 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT JEFFREY ALAN GRAY C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER JESSICA E. NAPIER No. S5495 STRUCTURAL STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

FACILITY:
4720 FOREST PKWY
SACRAMENTO, CA 95823

PROJECT:
PARKWAY ELEMENTARY - SHADE STRUCTURE

SHEET NAME:
FRAMING PLAN

CONSTRUCTION DOCUMENTS

DATE: 2/09/2024
CLIENT PROJ NO:

SHEET:
RAM3.1

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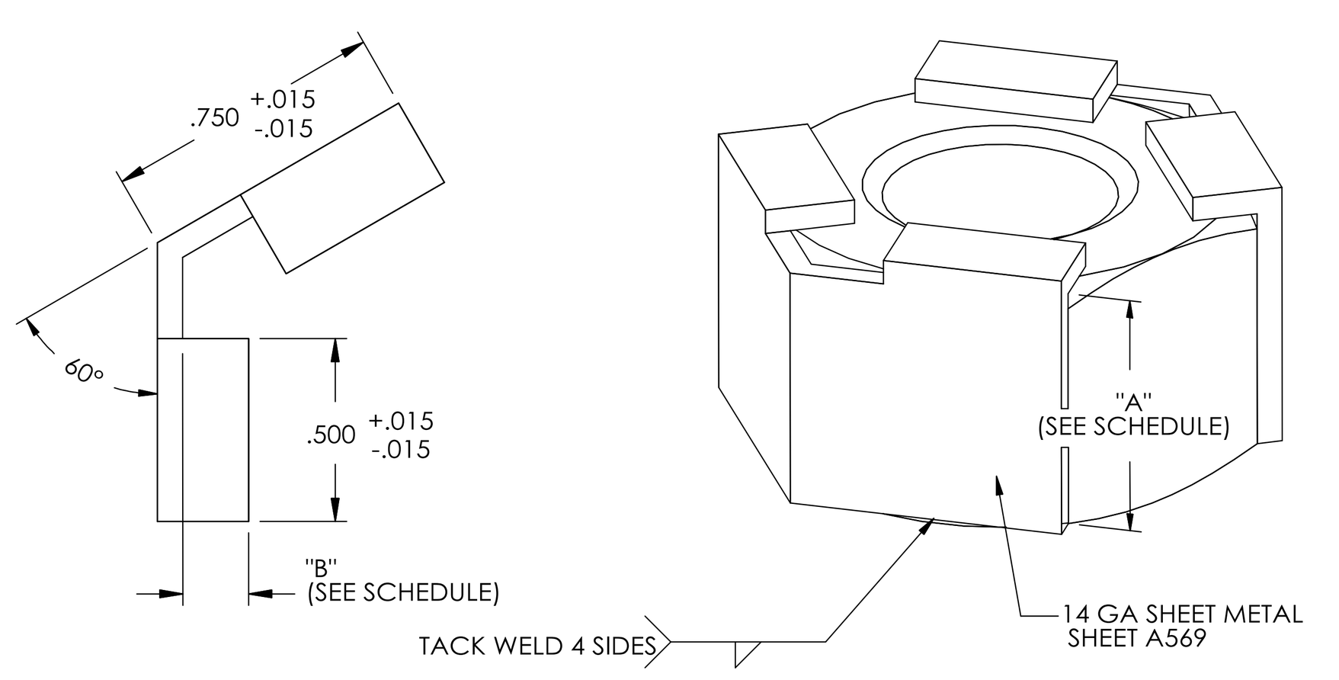
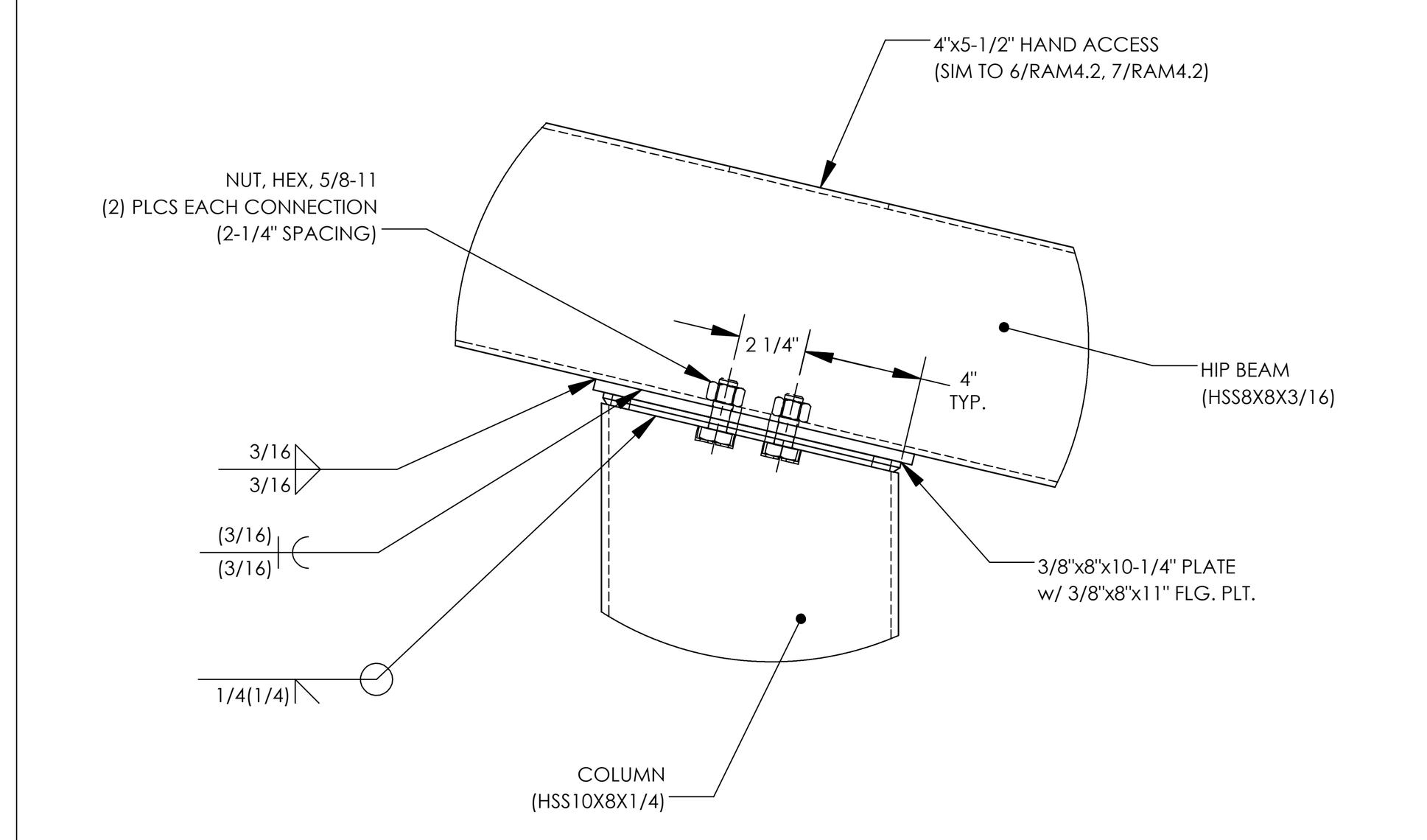
ALL HIDDEN NUTS AND BOLTS (INSTALLED IN SHOP DURING FABRICATION) ARE SECURED WITH THIS NUT AND BOLT RESTRAINING SYSTEM.



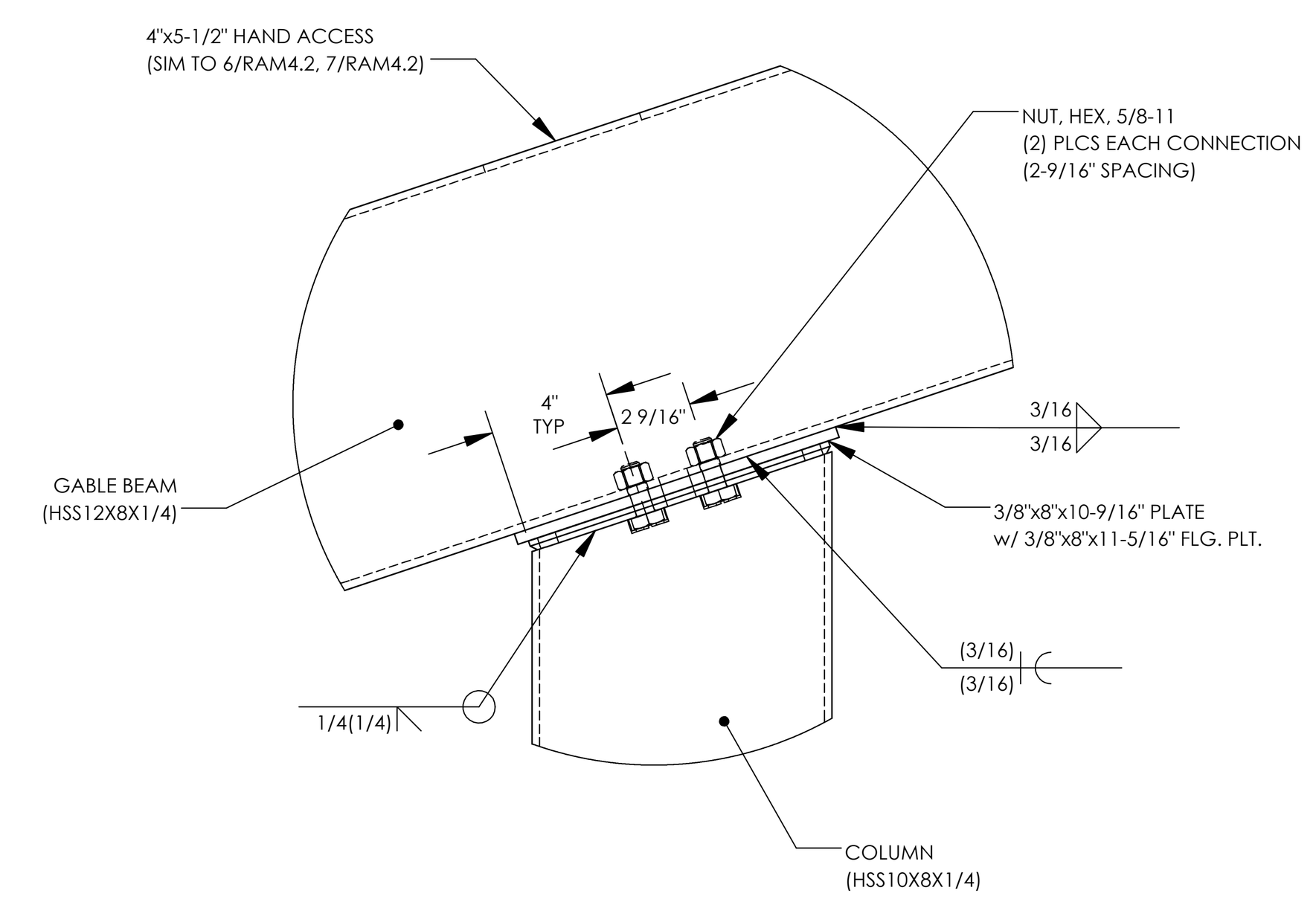
DIMENSION SCHEDULE

FASTENER	DIM A	DIM B
5/8" NUT	.631 +.000 -.015	.180 +.015 -.015
5/8" BOLT	.403 +.000 -.015	.250 +.015 -.015
3/4" NUT	.758 +.000 -.015	.180 +.015 -.015
3/4" BOLT	.483 +.000 -.015	.375 +.015 -.015
1" NUT	1.012 +.000 -.015	.180 +.015 -.015
1" BOLT	.643 +.000 -.015	.375 +.015 -.015

NUT & BOLT RESTRAINING SYSTEM 1

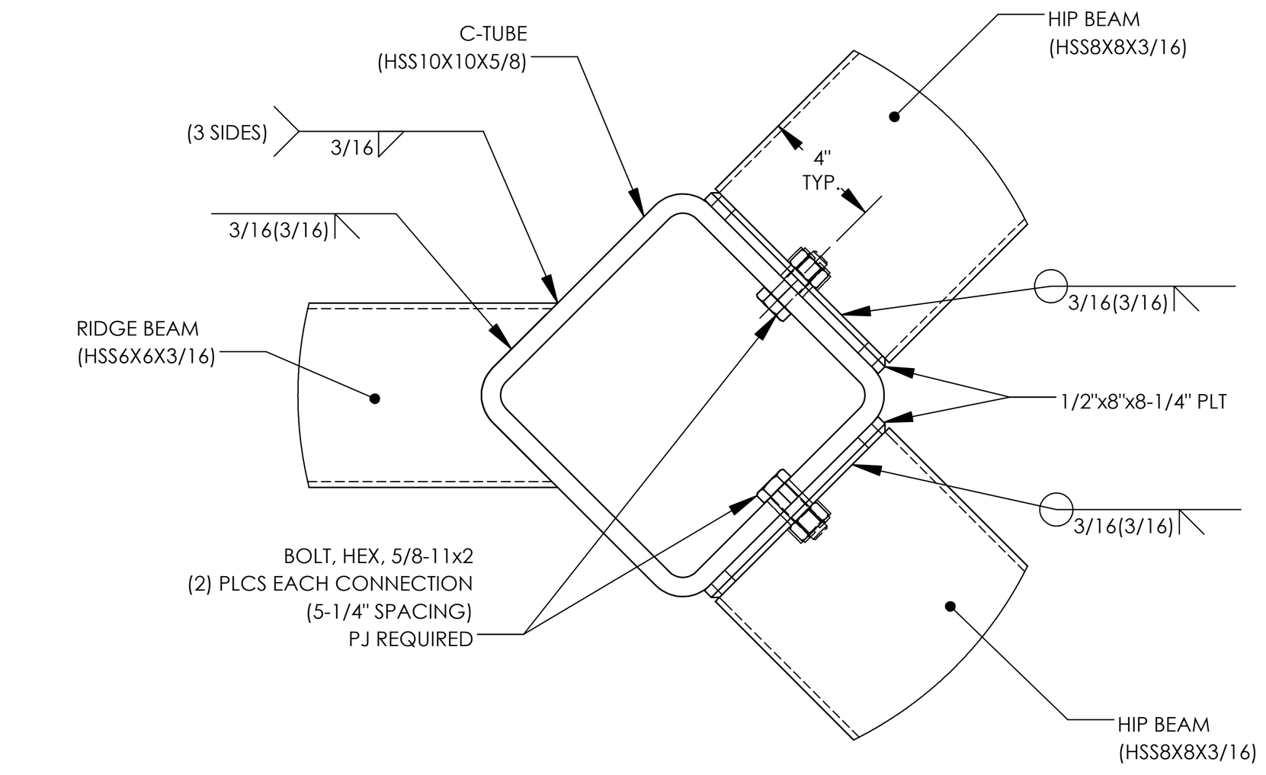


HIP BEAM CONNECTION @ COLUMN 2

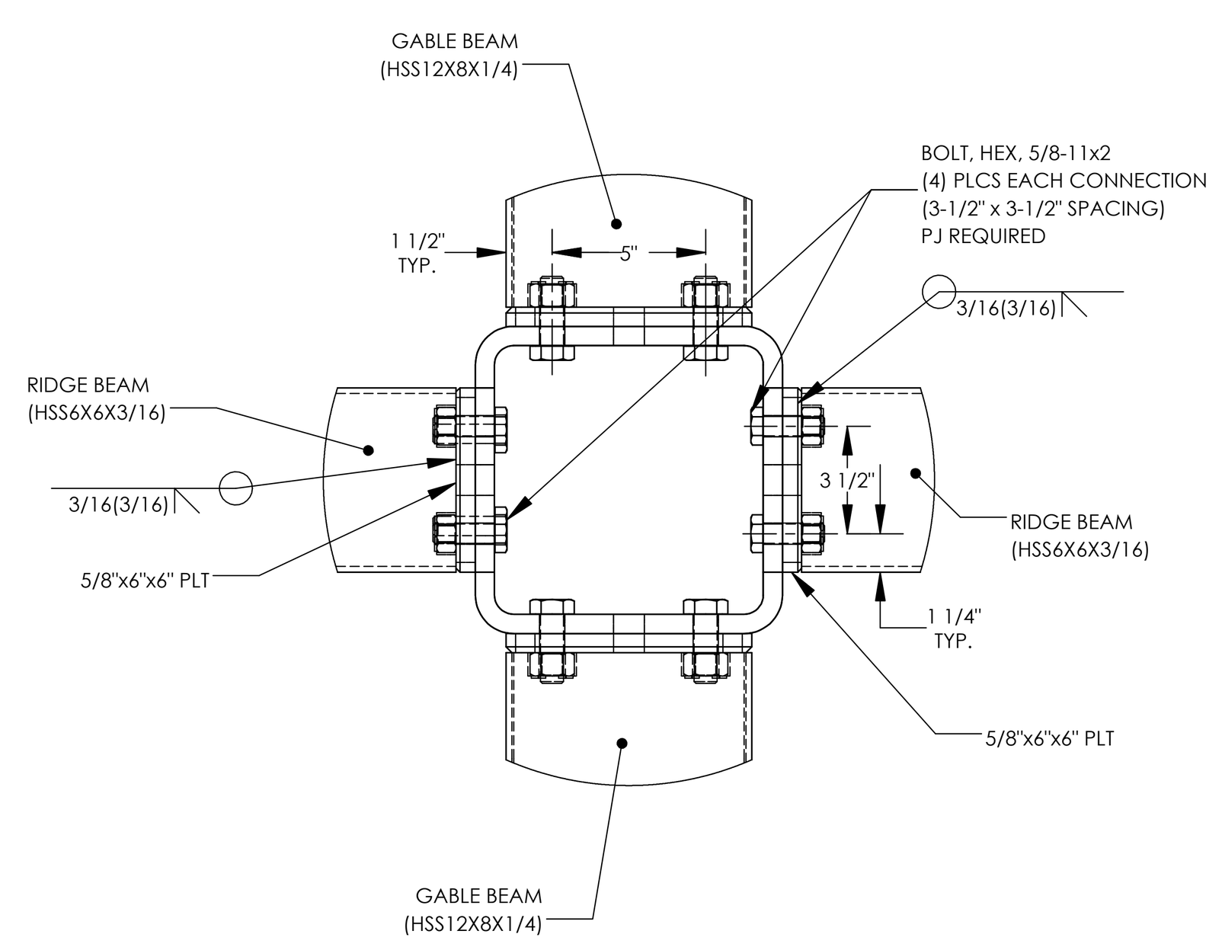


GABLE BEAM CONNECTION @ COLUMN 3

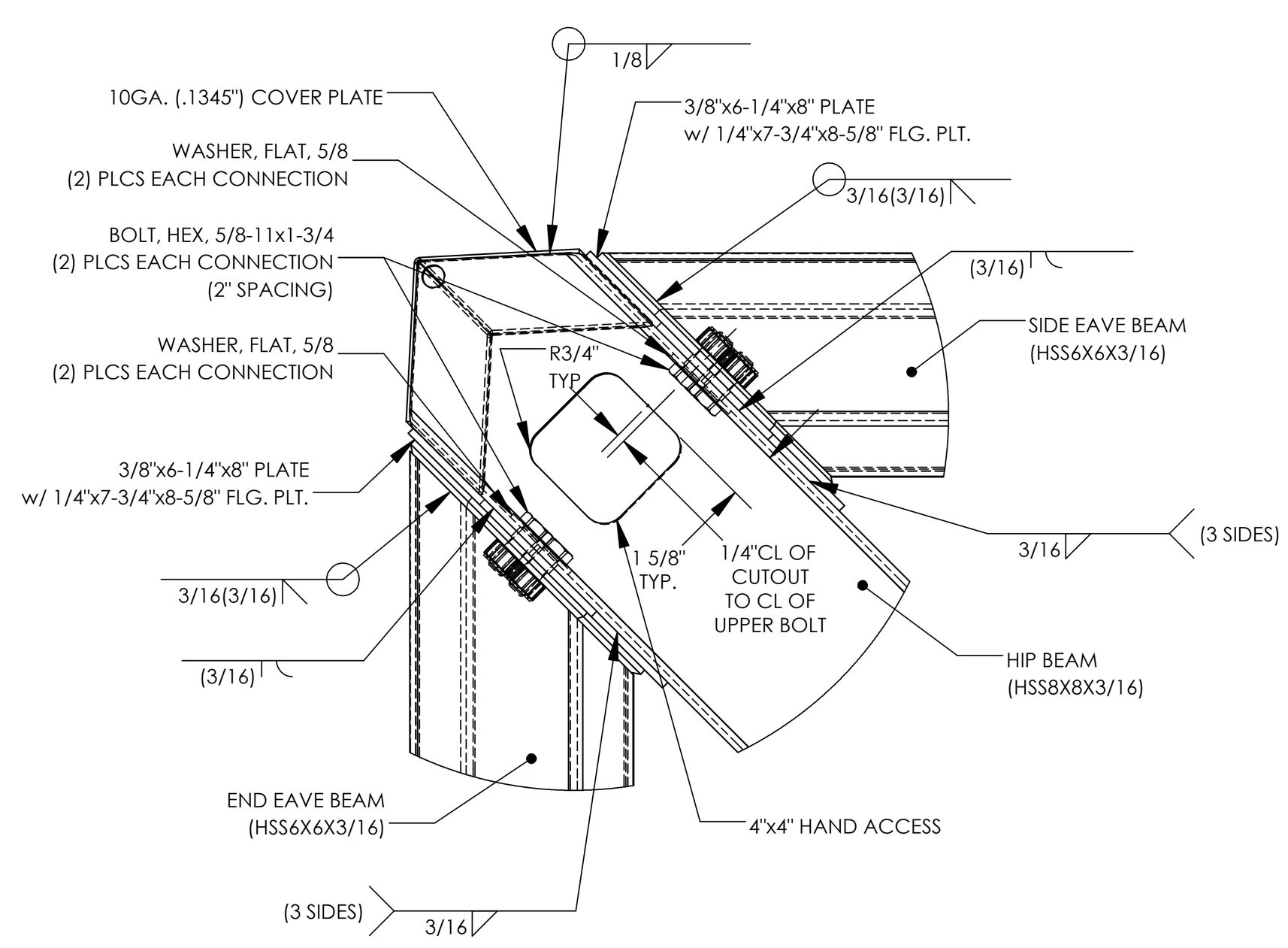
STATE APPROVALS-SITE



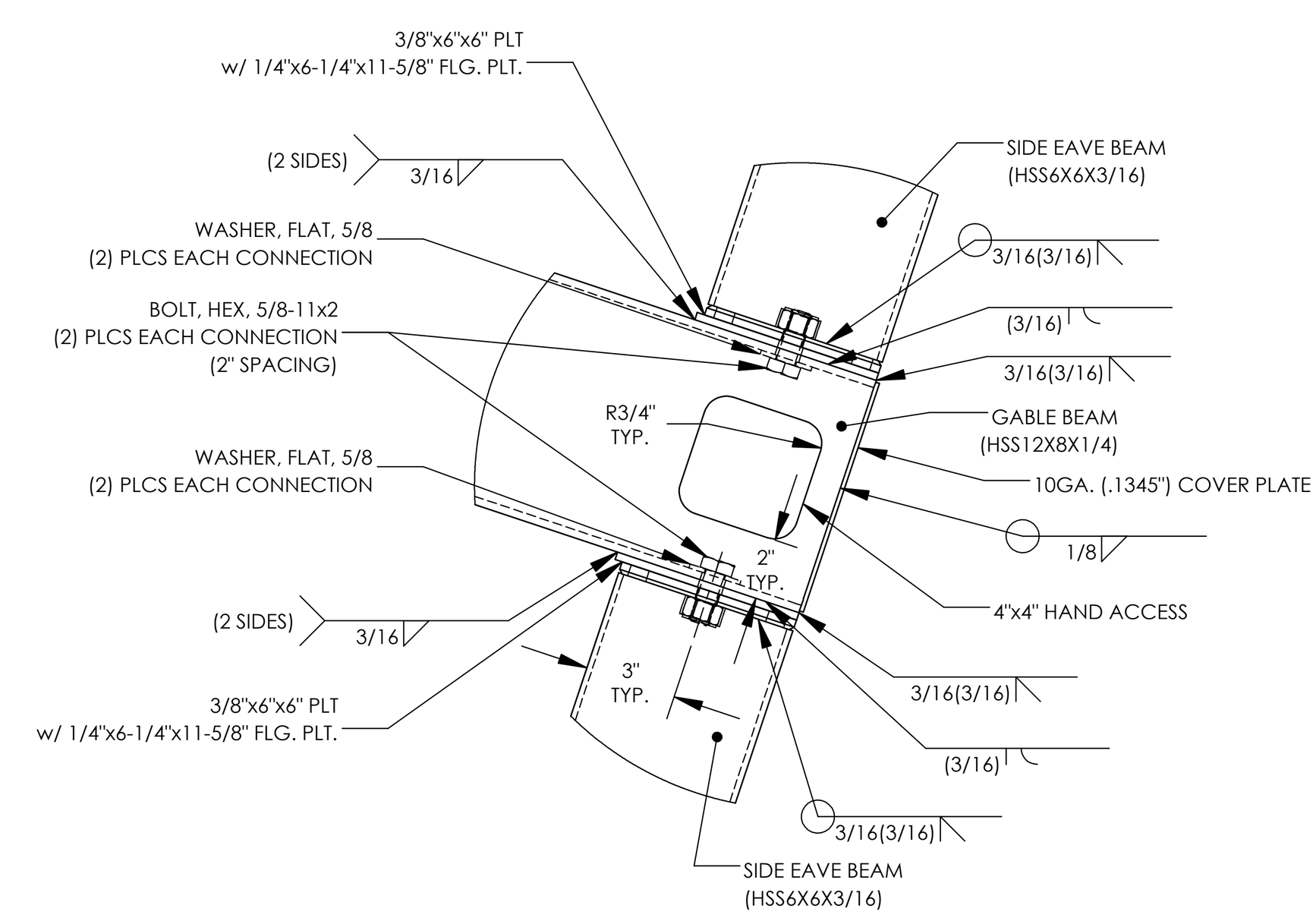
HIP BEAM CONNECTION @ COMPRESSION TUBE 4



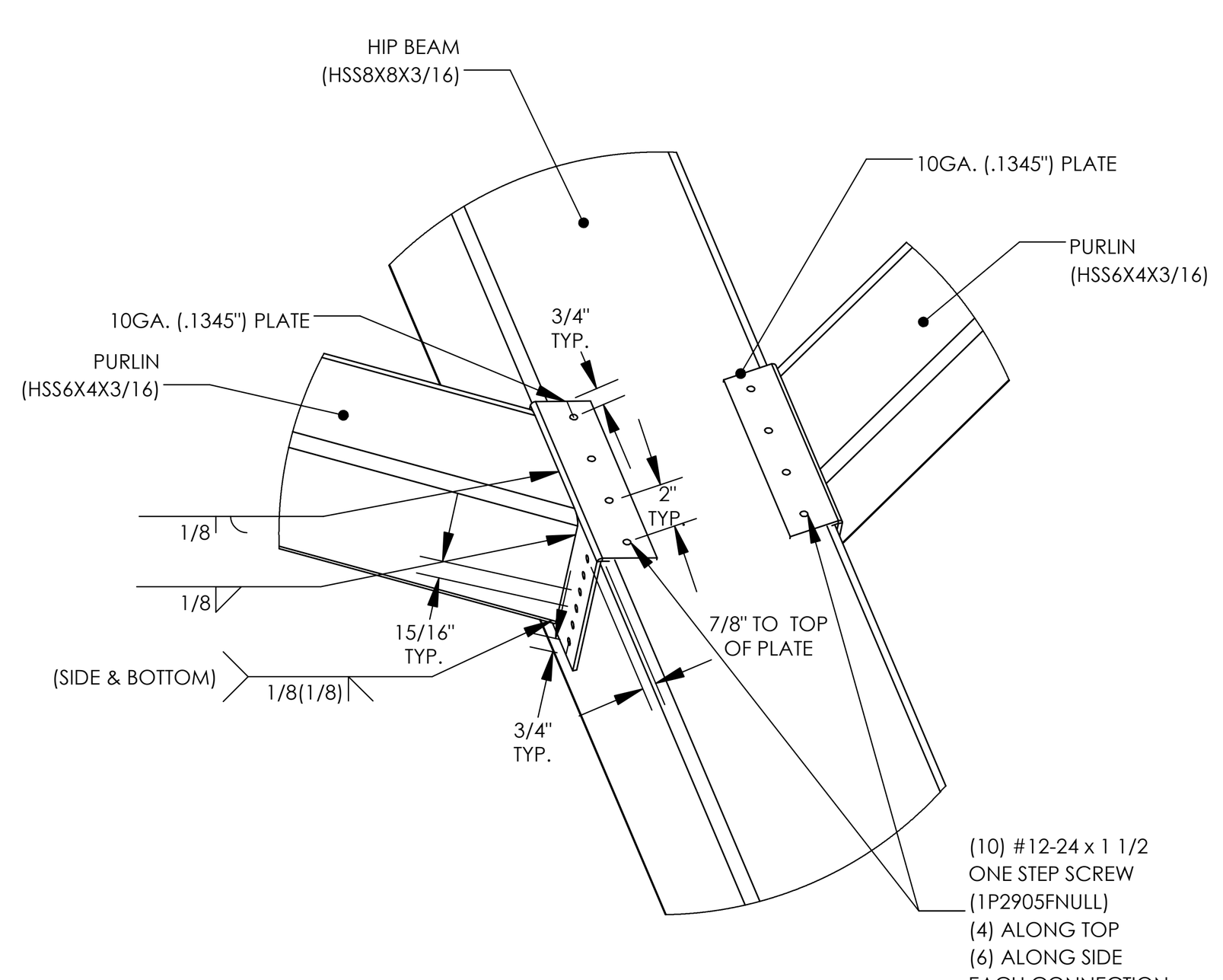
RIDGE BEAM CONNECTION @ COMPRESSION TUBE 5



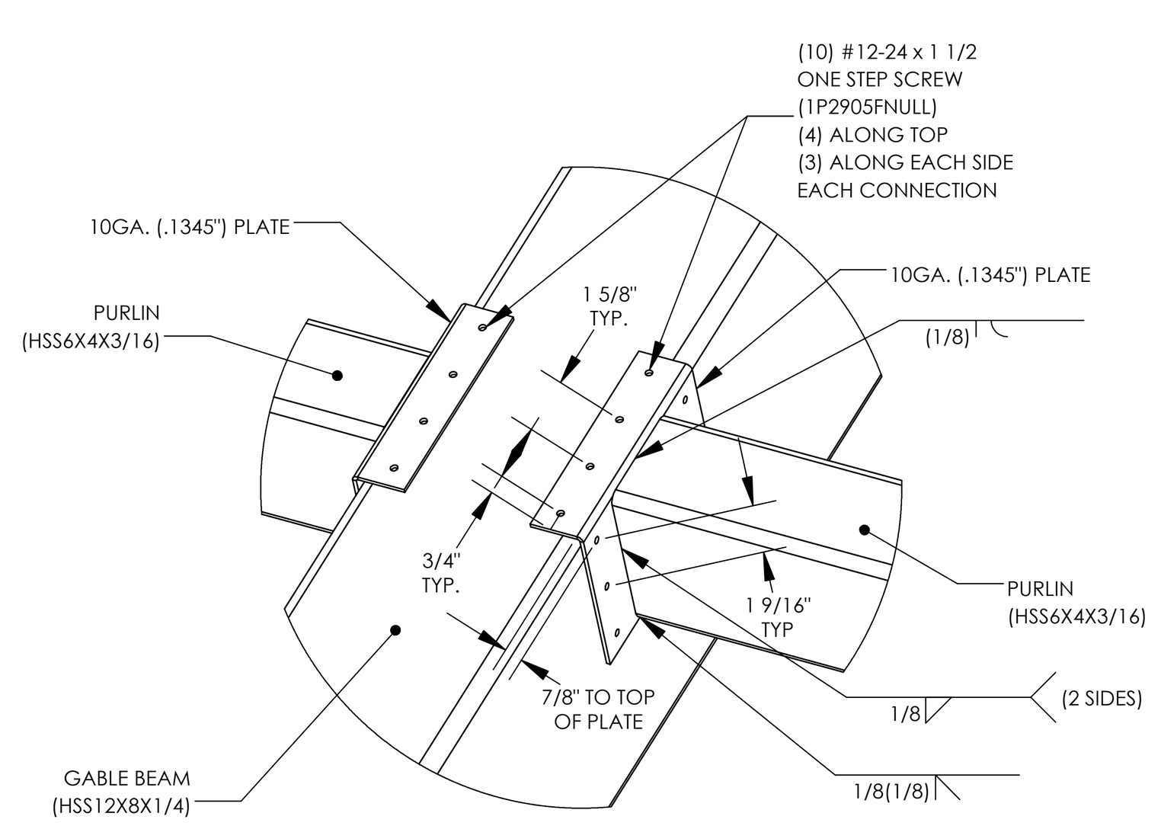
EAVE BEAM CONNECTION @ HIP BEAM 6



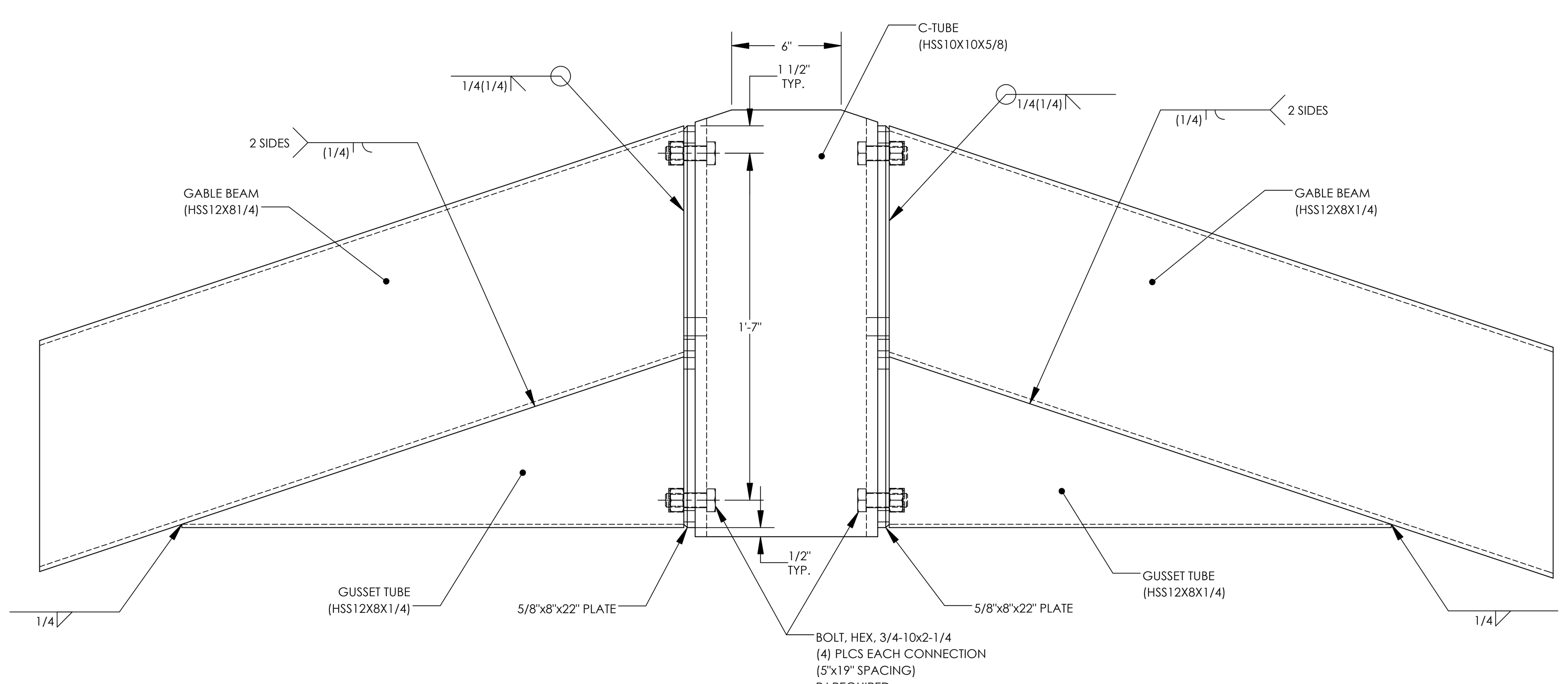
EAVE BEAM CONNECTION @ GABLE BEAM 7



PURLIN CONNECTION @ HIP BEAM 8



PURLIN CONNECTION @ GABLE BEAM 9



GABLE BEAM CONNECTION @ COMPRESSION TUBE 10

STATE APPROVALS-PC

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-121213 PC REVIEWED FOR SS ☑ FLS ☑ ACS ☑ CG ☐ DATE: 7/18/2023

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FRAME CONNECTION DETAILS
HIP ROOF - RAM 30

RAM4.2

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LICENSED ARCHITECT JEFFREY ALAN GRAY C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

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PORTER

REGISTERED PROFESSIONAL ENGINEER JESSICA E. NAPIER No. S5416 STRUCTURAL STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

FACILITY:
4720 FOREST PKWY
SACRAMENTO, CA 95823

PROJECT:
PARKWAY ELEMENTARY - SHADE STRUCTURE

SHEET NAME:
FRAME CONNECTION DETAILS

CONSTRUCTION DOCUMENTS

DATE: 2/09/2024
CLIENT PROJ NO:

SHEET:
RAM4.2

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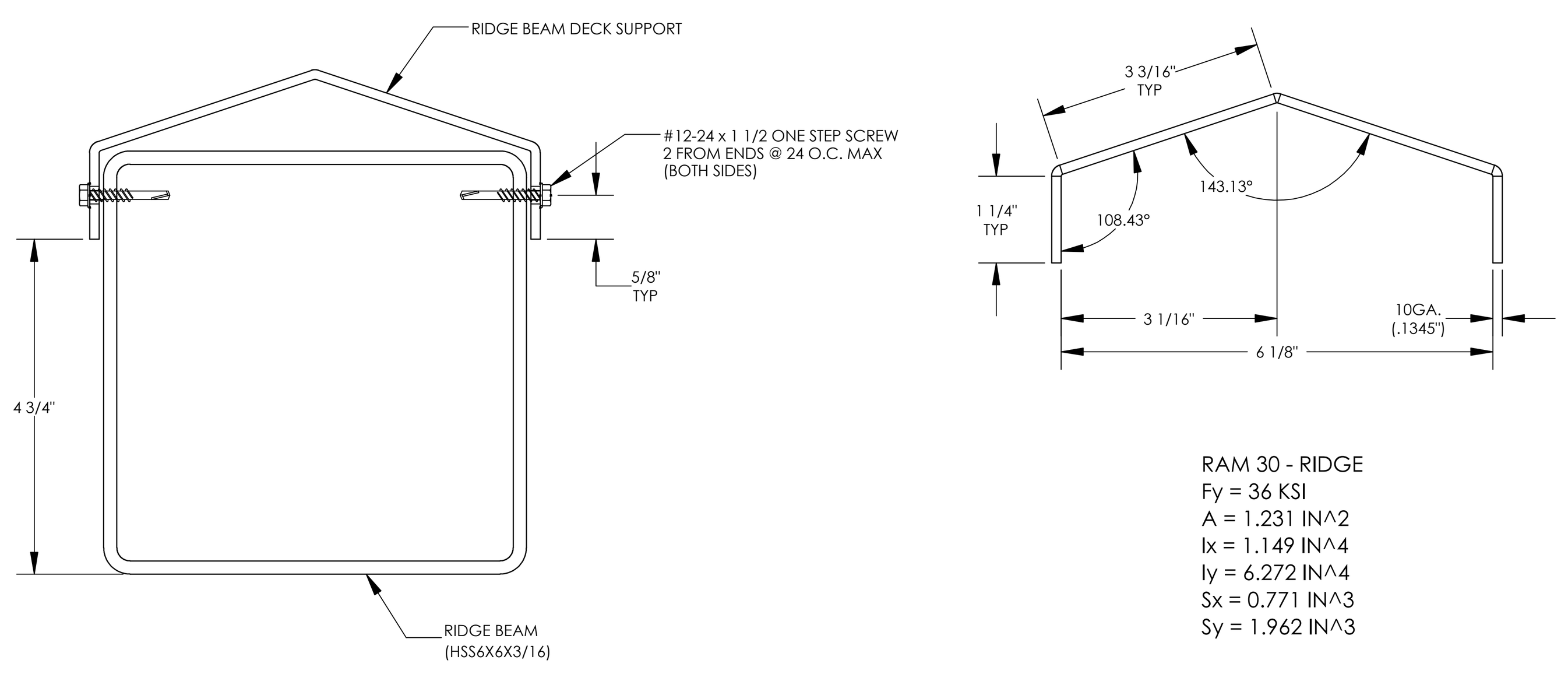
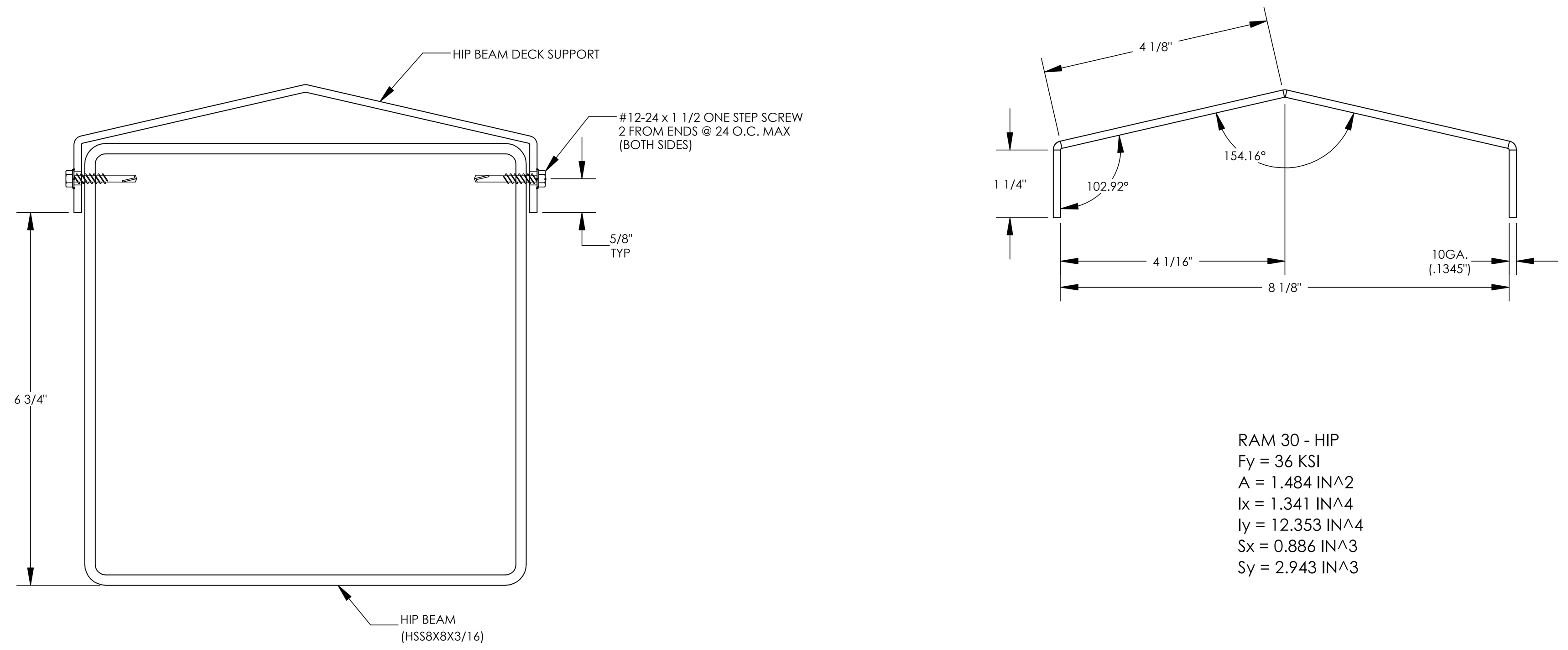


RIDGE BEAM DECK SUPPORT DETAIL — 11



HIP BEAM DECK SUPPORT DETAIL — 12

STATE APPROVALS-SITE

STATE APPROVALS-PC

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SECTION DETAILS

HIP ROOF - RAM 30

RAM4.3

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LICENSED ARCHITECT
JEFFREY ALAN GREY
C-14648
5/31/25
RENEWAL DATE
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

FACILITY:
4720 FOREST PKWY
SACRAMENTO, CA 95823

PROJECT:
PARKWAY ELEMENTARY - SHADE STRUCTURE

SHEET NAME:
SECTION DETAILS

CONSTRUCTION DOCUMENTS

DATE: 2/09/2024 | CLIENT PROJ NO:

SHEET:
RAM4.3

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LICENSED ARCHITECT JEFFREY ALAN GRAY C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

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Δ	DESCRIPTION	DATE

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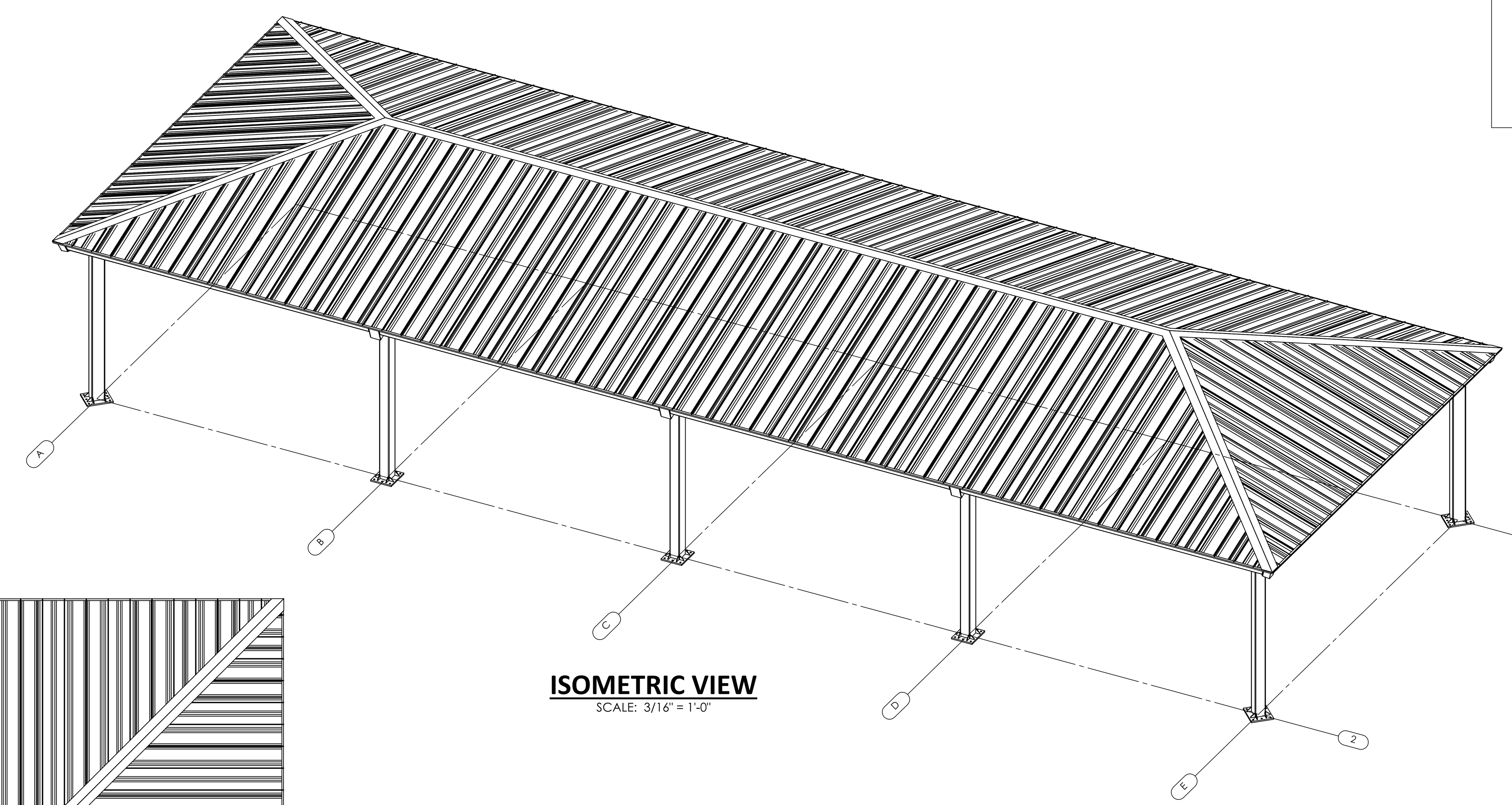
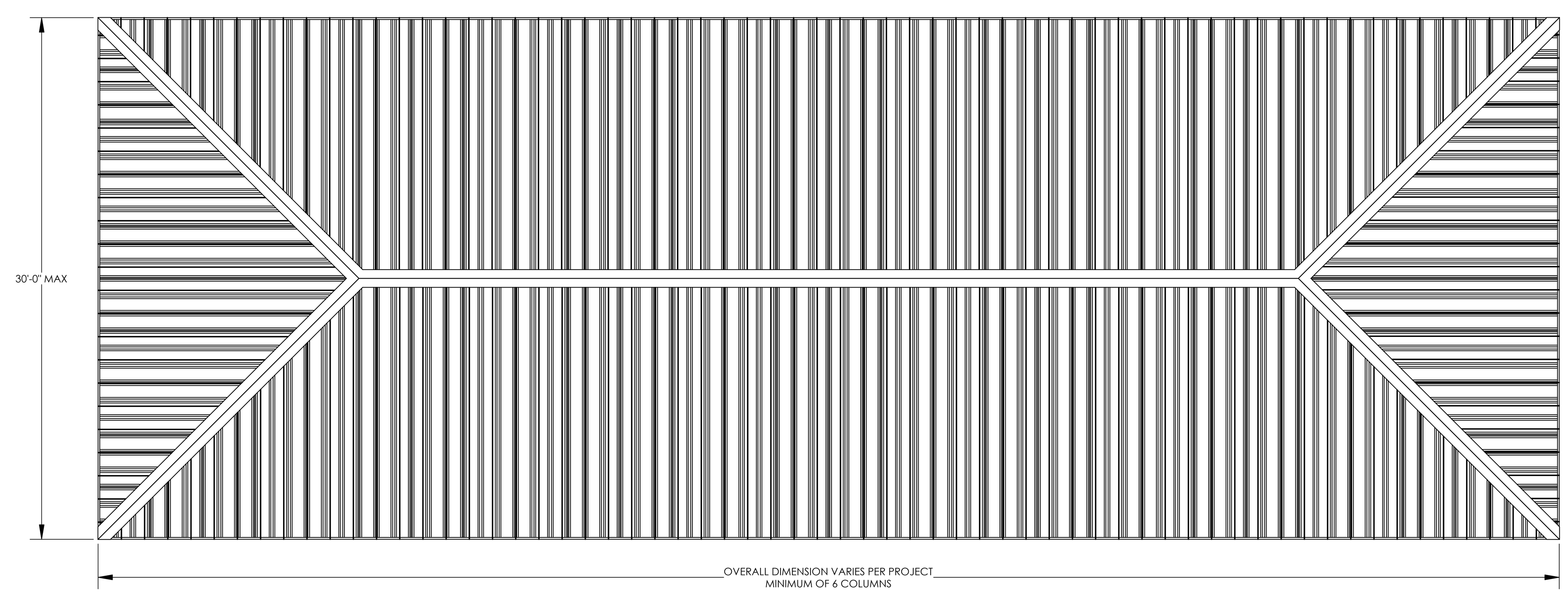


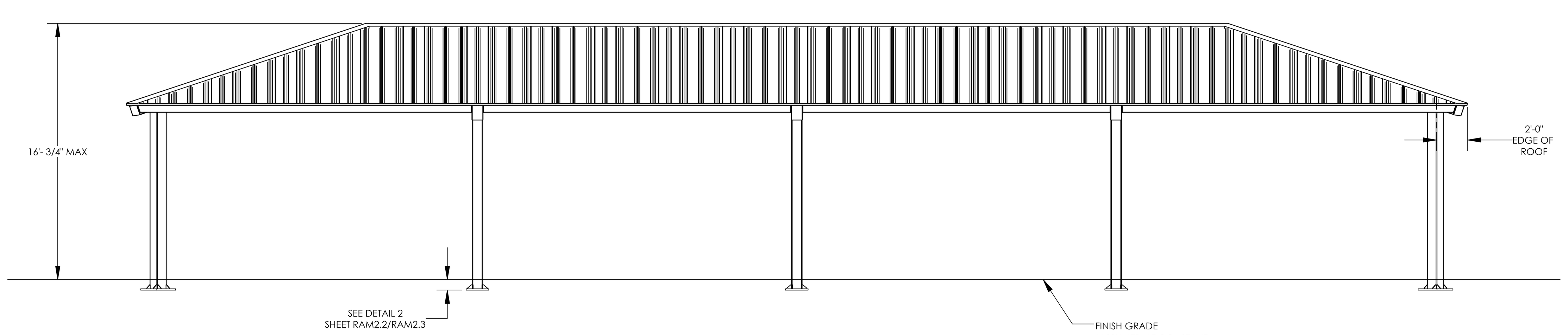
ISOMETRIC VIEW

SCALE: 3/16" = 1'-0"



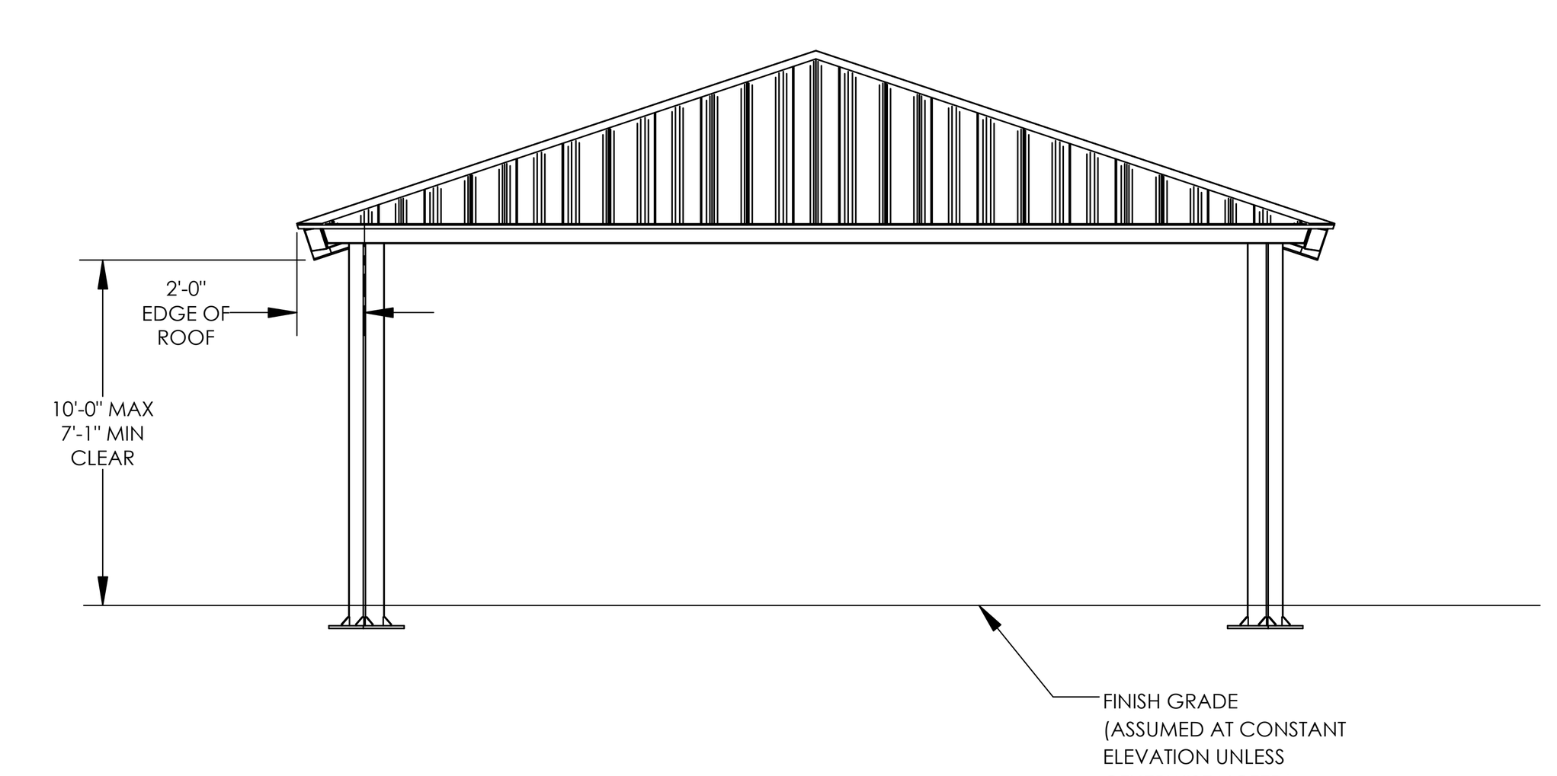
PLAN VIEW

SCALE: 3/16" = 1'-0"



FRONT ELEVATION

SCALE: 3/16" = 1'-0"



SIDE ELEVATION

SCALE: 3/16" = 1'-0"

GHD

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REGISTERED PROFESSIONAL ENGINEER JESSICA E. NAPIER No. S5476 STRUCTURAL STATE OF CALIFORNIA

STATE APPROVALS-PC

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ARCHITECTURAL VIEWS

HIP ROOF - RAM 30

RAM5.1

FACILITY:

4720 FOREST PKWY
SACRAMENTO, CA 95823

PROJECT:

PARKWAY ELEMENTARY - SHADE STRUCTURE

SHEET NAME:

ARCHITECTURAL VIEWS

CONSTRUCTION DOCUMENTS

DATE: 2/09/2024 | CLIENT PROJ NO:

SHEET:

RAM5.1

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LICENSED ARCHITECT JEFFREY ALAN GRAY C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

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Δ	DESCRIPTION	DATE

STANDING SEAM INSTALLATION NOTES:

THE DETAILS SHOWN ARE SUGGESTIONS OR GUIDELINES ON HOW TO ERECT THE SYSTEMS. THE INFORMATION SHOWN IS ACCURATE, BUT IT IS NOT INTENDED TO COVER ALL INSTANCES, BUILDING REQUIREMENTS, DESIGNS OR CODES. THE DETAILS MAY REQUIRE CHANGES OR REVISIONS DUE TO FIELD CONDITIONS.

IT SHALL BE THE RESPONSIBILITY OF THE ERECTOR TO ENSURE THAT THE DETAILS MEET PARTICULAR BUILDING REQUIREMENTS AND TO ASSURE ADEQUATE WATER TIGHTNESS.

THE ERECTOR SHOULD THOROUGHLY FAMILIARIZE HIMSELF/HERSELF WITH ALL ERECTION INSTRUCTIONS BEFORE STARTING WORK.

THE PANELS SHOULD BE INSTALLED PLUMB, STRAIGHT, AND ACCURATELY TO THE ADJACENT WORK.

FLASHING AND TRIM SHALL BE INSTALLED TRUE, AND IN PROPER ALIGNMENT, WITH ANY EXPOSED FASTENERS EQUALLY SPACED FOR THE BEST APPEARANCE.

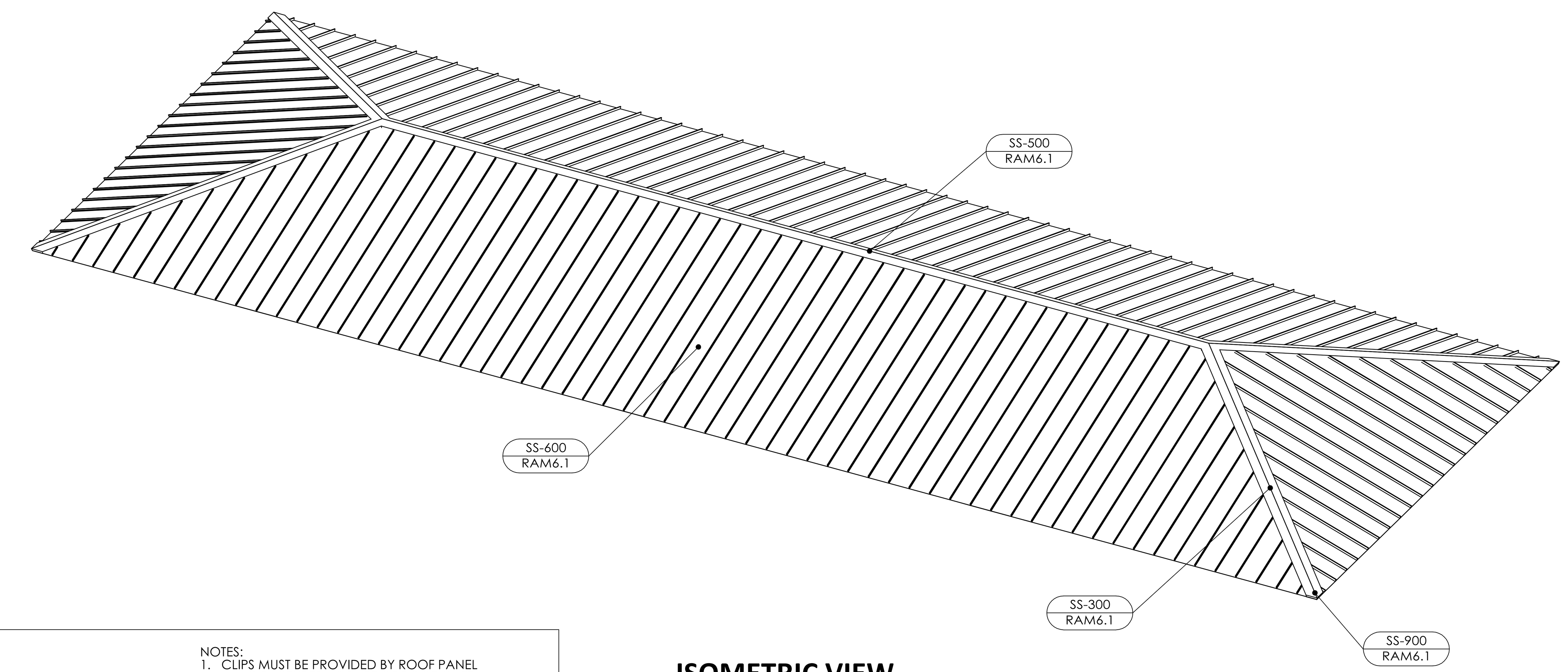
SEALANT SHALL BE FIELD APPLIED ON DRY, CLEAN SURFACES. SOME FIELD CUTTING AND FITTING OF PANELS AND FLASHING IS TO BE EXPECTED BY THE ERECTOR AND MINOR FIELD CORRECTIONS ARE A PART OF NORMAL ERECTION WORK.

WORKMANSHIP SHALL BE OF THE BEST INDUSTRY STANDARDS AND INSTALLATION SHALL BE PERFORMED BY EXPERIENCED METAL CRAFTSMEN.

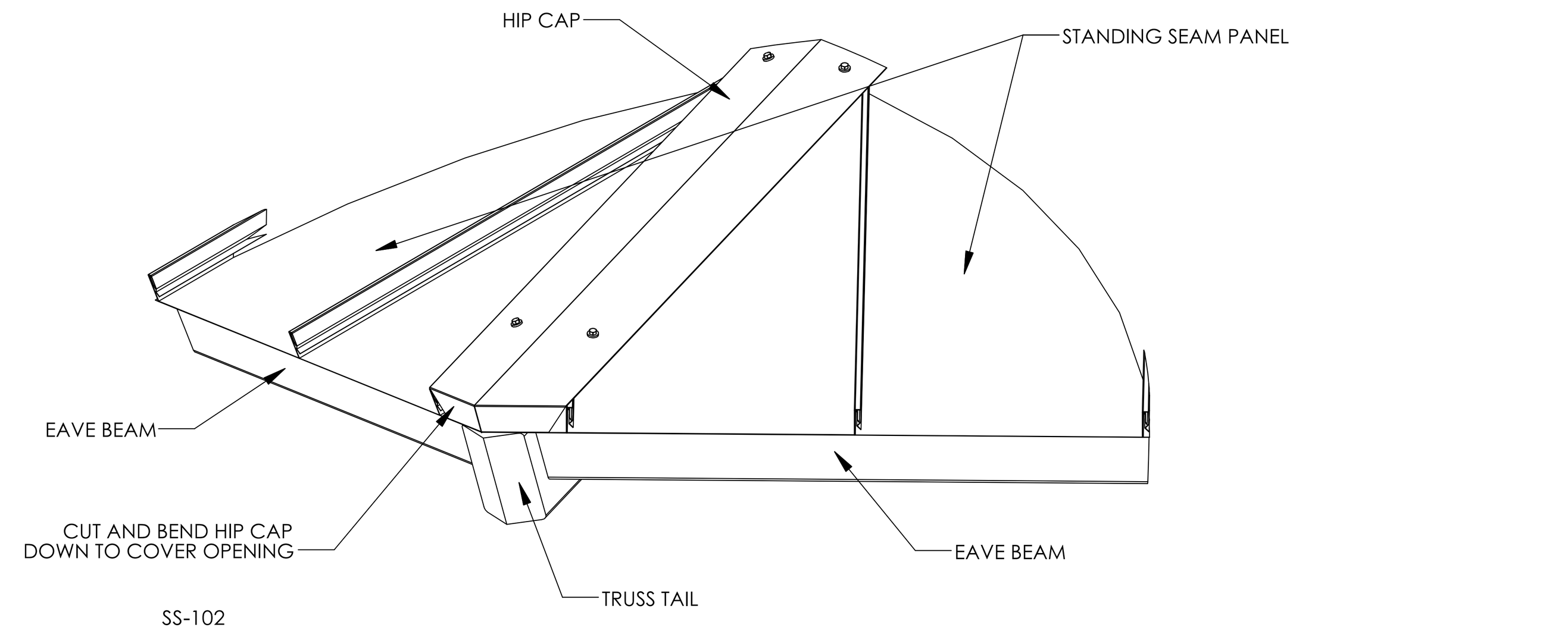
METAL SHAVINGS FROM DRILLING OR INSTALLATION OF ROOF FASTENERS MUST BE CAREFULLY REMOVED FROM THE ROOF BY BRUSHING OR SWEEPING AT THE END OF EACH DAY DURING INSTALLATION. SHAVINGS LEFT ON THE ROOF WILL QUICKLY RUST AND STAIN THE ROOF FINISH.

COVER ACCESS HOLES WITH GRACE ICE AND WATER SHIELD BEFORE ATTACHING ROOF DECKING

METAL ROOFING PRODUCT AND INSTALLATION SHALL MEET ALL REQUIREMENTS OF ICC-ES REPORT ESL-1082.

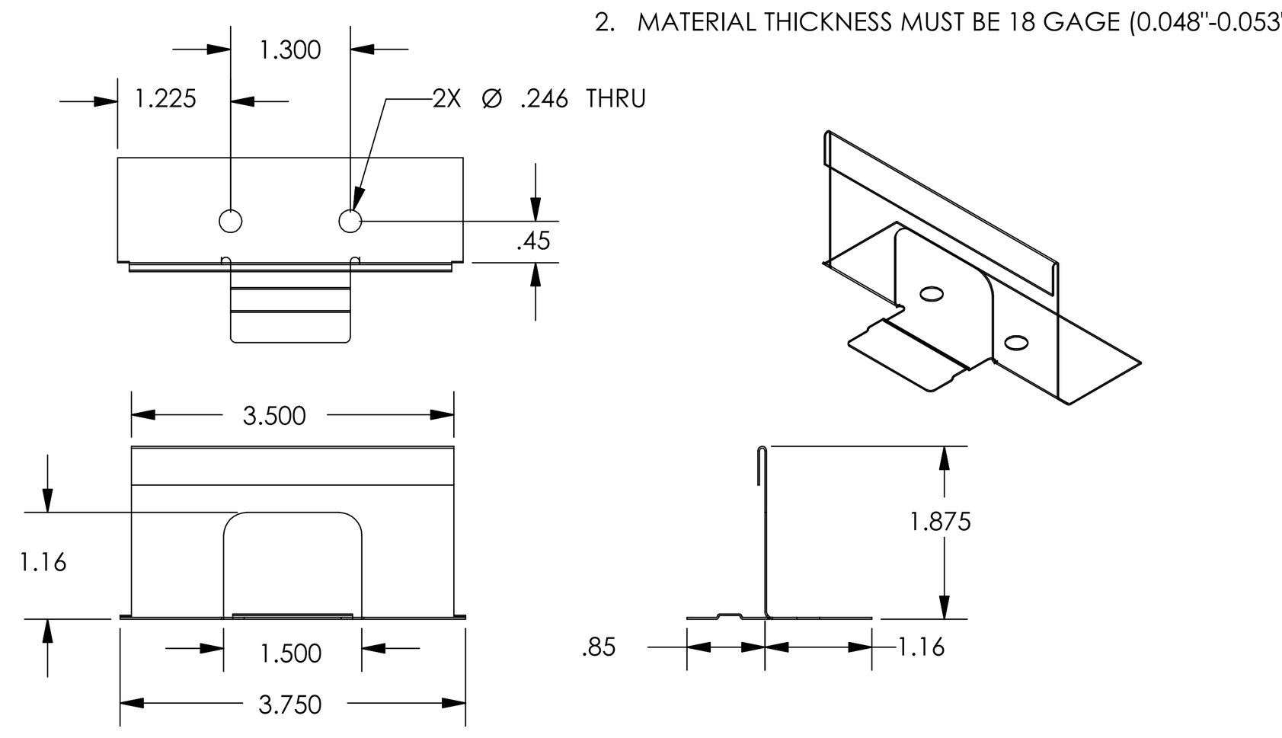


ISOMETRIC VIEW
SCALE: 3/16" = 1'-0"

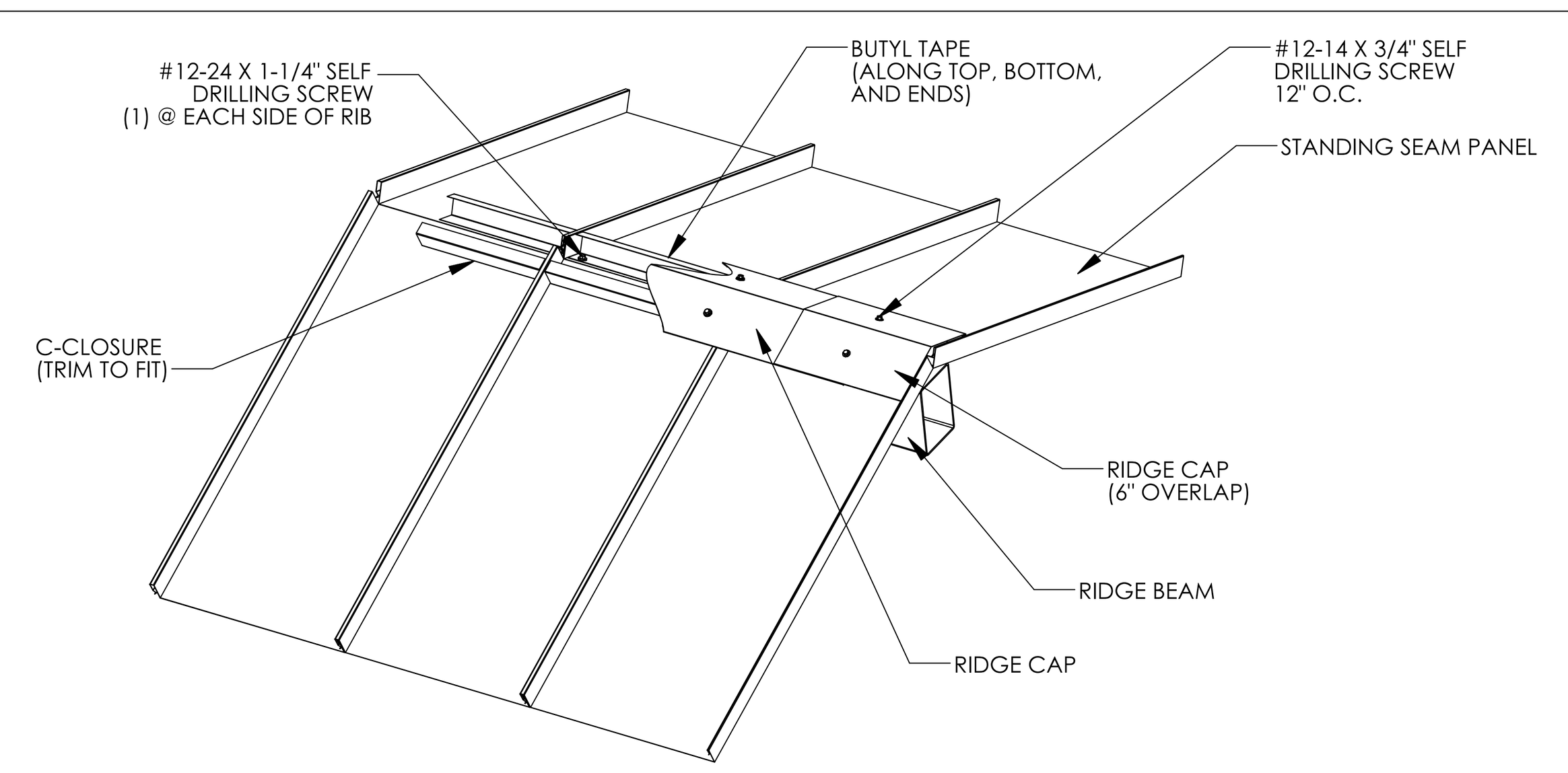


CORNER DETAIL — SS-900

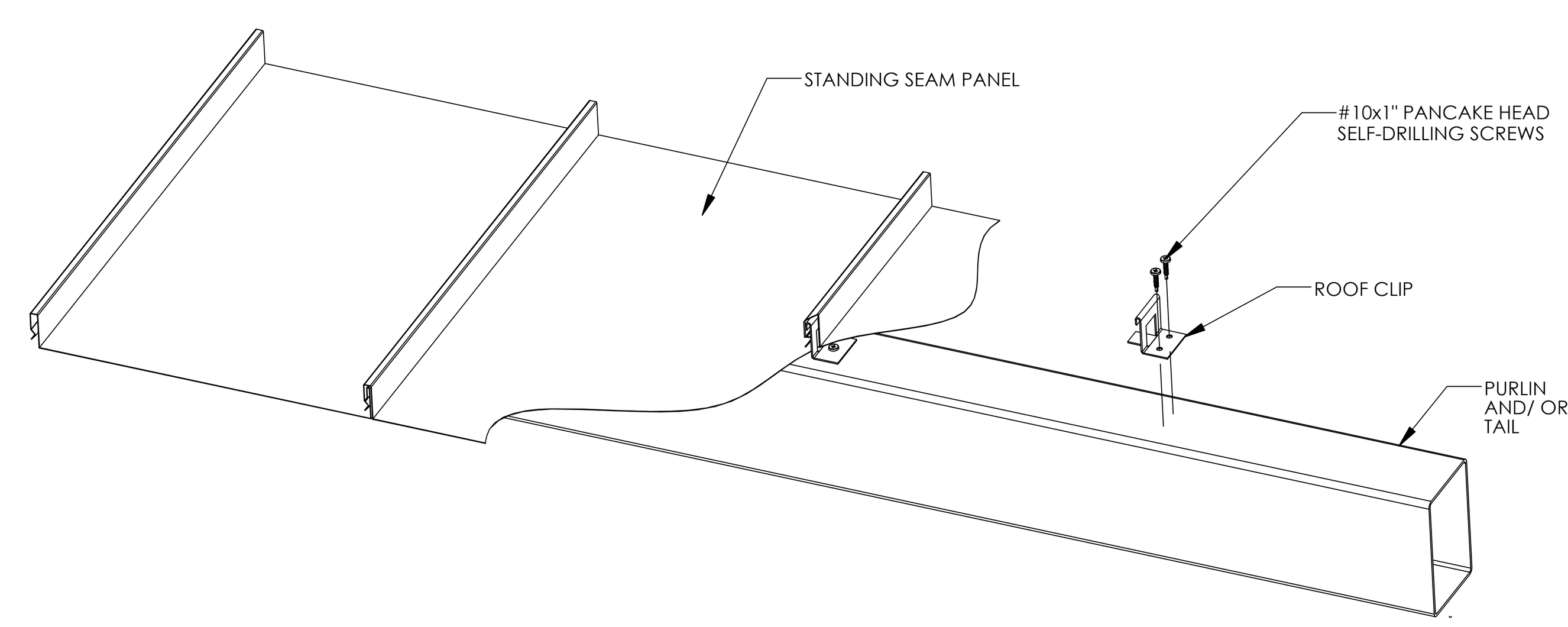
NOTES:
1. CLIPS MUST BE PROVIDED BY ROOF PANEL MANUFACTURER AS PART OF ROOF SYSTEM.
2. MATERIAL THICKNESS MUST BE 18 GAGE (0.048"-0.053")



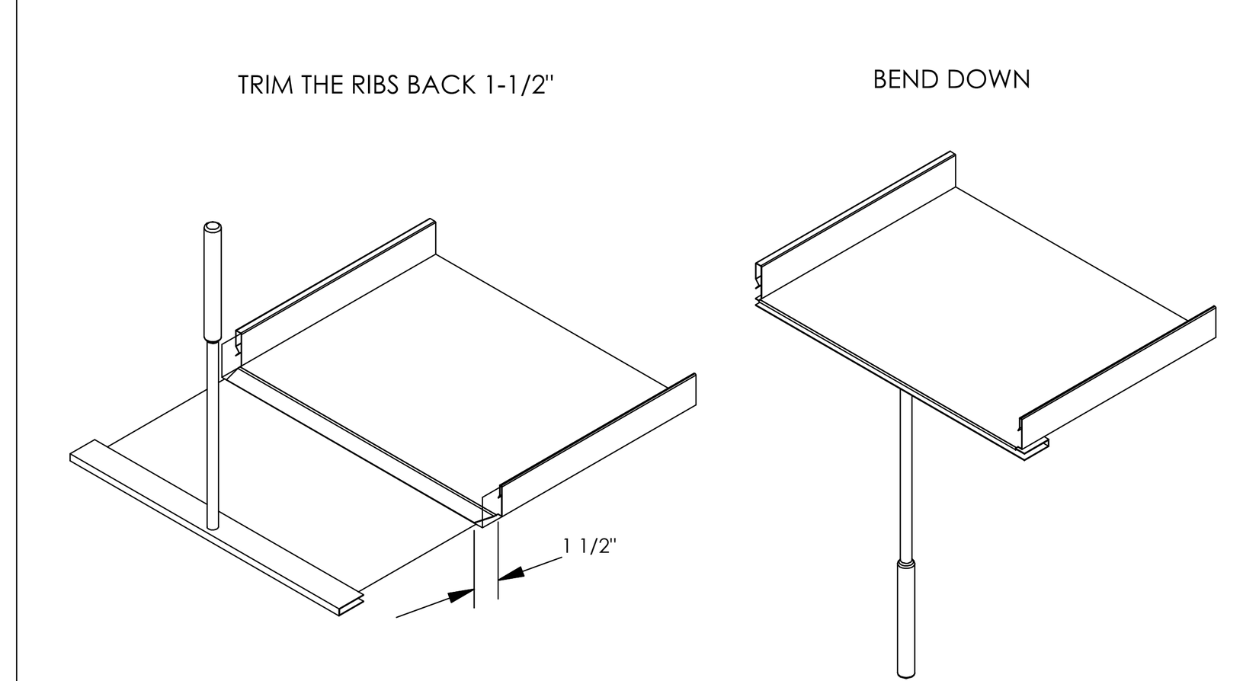
CLIP DETAIL — SS-CLP



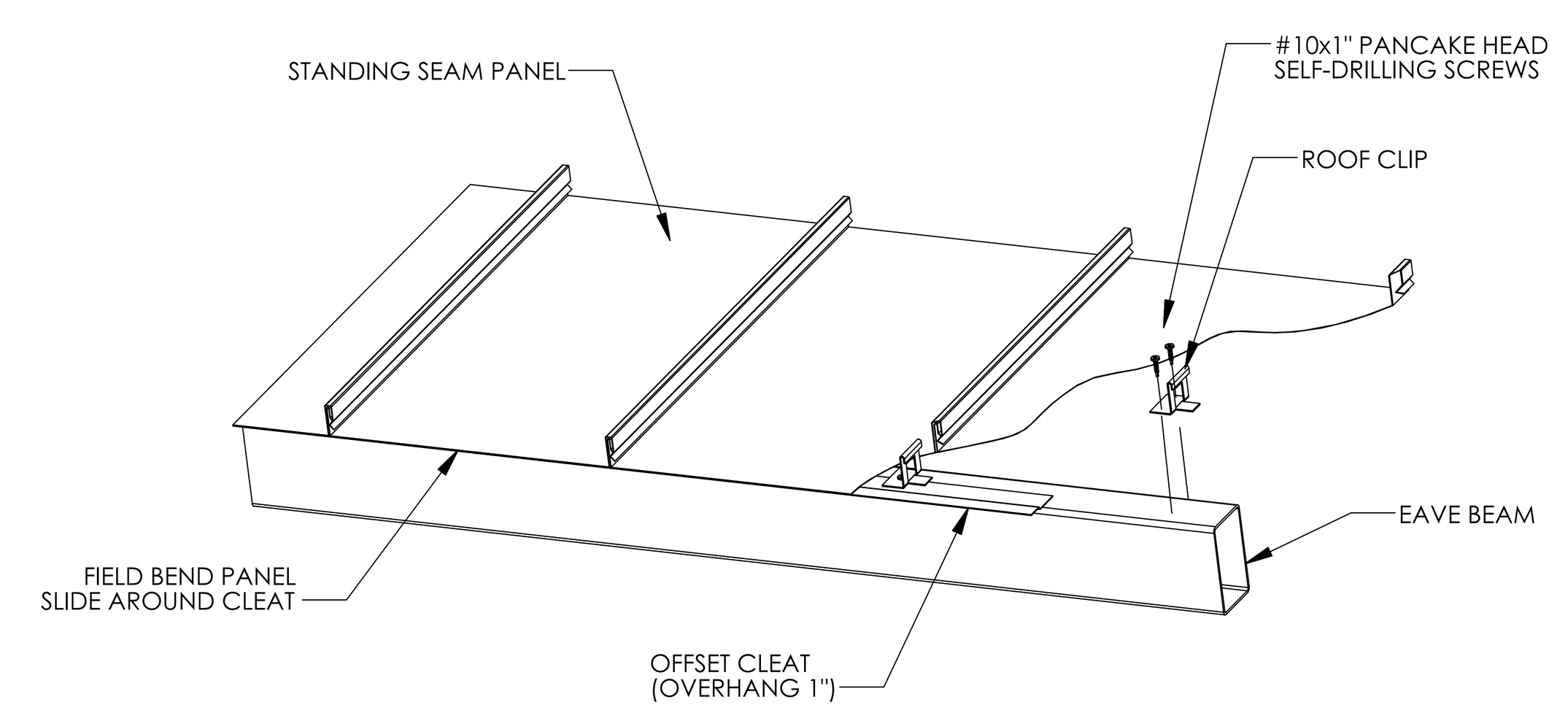
RIDGE DETAIL — SS-500



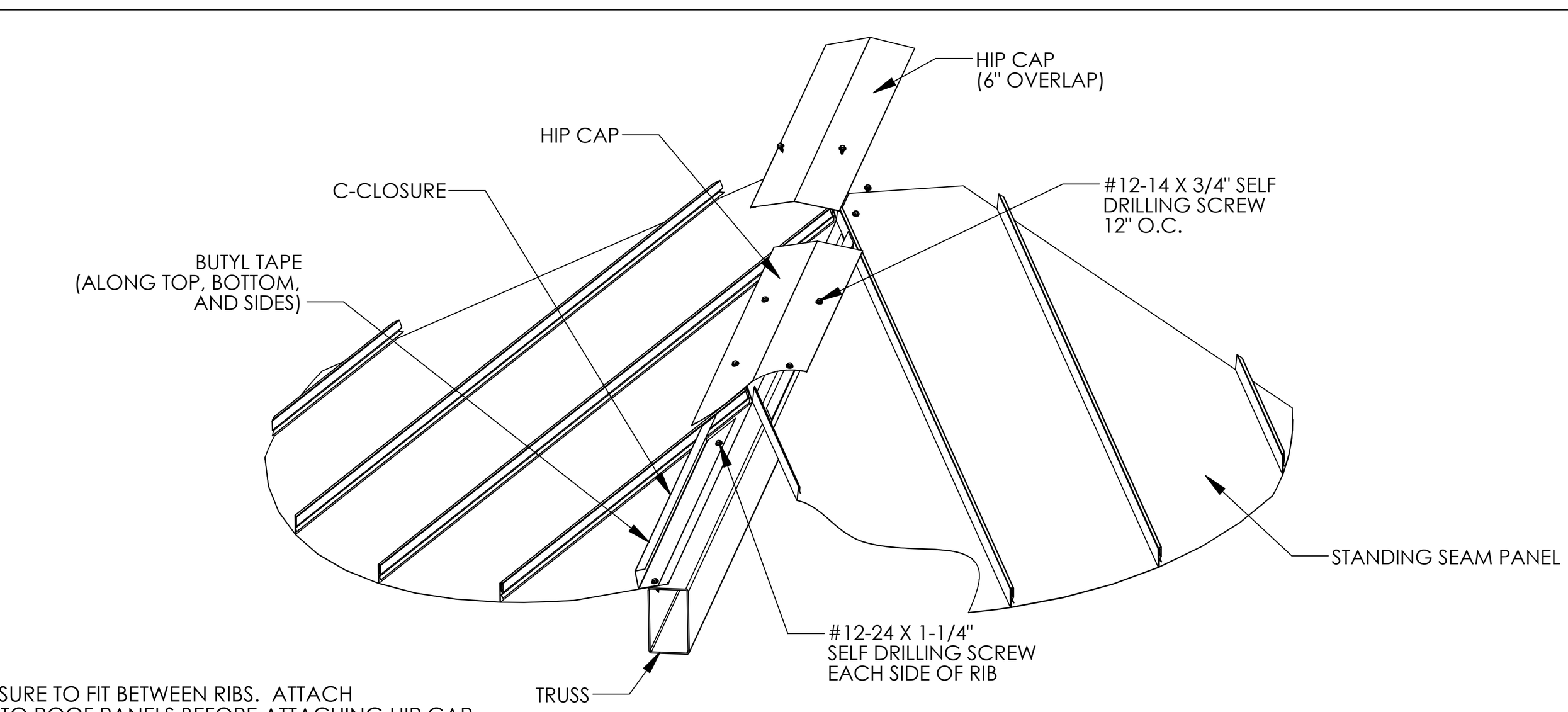
PURLIN DETAIL — SS-600



HEMMING DETAIL — SS-HEM

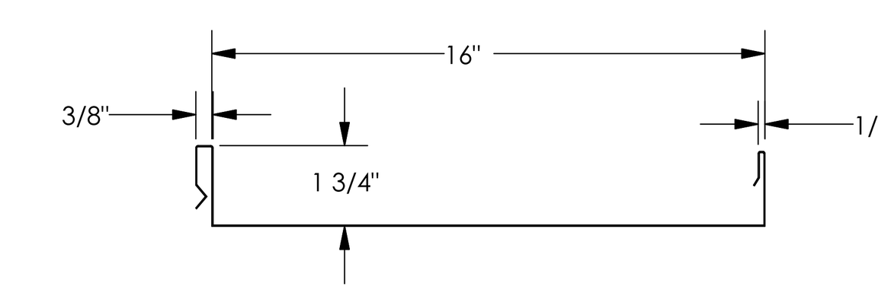


EAVE DETAIL — SS-200



NOTE:
TRIM C-CLOSURE TO FIT BETWEEN RIBS. ATTACH C-CLOSURE TO ROOF PANELS BEFORE ATTACHING HIP CAP.

TRUSS DETAIL — SS-300



GENERAL
GAGE = 22
FY = 50 KSI

TOP IN COMPRESSION
Ix = 0.1200 IN^4
Se = 0.0803 IN^3
Ma = 2.4056 IN-KIPS

BOTTOM IN COMPRESSION
Ix = 0.0570 IN^4
Se = 0.0729 IN^3
Ma = 1.7220 IN-KIPS

ROOF DECK SECTION PROPERTIES — SS-950

STATE APPROVALS-SITE

4030 PLAZA GOLDORADO CIRCLE
SUITE B,
CAMERON PARK, CA 95682
530.677.5515
GHD

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REGISTERED PROFESSIONAL ENGINEER JESSICA E. NAPIER No. S5476 STRUCTURAL STATE OF CALIFORNIA

STATE APPROVALS-PC

IDENTIFICATION STAMP
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CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

ROOF CONNECTION DETAILS
HIP ROOF - RAM

RAM6.1

FACILITY:
4720 FOREST PKWY
SACRAMENTO, CA 95823

PROJECT:
PARKWAY ELEMENTARY - SHADE STRUCTURE

SHEET NAME:
ROOF CONNECTION DETAILS

CONSTRUCTION DOCUMENTS

DATE: 2/09/2024
CLIENT PROJ NO:

SHEET:
RAM6.1

AGENCY APPROVAL:

IDENTIFICATION STAMP
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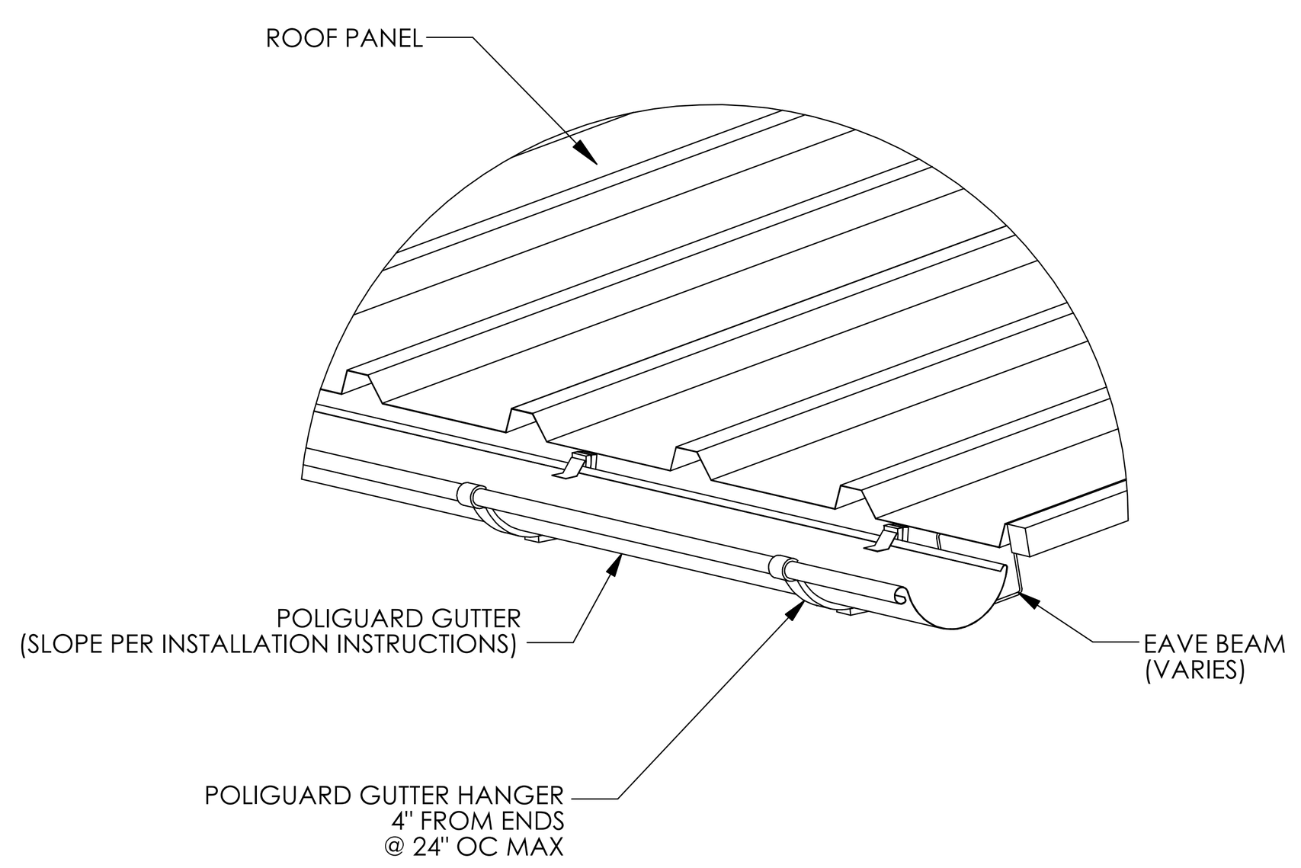
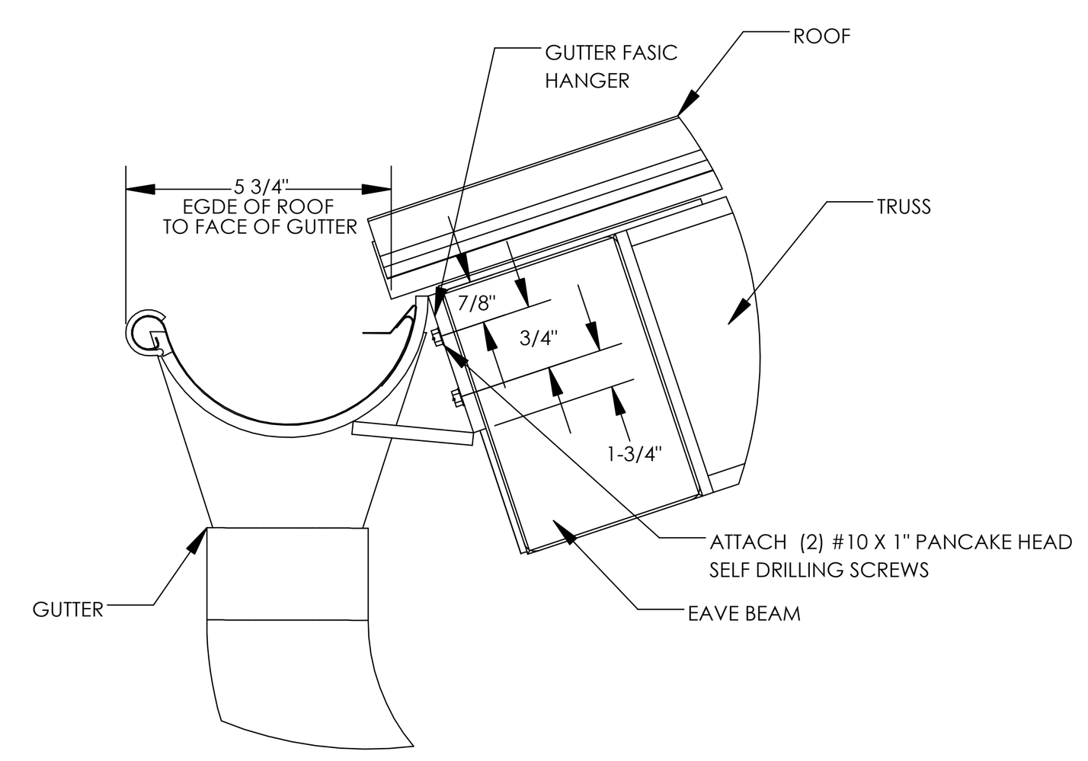
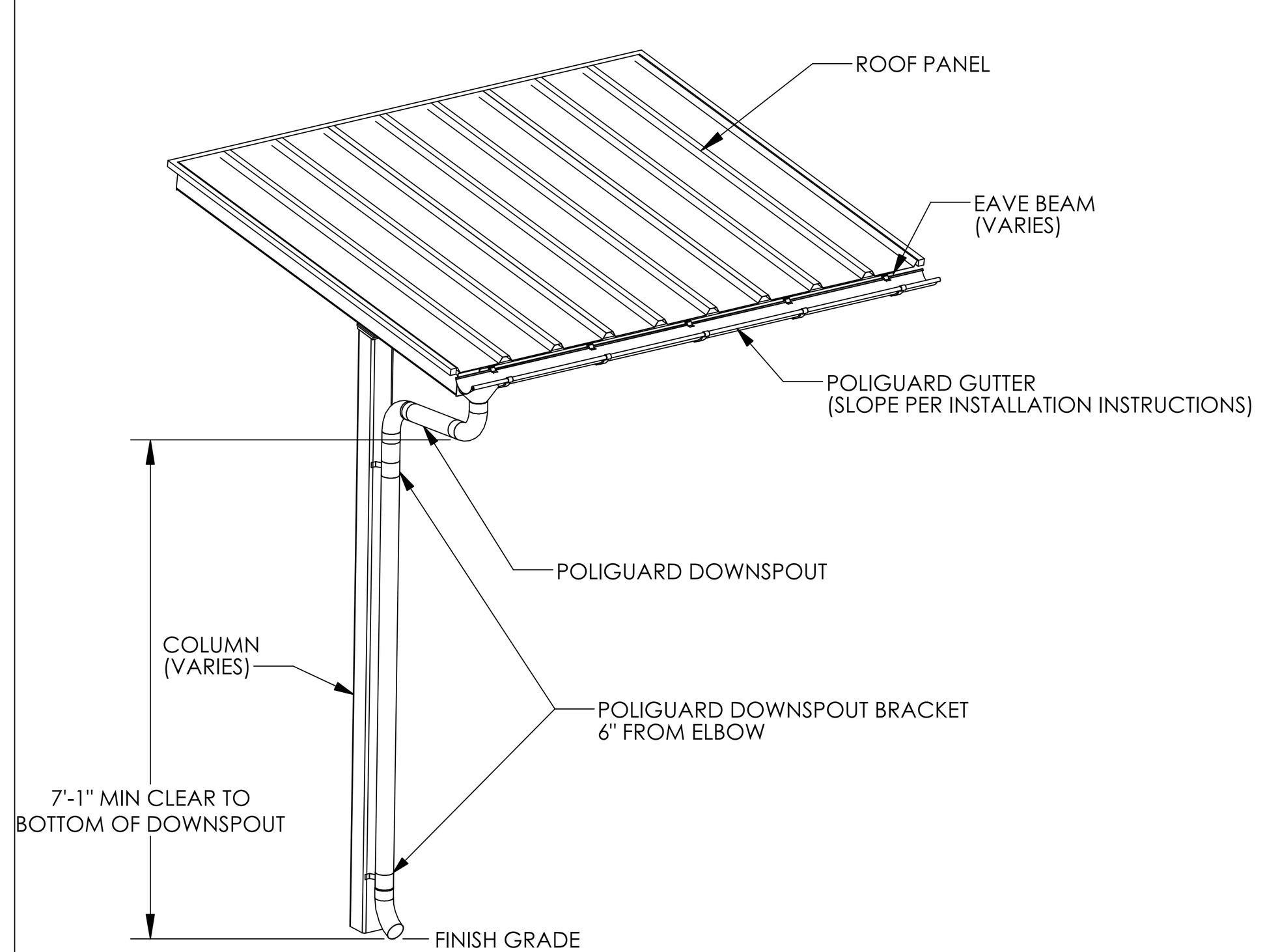
DATE: 02/15/2024



GUTTER DETAIL — GS-100



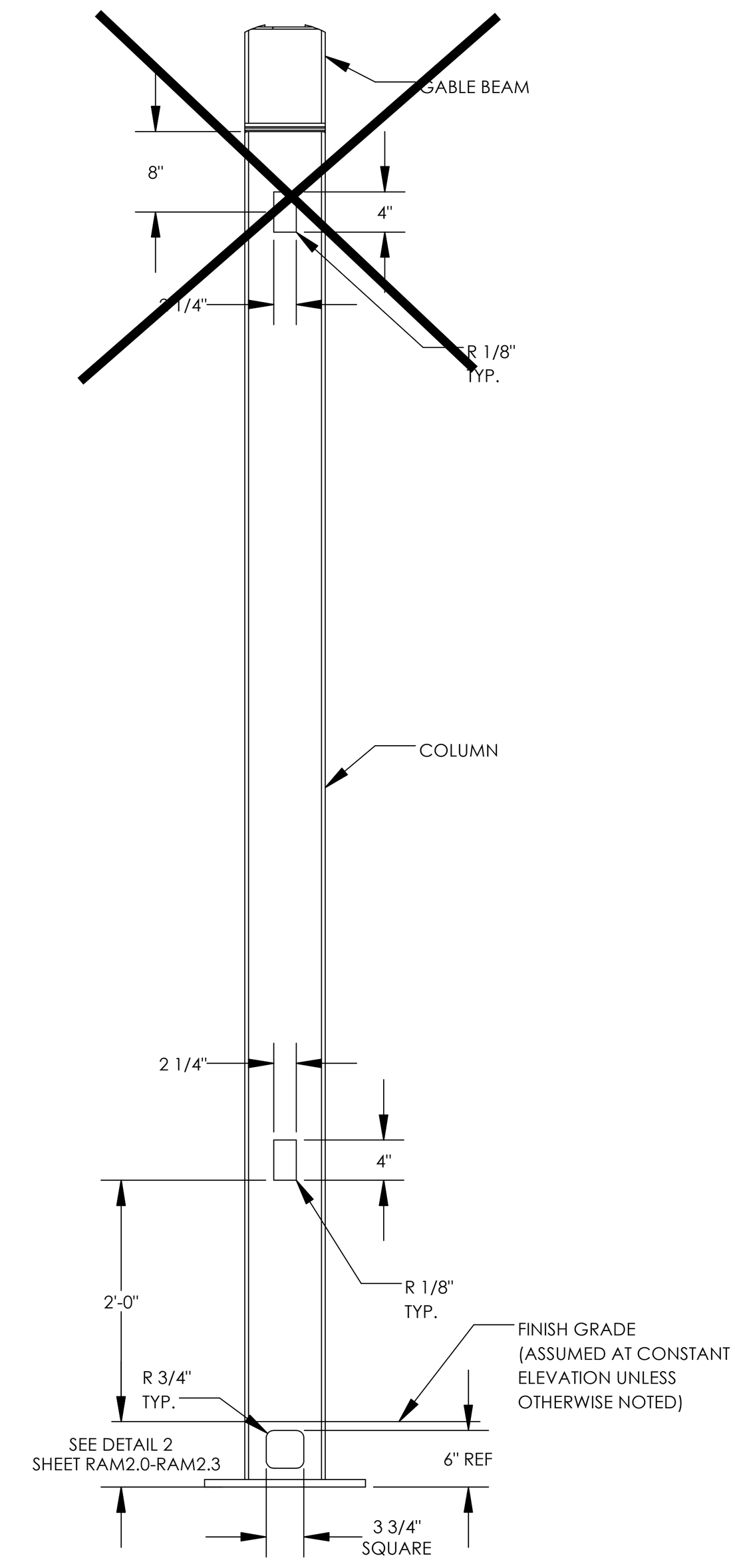
GUTTER DETAIL — GS-200



DOWNSPOUT DETAIL — GS-300

POLIGUARD GUTTER SYSTEM NOTES:

1. PREFABRICATED GUTTER SYSTEM IS ATTACHED TO THE STRUCTURE AFTER ROOF IS INSTALLED.
2. DETAILED INSTALLATION INSTRUCTIONS ARE SHIPPED WITH THE STRUCTURE.
3. ~~DOWNSPOUTS REQUIRED AT EACH COLUMN.~~



ELECTRICAL CUTOUT IN COLUMNS — EC-100

ELECTRICAL CUTOUT NOTES:

1. MAXIMUM ONE CUTOUT PERMITTED IN EACH MEMBER.
2. CUTOUTS CAN BE PLACED ON ANY SIDE OF A MEMBER.
3. CUTOUTS CAN BE PLACED ALONG MEMBERS AS INDICATED IN THE DETAILS.
4. ARCHITECTS REQUESTING CUTOUTS MUST MARKUP APPROVED PC DRAWINGS TO LOCATE CUTOUTS FOR APPROVAL AND FABRICATION.

STATE APPROVALS-SITE

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REGISTERED PROFESSIONAL ENGINEER
JESSICA E. NAPIER
No. S5476
STRUCTURAL
STATE OF CALIFORNIA

STATE APPROVALS-PC

IDENTIFICATION STAMP
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MISC DESIGN OPTIONS

HIP ROOF - RAM

RAM7.0

Sacramento City
UNIFIED SCHOOL DISTRICT

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LICENSED ARCHITECT
JEFFREY ALAN GRAY
C-14648
5/31/25
RENEWAL DATE
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

FACILITY:
4720 FOREST PKWY
SACRAMENTO, CA 95823

PROJECT:
PARKWAY ELEMENTARY - SHADE STRUCTURE

SHEET NAME:
MISC DESIGN OPTIONS

CONSTRUCTION DOCUMENTS

DATE: 2/09/2024
CLIENT PROJ NO:

SHEET:
RAM7.0

PLEASE RECYCLE

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PRINT SIZE

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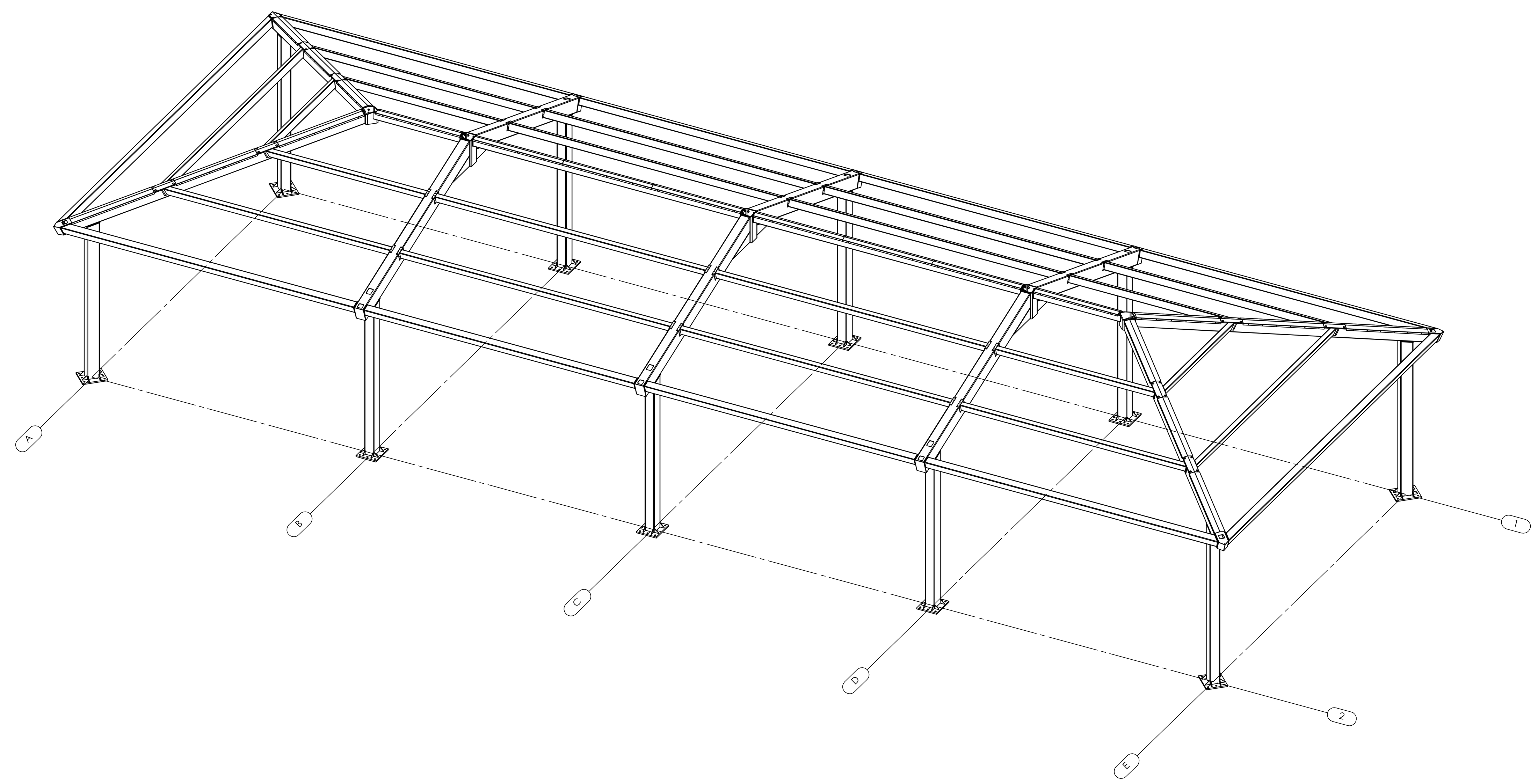
ELECTRICAL CUTOUT AND ACCESS INSTRUCTIONS

- IF 'YES' IS NOT SELECTED IN STEP 2 ON ORDER FORM, THEN THIS SHEET NEED NOT BE INCLUDED IN SITE-SPECIFIC DRAWINGS
- ONLY COLUMNS ARE PERMITTED TO HAVE ELECTRICAL ACCESS
- THE COLUMN CUTOUTS ARE STATIC AND SHOWN IN THE 'MISC DESIGN OPTIONS SHEET'
- IDENTIFY THE COLUMNS WITH ELECTRICAL CUTOUTS BELOW (REFERENCE GRID LINES IN ISOMETRIC FRAME VIEW TO THE RIGHT)
- STRUCTURES MAY BE LONGER OR SHORTER THAN THE ISOMETRIC FRAME VIEW SHOWN
- IF SITE-SPECIFIC STRUCTURE HAS A DIFFERENT NUMBER OF COLUMNS THAN ISOMETRIC SHOWN, REFERENCE COLUMN A1 IN THE ISOMETRIC VIEW AND CONTINUE PATTERN TO FIT SITE-SPECIFIC LAYOUT
- IF NO COLUMNS ARE IDENTIFIED, POLIGON WILL ASSUME CUTOUTS ONLY IN COLUMN A1
- CONTACT POLIGON ENGINEERING FOR SPECIAL PROJECT SPECIFIC REQUIREMENTS

ELECTRICAL CUTOUT IDENTIFICATION IN COLUMNS
SPECIFIC MEMBERS A1, E2

~~EXAMPLE:~~

~~ELECTRICAL CUTOUT IDENTIFICATION IN COLUMNS~~
~~SPECIFIC MEMBERS A1, B1, F1~~



STATE APPROVALS-SITE

GHD

poligon

PORTER

STATE APPROVALS-PC

~~IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-121213 PC REVIEWED FOR SS ☑ FLS ☑ ACS ☑ CG ☐ DATE 7/18/2023~~

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

ELECTRICAL CUTOUTS

HIP ROOF - RAM

RAM7.1

AGENCY APPROVAL:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121825 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 02/15/2024

Sacramento City UNIFIED SCHOOL DISTRICT

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LICENSED ARCHITECT JEFFREY ALAN GRAY C-14648 5/31/25 RENEWAL DATE STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER JESSICA E. NAPIER No. S5476 STRUCTURAL STATE OF CALIFORNIA

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