

Abbreviations:

A	And	F.R.P.	Fiberglass Reinforced Plastic	P.D.F.	Power Driven Fastener
@	Angle	F.V.	Field Ventry	PT	Part
∅	Centerline	FIN	Finish	PR	Pair
∠	Degree	F.F.E.	Finish Floor Elevation	PR	Partition
PERP./J	Perpendicular	F.F.G.	Finish Grade	PEN	Penetration
PL	Property Line	F.A.	Fire Alarm	PERF	Perforated
A.F.F.	Above Finish Floor	F.E.C.	Fire Extinguisher	P.LAM	Plastic Laminate
ACOUS.	Acoustical	FLASH	Fire Extinguisher Cabinet	PL	Plate
ADJ.	Adjustable	FLSH	Flashing	PLYWD.	Plywood
AGGR.	Aggregate	F.H.M.B.	Flat Head Machine Bolt	PL	Plastic
A.L.	Aluminum	F.H.M.S.	Flat Head Machine Screw	PRE-FAB.	Prefabricated
AD	Area Drain	F.H.W.S.	Flat Head Wood Screw	P.M.F.	Pressed Metal Frame
A.V.	Audio Visual	FL.FLR.	Floor	P.T.J.P.T.D.F.	Pressure Treated Douglas Fir
AUTO.	Automatic	F.D.	Floor Drain	R	Radius/Riser
BM	Beam	FT.	Foot/feet	R.W.L.	Rain Water Leader
BLK	Block	FTG	Footing	RDWD.	Redwood
BLKG.	Blocking	FND	Foundation	REF	Refrigerator
BD.	Board	FUR.	Furring	REIN.	Reinforced
BOT	Bottom	GALV.	Galvanized	REIN.	Reinforced
BUILDG.	Building	G.I.	Galvanized Iron	REQD	Required
CAB.	Cabinet	G.S.M.	Galvanized Sheet Metal	RET	Return
CATV	Cable T.V.	G.W.H.	Gas Water Heater	R.D.	Roof Drain
C.I.	Cast Iron	GA	Gauge	RM	Room
CL	Catch Basin	GLU/LAM./G.L.B.	Glue Laminated (Beam)	R.G.	Rough Opening
CLKG.	Clauking	GR.	Grade	R.H.W.S.	Round Head Wood Screw
CNTR./CTR.	Center	GYP.BD.	Gypsum Wallboard	R.B.	Rubber Base
CER.	Ceramic	HWDR	Hardware	SECT.	Section
CB	Chalkboard	HWWD.	Hardwood	S.SK	Service Sink
CB	Classroom	HDR	Header	SHT	Sheet
CLR	Clear	HVAC	Heating/Ventilating	S.M.	Sheet Metal
C.W.	Cold Water	H.M.	Hollow Metal	S.M.S.	Sheet Metal Screw
COL.	Column	H.H.	Hose Bib	S.	South
CONC.	Concrete	HR.	Hour (Fire Rating)	SPC.	Specification
CONN.	Connection	IN.	Inch	SQ.	Square
C.M.U.	Concrete Masonry Unit	INFO.	Information	SST./S.S.	Stainless Steel
CONSTR.	Construction	INS.	Insulation	STD./STND.	Standard
C.J.	Construction Joint	I.D.	Inside Diameter	STOR.	Storage
CONT.	Continuous	INT.	Interior	STR.	Stairs
CNTR.	Contractor	INV.	Invert	S.D.S.T.	Self-Drilling Self-Tapping Square Foot Structural
C.M.P.	Corrugated Metal Pipe	JAN.	Janitor	SUSP.	Suspended
CUST.	Custodian	J.O.	Joist	SYM.	Symbol
D.	Deep/Depth	KP.	Kickplate	TB	Tackboard
DET/DTL	Detail	KIT.	Kitchen	TEL./TELE.	Telephone
DIAG.	Diagonal	LAM.	Laminate	T.V.	Television
DIA/∅	Diameter	LAV.	Lavatory	T.CLR.	Tempered Clear
DIM.	Dimension	L.W.	Light Weight	T.L.T.	Tempered Low Transmission
DIM.PT.	Dimension Point	L.T.WT.	Lead Feet	THRES.	Threshold
DW.	Dishwasher	L.F.	Lineal Feet	THRU.	Through
DR.	Door	M.B.	Machine Bolt	T&G	Tongue & Groove
DBL.	Double	M.H.	Menhole	T.O.	Top
DN.	Down	MFR.	Manufacturer	T.O.C.	Top of Curb
D.O.	Dropout	M.O.	Masonry Opening	T.O.P.	Top of Pavement
D.I.	Drain Inlet	MATL.	Material	T.O.W.	Top of Wall/Top of Walk
DWG.	Drawing	MAX.	Maximum	T.S.	Tube Steel
D.F.	Drinking Fountain	MCH.	Mechanical	TYP.	Typical
E.A.	Each	MEB.	Mechanical	U.O.N.	Unless Otherwise Noted
E.	East	MEZ.	Mezzanine	VERT.	Vertical
ELEC.	Electrical	MIN.	Minimum	V.G.D.F.	Vertical Grain Douglas Fir
E.W.C.	Electric Water Cooler	MISC.	Miscellaneous	V.V.C.	Vinyl Wall Covering
E.W.H.	Electric Water Heater	M.P.	Multipurpose	W.C.	Wainscot
EL./ELEV.	Elevation	(N)	New	W.C.	Water Closet
EMER.	Emergency	NOM.	Normal	W.H.	Water Heater
EQ.	Equal	N.	North	WT.	Weight
ENC.	Enclosure	N.I.C.	Not in Contract	W.	Welded Wire Mesh
(E)EXIST.	Existing	N.	Not to Scale	NO.#	Number
EXP.	Expansion	NO.#	Number	WDW	Window
E.J.	Expansion Joint	O.F.O.I.	Owner Furnish, Owner Installed	W.G.	Wire Glass
EXT.	Exterior	O.F.C.I.	Owner Furnish, Contractor Installed	W/O	Without
F.O.C.	Face of Concrete/Curb	O.C.	On Center	WB.	Wood
F.O.F.	Face of Finish	O.C.	On Center	YD.	Yard
F.O.S.	Face of Studs	O.P.P.	Opposite	Y.D.	Yard Drain
FB.	Fiberglass	O.H.	Opposite Hand		
F.R.L.	Fiberglass Reinforced Laminate	O.D.	Outside Diameter		
		O.H.W.S.	Oval Head Wood Screw		
		OV.	Over		
		OA.	Overall		

Symbol Legend:

SHEET NUMBERING SYSTEM

Discipline Designation
Drawing Type Designation
Sheet Sequence Beyond Zero
Building Unit Designation

STRUCTURAL GRID IDENTIFIER
(center of framing)

Grid Designation
Building Unit Designation

ROOM NAME AND NUMBERING REFERENCE

Room Number
Building Designation

STRUCTURAL GRID IDENTIFIER
(face of framing, concrete or CMU)

Grid Designation
Building Unit Designation

CENTERLINE

WORK POINT CONTROL

REVISION

Revision Number

RADIUS

Radius Point Number
Radius Dimension

BUILDING SECTION REFERENCE

Section Number
Sheet Number

EXTERIOR ELEVATION REFERENCE

Elevation Number
Sheet Number

WALL SECTION REFERENCE

Section Number
Sheet Number

SPECIAL ELEVATION REFERENCE

SHADE STRUCTURE AT CAROLINE WENZEL ELEMENTARY SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT SACRAMENTO, CA

Architect:
Rainforth Grau Architects
2101 Capitol Avenue, Suite 100
Sacramento, CA 95816
916.368.7990

Owner:
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
5737 47TH AVENUE
SACRAMENTO, CA 95824
916.643.7400

Contact: VIPUL SAFI

Consultants:

CIVIL ENGINEER:
WARREN CONSULTING ENGINEERS
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762
916.985.1870
ATTN: ANTHONY TASSANO

ELECTRICAL ENGINEER:
PETERS ENGINEERING
7750 COLLEGE TOWN DRIVE, SUITE 101
SACRAMENTO, CA 95826
916.447.2841
ATTN: GINO ROMANO

Contact: MIKE TAXARA

Project Information:

SITE LOCATION
6870 GREENHAVEN DRIVE
SACRAMENTO, CA 95831

Project Scope:

INSTALLATION OF (1) 30' X 64' PC SHADE STRUCTURE AND RELATED CONCRETE PAD, UPGRADES TO ACCESSIBLE PATH OF TRAVEL, PARKING AND RESTROOMS, RELATED SITE AND ELECTRICAL WORK.

SCHEDULE OF ALTERNATES:

ALTERNATE NO. 1: CRACK REPAIR, SEAL COAT AND RESTRIPING
A. The contractor is responsible for determining the extent of crack repair at (e) hardout. Place 2 coats of seal coat on existing paving. Seal coat to be provided over entirety of (e) hardout. The contractor is responsible for verifying (e) stripping condition and verifying exact layout to be restriped with District.

FIRE SAFETY: THE CONTRACTOR SHALL COMPLY WITH CFC CH 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.

Sheet Index

GENERAL	A0.1 COVER SHEET
	A0.2 TYPICAL MOUNTING HEIGHTS AND DETAILS
	A0.7 LOCAL FIRE AUTHORITY SITE PLAN
CIVIL	C0.1 CIVIL GENERAL NOTES AND ABBREVIATIONS
	C1.1 DEMOLITION PLAN
	C2.1 GRADING AND PAVING PLAN
	C3.1 DETAILS AND SECTIONS
ARCHITECTURAL	A1.1.0 SITE PLAN AND CODE INFORMATION
	A1.1.1 PARTIAL SITE PLANS AND DETAILS
	A2.1.1 TOILET ROOM DEMOLITION AND IMPROVEMENT PLANS AND INTERIOR ELEVATIONS
ELECTRICAL	E0.1 SYMBOLS, NOTES
	E1.1 SITE PLAN - ELECTRICAL
	E2.1 ONE LINE DIAGRAM
	E3.1 DETAILS
	TOTAL SHEET COUNT: 14

Applicable Codes:

CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING CODES AND STANDARDS:

TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
TITLE 24, CCR, PART 1, 2019 CALIFORNIA ADMINISTRATIVE CODE
TITLE 24, CCR, PART 2, 2019 CALIFORNIA BUILDING CODE, VOL. 1 & 2
TITLE 24, CCR, PART 3, 2019 CALIFORNIA ELECTRICAL CODE
TITLE 24, CCR, PART 4, 2019 CALIFORNIA MECHANICAL CODE
TITLE 24, CCR, PART 5, 2019 CALIFORNIA PLUMBING CODE
TITLE 24, CCR, PART 6, 2019 CALIFORNIA ENERGY CODE
TITLE 24, CCR, PART 9, 2019 CALIFORNIA FIRE CODE
TITLE 24, CCR, PART 10, 2019 CALIFORNIA EXISTING BUILDING CODE
TITLE 24, CCR, PART 11, 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
TITLE 24, CCR, PART 12, 2019 CALIFORNIA REFERENCED STANDARDS CODE

NFPA 13, 2016 EDITION, INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDMENTS)
NFPA 72, 2016 EDITION, NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDMENTS)

UL 464, 2003 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES

UL 521, 7TH EDITION, 1999 HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS

THE CONTRACTOR SHALL KEEP TITLE 24, CCR, PARTS 1-5 ON THE BUILDING SITE AT ALL TIMES.

DSA Procedures:

- ADDENDA MUST BE STAMPED AND SIGNED BY THE ARCHITECT OF RECORD AND APPROVED BY DSA IN ACCORDANCE WITH CCR TITLE 24, PART 1.
- THE CONTRACTOR SHALL BE FAMILIAR WITH AND PERFORM THE DUTIES IN ACCORDANCE WITH DSA PROCEDURE 13-01, CONSTRUCTION OVERSIGHT PROCESS.
- CHANGES TO THE STRUCTURAL, ACCESSIBILITY, OR FIRE AND LIFE-SAFETY PORTIONS OF THE APPROVED PLANS AND SPECIFICATIONS AFTER THE WORK HAS BEEN LET SHALL BE MADE BY A CONSTRUCTION CHANGE DOCUMENT AS REQUIRED IN TITLE 24, PART 1, 4-338 AND CONSTRUCTION CHANGE DOCUMENTS SHALL BE PREPARED AND SUBMITTED TO DSA IN ACCORDANCE WITH DSA IR-A-6.
- SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS WILL BE CONSIDERED AS CHANGES TO THE APPROVED PLANS AND/OR SPECIFICATIONS. THEY ARE TO BE TREATED AS CONSTRUCTION CHANGE DOCUMENTS AND WILL REQUIRE DSA'S APPROVAL PRIOR TO FABRICATION AND INSTALLATION IN ACCORDANCE WITH TITLE 24, PART 1, 4-338 AND DSA IR-A-6.
- THE CLASS 2 PROJECT INSPECTOR MUST BE EMPLOYED BY THE OWNER AND APPROVED BY THE ARCHITECT, STRUCTURAL ENGINEER, AND DSA IN ACCORDANCE WITH TITLE 24, PART 1, 4-341.
- SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED DOCUMENTS WOULD MAKE THE BUILDING NON-COMPLIANT WITH THE REQUIREMENTS OF THE EDITION OF THE CBD IN FORCE AT THE TIME OF ORIGINAL CONSTRUCTION, A CHANGE CONSTRUCTION DOCUMENT OR SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK.
- 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.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- 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 CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATED 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.)
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

Deferred Approval:

- PC SHADE STRUCTURE

Statement of General Conformance

THE FOLLOWING DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET 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)).

SIGNATURE _____ DATE _____

ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE
Jeffrey Grau

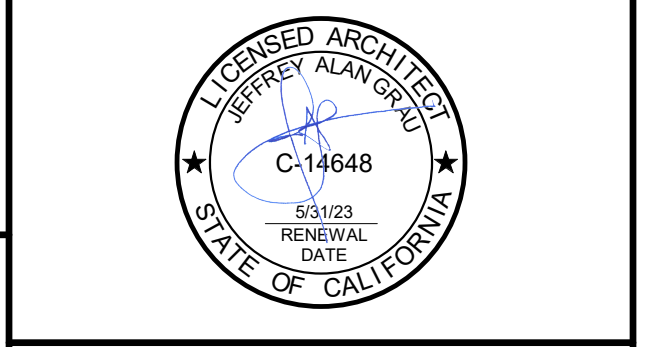
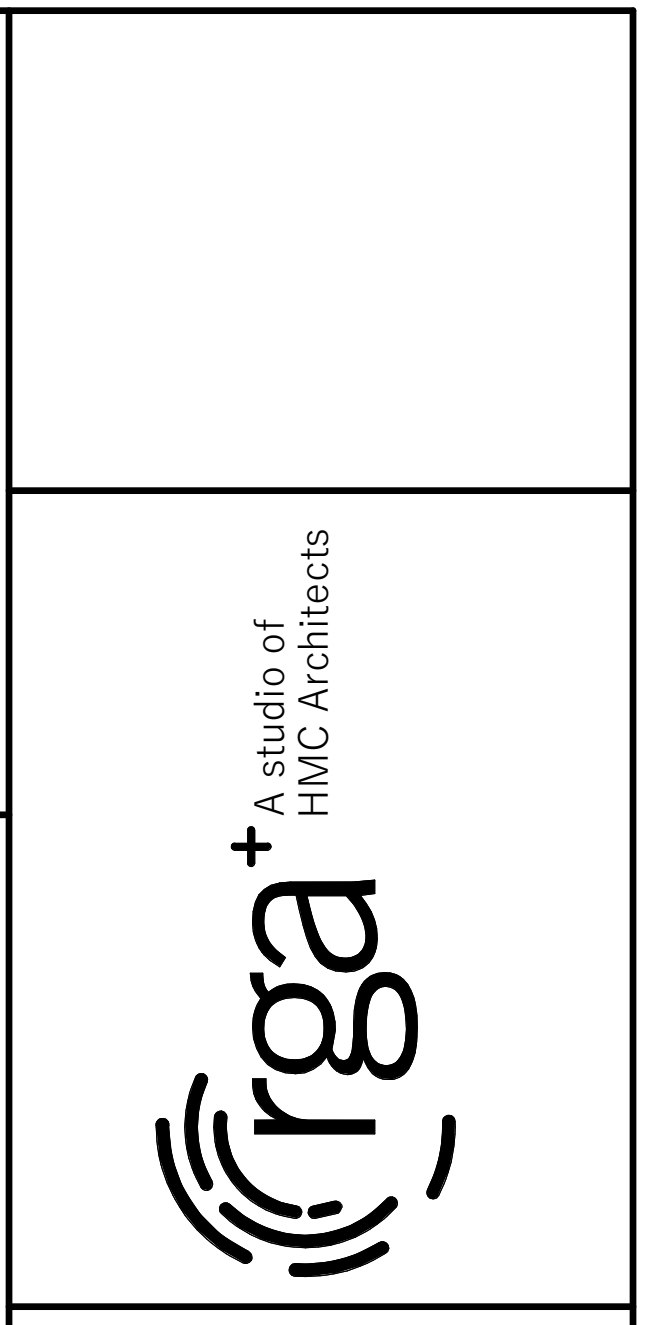
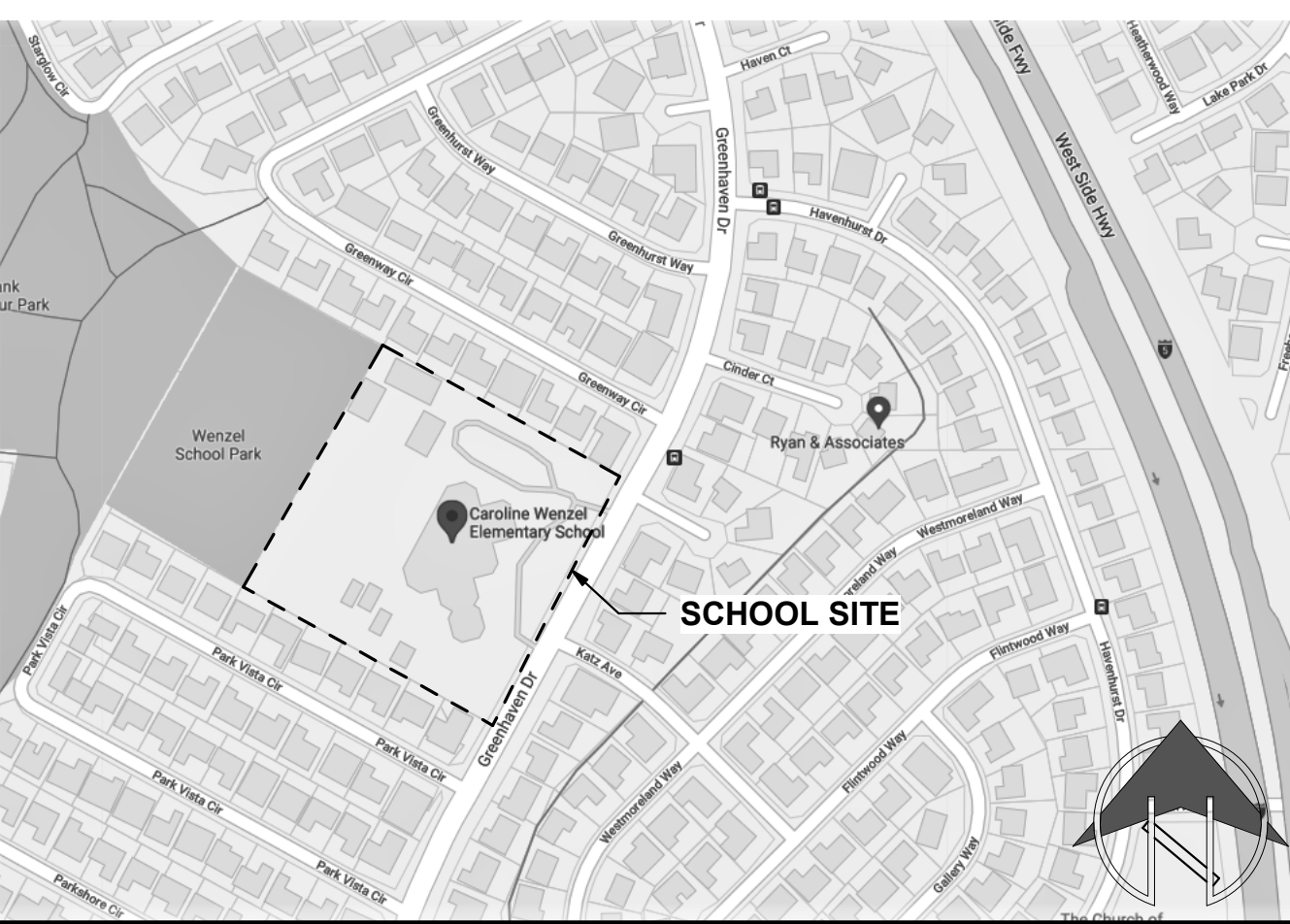
PRINT NAME _____

LICENSE NUMBER _____ EXPIRATION DATE _____

LIST COMPLETELY, ITEMS REVIEWED AND ACCEPTED:

CIVIL, ELECTRICAL

Vicinity Map:



SHADE STRUCTURE AT CAROLINE WENZEL ELEMENTARY SCHOOL

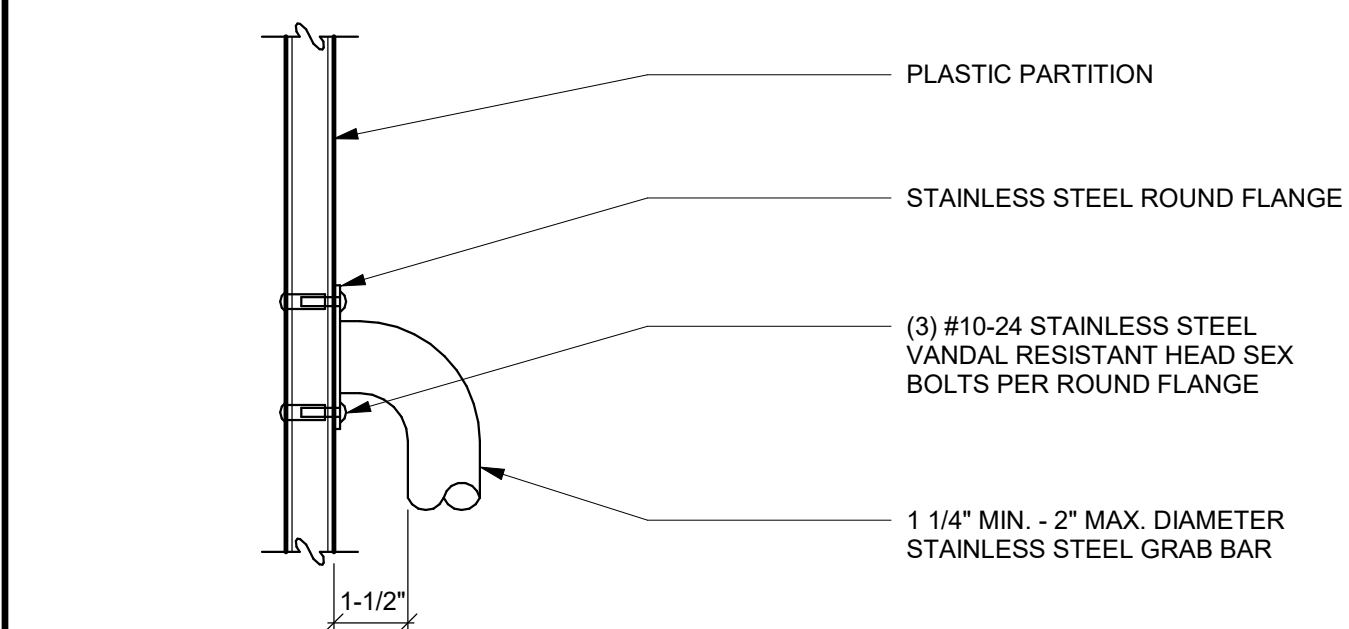
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision

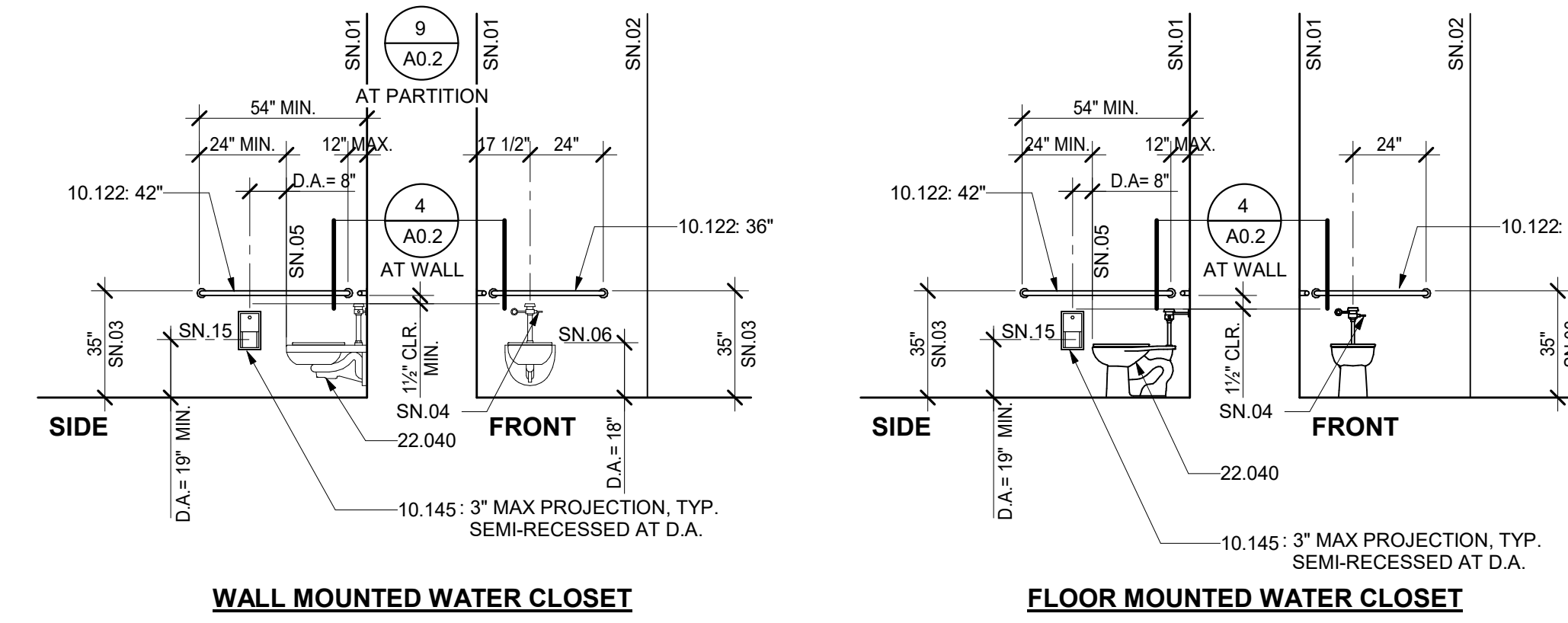
Cover Sheet

PROJECT NO. 1504.15
DATE: 3/22/2022
SHEET **A0.1**

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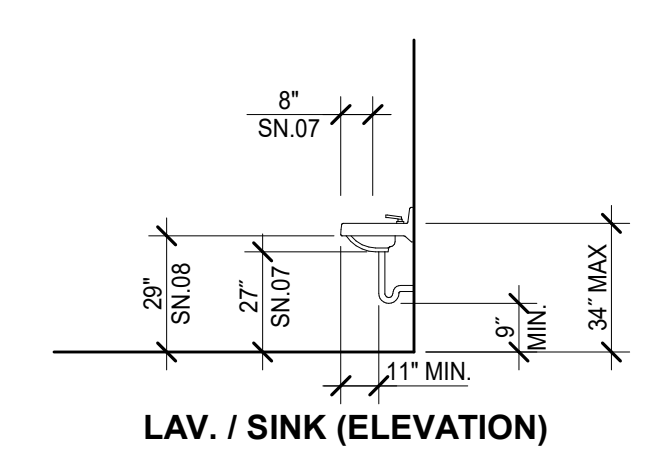


9 TYPICAL GRAB BAR AT PARTITIONS
3" = 1'-0"



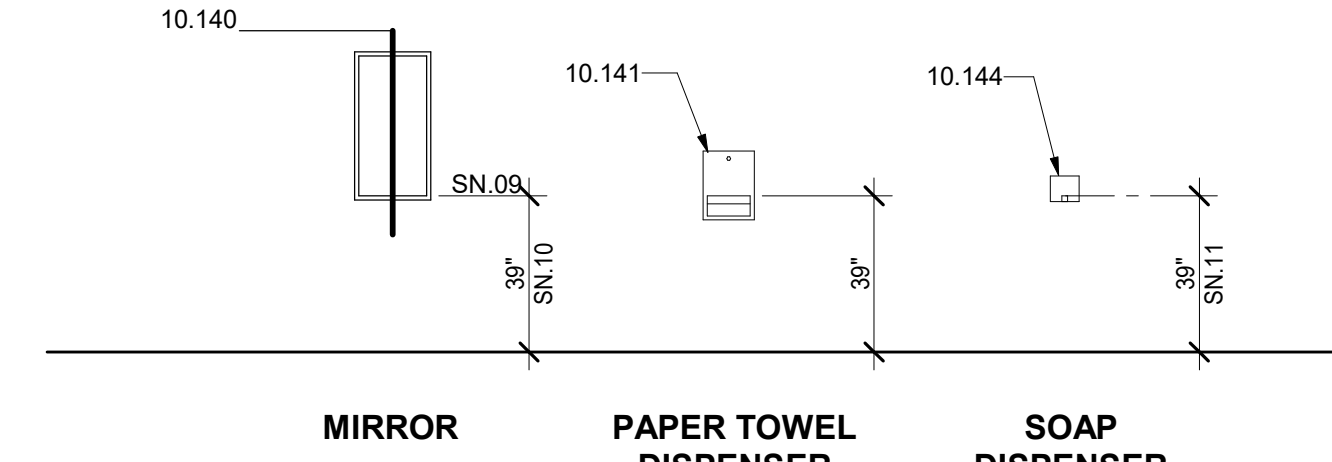
WALL MOUNTED WATER CLOSET

FLOOR MOUNTED WATER CLOSET



LAV. / SINK (ELEVATION)

LAV. / SINK (PLAN)



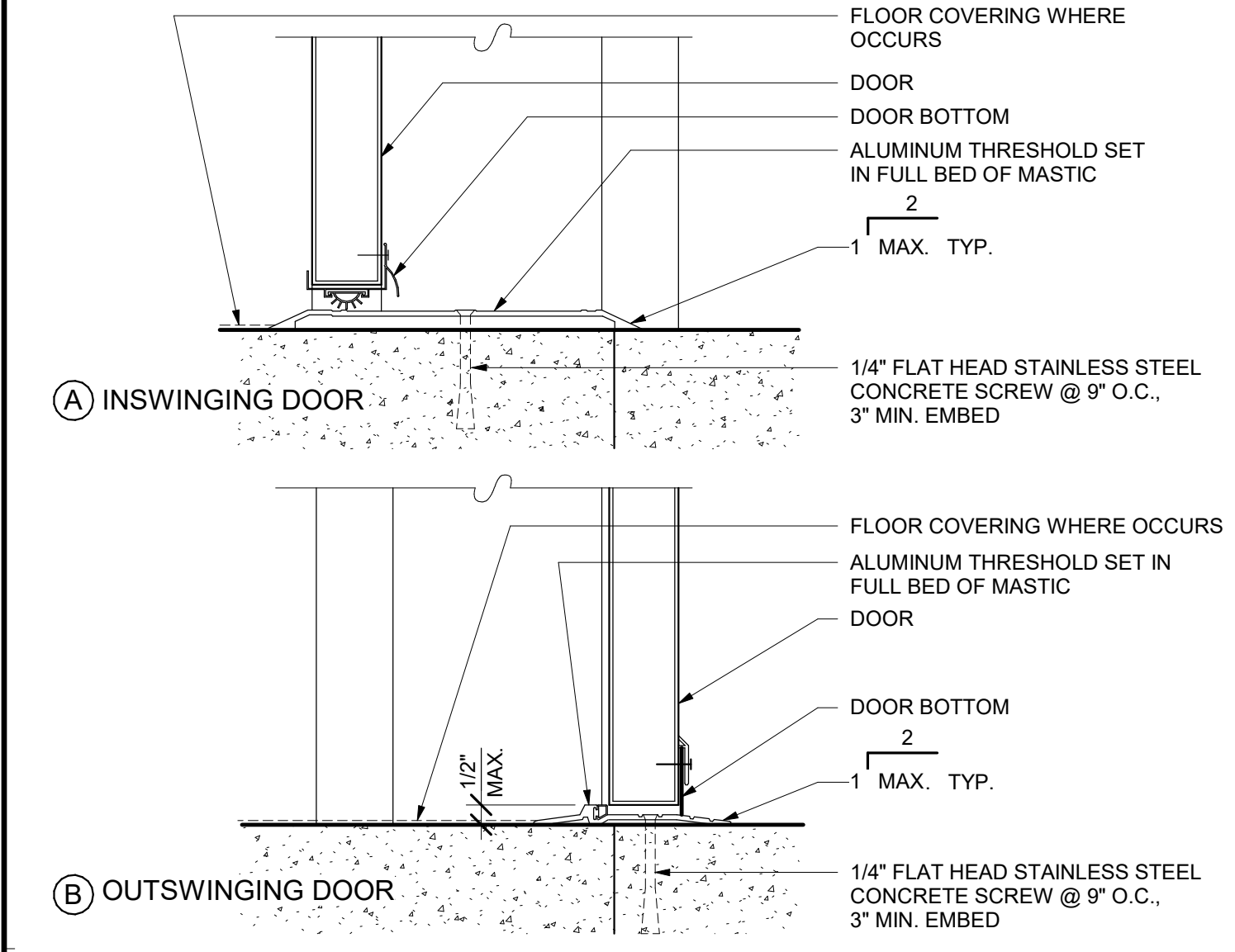
MIRROR

PAPER TOWEL DISPENSER

SOAP DISPENSER

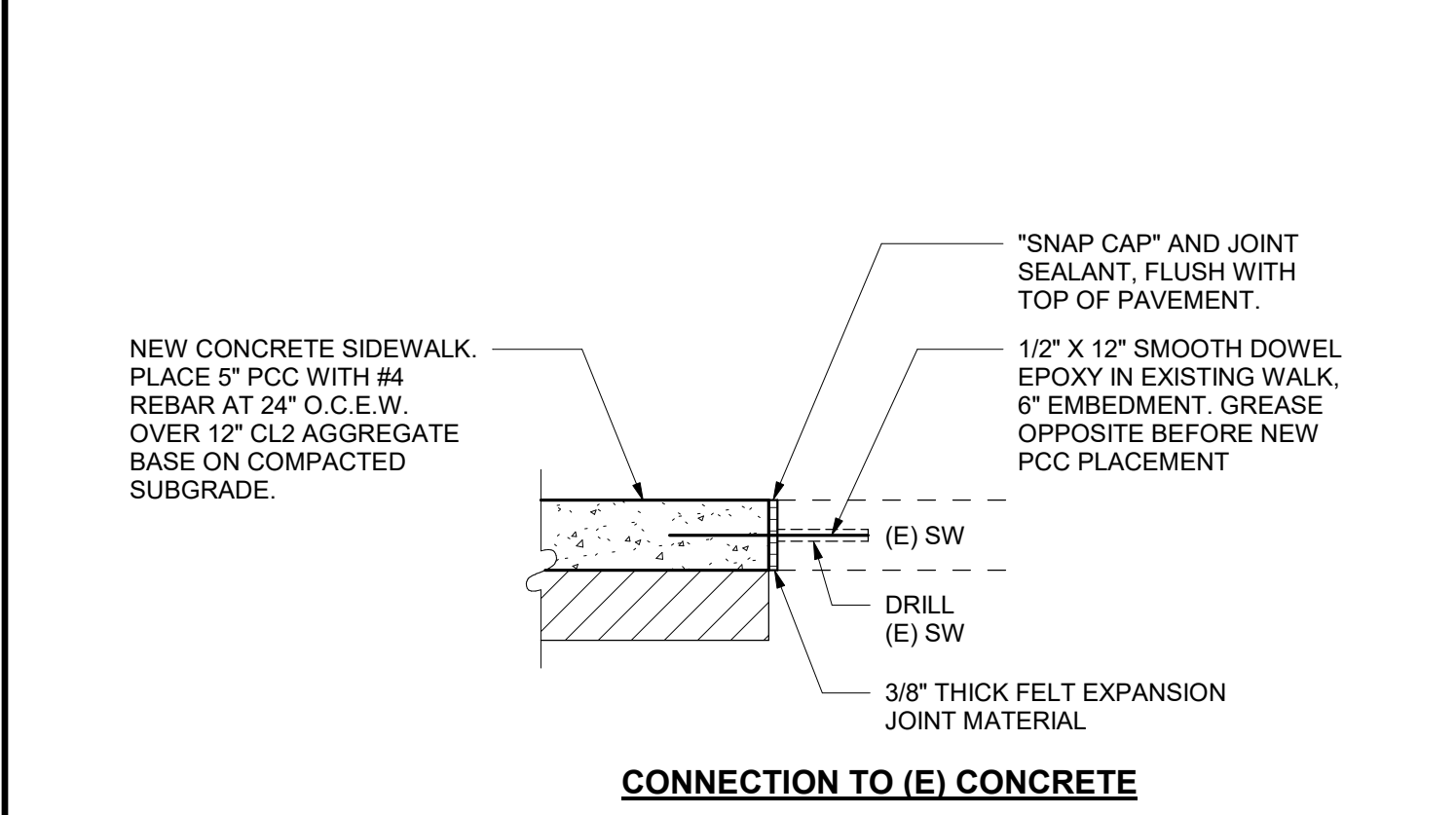
FIXTURE AND ACCESSORY HEIGHTS

FURNITURE EQUIPMENT HEIGHTS

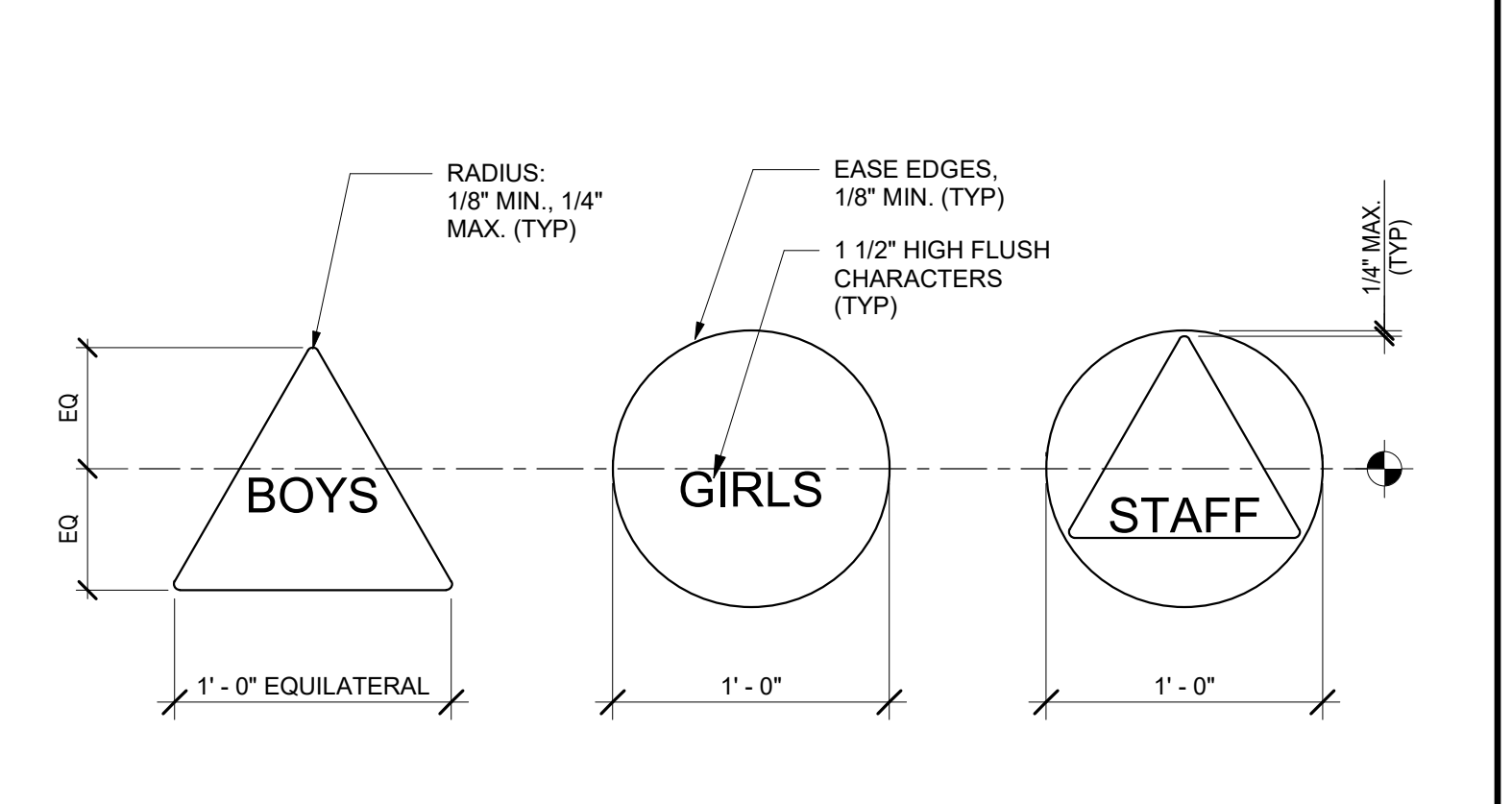


10 EXTERIOR DOOR THRESHOLD
3" = 1'-0"

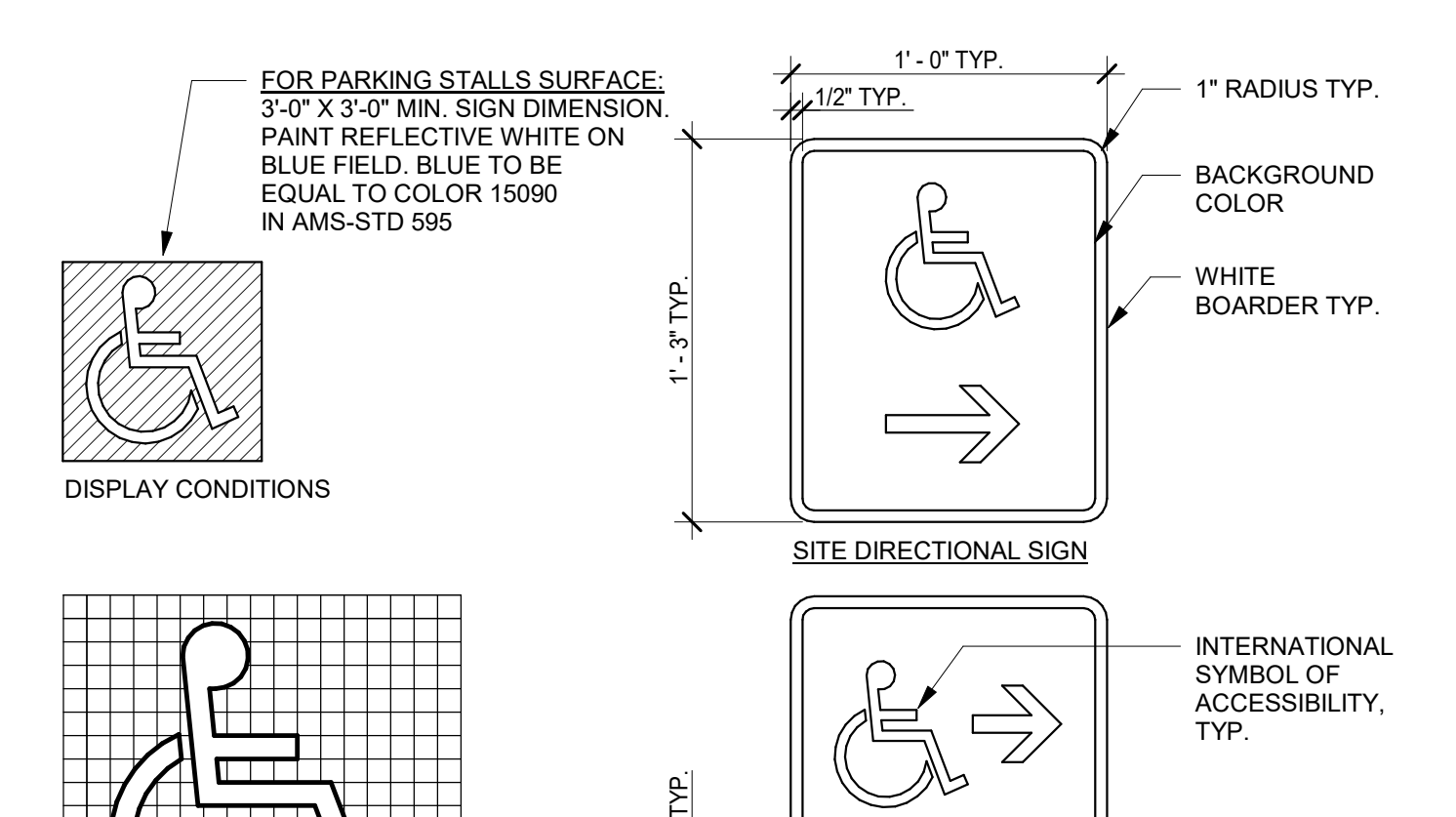
6 TYPICAL MOUNTING HEIGHTS AND DETAILS
1/4" = 1'-0"



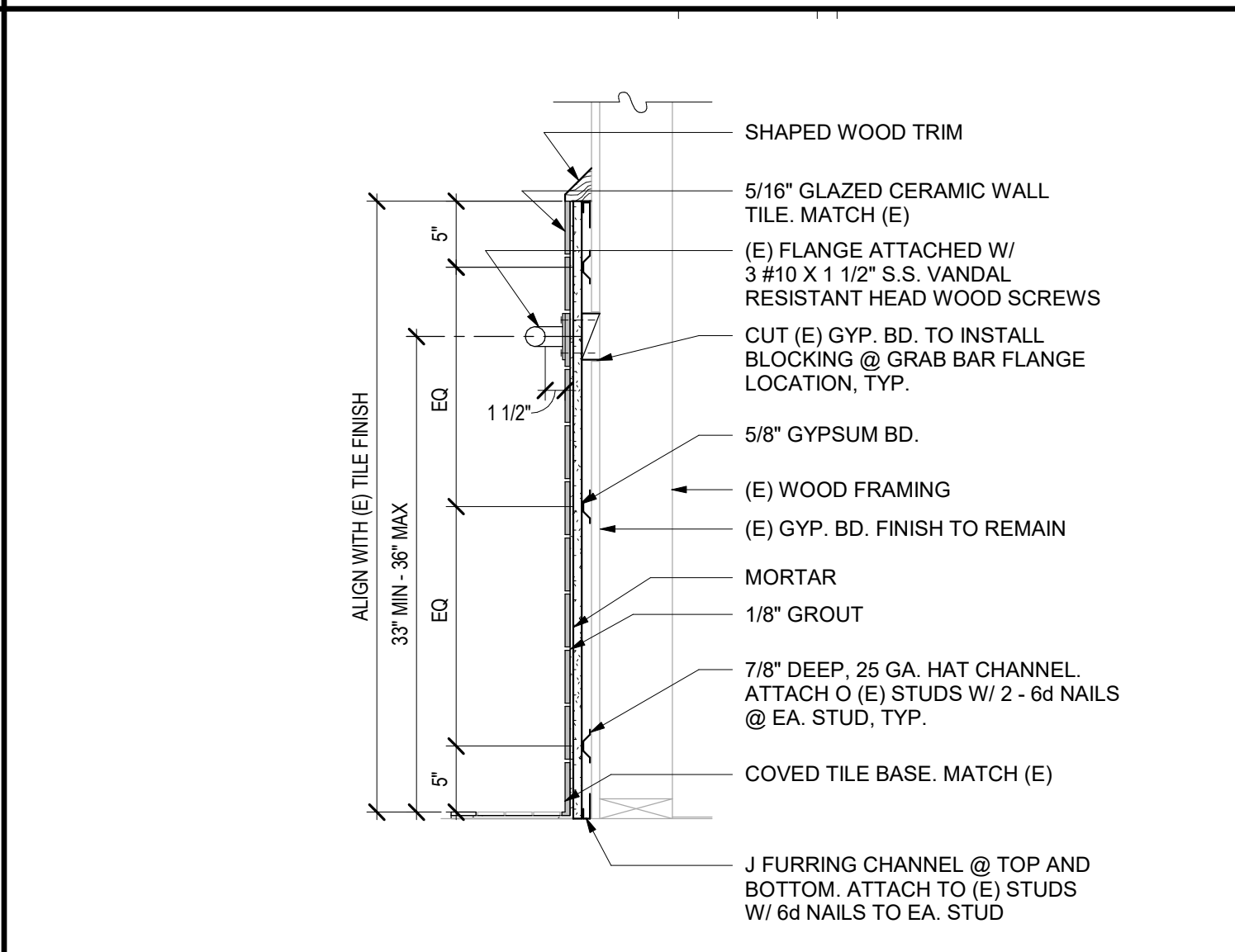
11 CONNECTION TO (E) CONCRETE
1 1/2" = 1'-0"



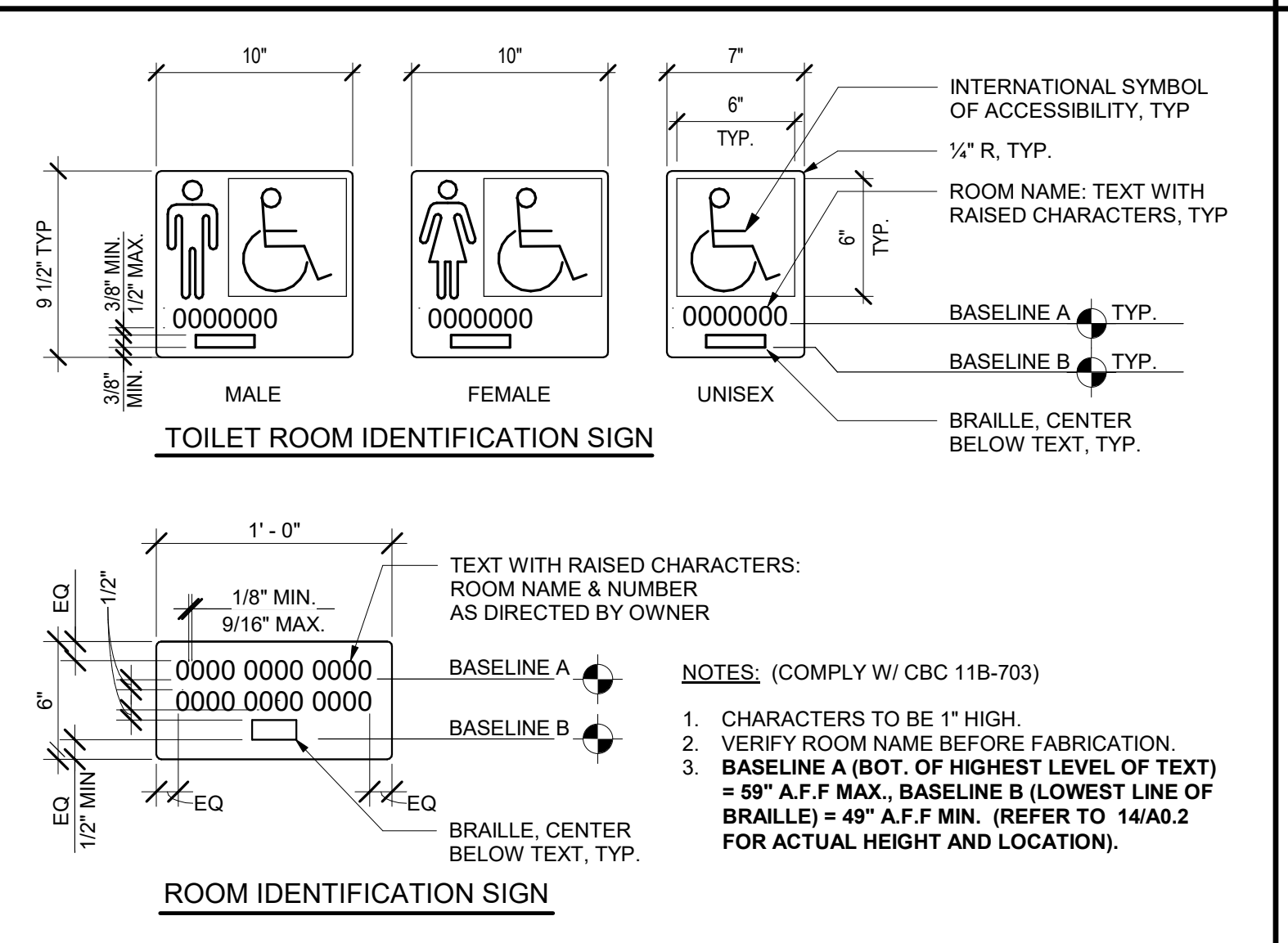
7 TOILET ROOM DOOR SYMBOLS
1 1/2" = 1'-0"



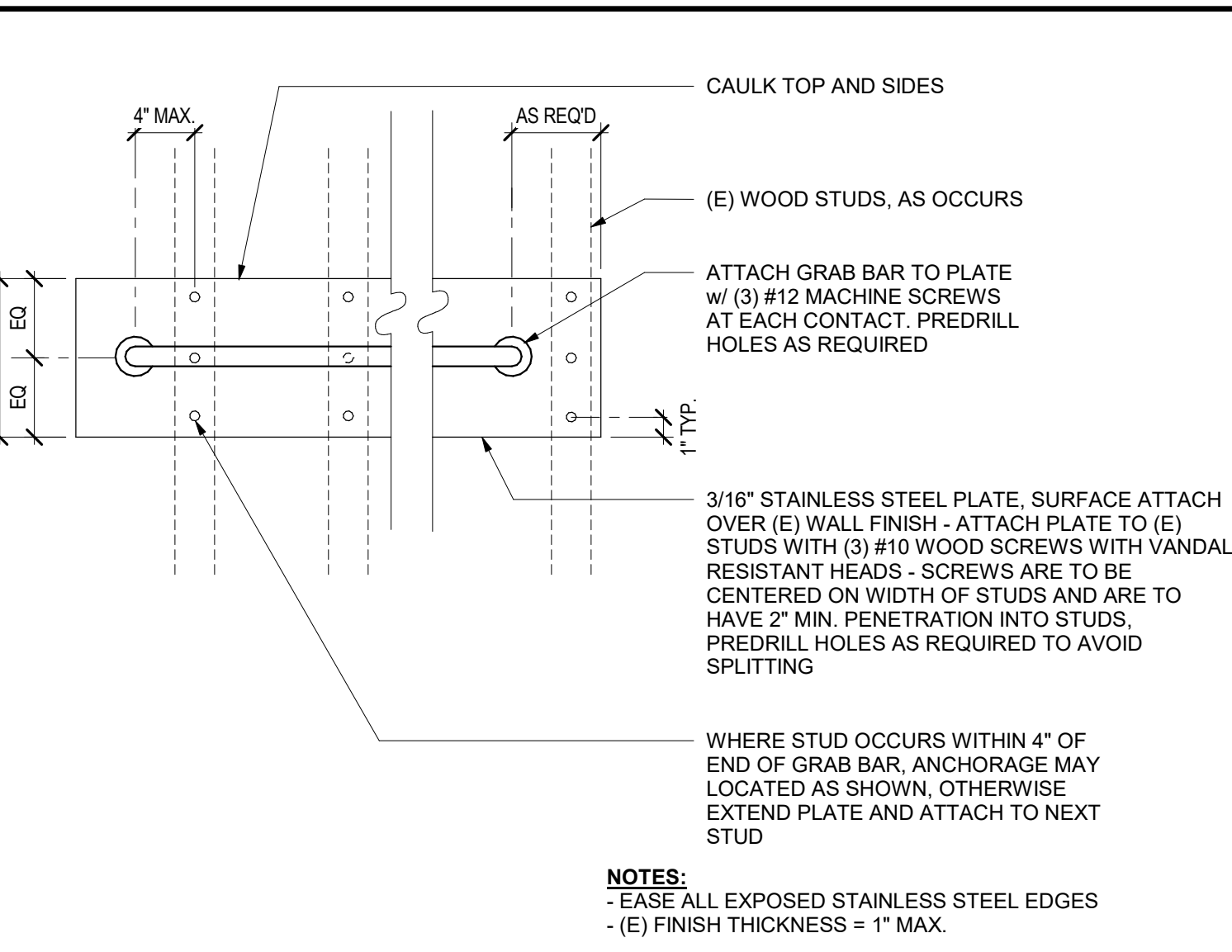
3 SYMBOL OF ACCESSIBILITY
NOT TO SCALE



12 WALL FURRING DETAIL
1" = 1'-0"



8 IDENTIFICATION SIGNS
1 1/2" = 1'-0"



4 GRAB BAR - STAINLESS STEEL PLATE
1 1/2" = 1'-0"

GENERAL NOTES

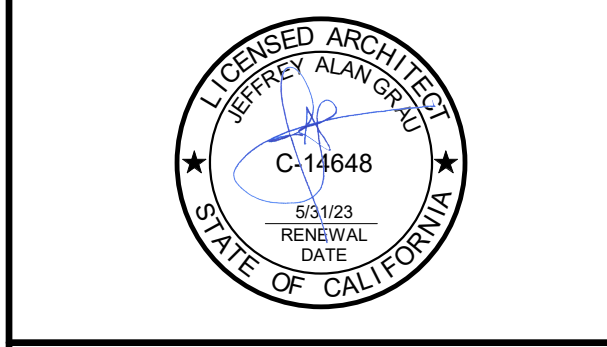
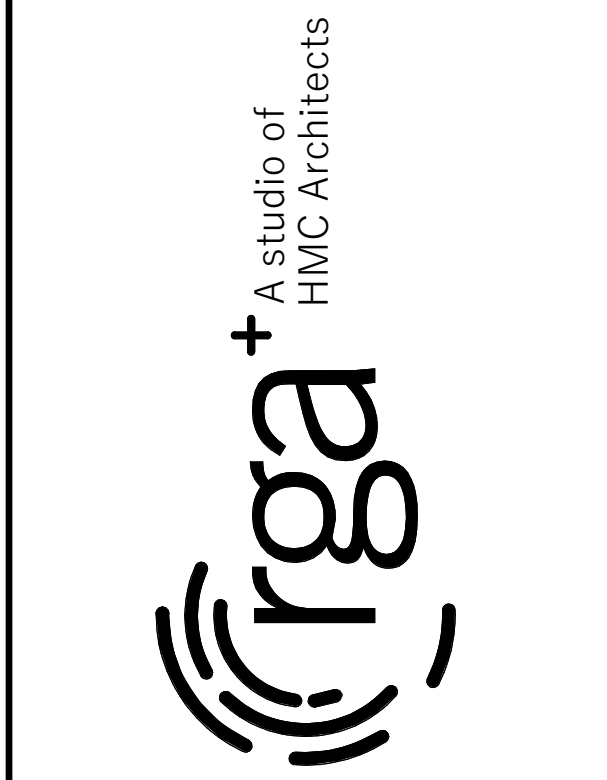
1. TYPICAL MOUNTING HEIGHTS AND DETAILS APPLY TO ENTIRE PROJECT, WHETHER REFERENCED OR NOT, UNLESS OTHERWISE NOTED.
2. ALL DISABLED ACCESSIBLE DIMENSIONS, ARE MAXIMUM DIMENSIONS UNLESS OTHERWISE NOTED.
3. HEIGHTS ARE MEASURED FROM FINISH FLOOR, UNLESS OTHERWISE NOTED.

SHEET NOTES

- SN.01 TO FACE OF FINISH
- SN.02 FACE OF OBJECTS OR WALLS
- SN.03 TOP OF GRAB BAR
- SN.04 AT ACCESSIBLE WATER CLOSETS, FLUSH CONTROL HANDLE SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET ENCLOSURE FRONT EDGE OF WATER CLOSET.
- SN.05 TOP OF SEAT
- SN.07 MINIMUM KNEE CLEARANCE
- SN.08 MINIMUM APRON CLEARANCE
- SN.09 BOTTOM EDGE OF REFLECTIVE SURFACE 34" MAX. IF MIRROR IS NOT MOUNTED OVER A LAV. OR COUNTER, TOP OF MIRROR 74" MIN. FOR HIGH SCHOOL & ADULTS.
- SN.10 TO CENTERLINE CONTROL.
- SN.11 PROVIDE AT ALL TOILET ROOM DOORS
- SN.12 CENTERLINE OF SYMBOL
- SN.13 CENTERLINE OF SIGN.
- SN.14 DIMENSION TO CENTERLINE OF TOILET PAPER ROLL POSITION
- SN.15

KEYNOTES

- 10.043 SIGNAGE, TOILET ROOM IDENTIFICATION
- 10.051 SIGNAGE, TOILET ROOM DOOR SYMBOL
- 10.122 TOILET ACCESSORY, GRAB BAR
- 10.140 TOILET ACCESSORY, MIRROR
- 10.141 TOILET ACCESSORY, PAPER TOWEL DISPENSER
- 10.144 TOILET ACCESSORY, SOAP DISPENSER
- 10.145 TOILET ACCESSORY, TOILET PAPER DISPENSER
- 22.040 WATER CLOSET



SHADE STRUCTURE AT CAROLINE WENZEL ELEMENTARY SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision

TYPICAL MOUNTING HEIGHTS AND DETAILS

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PROJECT NO. 1504.15
DATE: 3/22/2022
SHEET **A0.2**

DSA-810 FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

PROJECT INFORMATION
 School District: SACRAMENTO UNIFIED SCHOOL DISTRICT
 Project name / school: CAROLINE WENZEL SHADE STRUCTURE
 Project address: 6870 GREENHAVEN DRIVE, SACRAMENTO, CA 95831

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

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

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: _____

LEGEND

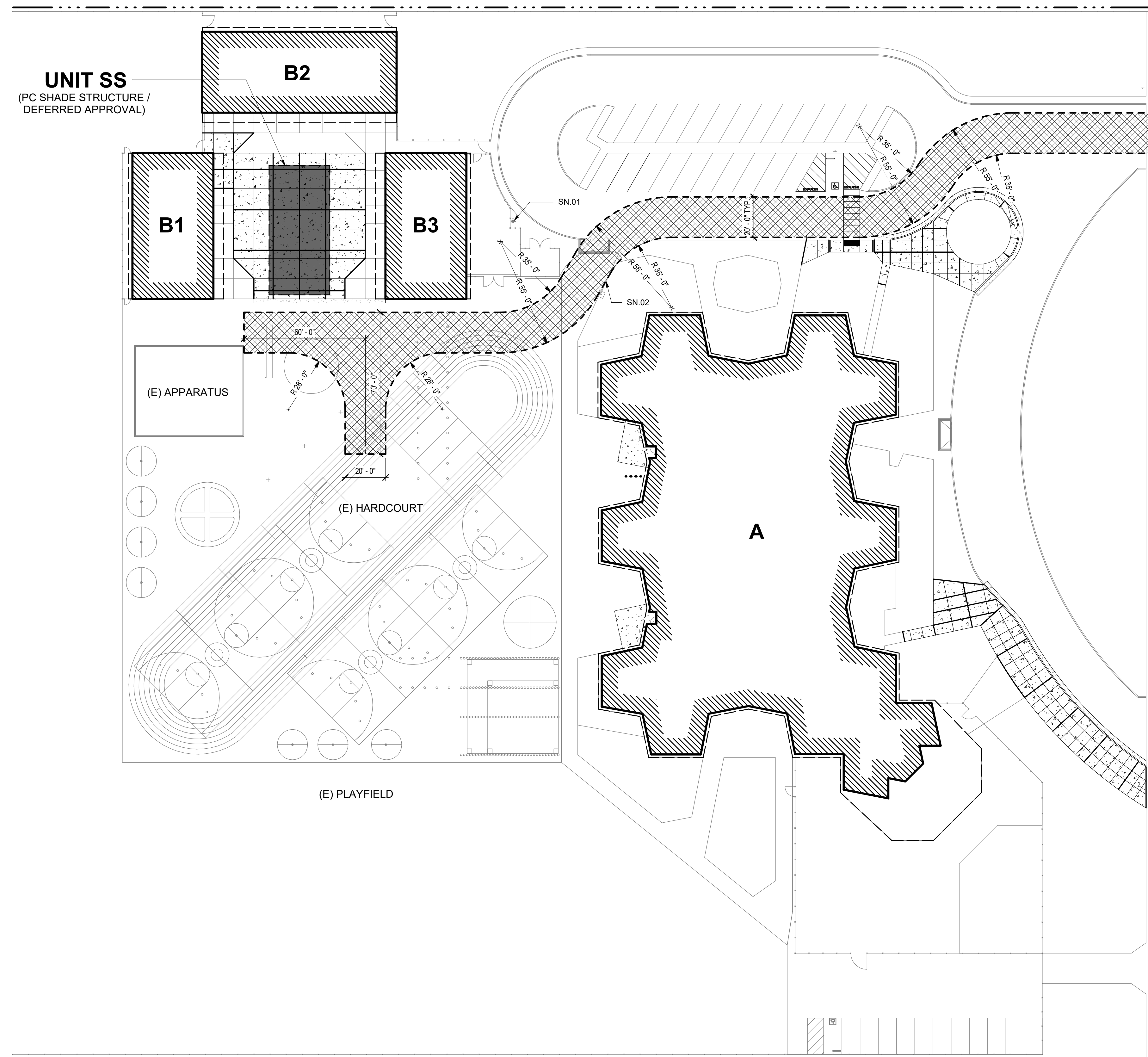
- PROPERTY LINE
- [X] UNIT DESIGNATION SHADE STRUCTURE
- [Hatched] UNIT DESIGNATION EXISTING BUILDINGS
- [Grid] CONCRETE WALK / PAVING
- [Dotted] ASPHALT CONCRETE PAVING
- [Cross-hatched] (E) EMERGENCY ACCESS LANE
- [Dashed] (E) CHAIN LINK FENCE
- [Symbol] (E) FIRE HYDRANT (NTS)

SHEET NOTES

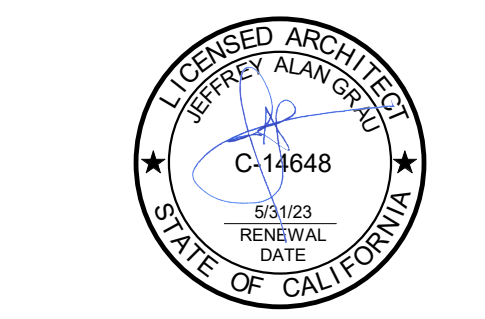
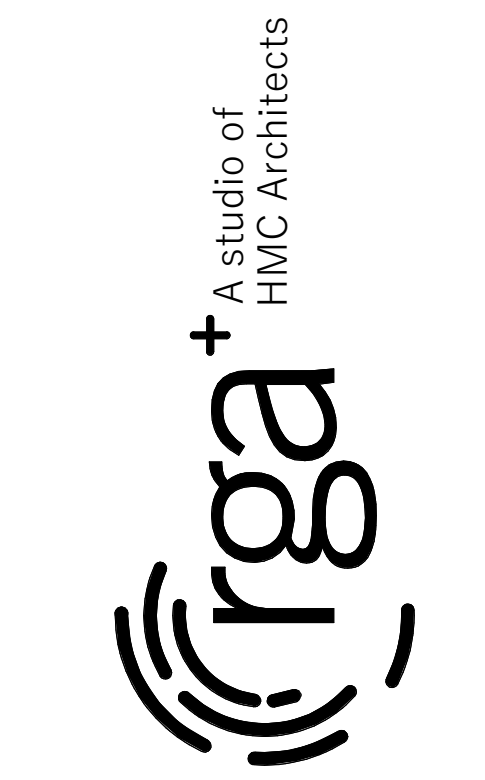
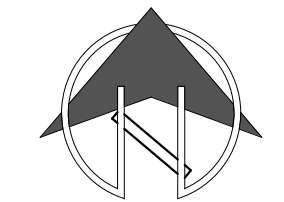
- SN.01 (E) FIRE HYDRANT
- SN.02 (E) 20'-0" SWING ARM GATE WITH KNOX LOCK BOX

BUILDING DESIGNATIONS

- UNIT A - ADMIN. / CLASSROOMS / MULTIPURPOSE
- UNIT B1 - CLASSROOMS
- UNIT B2 - CLASSROOMS
- UNIT B3 - CLASSROOMS



1 LOCAL FIRE AUTHORITY PLAN
 1" = 30'-0"



SHADE STRUCTURE AT CAROLINE WENZEL ELEMENTARY SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision

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LOCAL FIRE AUTHORITY SITE PLAN

SEE OTHER SHEETS FOR CONSTRUCTION

THIS PLAN INCLUDES INFORMATION FOR LOCAL FIRE AUTHORITY APPROVAL ONLY. REFER TO OTHER SHEETS FOR SITE CONSTRUCTION DETAILS.

PROJECT NO. 1504.15
 DATE: 3/22/2022
 SHEET **A0.7**

EXISTING TOPOGRAPHY

- = PROPERTY LINE
- - - = CENTERLINE
- - - = EASEMENT
- ⊙ = PROPERTY CORNER FOUND AS NOTED
- ⊙ = PROPERTY CORNER NOTHING FOUND OR SET
- ⊙ = 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
- 99.99 = 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
- = 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

TBM LIST

NUMBER	DESCRIPTION	NORTHING	EASTING	ELEV
1	CPS CHISELED "+"	10148.31	10095.37	7.71
2	CPS CHISELED "+"	10440.44	10226.69	8.27
3	CPS CHISELED "+"	10356.15	10093.25	8.43
4	CPS CHISELED "+"	10282.02	10300.38	7.91
5	CPS CHISELED "+"	10381.44	10419.77	7.42
6	CPS CHISELED "+"	10040.46	10242.03	8.34
7	CPS CHISELED "+"	9993.97	10331.82	8.51
8	CPS CHISELED "+"	9874.04	10479.84	6.39
9	CPS CHISELED "+"	10109.59	10458.42	7.08
10	CPF BM316-J7C EL=7.57	9704.55	10300.98	7.57

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 RELIEF VALVE
 - ASB AGGREGATE SUB-BASE
 - BO BLOW-OFF VALVE
 - BV BUTTERFLY VALVE
 - BW BACK OF WALK
 - C/L CENTERLINE
 - CB CATCH BASIN
 - CL CLASS
 - CM CORRUGATED METAL PIPE
 - CTV CABLE TELEVISION
 - CO CLEANOUT
 - COMM COMMUNICATION
 - CONC CONCRETE
 - CONST. CONSTRUCTION
 - 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
 - DOWN DOWNHOUT
 - E ELECTRIC
 - EP EDGE OF PAVEMENT
 - EASEMENT EASEMENT
 - 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
 - GR GRATE
 - GR GRATE ELEVATION
 - GRD GRADE
 - GV GATE VALVE
 - HB HOSE BIBB
 - HBD HEADER BOARD
 - HDPE HIGH DENSITY POLYETHYLENE PIPE
 - HP HIGH POINT
 - NW PIPE INVERT ELEVATION
 - JP JOINT UTILITY POLE
 - LF LINEAL FEET
 - LIP LIP OF GUTTER
 - LT LEFT
 - MS MOWSTRIP
 - NTS NOT TO SCALE
 - OH OVERHEAD
 - PC PORTLAND CEMENT CONCRETE
 - PD PLANTER DRAIN
 - PV 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
 - RT RIGHT OF WAY
 - SCH SCHEDULE
 - SD STORM DRAIN
 - SDMH STORM DRAIN MANHOLE
 - SC SUBGRADE ELEVATION
 - SS SANITARY SEWER
 - SSMH SANITARY SEWER MANHOLE
 - STD STANDARD
 - S/W SIDEWALK
 - TELEPHONE 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
 - UN UNDERGROUND
 - UN 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)
- ∞ 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:

- 8" SS SANITARY SEWER LINE (SIZE AND FLOW SHOWN)
- SANITARY SEWER MANHOLE (SSMH)
- ∞ 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
- M GATE VALVE
- FH FIRE HYDRANT ASSEMBLY
- FDC FIRE DEPARTMENT CONNECTION
- DC DETECTOR CHECK VALVE
- DDC DOUBLE DETECTOR CHECK VALVE
- RP REDUCED PRESSURE BACKFLOW PREVENTER
- N BUTTERFLY VALVE
- 1" AIR RELEASE VALVE + SIZE
- 1" BLOW-OFF VALVE + SIZE
- PIV POST INDICATOR VALVE

DEMOLITION GENERAL NOTES

- 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.
- NO BURNING OR BLASTING SHALL BE PERMITTED.
- ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.
- ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.
- ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.
- 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 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.
- 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 EXTENT.
- EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REPLACED WITH NEW BOX/COVER AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
- ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
- 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

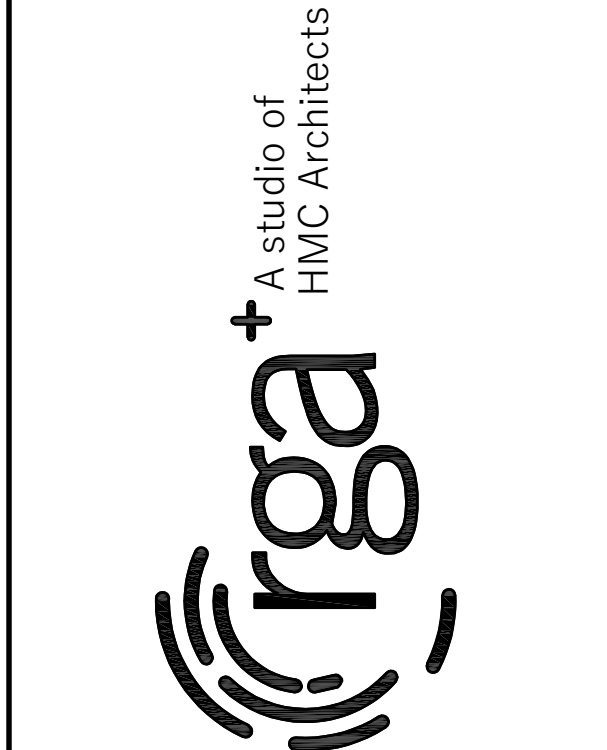
- THE TYPES, LOCATIONS, SIZES, AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A 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.
- WARREN CONSULTING ENGINEERS, INC. (WCE) ASSUMES NO RESPONSIBILITY FOR ERRORS IN PHYSICAL LOCATION OF IMPROVEMENTS, HORIZONTAL OR VERTICAL. 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.
- 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.
- 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.
- 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.
- 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 CONTRACTOR'S RESPONSIBILITY TO DETERMINE, AND INCLUDE IN HIS/HER CONTRACT, ALL MEANS AND METHODS NECESSARY TO PERFORM A COMPLETE AND ACCEPTABLE JOB.
- WHERE IMPROVEMENTS LIE WITHIN AN EXISTING DEVELOPED AREA, CONTRACTOR SHALL USE CAUTION WHEN ACCESSING THE SITE THROUGH THESE EXISTING IMPROVEMENTS. IT IS THE CONTRACTOR'S 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.
- 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.
- 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 CLEAR EDGE REMAINS. IF EDGE IS DAMAGED, A NEW SAW CUT WILL BE REQUIRED. THE EXPOSED EDGE SHALL BE "TACKED" WITH EMULSION PRIOR TO PAVING.
- 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.
- 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.
- ON NEW WATER SYSTEMS, SERVICE LATERALS SHALL BE MADE USING APPROPRIATE "TTEE" AND "WYE" FITTINGS. SADDLE TAPS WILL ONLY BE ALLOWED WHEN MAKING CONNECTIONS TO EXISTING WATER MAINS.
- 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.
- 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.
- 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 ALLOW FOR SUCH STRUCTURE. THAT REBAR ADJUSTMENT MAY NOT BE SPECIFICALLY SHOWN ON PLANS.
- 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.
- 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.
- 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.
- ANY SCORED BOARDS SET WITHIN CONCRETE SLABS SHALL BE AN "OVERHEAD SCREED" SO THERE IS NO INTERFERENCE WITH THE PLACEMENT AND ALIGNMENT OF SLAB REINFORCING.
- 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 CONSTRUCTION.
- 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.
- 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.
- 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:

- 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.
- 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

- C0.1 CIVIL GENERAL NOTES AND ABBREVIATIONS
- C1.1 DEMOLITION PLAN
- C2.1 GRADING AND PAVING PLAN
- C3.1 DETAILS AND SECTIONS



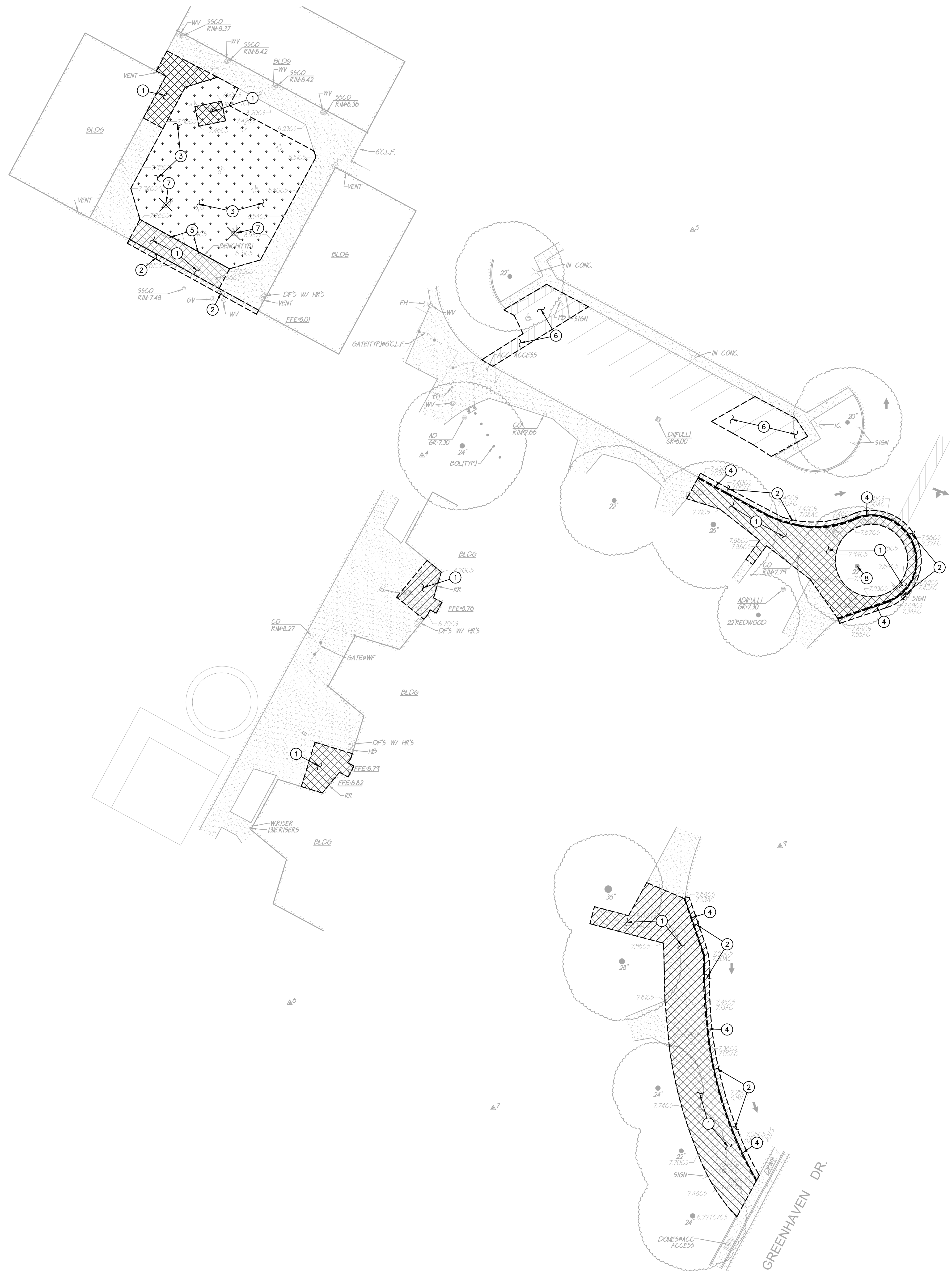
SHADE STRUCTURE AT CAROLINE WENZEL ELEMENTARY SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

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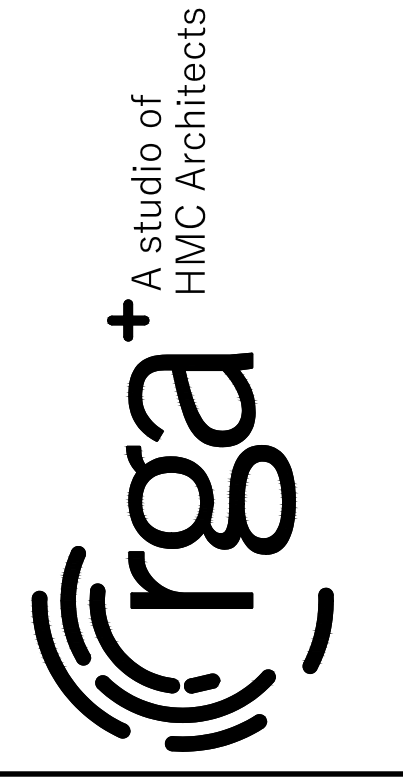
CIVIL GENERAL NOTES AND ABBREVIATIONS

PROJECT NO. 1504.15
 DATE: 3/21/2022
 SHEET

C0.1



- DEMOLITION NOTES**
1. SAWCUT, REMOVE AND DISPOSE OF EXISTING CONCRETE PAVING AND ASSOCIATED AGGREGATE BASE. SAWCUT SHALL BE A NEAT STRAIGHT LINE, MAINTAIN CLEAN, STRAIGHT CUT EDGE UNTIL NEW PAVING IS PLACED.
 2. 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.
 3. 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.
 4. REMOVE AND DISPOSE OF EXISTING CONCRETE CURB.
 5. REMOVE AND SALVAGE EXISTING BENCH.
 6. BLACK OUT EXISTING STRIPING.
 7. REMOVE DISPOSE OF EXISTING TREE, DRUNK AND ASSOCIATED ROOTS.
 8. EXISTING TREE TO REMAIN.

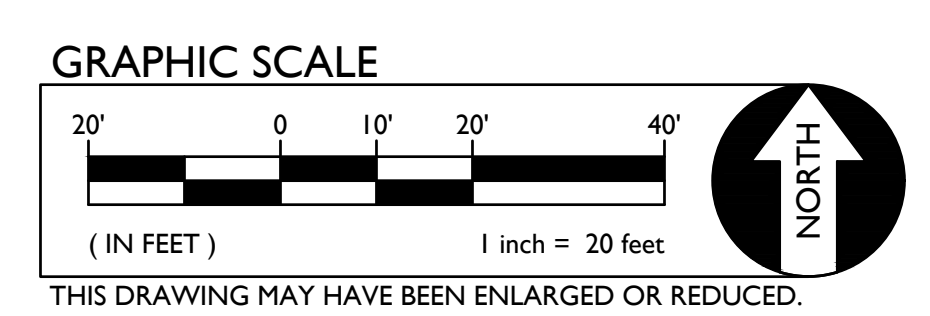


SHADE STRUCTURE AT CAROLINE WENZEL ELEMENTARY SCHOOL

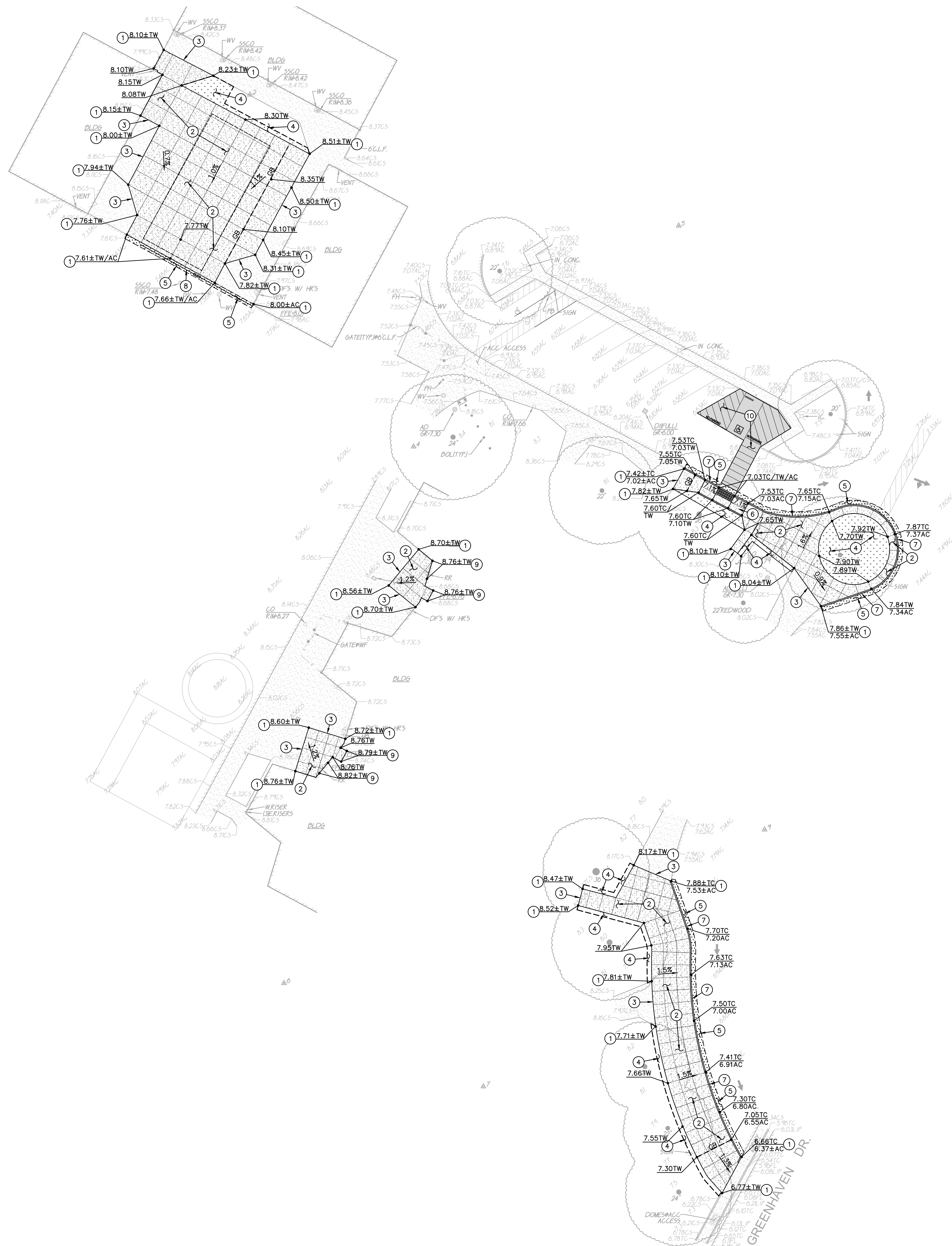
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
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DEMOLITION PLAN



PROJECT NO. 1504.15
DATE: 3/21/2022
SHEET C1.1

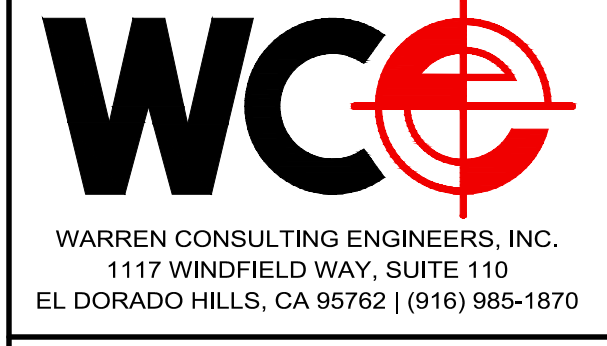
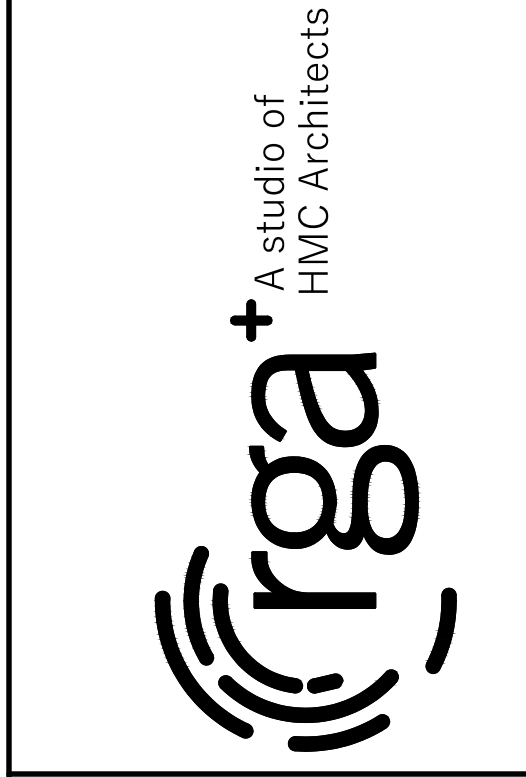


SUBGRADE PREPARATION

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 NOTES

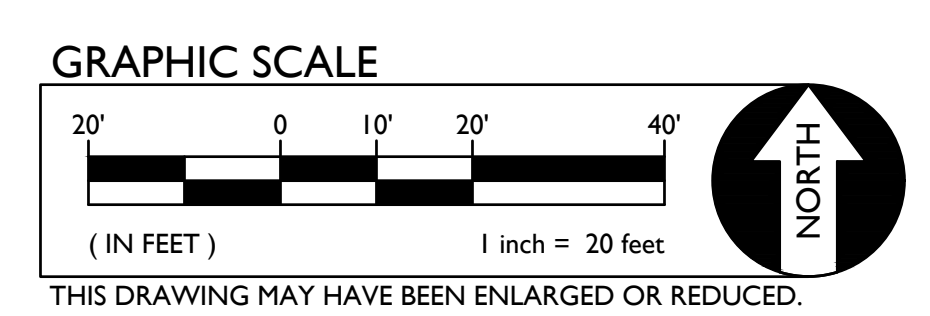
1. MATCH EXISTING GRADE/ELEVATION.
2. CONSTRUCT CONCRETE SIDEWALK PER $\frac{1}{C3.1}$
PLACE 5" PCC WITH #4 REBAR AT 24" O.C.E.W.
OVER 12" CL2 AGGREGATE BASE ON COMPACTED SUBGRADE.
3. DOWEL INTO EXISTING CONCRETE PER $\frac{1}{C3.1}$
4. PLACE SOD IN ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES THAT ARE NOT TO RECEIVE PAVEMENT. PROVIDE NEW SPRINKLER HEADS AND PIPING AS REQUIRED TO ACHIEVE PROPER COVERAGE.
5. PLACE 3" AC OVER 12" AB ON COMPACTED SUBGRADE.
6. CONSTRUCT ACCESSIBLE CURB RAMP PER $\frac{3}{C3.1}$
7. CONSTRUCT CONCRETE CURB PER $\frac{2}{C3.1}$
8. REFER TO ELECTRICAL PLANS FOR CONDUIT PLACEMENT AND DETAILING.
9. PROPOSED SIDEWALK ELEVATION SHALL MEET FLUSH WITH EXISTING FINISH FLOOR.
5. CRACK FILL AND PLACE TWO (2) APPLICATIONS OF SEAL COAT PRIOR TO STRIPING.



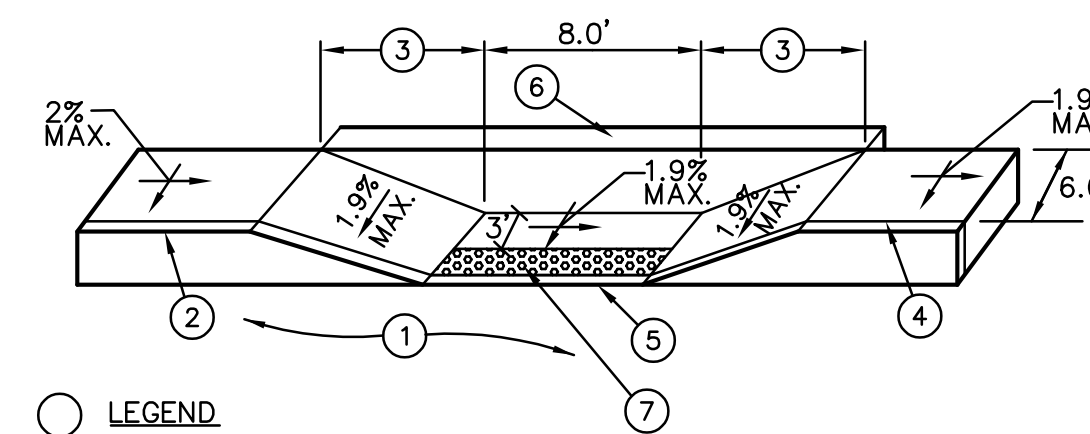
SHADE STRUCTURE AT CAROLINE WENZEL ELEMENTARY SCHOOL
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GRADING AND PAVING PLAN

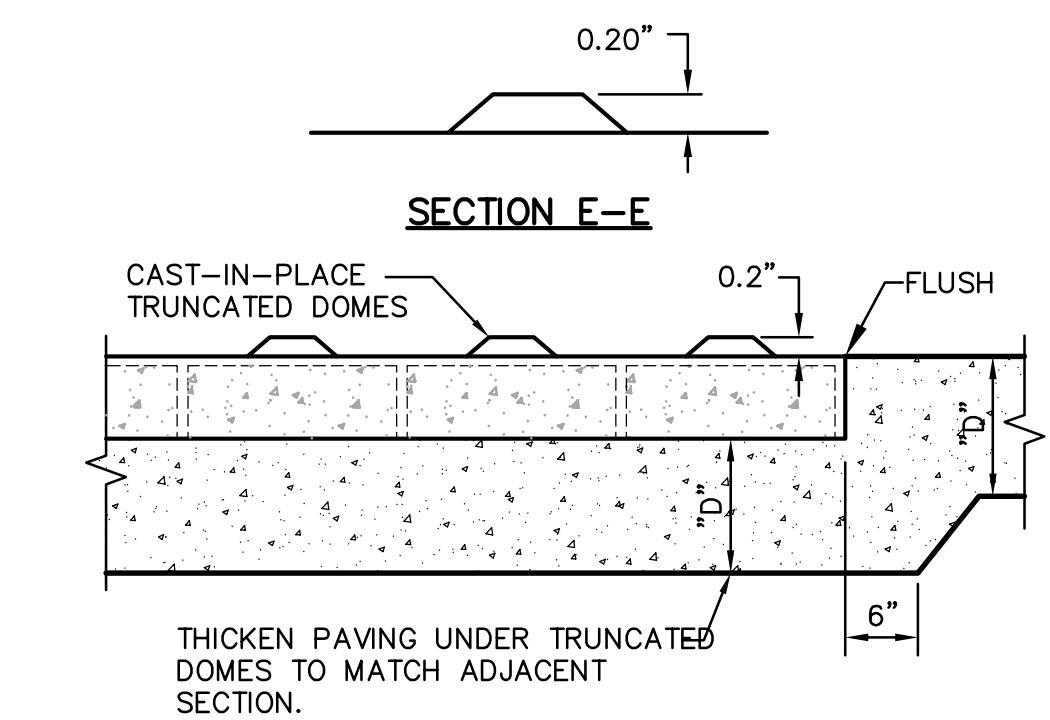
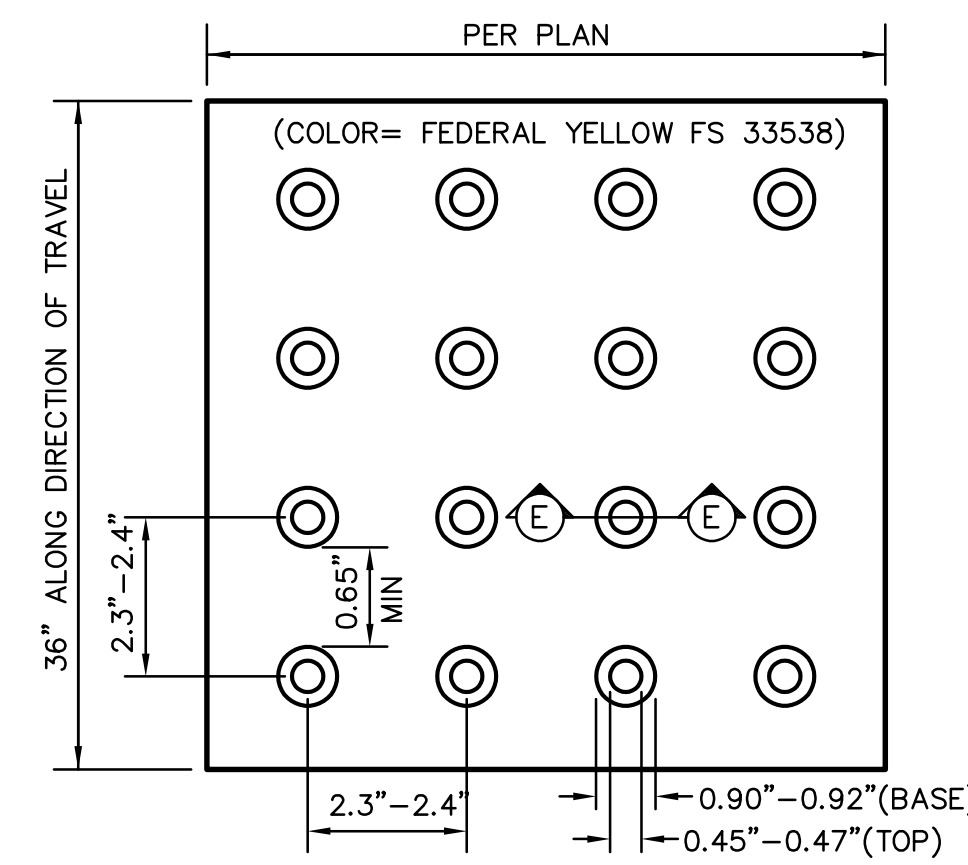


PROJECT NO. 1504.15
DATE: 3/21/2022
SHEET **C2.1**

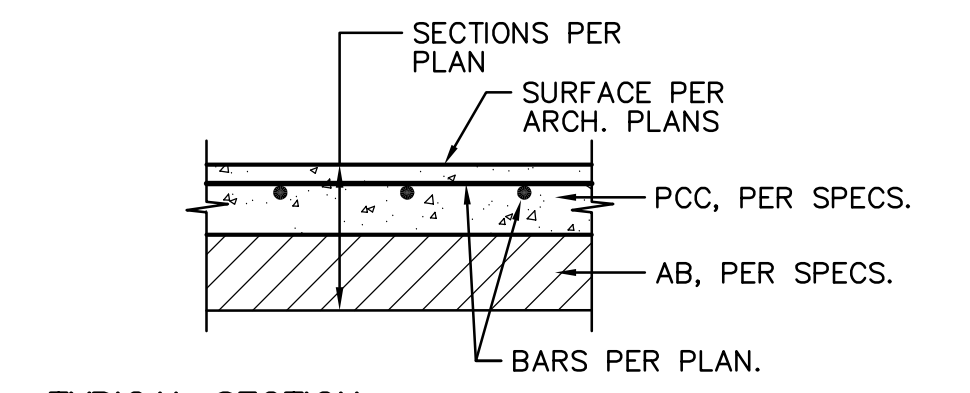


- LEGEND**
- PAVEMENT.
 - TOP FACE OF CURB, STANDARD 6" HIGH.
 - 8.3% (1:12) MAXIMUM SLOPE, 2% MAX CROSS SLOPE.
 - SCORE MARK, 6" BACK OF CURB.
 - TRANSITION SHALL BE FLUSH AND FREE OF ABRUPT CHANGE PER CALIFORNIA BUILDING CODE, TITLE 24, SECTION 11B-406.5.8.
 - 6" WIDE RETAINING CURB, HEIGHT TO BE DETERMINED BY PROJECTED BACK OF WALK GRADE AT EACH END OF CURB RETURN AND BACK OF LANDING SURFACE.
 - PLACE 36" WIDE PREFABRICATED CAST IN PLACE DETECTABLE WARNING TILE BY ARMOR-TILE OR APPROVED EQUAL DETECTABLE WARNING TILE SHALL EXTEND THE FULL WIDTH OF THE TURNING SPACE AT THE FLUSH TRANSITION BETWEEN THE STREET AND THE SIDEWALK LESS 2 INCHES MAXIMUM ON EACH SIDE PER 11B-705.1.2.2.

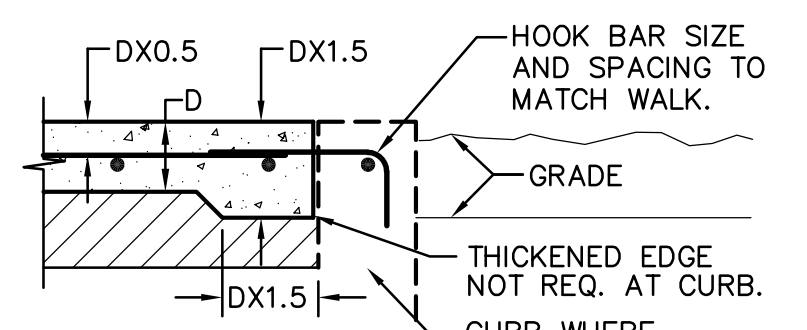
3 ACCESSIBLE CURB RAMP
NO SCALE



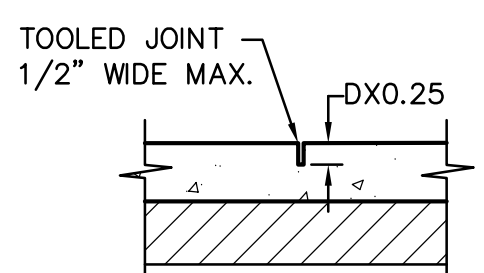
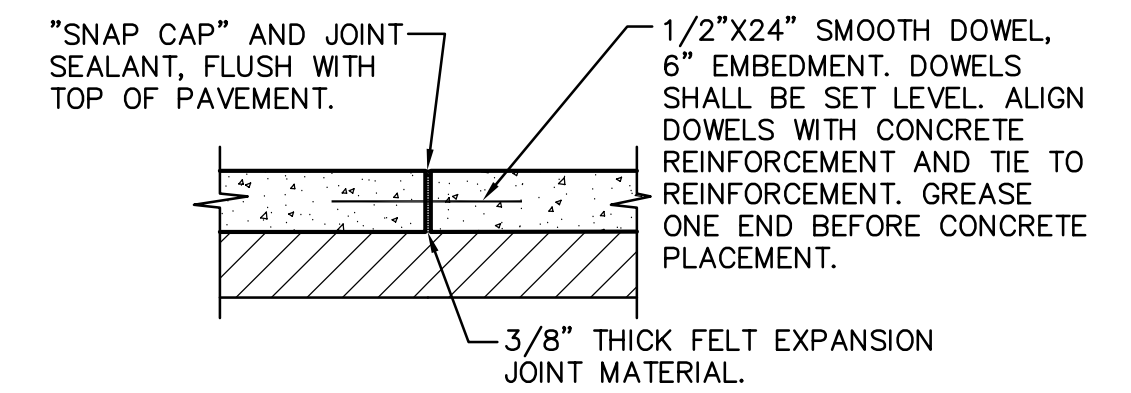
4 TRUNCATED DOMES
NO SCALE



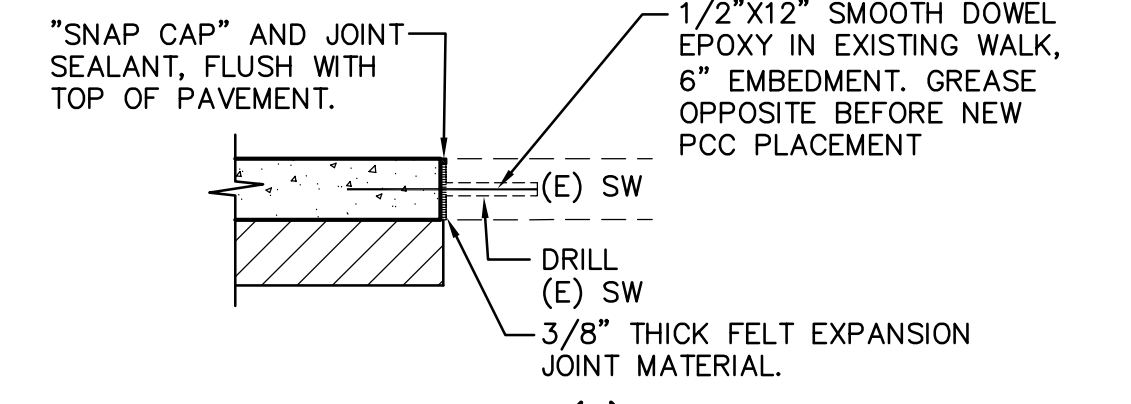
TYPICAL SECTION



TYPICAL THICKENED EDGE



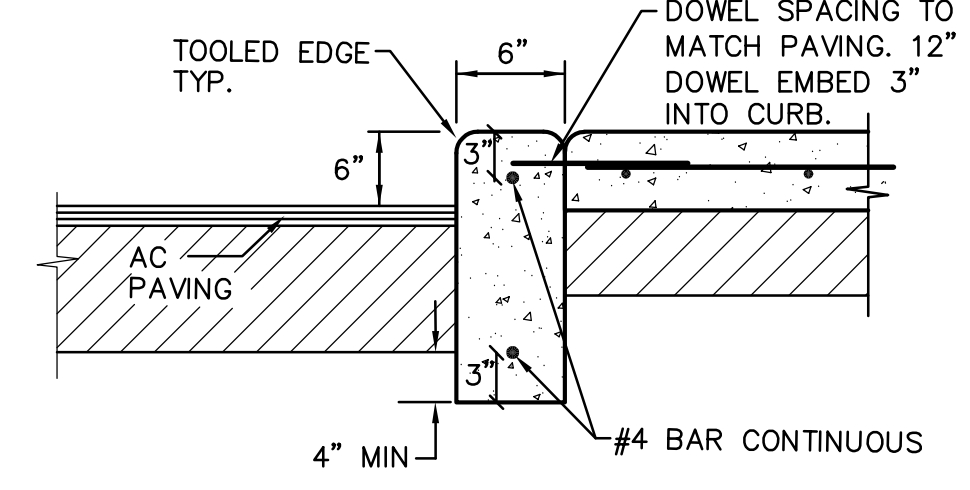
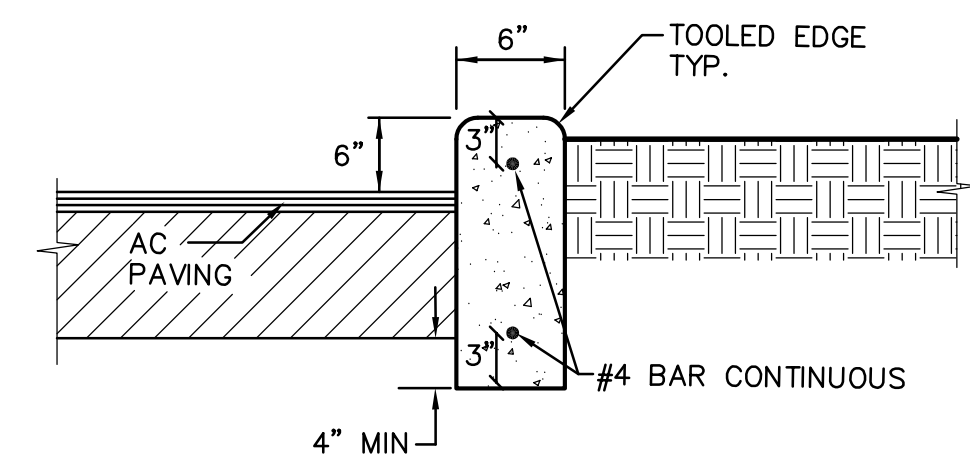
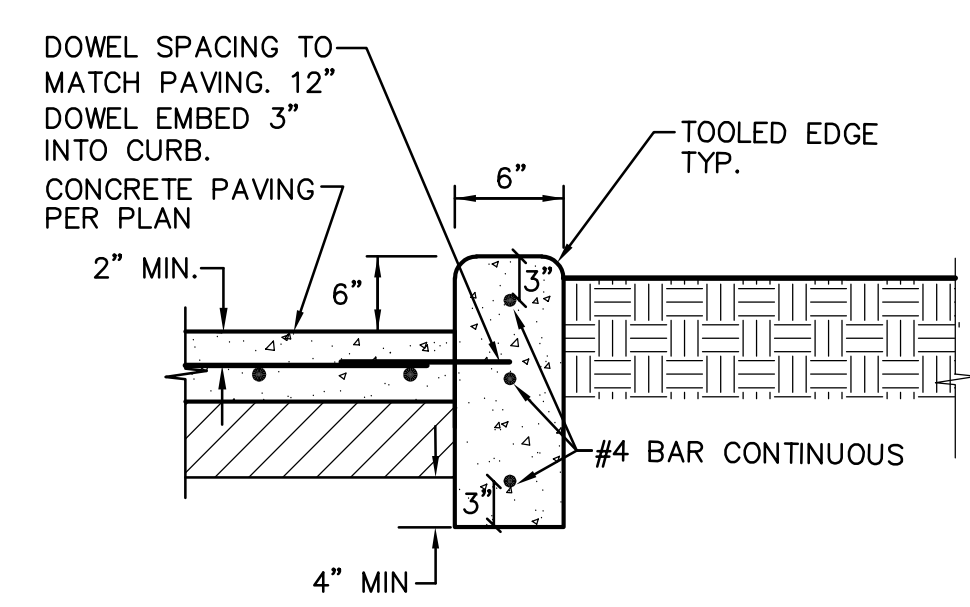
TYPICAL JOINTS



CONNECTION TO (E) CONCRETE

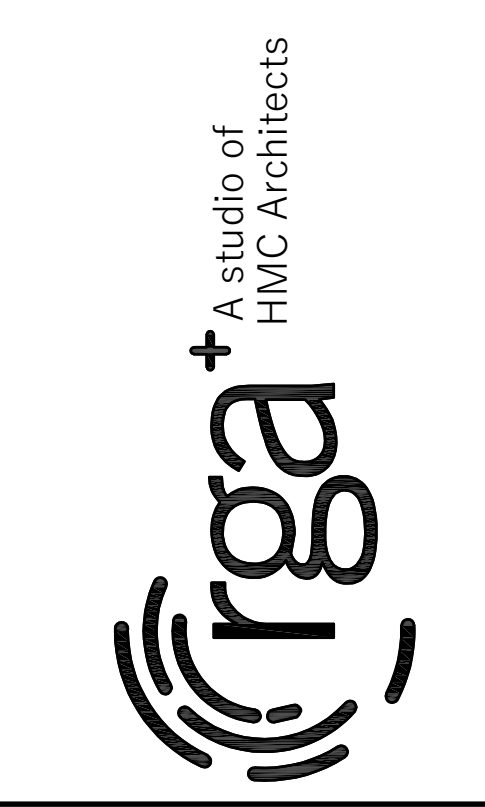
- NOTES:**
- PROVIDE FELT EXPANSION JOINTS AT 20 FEET O.C. MAX.
 - PROVIDE CONTROL JOINTS AT 10 FEET O.C. MAX.
 - EXPANSION OR CONTROL JOINTS SHALL NOT EXCEED 1/2" IN SURFACE WIDTH.

1 CONCRETE SIDEWALK
NO SCALE



- NOTES:**
- PROVIDE FELT EXPANSION JOINTS (E.J.) AT 60 FEET O.C. MAXIMUM PROVIDE CONTROL JOINTS AT 10 FEET O.C. MAXIMUM, EXCEPT WHEN PLACING ADJACENT TO CONCRETE WALKS THE EXPANSION JOINTS SHALL ALIGN WITH THE EXPANSION JOINTS SHOWN FOR THE CONCRETE WALKS.
 - AT E.J. USE 1/2" X 24" SMOOTH DOWELS, ALIGN WITH REBAR, GREASE 1/2 THE LENGTH BEFORE CONCRETE PLACEMENT.

2 CONCRETE CURB
NO SCALE



SHADE STRUCTURE AT CAROLINE WENZEL ELEMENTARY SCHOOL
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DETAILS AND SECTIONS

PROJECT NO. 1504.15
DATE: 3/21/2022
SHEET

C3.1

PROPOSED SHADE STRUCTURE					
UNIT	DESCRIPTION	OCCUPANCY	CONSTRUCTION TYPE	ALLOWABLE AREA (TABLE 506.2)	OCCUPANCY CALCULATION
SS	SHADE STRUCTURE	A-3	V-B NON-SPRINKLERED	6,000 S.F.	1,920 S.F. / 15 NET = 128 OCC.

EXISTING BUILDING DESIGNATIONS				
UNIT	DESCRIPTION	DSA APPLICATION #	AREA (SF)	NOTES
A	ADMIN. / MULTIPURPOSE / CLASSROOMS	29302, 02-105536, THIS APPLICATION	25,466	
B1	RELOCATABLE CLASSROOMS	02-105536	2,880	
B2	RELOCATABLE CLASSROOMS	02-105536	3,840	
B3	RELOCATABLE CLASSROOMS	02-105536	2,880	

LEGEND

- PROPERTY LINE
- ASSUMED PROPERTY LINE
- UNIT DESIGNATION
- PC SHADE STRUCTURE / DEFERRED APPROVAL
- EXISTING BUILDINGS
- EXPANSION JOINT
- CONCRETE WALK / PAVING
- CONTROL JOINT
- ASPHALT CONCRETE PAVING
- ACCESSIBLE PATH OF TRAVEL

EXISTING PATH OF TRAVEL (POT): ARCHITECT STATEMENT

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE IN CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION 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 POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NON-COMPLIANT

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

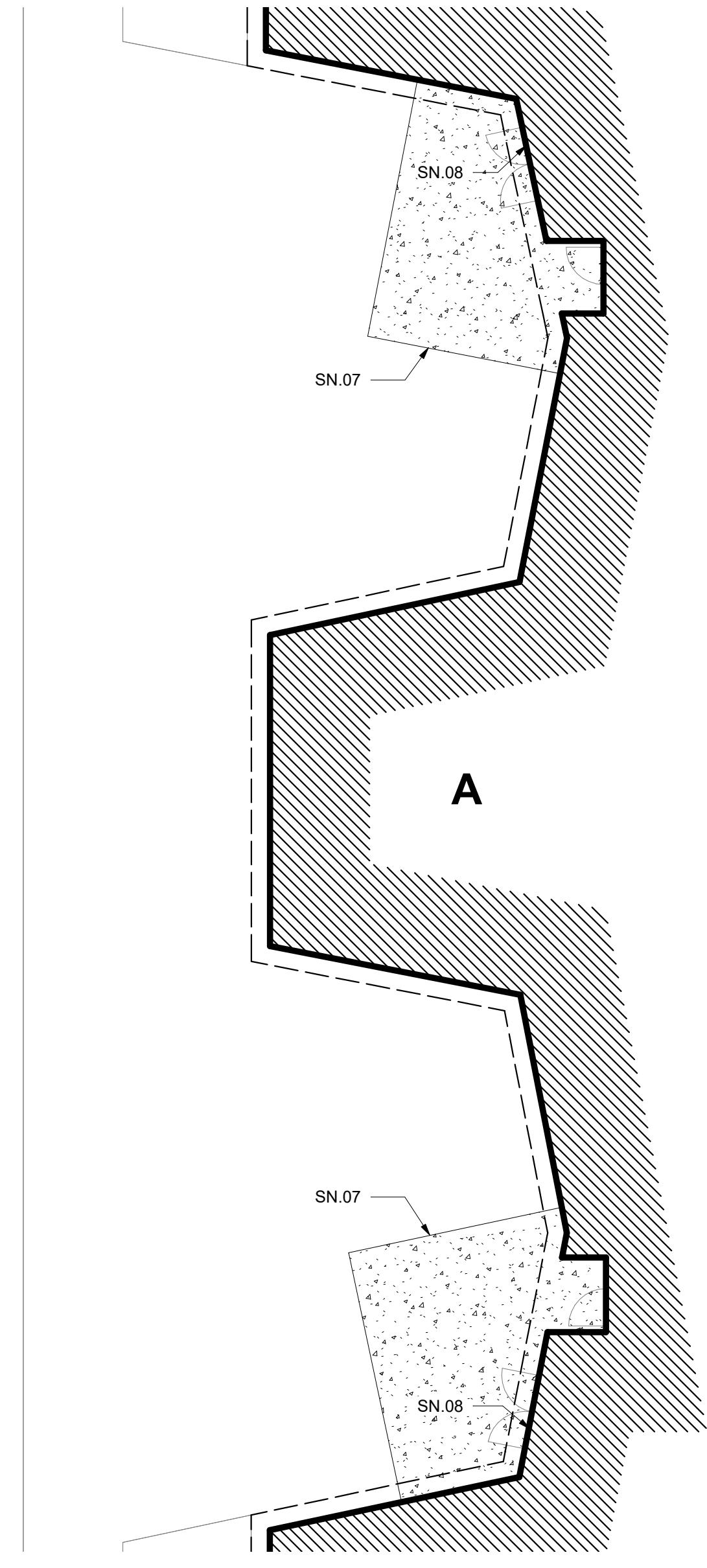
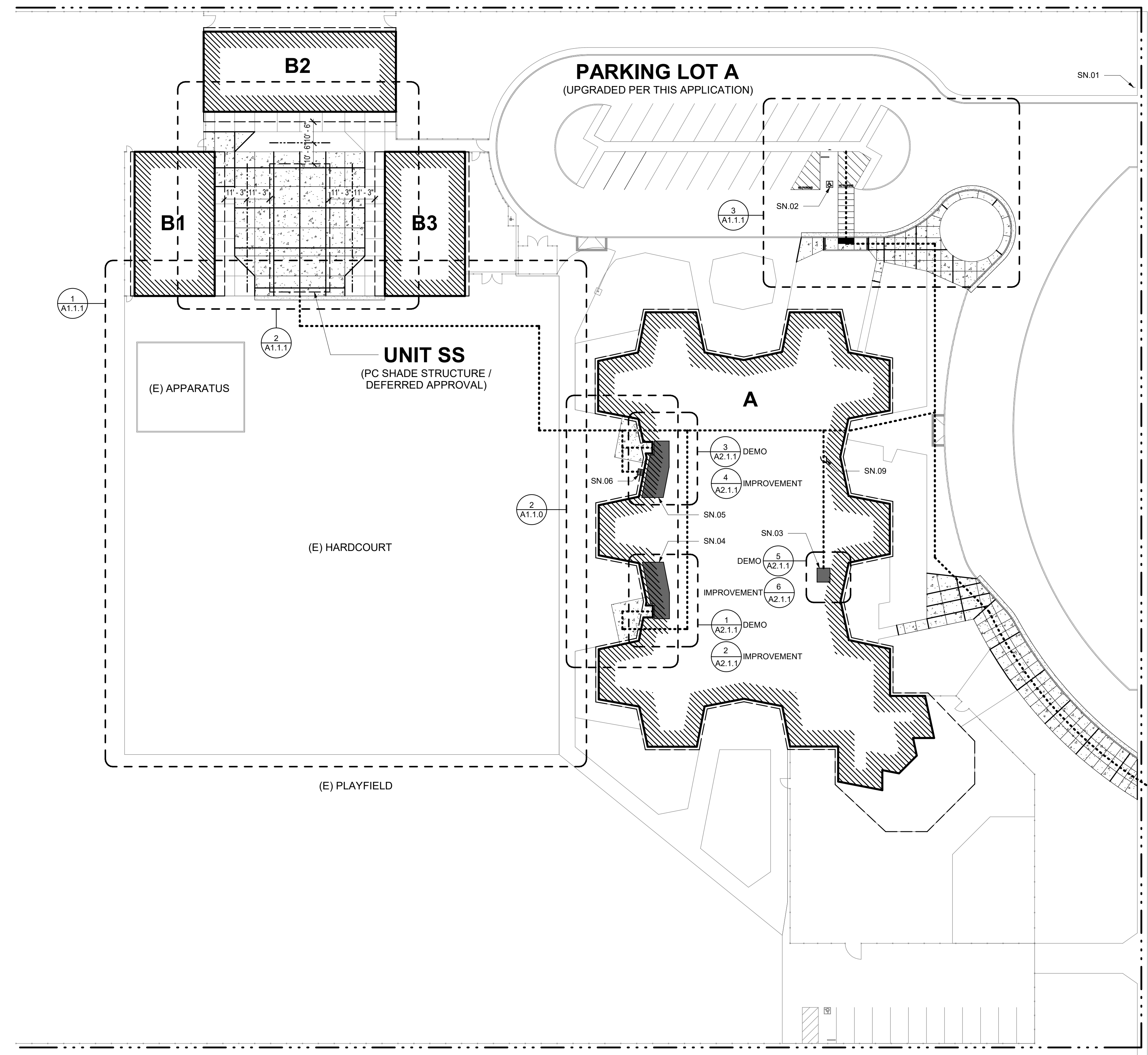
ANY NON-COMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARSHNESS ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NON-COMPLYING 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.

ACCESSIBLE PARKING STALL CALCULATION

TOTAL PARKING STALL COUNT:	24 STALLS
ACCESSIBLE PARKING STALLS:	(TABLE 11B-208.2)
REQUIRED ACCESSIBLE STALLS:	1 (1/25 TOTAL STALLS)
REQUIRED VAN ACCESSIBLE STALLS:	1 (1-6 ACCESSIBLE STALLS)
ACCESSIBLE STALLS PROVIDED:	1 VAN

- SITE WALKWAYS SHALL PROVIDE A BARRIER-FREE P.O.T. ABRUPT CHANGES IN LEVEL ALONG ANY P.O.T. ARE ALLOWED UP TO 1/2" ONLY. ABRUPT CHANGES IN ELEVATION UP TO 1/4" ARE ALLOWED TO HAVE A VERTICAL TRANSITION. ABRUPT CHANGES IN ELEVATION BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:1 UNIT VERTICAL TO 2 UNITS HORIZONTAL.
- WALKWAYS SHALL BE FREE OF GRATINGS WHEREVER POSSIBLE. GRATINGS WHICH OCCUR WITHIN THE P.O.T. SHALL HAVE OPENINGS WHICH DO NOT EXCEED 1/2" IN THE DIRECTION OF TRAVEL PER CBC SECTION 11B-302.3.
- AN ABRUPT DROP-OFF CHANGE IN ELEVATION AT THE EDGE OF ANY WALK INTO AN ADJACENT PLANTER SHALL NOT EXCEED 4".
- SLOPES IN THE DIRECTION OF THE P.O.T. GREATER THAN 1:1 UNIT VERTICAL TO 20 UNITS HORIZONTAL SHALL BE CONSIDERED A RAMP AND WILL REQUIRE HANDRAILS ON BOTH SIDES PER CBC SECTION 11B-506. SLOPES IN THE DIRECTION OF THE P.O.T. ALONG WALKWAYS SHALL NOT EXCEED 5%. CROSS SLOPES IN THE P.O.T. ALONG WALKWAYS SHALL NOT EXCEED 2%.
- ALL WALKWAYS WITHIN THE P.O.T. SHALL BE A MINIMUM OF 48" IN WIDTH. SURFACES WITH A SLOPE OF 5% OR LESS SHALL BE AT LEAST AS SLIP-RESISTANT AS THAT PROVIDED BY A LIGHT BROOM FINISH. SURFACES WITH A SLOPE OF MORE THAN 5% SHALL BE AT LEAST AS SLIP-RESISTANT AS THAT PROVIDED BY A MEDIUM BROOM FINISH.
- OBJECTS PROTRUDING INTO THE P.O.T. SHALL NOT REDUCE THE CLEAR WIDTH OR MANEUVERING SPACE WITHIN THE P.O.T. PER CBC SECTION 11B-307.
- PASSING SPACES (11B-403.5.3) OF 60" X 60" MIN. ARE LOCATED NOT MORE THAN 200' APART. WALKS WITH CONTINUOUS GRADIENTS SHALL HAVE 60" IN LENGTH LEVEL RESTING AREAS (11B-403.7) NOT MORE THAN 400' APART. P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 60" MIN (11B-307.4) AND FREE OF PROTRUDING OBJECTS (11B-307) GREATER THAN 4" PROJECTION FROM WALL ABOVE 27" AND LESS THAN 80". OBJECTS PROTRUDING INTO THE P.O.T. SHALL NOT REDUCE THE CLEAR WIDTH OR MANEUVERING SPACE REQUIRED FOR ACCESSIBLE ROUTES (11B-307.5).

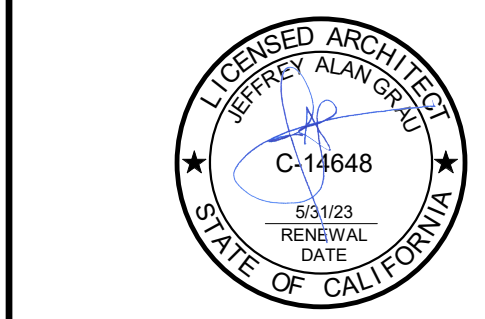
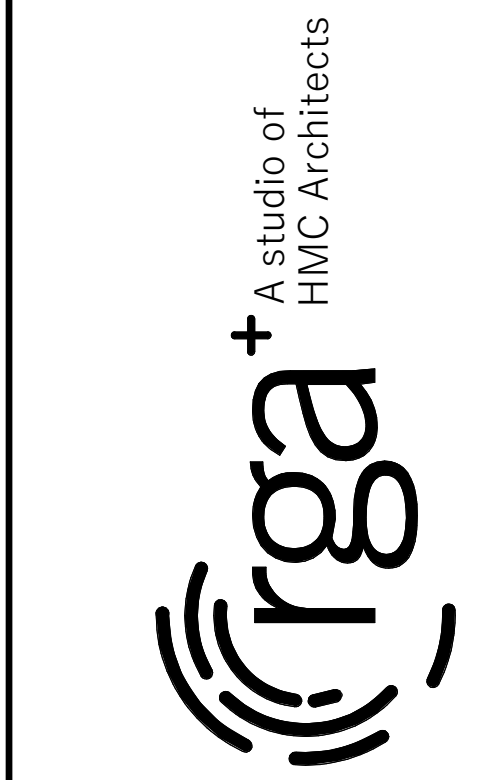


1 SITE PLAN
1" = 30'-0"

2 ENLARGED PLAN - P.O.T.
1" = 10'-0"

SHEET NOTES

- SN 01 (E) PARKING LOT ENTRANCE SIGN REVIEWED AND VERIFIED PER THIS APPLICATION
- SN 02 ACCESSIBLE PARKING STALLS PER THIS APPLICATION
- SN 03 (E) ACCESSIBLE STAFF TOILET ROOM UPGRADED PER THIS APPLICATION
- SN 04 (E) ACCESSIBLE GIRL'S TOILET ROOM UPGRADED PER THIS APPLICATION
- SN 05 (E) ACCESSIBLE BOYS TOILET ROOM UPGRADED PER THIS APPLICATION
- SN 06 (E) ACCESSIBLE DRINKING FOUNTAIN PER DSA APPLICATION #02-105536
- SN 07 INSTALL NEW CONCRETE WITH 2% MAX. SLOPE IN ALL DIRECTIONS. EDGES TO HAVE A FLUSH TRANSITION TO (E) SLAB. SEE
- SN 08 REMOVE (E) DOOR THRESHOLD. INSTALL NEW DOOR THRESHOLD PER
- SN 09 REMOVE (E) SWING GATE ALONG P.O.T. TO (E) STAFF TOILET ROOM UPGRADED PER THIS APPLICATION



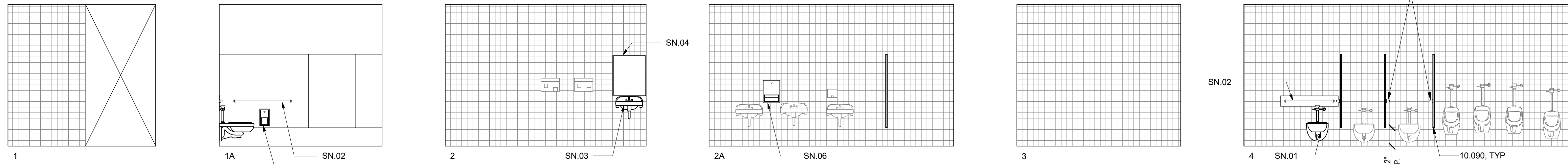
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SITE PLAN AND CODE INFORMATION

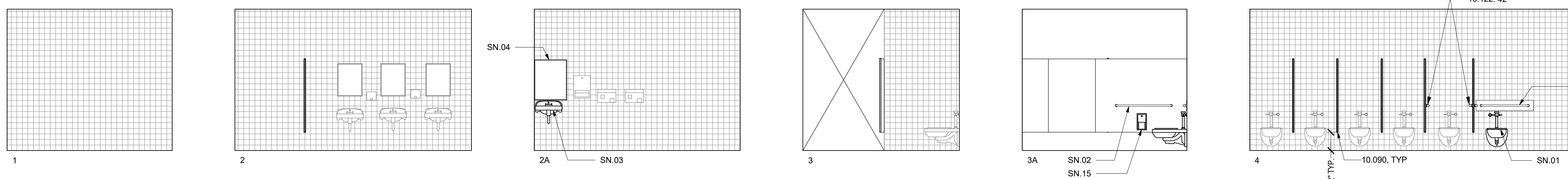
PROJECT NO. 1504.15
 DATE: 3/22/2022
 SHEET A11.0

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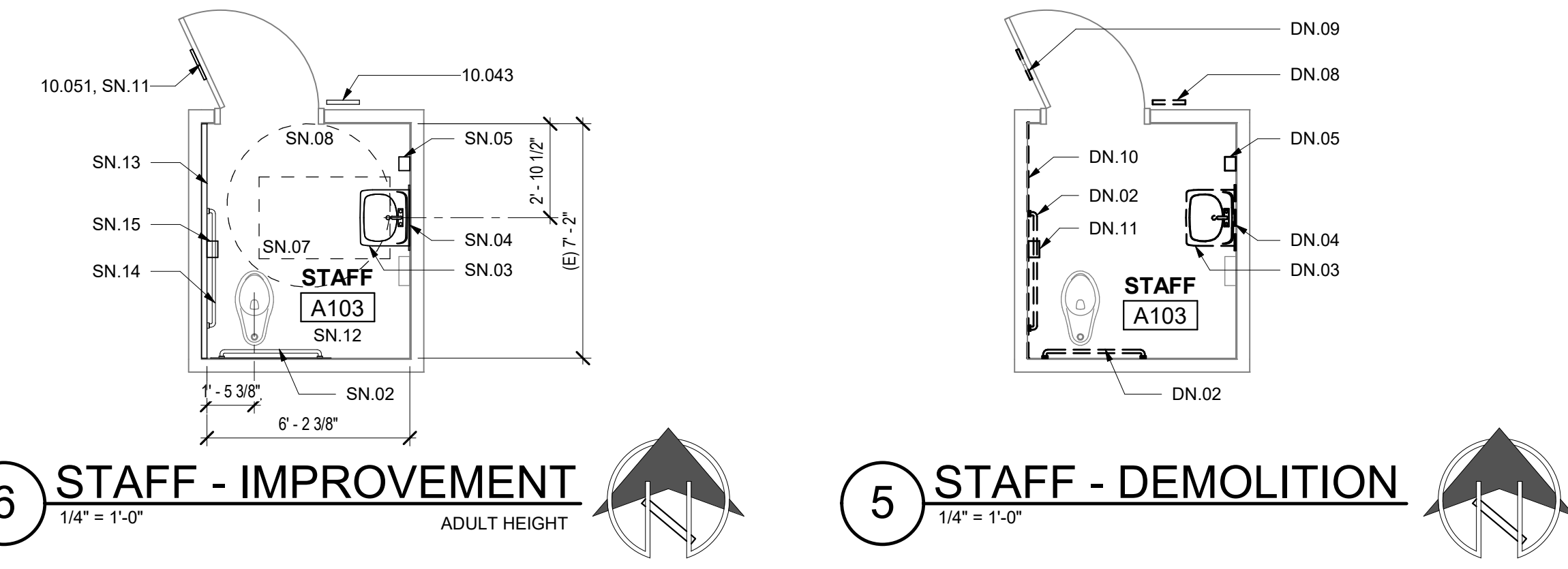
A101 - BOYS
1/4" = 1'-0"

ADULT HEIGHT



A102 - GIRLS
1/4" = 1'-0"

ADULT HEIGHT

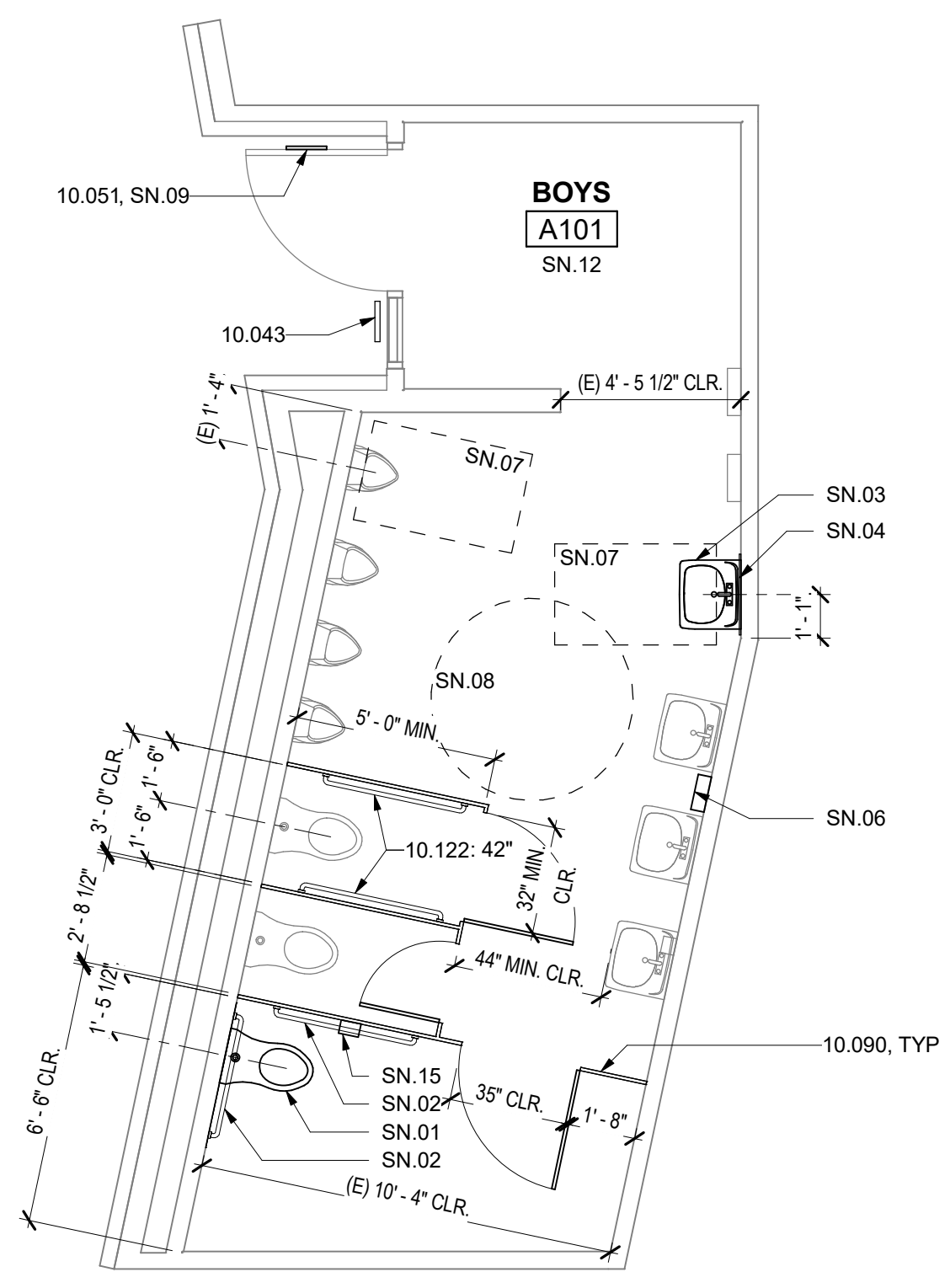


6 STAFF - IMPROVEMENT
1/4" = 1'-0"

5 STAFF - DEMOLITION
1/4" = 1'-0"

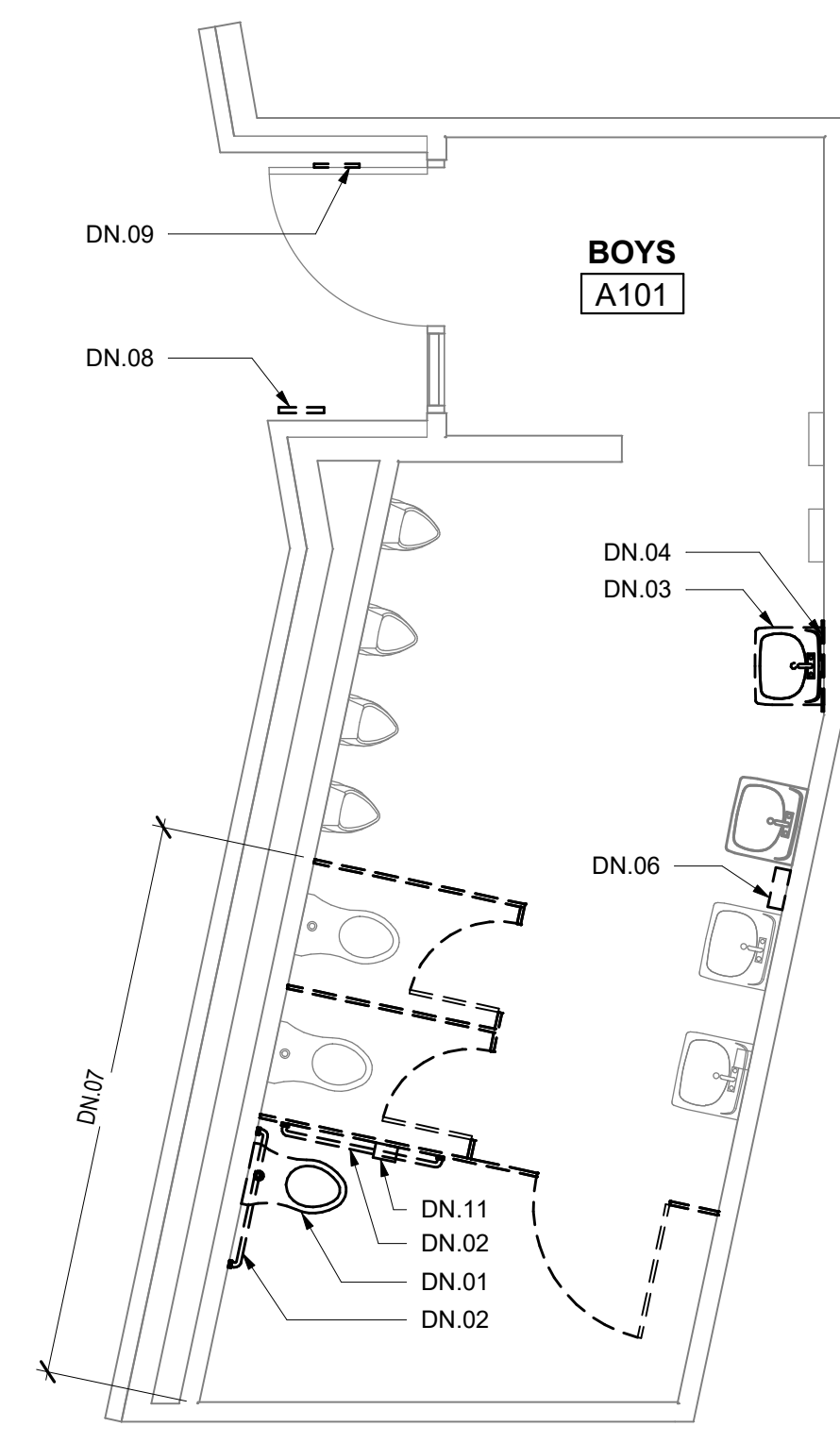
A103 - STAFF
1/4" = 1'-0"

ADULT HEIGHT



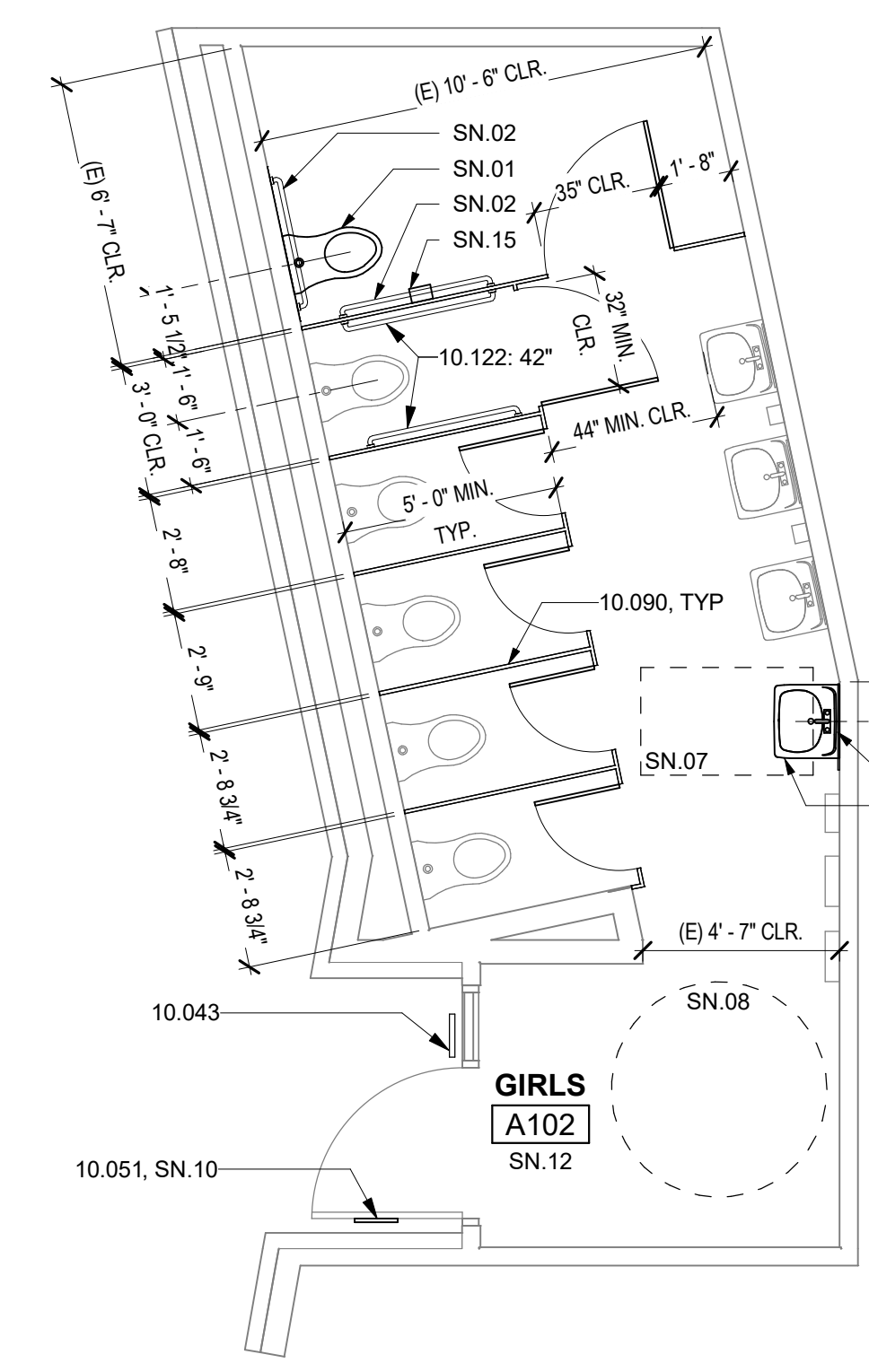
4 BOYS - IMPROVEMENT
1/4" = 1'-0"

ADULT HEIGHT



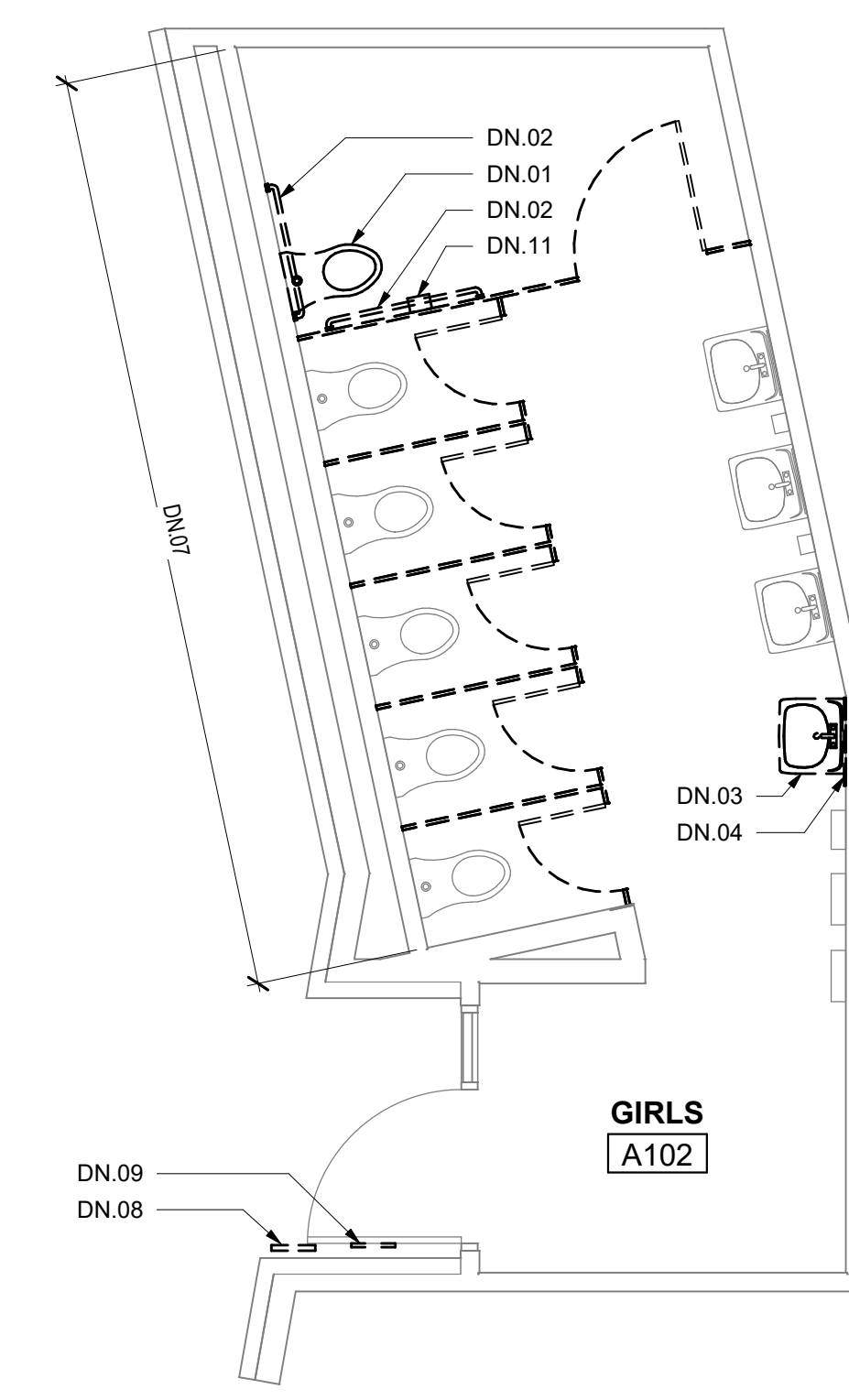
3 BOYS - DEMOLITION
1/4" = 1'-0"

ADULT HEIGHT



2 GIRLS - IMPROVEMENT
1/4" = 1'-0"

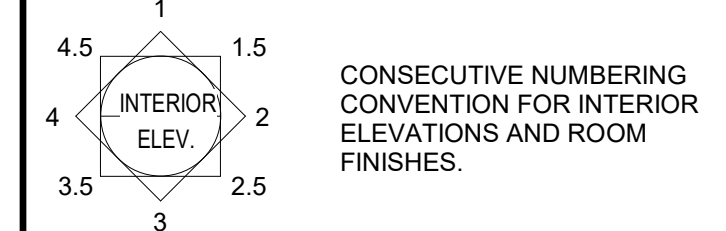
ADULT HEIGHT



1 GIRLS - DEMOLITION
1/4" = 1'-0"

ADULT HEIGHT

LEGEND



CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ELEVATIONS AND ROOM FINISHES.

GENERAL NOTES

- FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.2
- PROTECT ALL ADJACENT SURFACES, ITEMS AND FINISHES NOT NOTED TO BE DEMOLISHED.
- 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.
- REMOVE ALL ITEMS SCHEDULED TO BE REMOVED, INCLUDING MOUNTING HARDWARE.
- DEMO AND REPAIR WALL FINISH AS NECESSARY TO PERFORM FIXTURE AND EQUIPMENT WORK AS NOTED. ADJACENT FINISHES TO BE VERIFIED BY CONTRACTOR.

DEMOLITION NOTES

- REMOVE (E) WALL-MOUNTED WATER CLOSET AND SALVAGE FOR REINSTALLATION
- REMOVE (E) GRAB BARS AND SALVAGE FOR REINSTALLATION
- REMOVE (E) LAVATORY AND SALVAGE FOR REINSTALLATION
- REMOVE (E) MIRROR AND SALVAGE FOR REINSTALLATION
- REMOVE (E) SOAP DISPENSER AND SALVAGE FOR REINSTALLATION
- REMOVE (E) PAPER TOWEL DISPENSER AND SALVAGE FOR REINSTALLATION
- REMOVE (E) TOILET PARTITION AND TOILET PARTITION DOOR
- REMOVE (E) TOILET ROOM I.D. SIGN
- REMOVE (E) TOILET ROOM DOOR SYMBOL
- REMOVE (E) TILE FINISH FROM THIS WALL ONLY
- REMOVE (E) TOILET PAPER DISPENSER AND SALVAGE FOR REINSTALLATION

SHEET NOTES

- REINSTALL (E) SALVAGED WALL-MOUNTED WATER CLOSET TO COMPLY WITH A0.2. ADJUST (E) WATER CARRIER AS REQUIRED FOR RECONNECTION TO WATER CLOSET. RECONNECT TO (E) WATER LINE, WASTE LINE AND VENT.
- REINSTALL (E) SALVAGED GRAB BARS TO COMPLY WITH A0.2
- REINSTALL (E) SALVAGED LAVATORY TO COMPLY WITH A0.2. ADJUST (E) WATER CARRIER AS REQUIRED FOR RECONNECTION TO LAVATORY. RECONNECT TO (E) WATER LINE, WASTE LINE AND VENT
- REINSTALL (E) SALVAGED MIRROR TO COMPLY WITH A0.2
- REINSTALL (E) SALVAGED SOAP DISPENSER TO COMPLY WITH A0.2
- REINSTALL (E) SALVAGED PAPER TOWEL DISPENSER TO COMPLY WITH A0.2
- 30" X 48" CLEAR SPACE
- 80" DIA. TURNING CIRCLE
- SIGN TO READ "BOYS"
- SIGN TO READ "GIRLS"
- SIGN TO READ "STAFF"
- WRAP ALL EXPOSED PIPES WITH INSULATION AT LAVATORIES
- FURRED WALL PER
- REINSTALL (E) SALVAGED GRAB BAR TO COMPLY WITH A0.2 AND PER
- REINSTALL (E) SALVAGED TOILET PAPER DISPENSER TO COMPLY WITH A0.2

KEYNOTES

- 10.043 SIGNAGE: TOILET ROOM IDENTIFICATION
- 10.051 SIGNAGE: TOILET ROOM DOOR SYMBOL
- 10.090 COMPOSITE TOILET COMPARTMENT
- 10.122 TOILET ACCESSORY: GRAB BAR

SHADE STRUCTURE AT CAROLINE WENZEL ELEMENTARY SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

SACRAMENTO, CA

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TOILET ROOM DEMOLITION AND IMPROVEMENT PLANS AND INTERIOR ELEVATIONS

UNIT A
PROJECT NO. 1504.15
DATE: 3/22/2022
SHEET A2.1.1

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ABBREVIATION LIST

@ AT
 A AMPERE
 AC ALTERNATING CURRENT
 A/C AIR CONDITIONING
 AER ARC ENERGY REDUCTION
 AF AMP FRAME
 AFF ABOVE FINISHED FLOOR
 AIC AMPERES INTERRUPTING CAPACITY
 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
 EQ END OF LINE DEVICE
 EQUIP EQUIPMENT
 (ER) EXISTING RELOCATED
 EWH ELECTRICAL WATER COOLER
 EWH ELECTRICAL WATER HEATER
 (F) FUTURE
 FAFC FIRE ALARM CONTROL PANEL
 FAEP FIRE ALARM EXTENDER PANEL
 FATC FIRE ALARM TERMINAL CABINET
 FBO FURNISHED BY OTHERS
 FLUOR FLUORESCENT
 FLR FLOOR
 FT FOOT
 GA GAUGE
 GFCI GROUND FAULT CIRCUIT INTERRUPT
 GLZ GENERAL LIGHTING ZONE
 GND GROUND
 GP GAS PIPE
 GYP GYPSUM
 HID HIGH INTENSITY DISCHARGE
 HT HORSE POWER
 HT HEIGHT
 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
 MPEE 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) RELOCATE / 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
 TMB TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
 TTB TELEPHONE TERMINAL BOARD
 TYP TYPICAL
 UC UNDERGROUND
 UNLESS OTHERWISE NOTED
 V VOLTS
 WP WEATHERPROOF
 W WEIGHT
 W WATT
 W/ WITH
 XFRM TRANSFORMER
 & AND

GENERAL NOTES

- 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.
- ALL WORK SHALL BE DONE AT SUCH TIME AND IN SUCH MANNER AS PRESCRIBED BY THE SCHOOL'S REPRESENTATIVE.
- PROTECT EXISTING EQUIPMENT AND FURNISHINGS FROM ANY DAMAGE DUE TO DUST, MOISTURE OR CONTACT WITH WORK CREW OR MATERIALS.
- 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.
- 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.
- CORE BORE SHALL BE 1" DIAMETER LARGER THAN EACH CONDUIT. SPACE CONDUIT HOLES 3" APART. SEAL AROUND CONDUIT WITH NON-SHRINK, NON-METALLIC GROUT.
- ALL CONDUCTORS INSTALLED IN PANELBOARDS SHALL BE TRAINED, LACED, AND INSTALLED WITH PHASE TAPE ON ALL CONDUCTORS.
- LABEL DEVICES (I.E. RECEPTACLES, ETC.) ON EACH COVER PLATE IDENTIFYING CIRCUIT AND PANEL DEVICE IS CONNECTED TO.
- 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.
- FIELD COORDINATE DEVICE LOCATIONS PRIOR TO ROUGH-IN.
- 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 LABELS BY BRADY, MODEL NO. 101517, OR EQUAL, ON ALL EQUIPMENT.
- 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.
- SUPPORT ENCLOSURES, BOXES AND CONDUIT INSTALLATIONS PER CEC 314.23 (A) THROUGH (H).
- SEAL CONDUIT OPENINGS THROUGH WALLS AND CEILINGS. INSTALL ESCUTCHEON PLATES AT BUILDING INTERIOR. WHERE EQUIPMENT IS INSTALLED ON 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.
- 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.
- 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-ZN 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.
- 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.
 17.1. 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.
- COORDINATE EQUIPMENT LOCATIONS, CONTROL AND POWER WIRING REQUIREMENTS AND CONNECT POINTS WITH ALL APPLICABLE DISCIPLINES.
- PROVIDE AND INSTALL FUSES PER UNIT NAMEPLATE DATA ON THE EQUIPMENT PROVIDED.
- A LAMINATED COPY OF THE FINAL RECORD ONE LINE DIAGRAM SHALL BE PLACED IN ELEC ROOM.
- PROVIDE WRING DEVICES AND COVER PLATES IN COLOR(S) SELECTED BY ARCHITECT. THE COLOR OF THE WRING DEVICE AND COVER PLATE SHALL BE THE SAME UNLESS SPECIFICALLY NOTED OTHERWISE.
- RECEPTACLE WEATHERPROOF COVERS SHALL BE LISTED "EXTRA DUTY", LOCKABLE, METAL, IN-USE TYPE.
- 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.
- FOR ROOF PENETRATIONS, REFER TO ARCHITECTURAL PLANS FOR INSTALLATION REQUIREMENTS.
- FOR WALL PENETRATION INSTALLATIONS, REFER TO ARCHITECTURAL PLANS FOR REQUIREMENTS.
- PROVIDE "LOOK-ON" DEVICE FOR ALL CIRCUIT BREAKERS ON EMERGENCY DEDICATED CIRCUITS.
- 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.
- MAINTAIN A MINIMUM OF 12" SEPARATION BETWEEN ANY CONDUIT AND (E) UTILITY CONDUIT.
- 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 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30:

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 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.
- 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:

- 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.
- 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 2019 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., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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 OSHPD PRE-APPROVAL (OPM #) #_____

SYMBOLS LIST

- FUSED DISCONNECT SWITCH
- DUPLEX CONVENIENCE OUTLET
- DOUBLE DUPLEX CONVENIENCE OUTLET
- GROUND FAULT CIRCUIT INTERRUPTER DUPLEX OUTLET
- GROUND FAULT CIRCUIT INTERRUPTER 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
- TERMINAL CABINET, RECESSED MOUNTED
- TERMINAL CABINET, SURFACE MOUNTED
- 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.
- SYMBOLS REFERRING TO KEYED NOTES ON SAME SHEET
- MECHANICAL EQUIPMENT BY OTHERS, CONNECTED BY ELECTRICAL CONTRACTOR
- DETAIL DESIGNATION, "A"-1 SIGNIFIES DETAIL, "E"-1 SIGNIFIES SHEET NUMBER
- (1)1-1/2" ← INDICATES SIZE OF CONDUIT = ONE AND ONE HALF INCH CONDUIT
- ← NUMBER WITHIN PARENTHESIS INDICATES QUANTITY OF CONDUITS

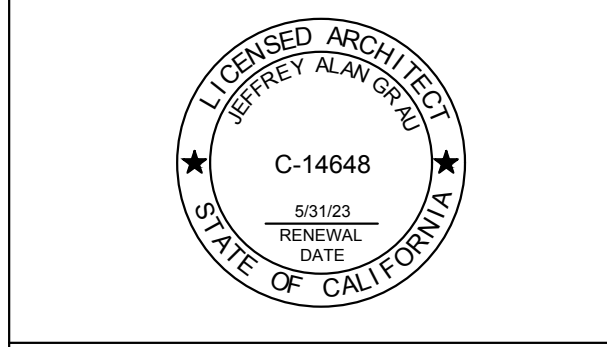
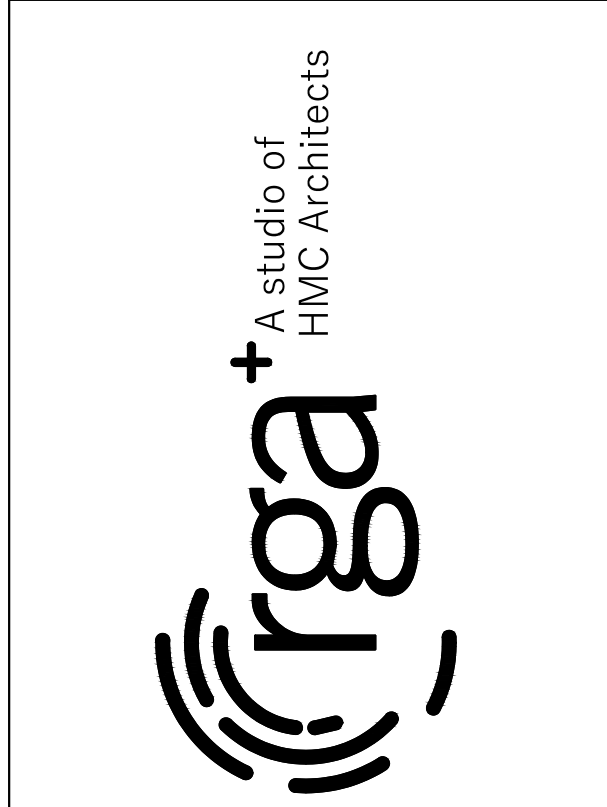
SYMBOLS LIST NOTES:

- MOUNT SWITCH BOXES AT +48" TO TOP OF BOX UNLESS OTHERWISE NOTED.
- MOUNT OUTLET BOXES AT +15" TO BOTTOM OF BOX UNLESS OTHERWISE NOTED.
- "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:
 - +48" MAX TO TOP OF BOX WHERE BOX IS INSTALLED OVER BASE CABINET.
 - +44" MAX TO TOP OF BOX WITH OPEN COUNTERS WITH FORWARD APPROACH.
- OUTLET BOXES SHALL BE:
 - WALL MOUNTED - 4" SQ. x 2-1/8" DEEP MINIMUM
 - CEILING MOUNTED - 4" SQ. OR 4" OCT. x 2-1/8" DEEP MINIMUM
- OUTLET BOXES REQUIRING 1-1/4", 1-1/2" OR 2" CONDUITS SHALL BE 4-11/16" x 3-1/4" DEEP MINIMUM.
- FLUSH MOUNTED OUTLET BOXES SHALL UTILIZE TRIM RINGS. COORDINATE TRIM RING DEPTH WITH WALL FINISH PRIOR TO ROUGH-IN.
- NO CROSSBARS ON CONDUIT RUN INDICATES MINIMUM 1" CONDUIT. TWO #10 CU CONDUCTORS PLUS #10 CU GND. CROSSBARS INDICATE NUMBER OF #10 CU CONDUCTORS IN CONDUIT. CONDUCTOR SIZES OTHER THAN #10 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.
- 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.
- INSTALL CU GROUND CONDUCTOR IN ALL BRANCH CIRCUITS FOR LIGHT FIXTURES AND POWER DEVICES.

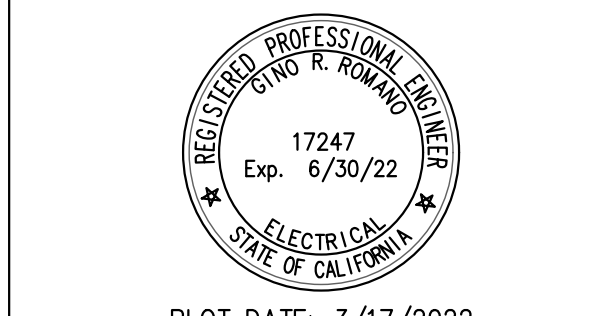
120V BRANCH CIRCUIT VOLT DROP CONDUCTOR LENGTH CHART

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

- NOTES
- THIS CHART IS FOR COPPER CONDUCTORS ONLY.
 - THIS CHART ASSUMES AN 80% POWER FACTOR AND STEEL RACEWAYS.
 - 2019 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.
 - USE WIRE SIZE FROM THIS CHART UNLESS LARGER CONDUCTOR SIZES ARE NOTED ON THE DRAWINGS.
 - FOR VA VALUES NOT SHOWN USE NEXT HIGHEST VALUE FROM THE CHART



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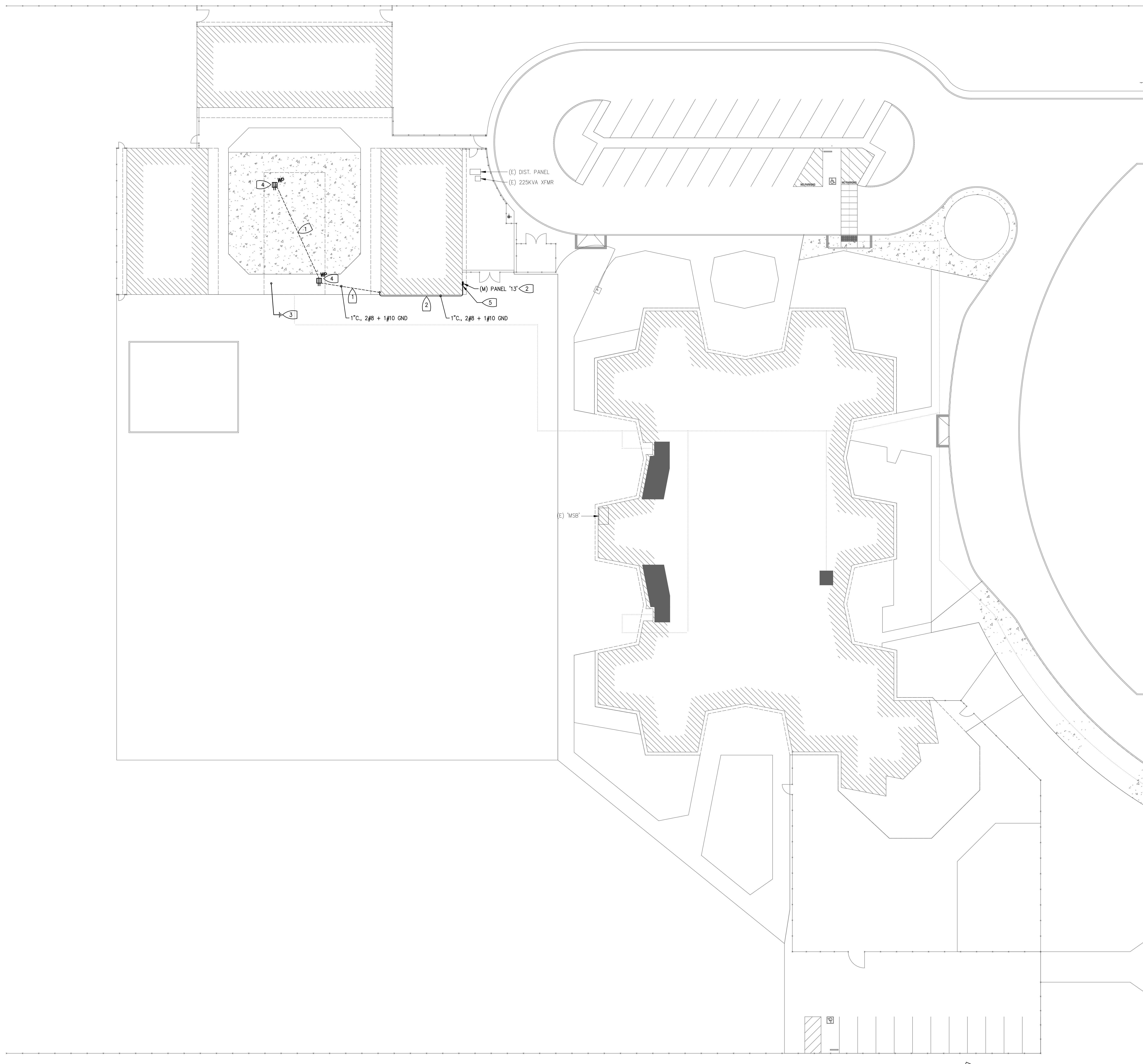
SHADE STRUCTURE AT CAROLINE WENZEL ELEMENTARY SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision

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SYMBOLS, NOTES

PROJECT NO. 1504.15
 DATE: 3/21/2022
 SHEET

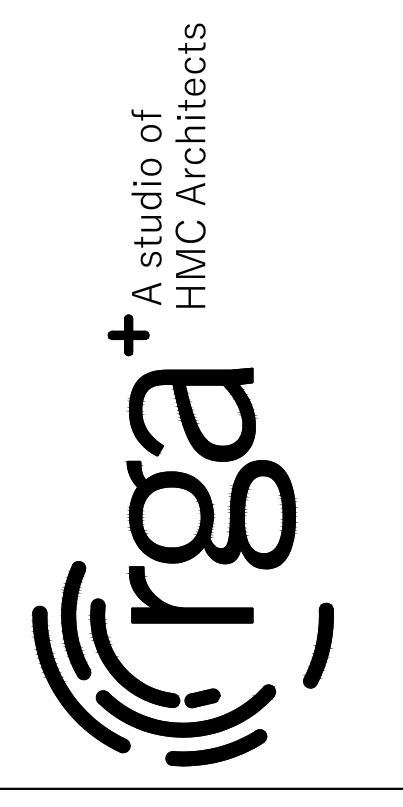


SHEET NOTES:

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. 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 WITH NATIVE SOIL. COMPACT IN SIX(6) LIFTS. FINISH TO MATCH EXISTING. SEE DETAIL **3/E3.1**.
2. PROVIDE J-BOX HIGH ON WALL. RUN CONDUIT HIGH ON WALL TO WRAP AROUND BUILDING, AND DROP CONDUIT TO BELOW ASPHALT. PROVIDE CHRISTY N9 PULL BOX WITHIN FIVE(5) FT OF SHADE STRUCTURE. TRENCH TO SHADE LOCATION, INTERCEPTING THE CHRISTY BOX ALONG THE WAY. CHRISTY BOX TO HAVE HOLD DOWN BOLTS AND BE LABELED FOR POWER. PAINT EXPOSED CONDUIT TO MATCH (E) FINISH.
3. PROVIDE AT MINIMUM TWO(2) GROUND RODS, EACH 5/8" BY TEN(10) FEET LONG, CU, AT LEAST TEN(10) FEET APART. BOND TO METAL OF SHADE STRUCTURE. SEE DETAIL **5/E3.1**.
4. LOCKABLE, WEATHERPROOF RECEPTACLE TO HAVE A TWO-GANG BACK BOX WITH 1" THREADED PORT. MOUNT RECEPTACLES 36" ABOVE GRADE UNLESS SPECIFIED OTHERWISE. SEE DETAIL **4/E3.1**.
5. AT THE PANEL, SPLICE THE #10 CONDUCTORS FROM THE NEW BREAKER TO #8 CONDUCTORS FOR THE RUN TO THE SHADE STRUCTURE. AT THE FIRST SHADE STRUCTURE RECEPTACLE, SPLICE THE #8 CONDUCTORS TO #10 CONDUCTORS AND CONNECT TO DEVICE.



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SHADE STRUCTURE AT CAROLINE WENZEL ELEMENTARY SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

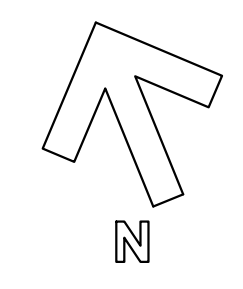
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SITE PLAN - ELECTRICAL

PROJECT NO. 1504.15
DATE: 3/21/2022
SHEET **E1.1**

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



MODIFIED

PANEL:	MANF: SQUARE-D	MAIN: 100/2	SERVICE:	MOUNTING:	ENCLOSURE:	10K AIC			
13	TYPE: HOMELINE LC	BUSS: 125 AMP	120 /208 VOLT	SURFACE	WIDTH: 14"	100% NEUT.			
	FEEDER RATING:	100 AMP	1 Ø, 3W	DEPTH: 4.25"					
AØ	BØ	DIRECTORY	BRKR	GKT	CKT	BRKR	DIRECTORY	AØ	BØ
		100/2							
		-							
1500		HEATER	20/1	1	•	2	20/1	LIGHT	
	1500	HEATER	20/1	3	•	4	20/1	RECEPTS	
1500		HEATER	20/1	5	•	6	20/1	W/H	
		SPACE	PFB	7	•	8	90/2	SPARE (FORMERLY ART ARK)	
		SPACE	PFB	9	•	10	-		
		SPACE	PFB	11	•	12	20/1	RECEPTS - SHADE STRUCT. [5]	
		NEW LOAD						PEAK DEMAND @ 125% + (N) LOAD	TOTAL DEMAND
		TOTAL PANEL VA	AMPS	AMPS @ 125%	AMPS	VA		LOAD	
AØ =		3000 VA	25.0	0.0	0.0	25.0 A	3000 VA	5430 VA	
BØ =		1860 VA	15.5	3.8	4.8	20.3 A	2430 VA	25.0 AMPS	

NOTES:

- FEEDER CONDUCTORS CONSIST OF 3#1 + 1#6 GND CU
- BRANCH BREAKERS ARE SQUARE-D TYPE HOM
- PROVIDE TYPE-WRITTEN PANEL DIRECTORY
- ALL NEW BREAKERS TO MATCH EXISTING TYPES
- PROVIDE NEW 20 AMP, SINGLE-POLE BREAKER.

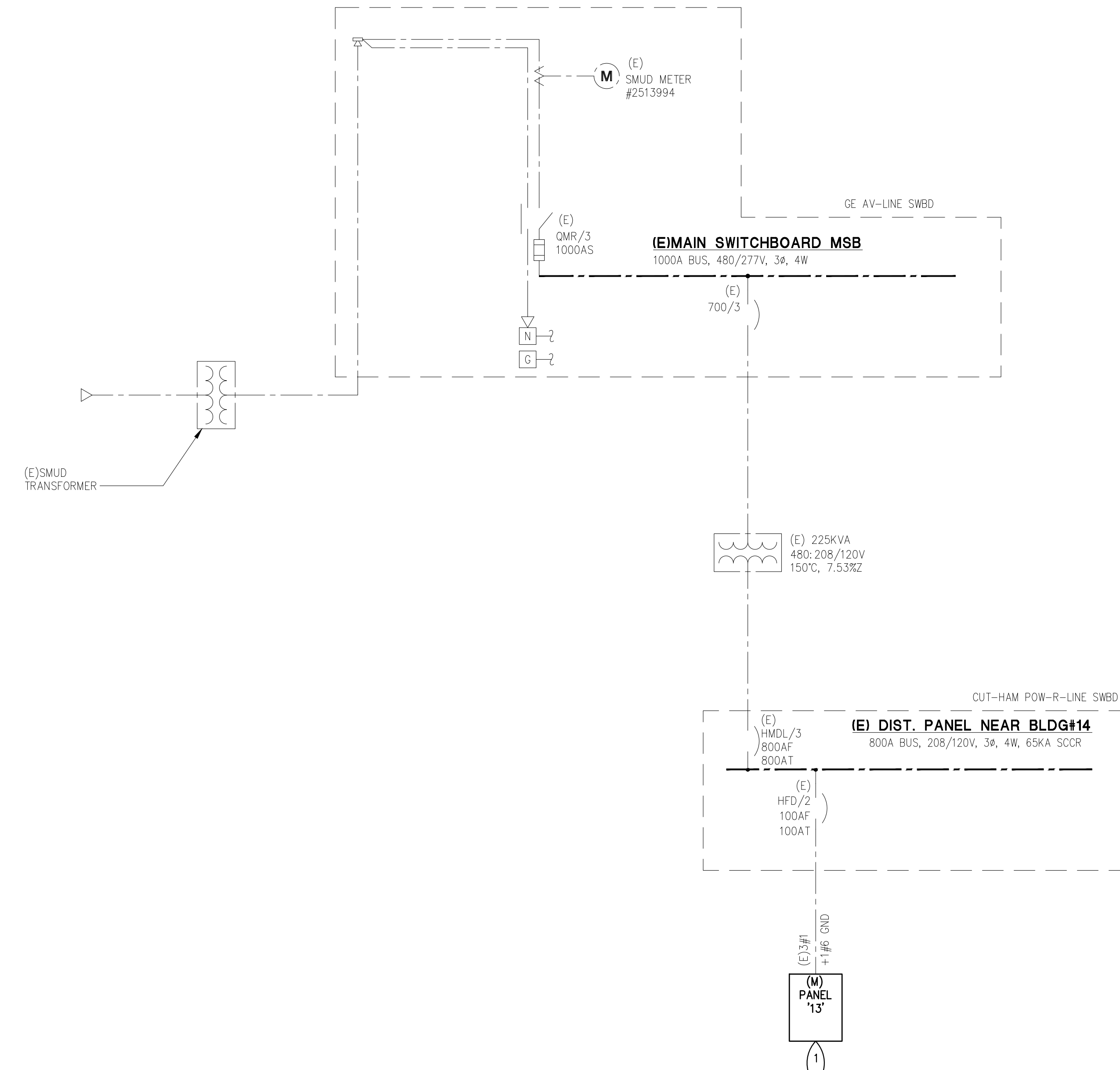
SHEET NOTES:

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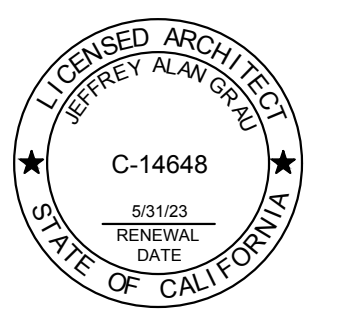
KEYED NOTES:

- MODIFIED PANEL SERVES EQUIPMENT BEING ADDED IN THIS PROJECT. SEE PANEL SCHEDULE ON THIS SHEET FOR REFERENCE.

Voltage Drop Calculations Copper											
Job Name: Caroline Wenzel Elementary School - Shade Structure										Job #: 22.020	
Date: 3/10/2022											
VOLTAGE: 115		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	3.0	0.3	114.53	117	117	1	3.00	8	1326	0.47	0.40%
RECEPT-2	1.5	0.2	114.36	57	174	1	1.50	10	1995	0.64	0.55%



1 ONE LINE DIAGRAM
SCALE: NONE



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Job no. 22.020
consulting mechanical and electrical engineers



PLOT DATE: 3/17/2022

SHADE STRUCTURE AT CAROLINE WENZEL ELEMENTARY SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

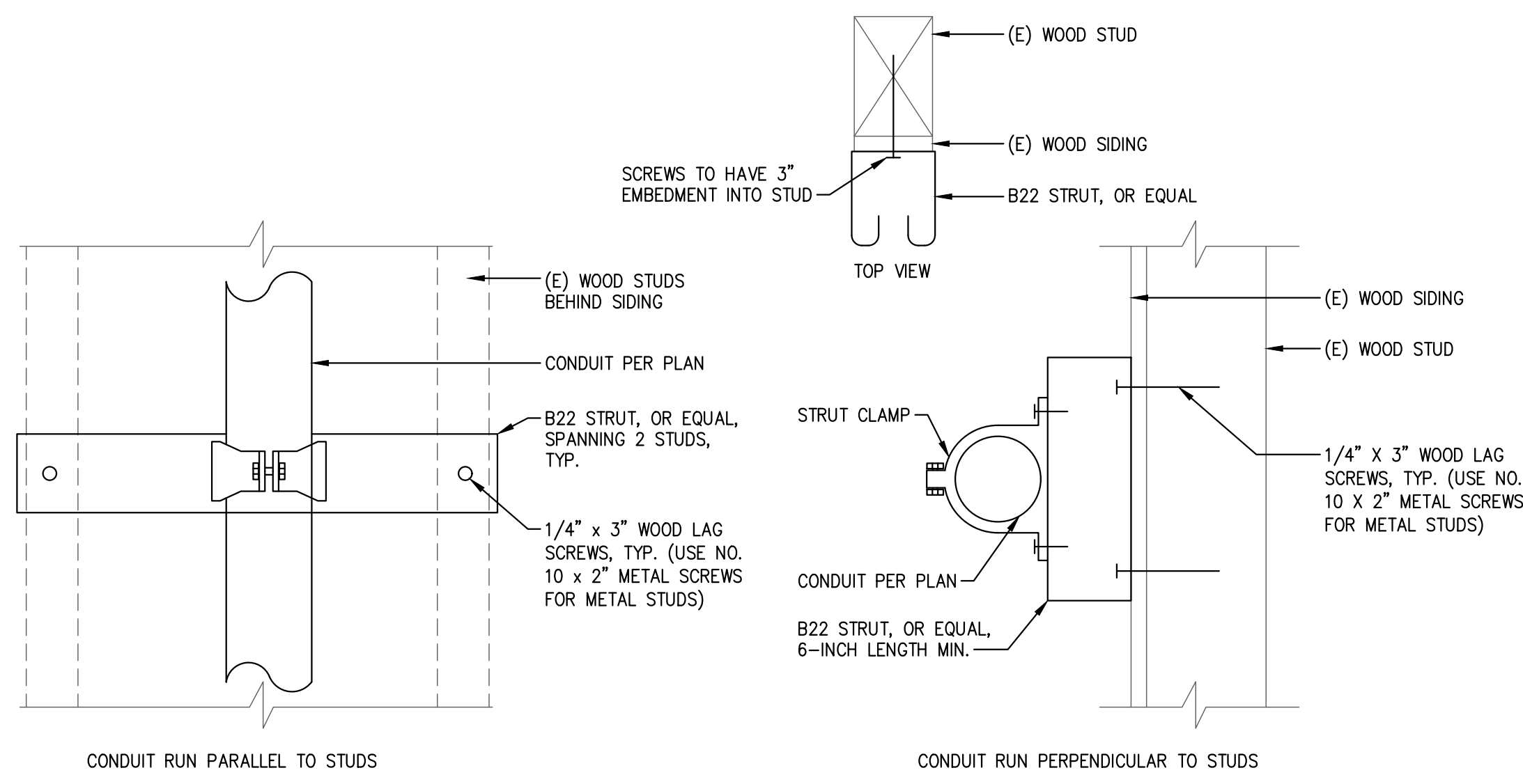
Revision

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ONE LINE DIAGRAM

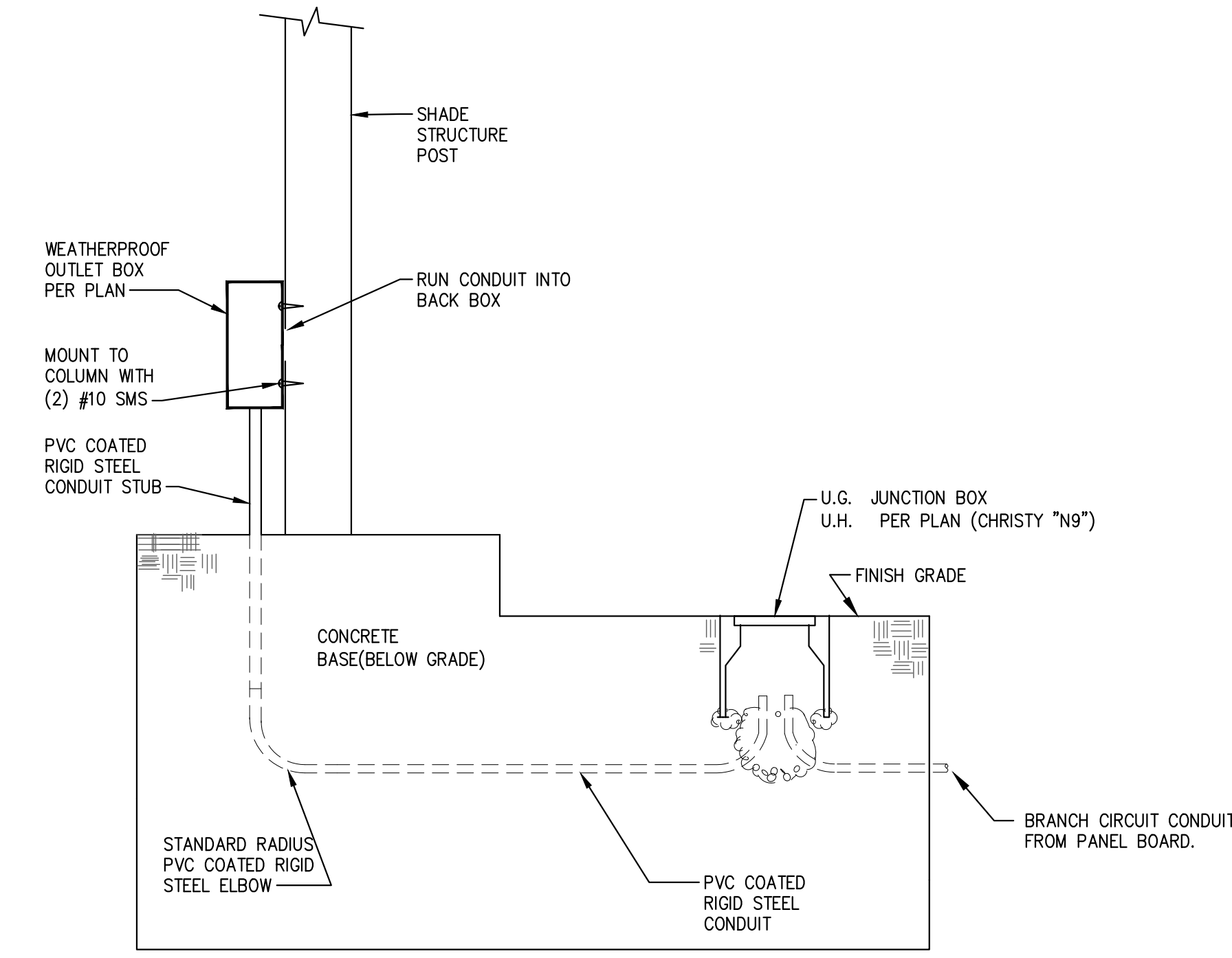
PROJECT NO. 1504.15
DATE: 3/21/2022
SHEET

E2.1

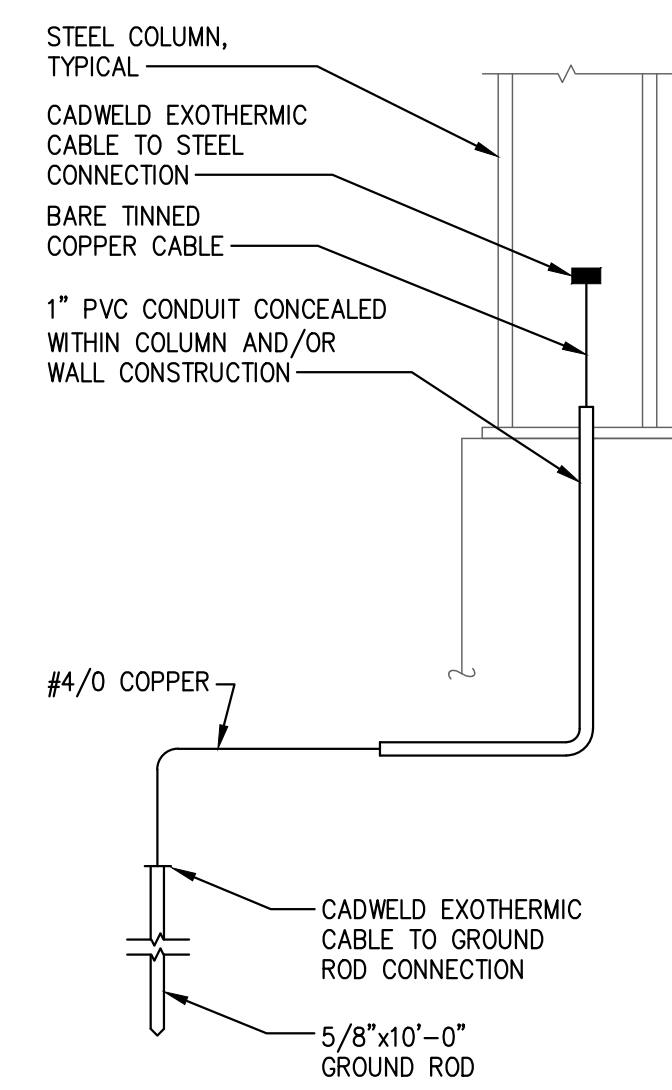


- NOTES:
1. CONDUIT SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING TEN(10) FEET AND NOT MORE THAN THREE(3) FEET FROM THE OUTLET AND AT ANY POINT WHERE IT CHANGES DIRECTION.
 2. PERFORATED STRAP AND PLUMBER'S TAPE SHALL NOT BE PERMITTED.
 3. MAXIMUM CONDUIT AND CONDUCTOR WEIGHT IS 1.8 LBS PER LINEAR FOOT.

7 CONDUIT MOUNTING DETAIL - STUD WALLS
SCALE: NONE

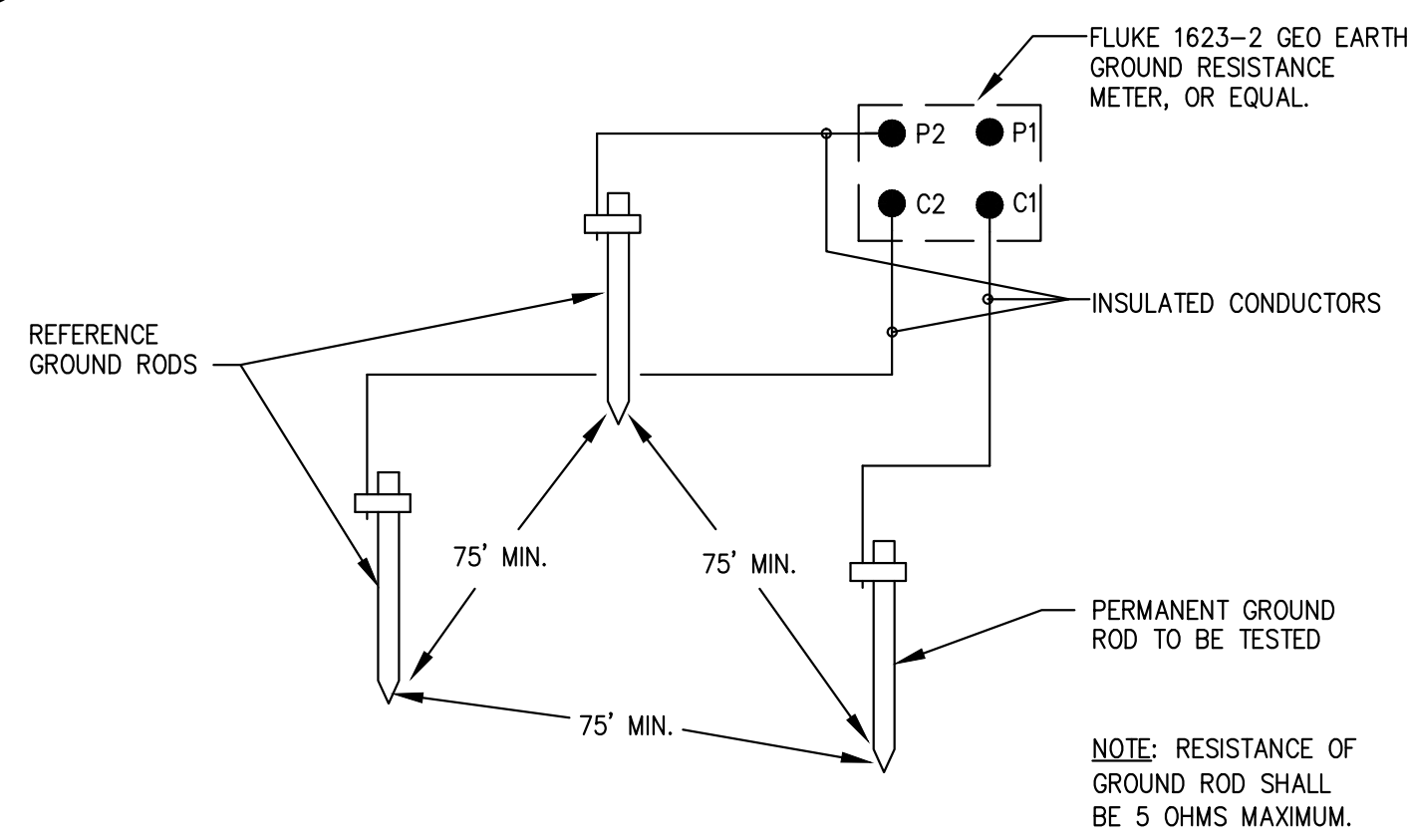


4 CONDUIT STUB IN POST DETAIL
SCALE: NONE



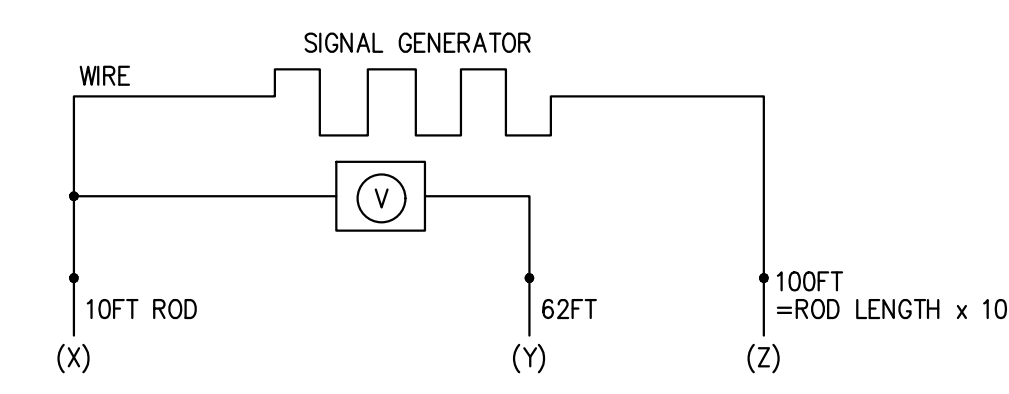
- NOTES:
1. ALL GROUNDING CONNECTIONS SHALL BE IN CONFORMANCE WITH N.E.C. ARTICLE 250.
 2. FOR ALL ADDITIONAL REQUIREMENTS REFER TO SPEC SECTIONS 26 05 26.

5 TYPICAL STEEL COLUMN & REBAR GROUNDING DETAIL
SCALE: NONE



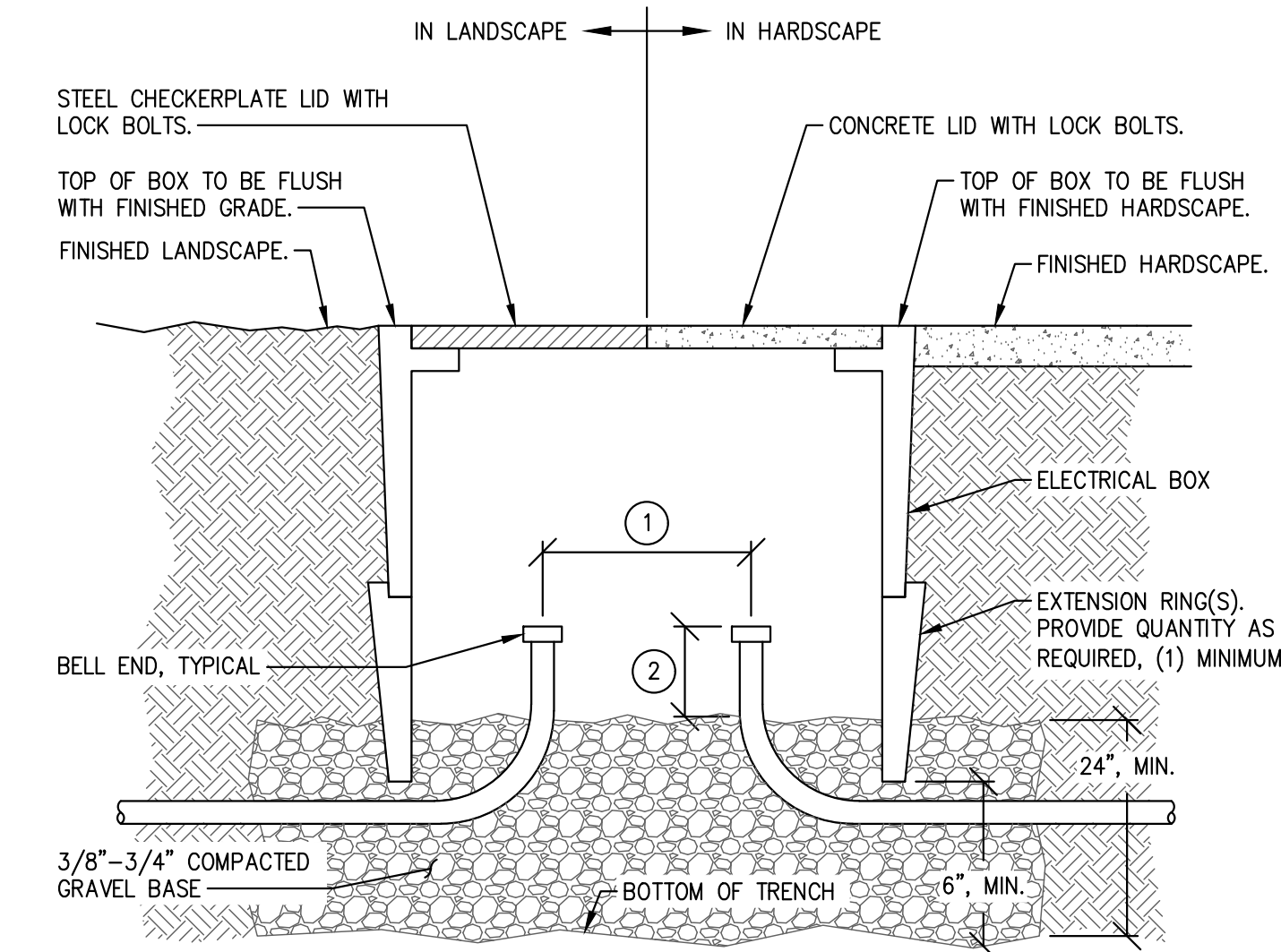
- FALL OF POTENTIAL TEST METHOD NOTES:
1. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY OF 500KVA OR LESS: 10 OHMS.
 2. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY OF 500 TO 1000KVA: 5 OHMS.
 3. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY GREATER THAN 1000KVA: 3 OHMS.
 4. POWER DISTRIBUTION UNITS OR PANELBOARDS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



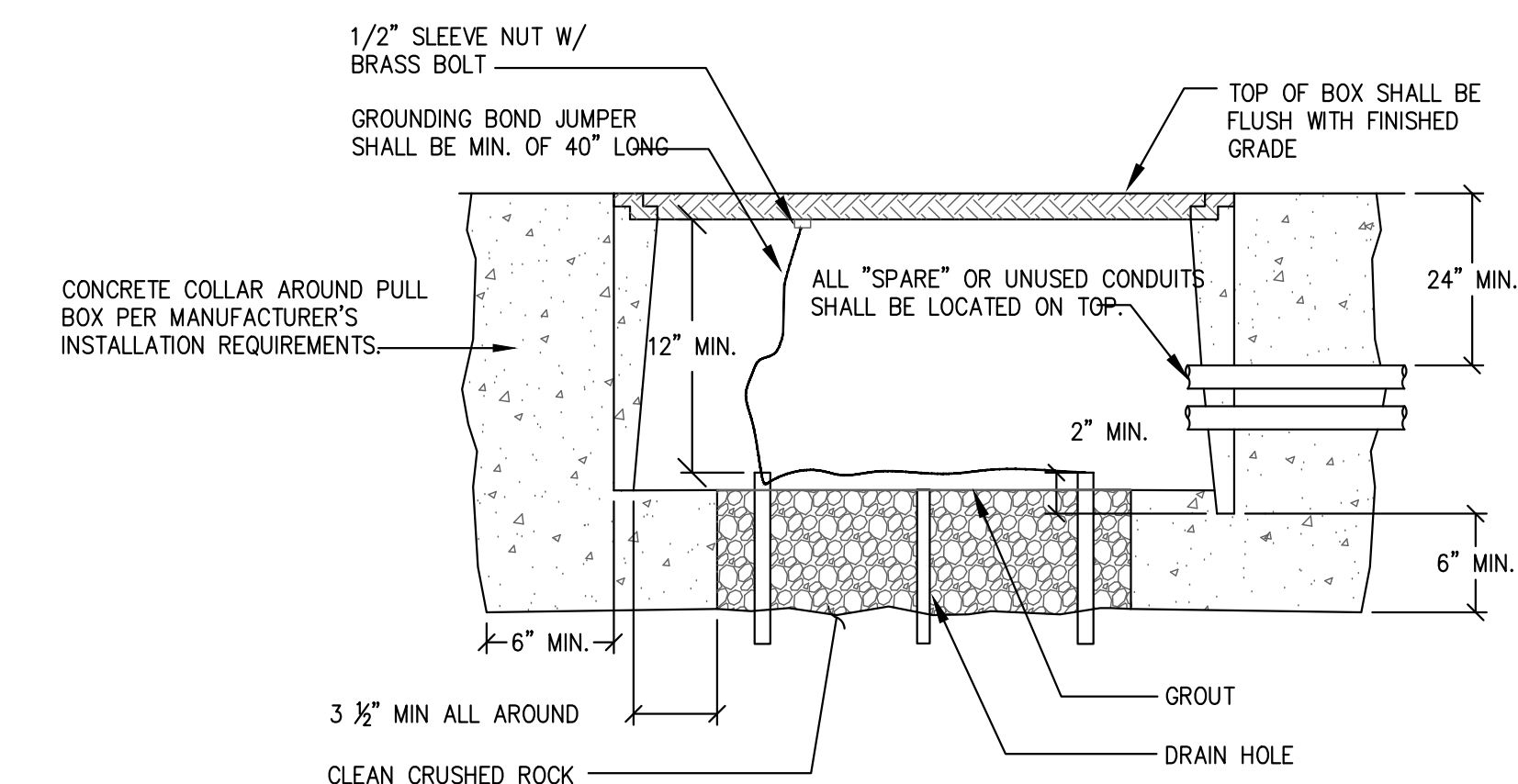
AT THIS POINT, A KNOWN CURRENT IS APPLIED ACROSS X & Z, WHILE THE RESULTING VOLTAGE IS MEASURED ACROSS X & Y. OHMS LAW APPLIED $R=V/I$. THEN (Y) MOVED TO 2 TIMES THE DIAGONAL LENGTH, THEN MOVE OUT TO 3 TIMES(3X), 4X, ... 9X THE DIAGONAL LENGTH TO COMPLETE THE 3 POINT TEST WITH A TOTAL OF NINE RESISTANCE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

6 METHOD OF TESTING GROUND RODS DETAIL
SCALE: NONE



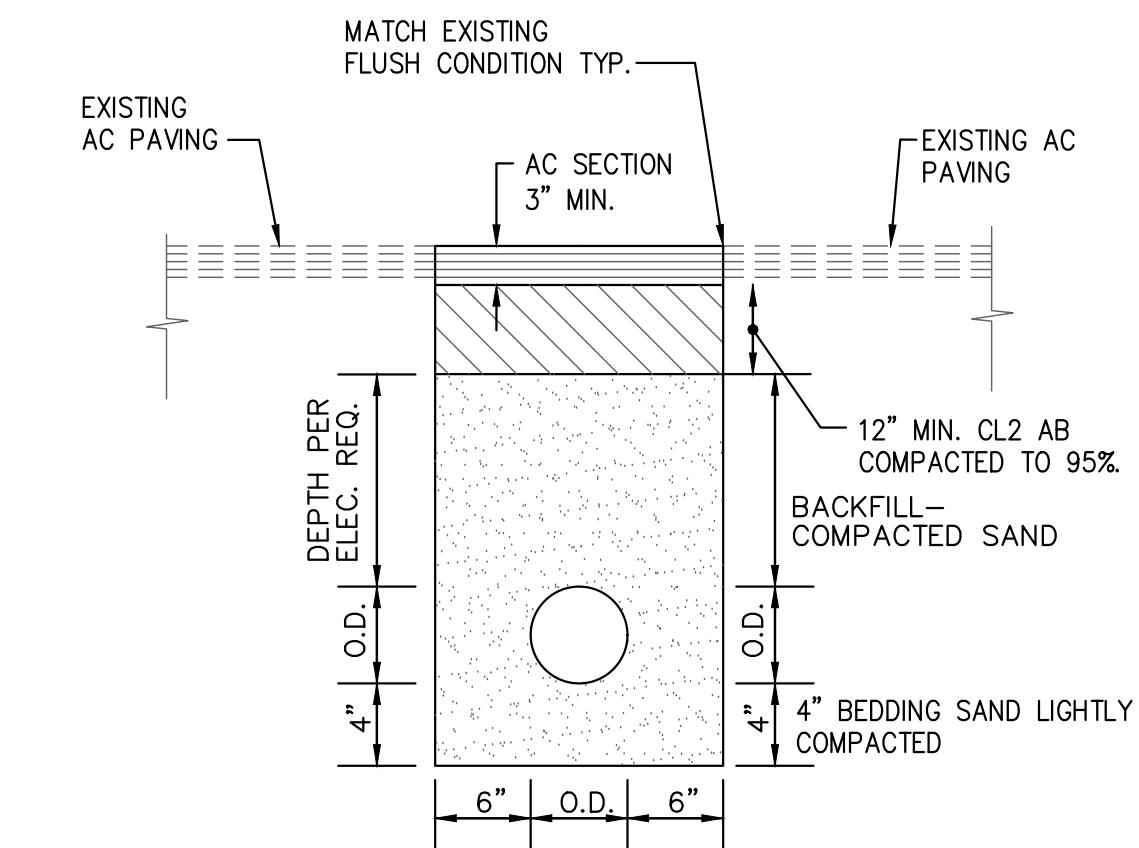
- KEY NOTES:
1. WHERE CONDUITS SERVE INCOMING AND OUTGOING CIRCUITS KEEP RISERS SEPARATED INSIDE PULLBOX TO ALLOW FOR SLACK CONDUCTORS.
 2. TOPS OF CONDUITS MUST NOT EXTEND INTO PULLBOX MORE THAN 1/3 OF THE TOTAL AVAILABLE INSIDE BOX HEIGHT, IN ORDER TO ALLOW ADEQUATE SPACE FOR CABLE SLACK.

1 NON-TRAFFIC RATED PULL BOX
SCALE: NONE



- NOTES:
1. HANDHOLES SHALL BE PROVIDED WITH A MINIMUM OF (4) GALVANIZED PULLING PLATES IN BOTTOM OF PULLBOX.
 2. PULLBOXES SHALL BE PROVIDED WITH CAST IN PLACE VERTICAL CABLE RACKS. ALL CABLES SHALL BE NEATLY BUNDLED, ORGANIZED AND SUPPORTED BY CABLE RACKS.
 3. WHERE ADDITIONAL CONDUIT ENTRIES ARE REQUIRED BEYOND QUANTITY OF TERMINATORS SHOWN, CONTRACTOR SHALL FIELD CORE DRILL AS REQUIRED, WHERE 4" TERMINATORS ARE PROVIDED CONTRACTOR SHALL PROVIDE CONDUIT REDUCERS TO MATCH SITE CONDUIT SIZE REQUIREMENTS.
 4. FOR ALTERNATE STYLE PULLBOXES CONTRACTOR SHALL FIELD CORE DRILL ALL CONDUIT ENTRIES 2" DIA AND SMALLER.
 5. CONTRACTOR SHALL PROVIDE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR TRAFFIC RATING REQUIREMENTS AS PART OF THE SUBMITTALS.

2 TRAFFIC RATED PULL BOX
SCALE: NONE



3 TYPICAL TRENCH DETAIL
SCALE: NONE

DESIGN CRITERIA	
DESCRIPTION	DESIGN VALUES
DEAD AND LIVE LOADS	
ROOF LIVE LOAD	20 PSF
ROOF DEAD LOAD (SUPERIMPOSED ON FRAME)	5 PSF MAX
ROOF PANEL DEAD LOAD	M=1.1 PSF, G=1.2 PSF, S=1.3 PSF
COLLATERAL DEAD LOAD	M=3.9 PSF, G=3.8 PSF, S=3.7 PSF
ROOF SNOW LOAD	
GROUND SNOW LOAD, P _g	20 PSF
RISK CATEGORY	II
ROOF SNOW LOAD SLOPED, P _s	20 PSF
SITE APPLICATION DSA REVIEWER SHALL VERIFY THE STRUCTURE BE LOCATED AT LEAST 20 FEET FROM ADJACENT STRUCTURE	
SNOW LOAD SLOPE FACTOR, C _s	1.0
SNOW EXPOSURE FACTOR, C _e	1.0
SNOW LOAD IMPORTANCE FACTOR, I _s	1.0
THERMAL FACTOR, C _t	1.2
WIND DESIGN	
BASIC WIND SPEED (3 SECOND GUST), V _{ult}	100 MPH
RISK CATEGORY	II
EXPOSURE CATEGORY	C
FACTORS: K _d , K _e , K _z	0.85, 1.0, 0.85
I _h = 0.00256 K _d K _e K _z V ² FOR ALL EAVE HEIGHTS (8', 10' & 12')	18.50 PSF
C _{mf} PER ASCE FIGURE 27-4-5 ROOF ANGLE 18.43° - CLEAR / OBSTRUCTED	CASE A (1.1 / -1.2) CASE B (0.01 / -0.09)
C _{mf} PER ASCE FIGURE 27-4-5 ROOF ANGLE 18.43° - CLEAR / OBSTRUCTED	CASE A (-0.17 / -1.09) CASE B (-0.96 / -1.65)
C _{mf} PER ASCE FIGURE 27-4-7 PARALLEL TO RIDGE - CLEAR / OBSTRUCTED	CASE A (-0.6 / -0.9) CASE B (-0.5 / -0.5)
COMPONENTS & CLADDING - C _u (PRESSURE/SUCTION) CLEAR / OBSTRUCTED	ZONE 3 - (2.29 / -2.11) / (1.0 / -3.0) ZONE 2 - (1.77 / -1.63) / (0.8 / -2.3) ZONE 1 - (1.15 / -1.05) / (0.5 / -1.5)
SEISMIC DESIGN	
LATERAL FORCE RESISTING SYSTEM	STEEL - ORDINARY CANTILEVER COLUMN
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
SEISMIC IMPORTANCE FACTOR, I _e	1.0
SEISMIC SITE CLASS	D
MCE _{EL} SPECTRAL RESPONSE ACCELERATION @ 0.2 s, S _s	0.6
MCE _{EL} SPECTRAL RESPONSE ACCELERATION @ 0.2 s, S ₁	0.90
SHORT PERIOD SITE COEFFICIENT, F _a	1.20
LONG PERIOD COEFFICIENT, F _v	1.70
FUNDAMENTAL PERIOD OF THE STRUCTURE, T	0.152 s
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, S _{DS}	2.08
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, S _{DS} - USED TO DETERMINE C _s (WITH CAP PER ASCE-7 12.8.1.3)	2.08 * 0.70 = 1.456
DESIGN SPECTRAL RESPONSE ACCELERATION AT 1-4 PERIODS, S _{D1}	1.02
SEISMIC DESIGN CATEGORY	E
RESPONSE MODIFICATION FACTOR, R	1.25
OVERSTRENGTH FACTOR, Ω	1.25
REUNDANCY FACTOR, ρ	1.0
HORIZONTAL OR VERTICAL IRREGULARITIES	NONE
SEISMIC RESPONSE COEFFICIENT, C _s (20' WIDE, 30' WIDE, 40' WIDE)	1.16
DESIGN BASE SHEAR, V (20' WIDE, 30' WIDE, 40' WIDE)	12.73 PSF, 13.41 PSF, 14.65 PSF
ALLOWABLE SOIL BEARING FOR FOUNDATIONS	VARIES - SEE FOUNDATION CHARTS
FLOOD DESIGN - DESIGN IS ASSUMED TO NOT BE IN FLOOD HAZARD AREA	
IF PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED & SIGNED FROM A SOILS ENGINEER IS REQUIRED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED.	

GENERAL:

- 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.
- 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.
- 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.
- 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.
- 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 VISIT 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.
- ASTM DESIGNATIONS AND ALL STANDARDS REFER TO THE LATEST AMENDMENTS.
- 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.
- 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.
- 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.
- THE SCHOOL DISTRICT INSPECTOR ON RECORD SHALL INSPECT AND APPROVE THE ERCTED FRAME PRIOR TO ROOF INSTALLATION.
- 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 REQUIREMENTS.
- 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.
- VEWS AND DETAILS ARE NOT DRAWN TO SCALE (UNLESS NOTED OTHERWISE). DO NOT SCALE THESE DRAWINGS.

STRUCTURAL AND MISCELLANEOUS STEEL:

- ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERCTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION MANUAL REFERENCED BY THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE.
- PIPE SECTIONS SHALL CONFORM TO ASTM A53, F_y = 35 KSI, GRADE B OR A501 UNLESS NOTED OTHERWISE.
- STRUCTURAL TUBING (HSS SHAPES) SHALL CONFORM TO ASTM A-500, GRADE B (OR C), F_y = 46 KSI (MIN).
- IF MATERIAL AVAILABILITY IS LIMITED, MEMBER THICKNESS CAN BE INCREASED BEYOND WHAT IS SHOWN IN THESE DRAWINGS (MAXIMUM INCREASE OF 1/8").
- ALL CHANNELS, ANGLES, AND MISC. STEEL SHALL CONFORM TO ASTM A-36, F_y = 36 KSI.
- ALL PLATE STEEL SHALL CONFORM TO ASTM A-572, F_y = 50 KSI.
- ALL COLD FORM STEEL SHALL CONFORM TO ASTM A-653, C_s = TYPE B, F_y = 50 KSI.
- STRUCTURAL STEEL AND DECK SHALL BE IDENTIFIED FOR CONFORMITY PER CBC 2202A.1.
- ALL ROOF DECK SHALL HAVE KYNAR 500 METAL COATING.
- ALL ROOF DECK SHALL CONFORM TO ASTM A-36, F_y = 50 KSI.

WELDING:

- 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 AS REQUIRED BY DSA.
- 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 @ (0° F).
- ALL WELDING SHALL BE DONE IN THE SHOP WITH REQUIRED INSPECTION, PRE-APPROVED BY DSA, TO ENSURE WELDER MATERIAL ID AND WELDING.
- WELD FILLER METAL MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION OF COMPLIANCE WITH CODE AND SPECIFICATIONS.

BOLTING:

- ALL BOLTS SHOWN ON THESE DRAWINGS ARE ASTM F3125 GRADE A325 HIGH STRENGTH BOLTS (UNO), WITH THE NUTS CONFORMING TO ASTM A-563.
- HIGH STRENGTH BOLTS SHALL BE VERIFIED AND INSPECTED PER CBC 1705A2.1.
- BEFORE ERCTING 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.
- HARDENED STEEL WASHERS SHALL CONFORM TO ASTM F-436.
- 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 ERCTING 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.

APRETENSIONED JOINTS MUST BE INSTALLED AND INSPECTED TO MEET ONE OF THE FOLLOWING REQUIREMENTS:

- TURN-OFF-NUT PRETENSIONING
- CALIBRATED WRENCH PRETENSIONING
- DIRECT-TENSION-INDICATOR PRETENSIONING (CONTRACTOR RESPONSIBLE FOR PURCHASE OF REQUIRED WASHERS)

FOUNDATIONS:

- ALLOWABLE SOIL PRESSURES ASSUME CLASS 5 SOIL CLASSIFICATION PER CBC TABLE 1806A, UNLESS NOTED OTHERWISE.
- PER CBC SECTION 1803A.2, GEOTECHNICAL REPORTS ARE NOT REQUIRED FOR ONE-STORY LIGHT-STEEL FRAME BUILDINGS OF TYPE II CONSTRUCTION AND 4,000 SQUARE FOOT OR LESS IN FLOOR AREA AND NOT LOCATED WITHIN EARTHQUAKE FAULT ZONATOR SEISMIC HAZARD ZONES AS SHOWN ON THE MOST RECENT MAPS PUBLISHED BY THE CGS. ALLOWABLE FOUNDATION AND LATERAL SOIL PRESSURE VALUES MAY BE DETERMINED FROM TABLE 1806A.2.
- FILL AND BACKFILL SHALL BE COMPACTED TO 95% OF MAX. DENSITY IN ACCORDANCE WITH ASTM TEST METHOD D-1557 OR AS RECOMMENDED BY THE GEO-TECH ENGINEER. FLOODING NOT PERMITTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, ETC. NECESSARY TO SUPPORT CUT AND/OR FILL BANKS DURING EXCAVATION, AND FORMING AND PLACEMENT OF CONCRETE.
- MINIMUM SETBACK FROM TOE OF SLOPE ON AN ASCENDING SLOPE SHALL BE 15 FEET AND MINIMUM SETBACK FROM TOE OF SLOPE ON A DESCENDING SLOPE SHALL BE 40 FEET.
- PER CBC SECTION 1803A.6, GEHAZARD REPORTS ARE NOT REQUIRED FOR ONE-STORY LIGHT-STEEL FRAME BUILDINGS OF TYPE II CONSTRUCTION AND 4,000 SQUARE FOOT OR LESS IN FLOOR AREA AND NOT LOCATED WITHIN EARTHQUAKE FAULT ZONATOR SEISMIC HAZARD ZONES AS SHOWN ON THE MOST RECENT MAPS PUBLISHED BY THE CGS.
- GEHAZARD REPORTS ARE TO COMPLY WITH DSA IR A-4 PER IR-7 SECTION 1.8
- SITE SPECIFIC GEOTECHNICAL REPORT IS REQUIRED AT THE TIME OF SITE APPLICATION IS USING OTHER THAN CLASS 5 SOIL, PER DSA IR PC-7
- LATERAL BEARING HAS BEEN INCREASED PER CBC 1806A.3.4 & HAS BEEN DESIGNED FOR P-DELTA EFFECTS

CONCRETE:

- MIX DESIGN REQUIREMENTS: (NORMAL WEIGHT CONCRETE)

STRENGTH F _c (28 DAYS)	W/C RATIO (NON-AIR ENTRAINED)	W/C RATIO (AIR ENTRAINED)	SUMP (in)	UNIT WEIGHT (NORMAL WEIGHT)
4500 PSI	0.44	0.35	3"	150 PCF
- CONCRETE MIX DESIGN PARAMETERS ARE GOOD FOR EXPOSURE CATEGORIES F0, F1 & F2. THE AIR ENTRAINMENT FOR THESE CATEGORIES SHALL BE AS FOLLOWS: F0-0, F1-4.5, F2-6
- AGGREGATES SHALL CONFORM TO THE ASTM C-33 WITH PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN 0.05% MAX AGGREGATE SIZE = 1".
- CEMENT SHALL CONFORM TO ASTM C-150 (TYPE V) UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- 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.
- CONCRETE SHALL NOT FREE FALL MORE THAN FIVE FEET.
- CONCRETE DURABILITY SHALL BE PER CBC 190A.1 & ACI 318-14 CHAPTER 19.
- CONCRETE SHALL BE TESTED PER CBC 1903A, TABLE 1705A.3. AND ACI 318-14 SECTION 26.12.

STEP 10: IDENTIFY PROJECT NAME AND SCHOOL DISTRICT

PROJECT NAME:	SCHOOL DISTRICT:

STEP 1	FRAME DIMENSIONS	
	SUGGESTED	OTHER
	FRAME WIDTH [] 20' <input checked="" type="checkbox"/> 30' [] 40'	[] (40' MAX)
	FRAME LENGTH [] 44' <input checked="" type="checkbox"/> 64' [] 84' [] 104'	[] (NO MAX)

STEP 2	ROOF PANEL	
	ROOF PANEL TYPE	DESIGN OPTIONS
	<input checked="" type="checkbox"/> M [] G [] S	

STEP 3	PROJECT SITE - S _s ACCELERATION (g)	
	S _s REGION	MAX DEAD LOAD
	0 < S _s <= 2.14	5 PSF
	2.14 < S _s <= 2.50	5 PSF
	2.50 < S _s <= 2.75	5 PSF
	2.75 < S _s <= 3.00	4 PSF
	S _s > 3.73 MAX	3 PSF

STEP 4	S _s REGION	
	DESCRIPTION	EXAMPLES
	X	

STEP 5	TOTAL ROOF DEAD LOAD	
	DEAD LOAD	EXAMPLES
	ROOF DECK	1.1 PSF M=1.1PSF, G=1.2PSF, S=1.3PSF (SEE STEP 2)
	COLLATERAL	0 PSF LIGHTING, ETC
	TOTAL	1.1 PSF ADD ROOF DECK AND COLLATERAL LOADS (MAX 5 PSF)

CONSTRUCTION NOTES

- A DSA-CERTIFIED CLASS 3 PROJECT INSPECTOR IS REQUIRED FOR THIS PROJECT.
- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
- A "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.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS ARE THAT ALL THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR, SHOULD ANY EXISTING CONDITIONS SUCH AS VIBRATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE 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)
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES

REINFORCING STEEL:

- REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A-615, AS FOLLOWS:
GR 60: (#4 BARS AND LARGER)
GR 40: (#3 BARS)
- DETAILING, FABRICATION, AND ERECTION OF REINFORCING BARS SHALL CONFORM TO THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES."
- MIN. COVER FOR CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:
A. CAST AGAINST EARTH3"
B. CAST AGAINST FORM BELOW GRADE2"
C. FORMED SLABS (#11 BAR & SMALLER)3/4"
D. SLABS ON GRADE (FROM TOP OF SLAB)1"
- BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND. BENDS SHALL BE MADE COLD.
- REINFORCING SHALL BE LAP SPLICED PER ACI 318-14 SECTION 25.5.
- PRIOR TO PLACING OF CONCRETE, REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE WELL SECURED IN POSITION.
- WELDING OF REINFORCING IS NOT ALLOWED.
- REINFORCING STEEL SHALL BE INSPECTED PER CBC 1705A.3.

POWDER-COAT FINISH SYSTEM:

- ALL BUILDINGS THAT HAVE A POWDER-COATED FINISH SHALL MEET THE FOLLOWING SPECIFICATIONS:
- THE STEEL FRAME SHALL BE SHOT-BLASTED TO A NEAR WHITE CONDITION PER SSPC-10 SPECIFICATIONS.
 - THE STEEL SHALL BE WASHED IN A ZINC PHOSPHATE IN AN ANTIMINE EIGHT STAGE ELECTRO DEPOSITION PRE-TREATMENT PROCESS.
 - IMMEDIATELY FOLLOWING PRE-TREATMENT THE STEEL SHALL BE TOTALLY IMMERSED IN A LIQUID EPOXY PRIMER-E-COAT AND COATED TO A UNIFORM THICKNESS OF A MINIMUM OF 0.7 TO 0.9 MILS. THE E-COATING SHALL PROVIDE A MINIMUM OF 1000 HOURS OF SALT SPRAY CORROSION PROTECTION TO THE STEEL.
 - THE STEEL SHALL THEN HAVE A TIGC POLYESTER COLOR COAT APPLIED OVER THE E-COATING SURFACE.
 - THE COLOR COAT SHALL THEN HAVE A CLEAR TIGC COATING APPLIED TO SEAL IN THE COLOR COAT AND RESIST ULTRAVIOLET LIGHT, TO HELP PREVENT FADING.
 - THE FINISH THICKNESS OF THESE THREE APPLICATIONS SHALL BE A MINIMUM OF 8 TO 12 MILS.
 - ALL CARBON STEEL MEMBERS (COLUMNS, BEAMS, PLATES, ETC.) NOT POWDER-COATED SHALL BE PAINTED WITH PRIME COAT PER THE "AISC CODE OF STANDARD PRACTICE" AND THE "AISC SPECIFICATION SECTION M3(UNLESS NOTED OTHERWISE).

ABBREVIATIONS:

ACI	AMERICAN CONCRETE INSTITUTE	MPH	MILES PER HOUR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	M	MULTI-RIB ROOF PANEL (MCELROY)
ASM	ASSEMBLY (INTERNAL REFERENCE)	NTS	NOT TO SCALE
ASTM	AMERICAN SOCIETY FOR TESTING AND MAT'LS	NO	NUMBER
AWS	AMERICAN WELDING SOCIETY	OC	ON CENTER
CBC	CALIFORNIA BUILDING CODE	OSHA	OCCUPATIONAL HEALTH AND SAFETY ADMIN
CJP	COMPLETE JOINT PENETRATION	PCF	POUNDS PER CUBIC FOOT
CLR	CLEAR	PJ	PRETENSIONED JOINT
DEG	DEGREE	PLCS	PLACES
DIA	DIAMETER	PLT	PLATE
DM	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

APPROVED
DIV. OF THE STATE ARCHITECT
APP-04-120013 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 08/06/2021

STRUCTURAL SEPARATION		DEFLECTIONS ARE FOR (1) STRUCTURE		
ALL DEFLECTIONS SHOWN ALSO INCLUDE THE P-DELTA ROTATION PER IR PC-7		SOIL CLASS PER TABLE 1806A.2		
MAXIMUM DRIFT	Δ _{max}	Side Columns	Soil Class 5	Soil Class 4
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.40	2.55	2.65
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.25	2.35	2.45
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.20	2.25	2.30
MINIMUM SEPARATION (S _u = C _s Δ _{max})	C _s = 1.25			
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	3.00	3.19	3.31
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.81	2.94	3.06
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.75	2.81	2.75
MAXIMUM DRIFT	Δ _{max}	Corner Columns	Soil Class 5	Soil Class 4
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.20	2.30	2.40
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.30	2.45	2.50
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.40	2.55	2.65
MINIMUM SEPARATION (S _u = C _s Δ _{max})	C _s = 1.25			
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.75	2.88	3.00
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.88	3.06	3.13
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	3.00	3.19	3.31
MAXIMUM DRIFT	Δ _{max}	End Columns	Soil Class 5	Soil Class 4
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	1.80	1.70	1.75
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.00	2.45	2.25
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.00	2.30	2.80
MINIMUM SEPARATION (S _u = C _s Δ _{max})	C _s = 1.25			
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.00	2.13	2.19
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.50	3.06	2.81
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	3.13	2.88	3.50

ARCHITECTURAL REQUIREMENTS		
DESCRIPTION	DESIGN VAULES	
TYPE OF CONSTRUCTION	II-B	
OCCUPANCY CLASSIFICATION	A-3	
NUMBER OF STORES	1	
FIRE SPRINKLER SYSTEM	NOT BY CON/WEIGHT NOT INCLUDED IN DESIGN	

RELATED BUILDING CODES AND STANDARDS

- TITLE 24 CODES:
- 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC).....(PART 1, TITLE 24, CCR)
 - 2019 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1, AND 2.(PART 2, TITLE 24, CCR)
 - 2019 CALIFORNIA ELECTRICAL CODE.....(PART 3, TITLE 24, CCR)
 - 2019 CALIFORNIA MECHANICAL CODE (CMC).....(PART 4, TITLE 24, CCR)
 - 2019 CALIFORNIA PLUMBING CODE (CPC).....(PART 5, TITLE 24, CCR)
 - 2019 CALIFORNIA ENERGY CODE.....(PART 6, TITLE 24, CCR)
 - 2019 CALIFORNIA FIRE CODE (CFC)(PART 9, TITLE 24, CCR)
 - 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE.....(PART 11, TITLE 24, CCR)
 - 2019 CALIFORNIA REFERENCE STANDARDS CODE.....(PART 12, TITLE 24, CCR)

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:
2019 CBC, CHAPTER 35
2019 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 HOLLOW STRUCTURAL STEEL MEMBERS SUPPORTED BY CONCRETE FOUNDATIONS. THE FLEXIBILITY INCLUDED HEREIN ALLOWS THE STRUCTURE TO COMPLY WITH A WIDE VARIETY OF PROJECT SITES AND LOADING REQUIREMENTS.

NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEERING RESPONSIBILITY

- PER TITLE 24, PART 1, SECTION 4-316(e) OF THE CALIFORNIA CODE OF REGULATIONS, THIS NOTICE SHALL

2019 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.

**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.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

7. CAST-IN-PLACE CONCRETE
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Verify use of required design mix.
b. Identify, sample, and test reinforcing steel.
c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.
d. Test concrete (f'c).

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

23. ANCHOR BOLTS AND ANCHOR RODS:
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Anchor Bolts and Anchor Rods
b. Threaded rod not used for foundation anchorage.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

Geotechnical Reports: Project has a geotechnical report, or CDs indicate soils special inspection is required by CE

1. GENERAL: Table 1705A.6
Test or Special Inspection
Type
Performed By
Code References and Notes
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.

2. SOIL COMPACTION AND FILL: Table 1705A.6
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Perform classification and testing of fill materials.
b. Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

17. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSE
Material Verification and Testing:
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Verify identification of all materials and fill certificates indicate material properties that comply with requirements.
b. Test underfilled materials.
c. Examine seam welds of HSS shapes.
Inspection:
d. Verify and document steel fabrication per DSA-approved construction documents.

18. HIGH-STRENGTH BOLTS: RCSC 2
Material Verification and Testing of High-Strength Bolts, Nuts and Washers:
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Verify identification markings and manufacturer's certificate of compliance conform to ASTM standards specified in the DSA-approved documents.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SIGNATURE), 2019 CBC

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 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

c. Compaction testing.
Test
LOR
* Under the supervision of the geotechnical engineer. (Refer to specific items identified in the Appendix for exemptions where soils testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR Form DSA 291 shall satisfy the soil test reporting requirements for the exempt items.)

4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS): Table 1705A.8
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Inspect drilling operations and maintain complete and accurate records for each pier.
b. Verify pier locations, diameters, plumbness, bell diameters (if applicable), lengths and embedment into bedrock (if applicable), record concrete or grout volumes.
c. Confirm adequate end strat bearing capacity.
d. Concrete piers.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

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.
Inspection of High-Strength Bolt Installation:
c. Bearing-type ("snug tight") connections.
d. Pretensioned and slip-critical connections.

19. WELDI
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 (See Appendix for exemptions).

Verification of Materials, Equipment, Welders, etc.:
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.
b. Verify weld filler material manufacturer's certificate of compliance.
c. Verify WPS, welder qualifications and equipment.

DSA 103-19: LIST OF REQUIRED VERIFIED REPORTS, CBC 2019

- 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

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

5. RETAINING WALLS:
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Placement, compaction and inspection of backfill.
b. Placement of soil reinforcement and/or drainage devices.
c. Segmental retaining walls, inspect placement of units, dowels, connectors, etc.
d. Concrete retaining walls.
e. Masonry retaining walls.

6. OTHER SOIL
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Soil Improvements
b. Inspection of Soil Improvements
c.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

19.1 SHOP WELDING:
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.
b. Inspect single-pass fillet welds < 5/16", floor and roof deck welds.
c. Inspect welding of stairs and railing systems.
d. Verification of reinforcing steel weldability other than ASTM A706.
e. Inspect welding of reinforcing steel.

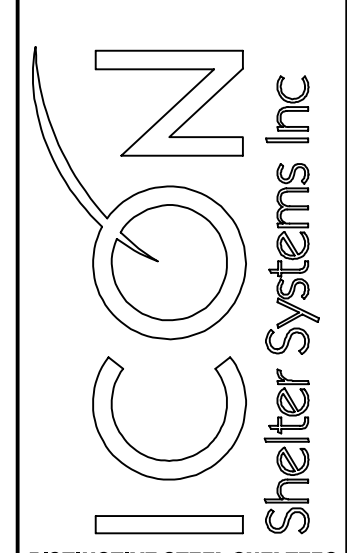
23. ANCHOR BOLTS AND ANCHOR RODS:
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Anchor Bolts and Anchor Rods
b. Threaded rod not used for foundation anchorage.

ICON STD RH/DSA-PC
DRAWN BY ANGEL
DATE 4/2/2021
REV
REV DATE



APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-120013 PC
REVIEWED FOR
SS [x] FLS [x] ACS [x] CG [x]
DATE: 08/06/2021

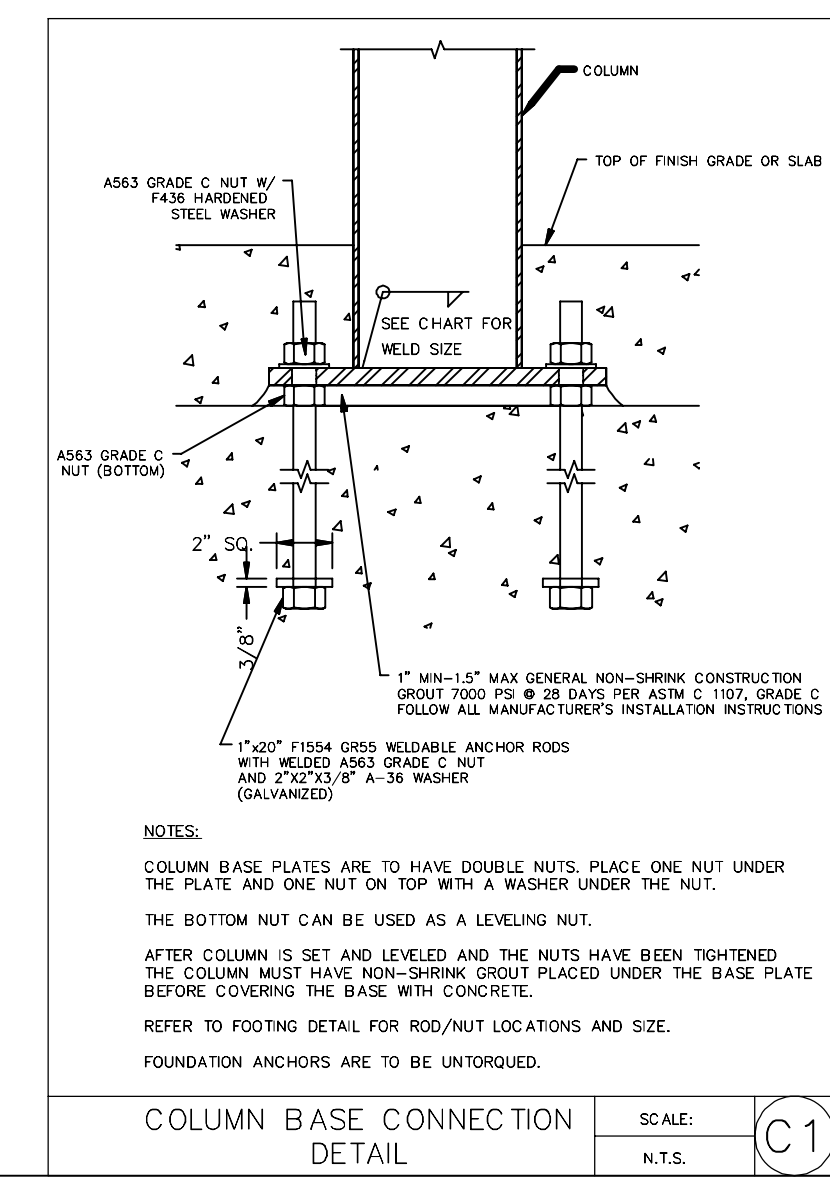
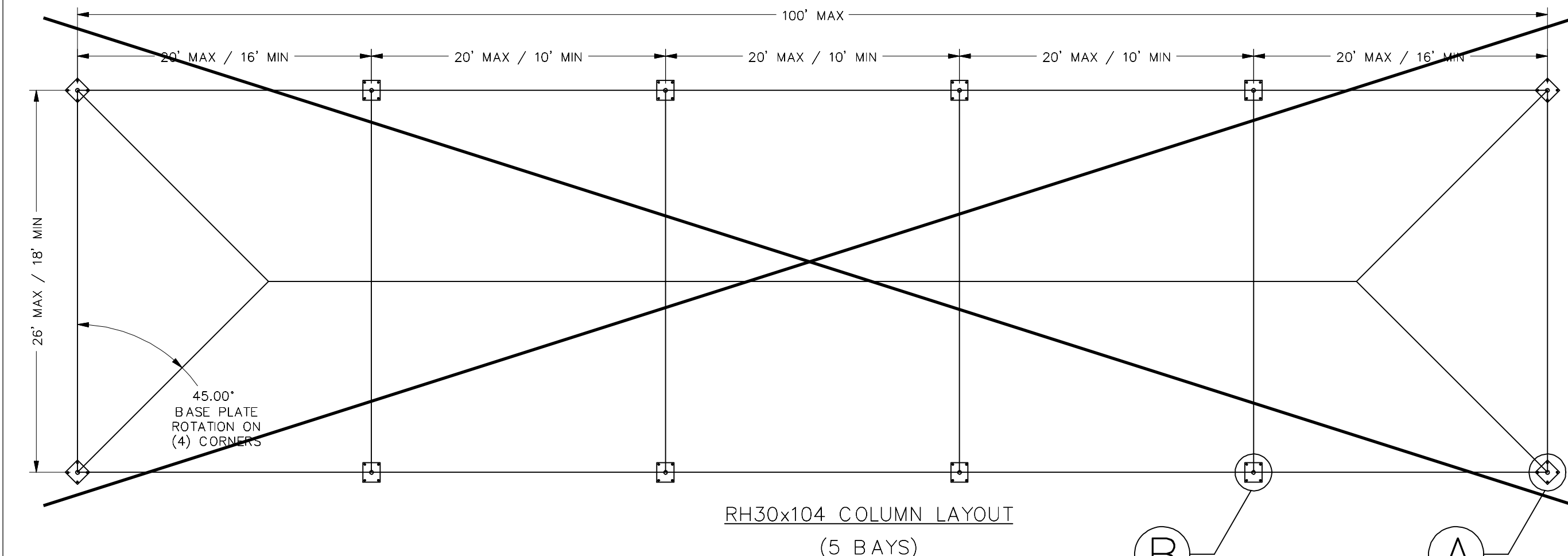
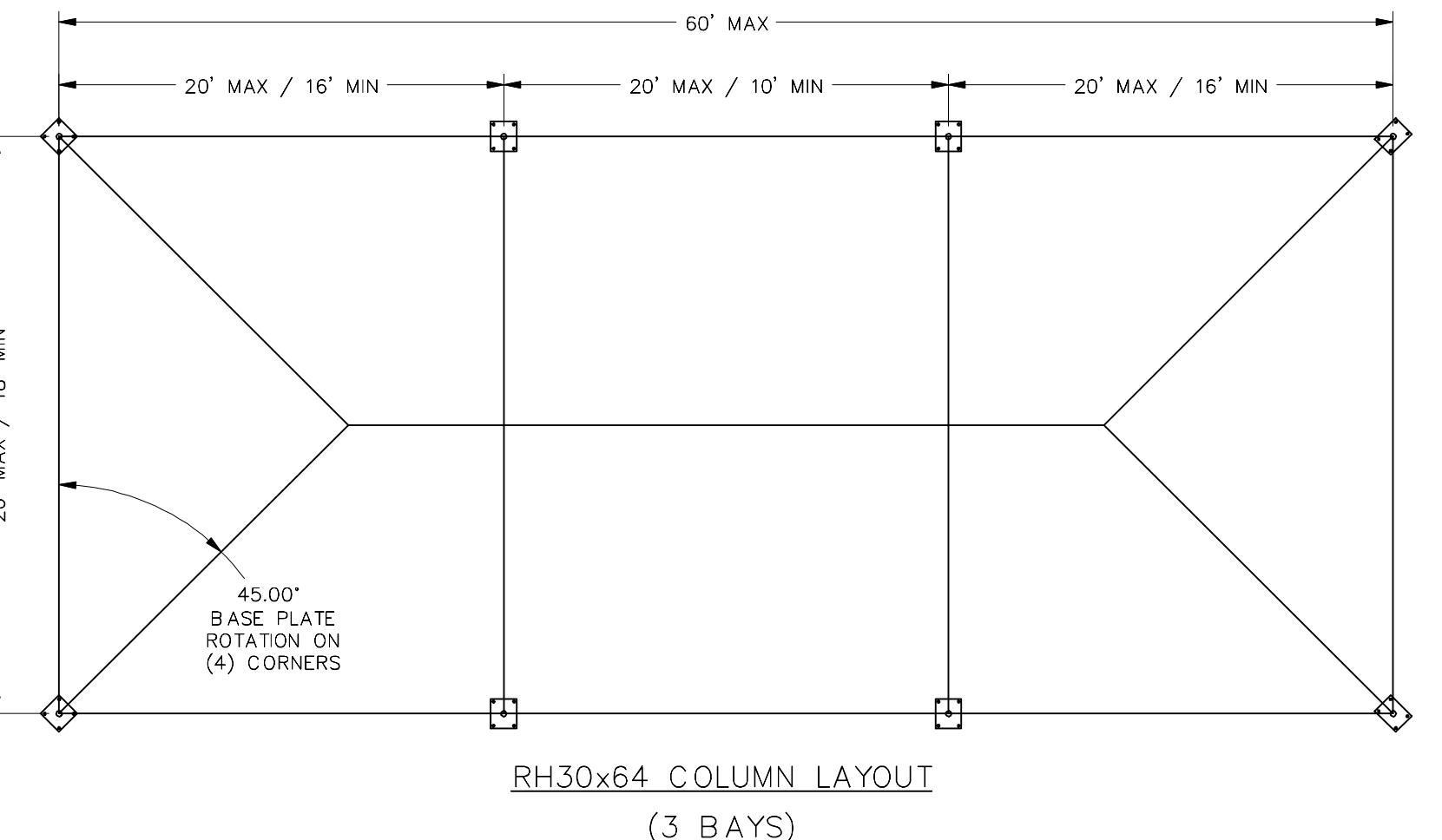
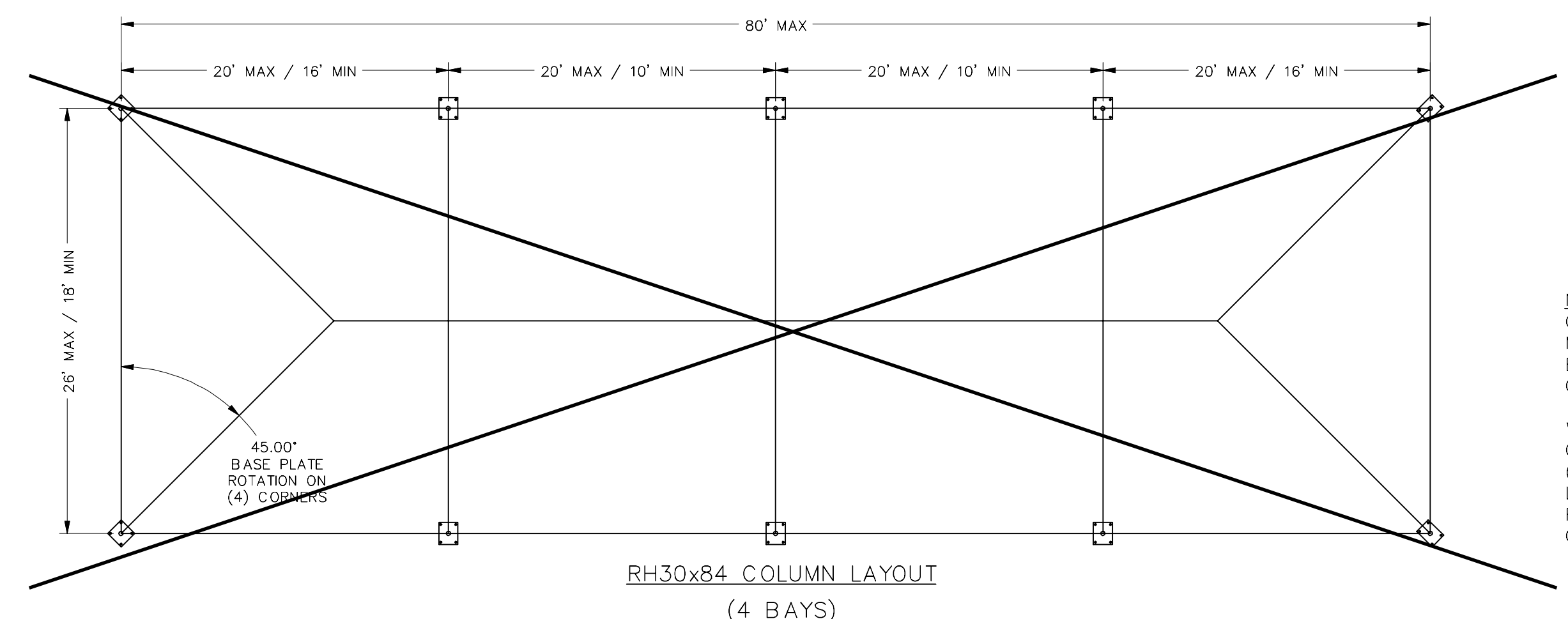
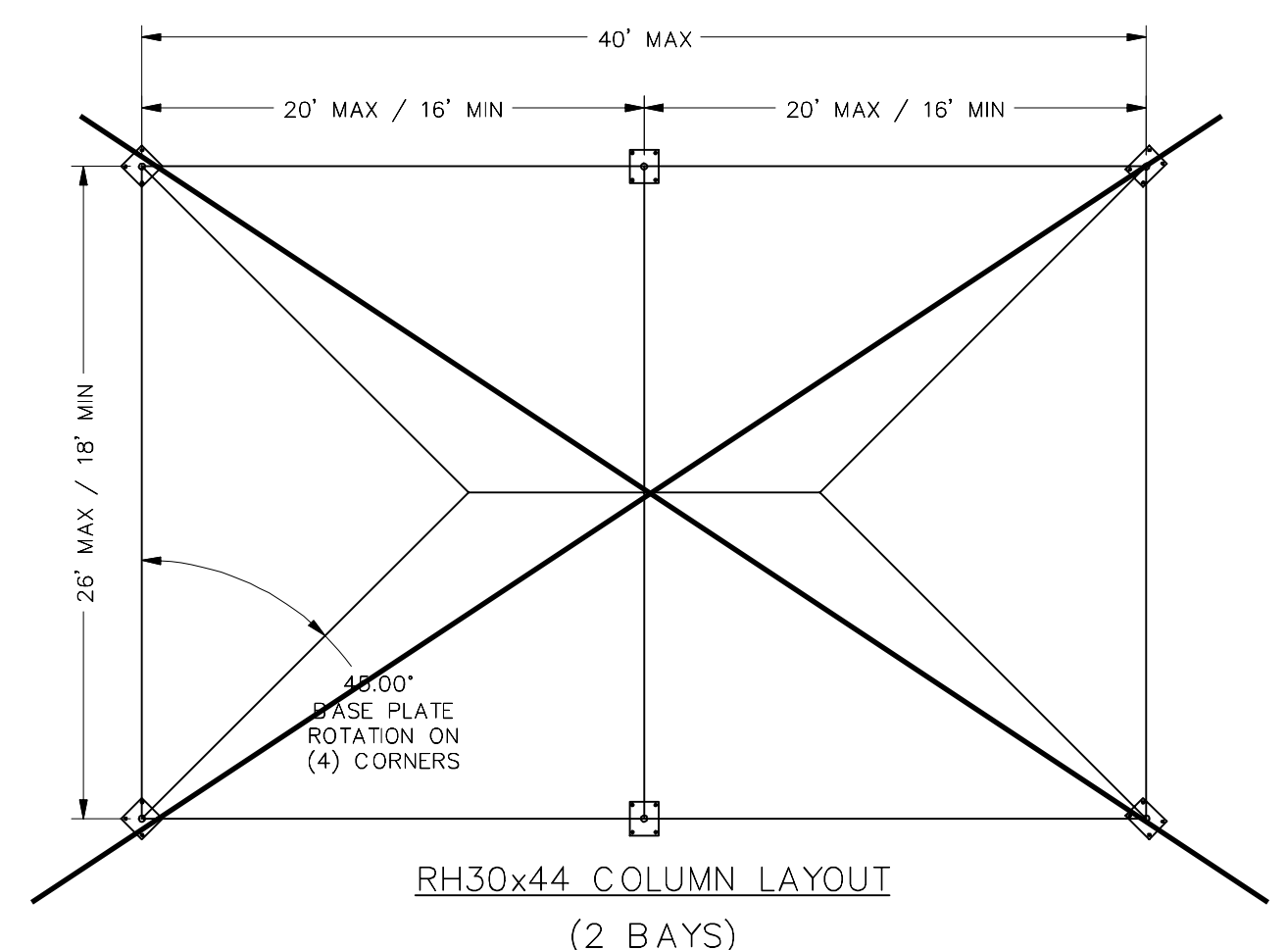
DSA 103



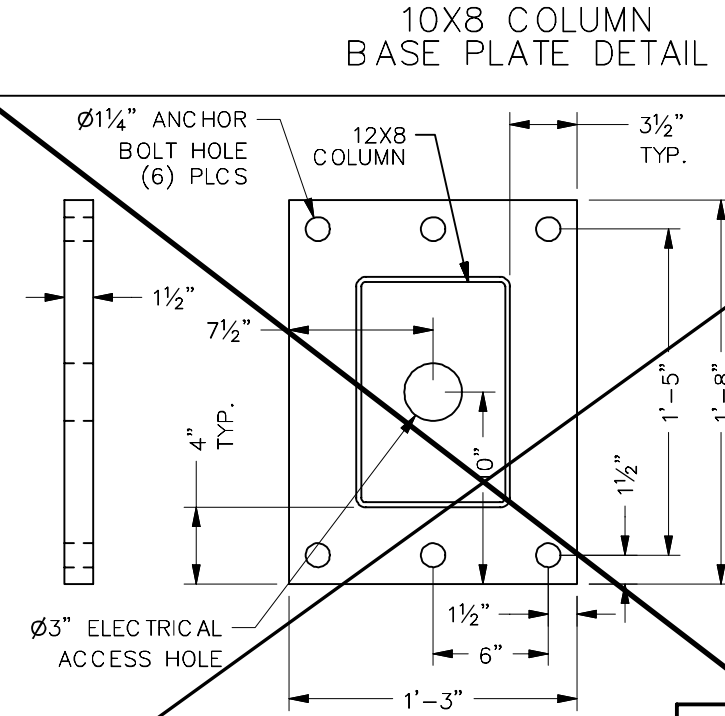
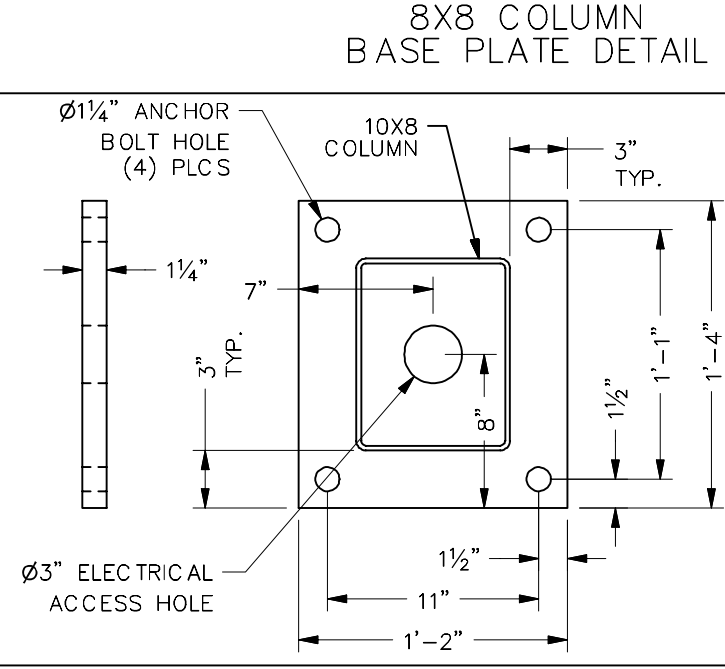
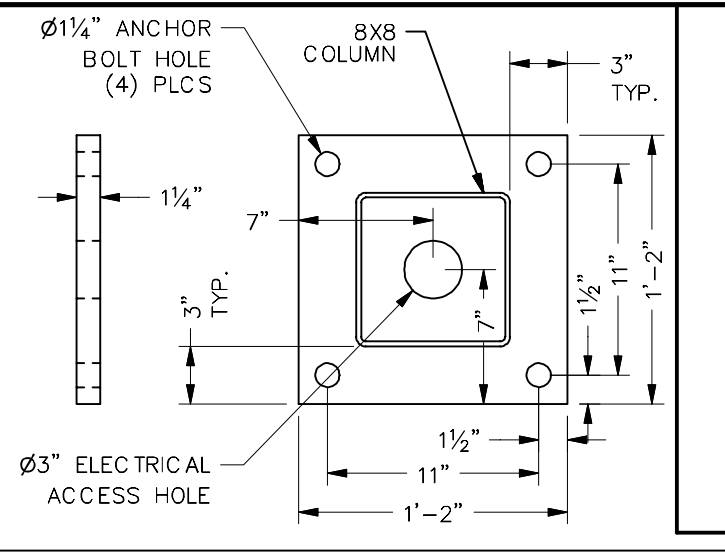
1455 LINCOLN AVE
HOLLAND MI, 49423
616.396.0919
800.748.0985
616.396.0944 FX

LS1.1

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.



BASE PLATE LOCATION	
DETAIL A	DETAIL B
8'	BP1
10'	BP1
12'	BP2



NOTES:
 COLUMN SIZE AND LOCATION WILL VARY DEPENDING ON MODEL TYPE ORDERED, PLEASE REFER TO JOB SPECIFIC BILL OF MATERIALS AND INSTALLATION MANUAL FOR CORRECT PLACEMENT AND SIZE.
 WHERE CONCRETE SLAB SPECIFIED PORTLAND CEMENT CONCRETE PAVING SHALL HAVE A MEDIUM SALTED (MEDIUM BROOM) FINISH ON ALL SURFACES SLOPED LESS THAN 6% AND SLIP RESISTANT (HEAVY BROOM FINISH) ON ALL SURFACES SLOPED GREATER THAN 6% CBC SECTION 1133B.7.1

ICON STD RH/DSA-PC
 DRAWN BY ANGEL
 DATE 4/2/2021
 REV
 REV DATE

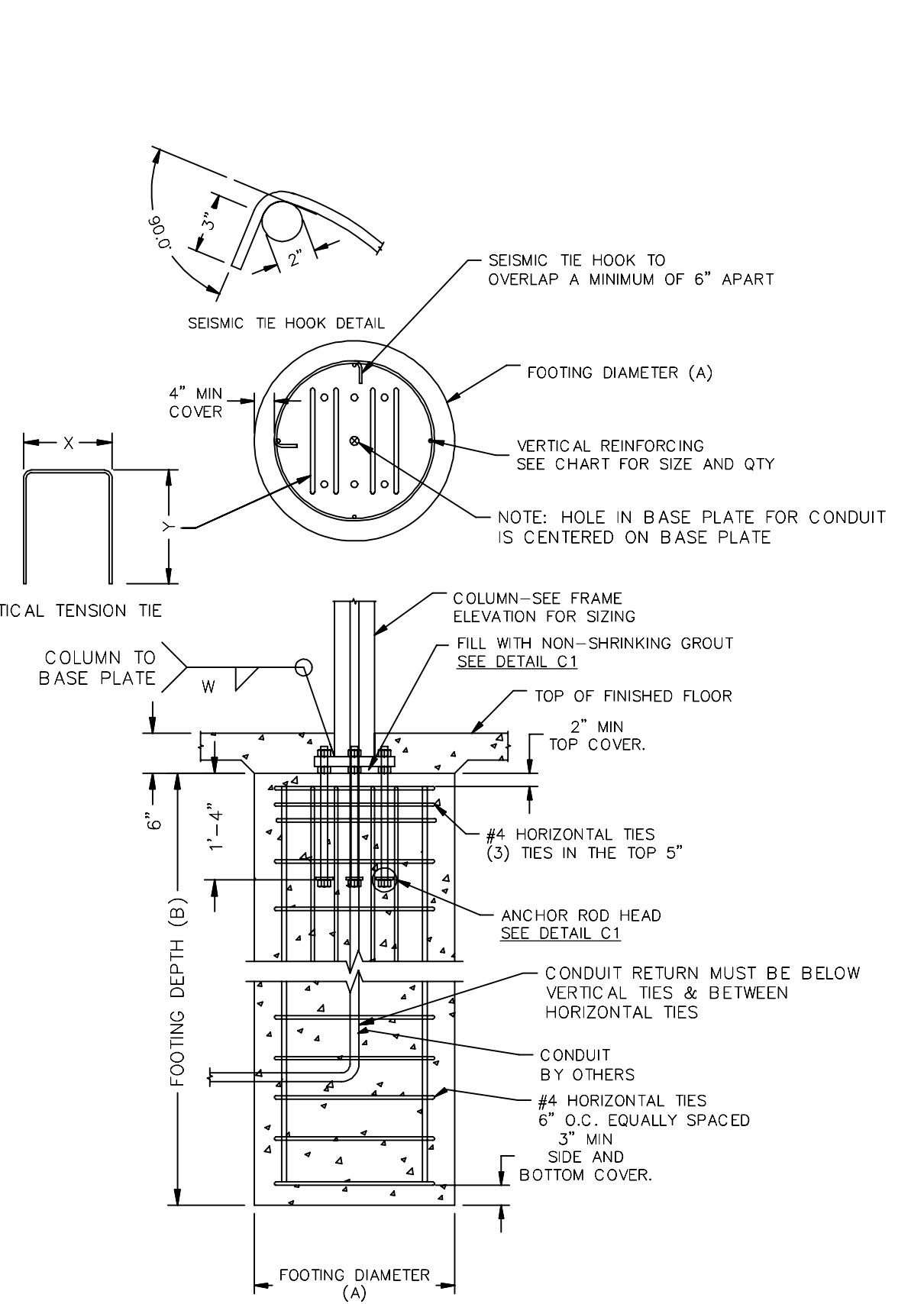
JRMA
 ARCHITECTS ENGINEERS
 2700 SATURN ST IRRGA, CA 92621
 T. 714.524.1870 F. 714.524.1875
 WWW.JRMA.COM

REGISTERED PROFESSIONAL ENGINEER
 ANGELO D. FORNARI
 STATE OF CALIFORNIA
 17/29/2021

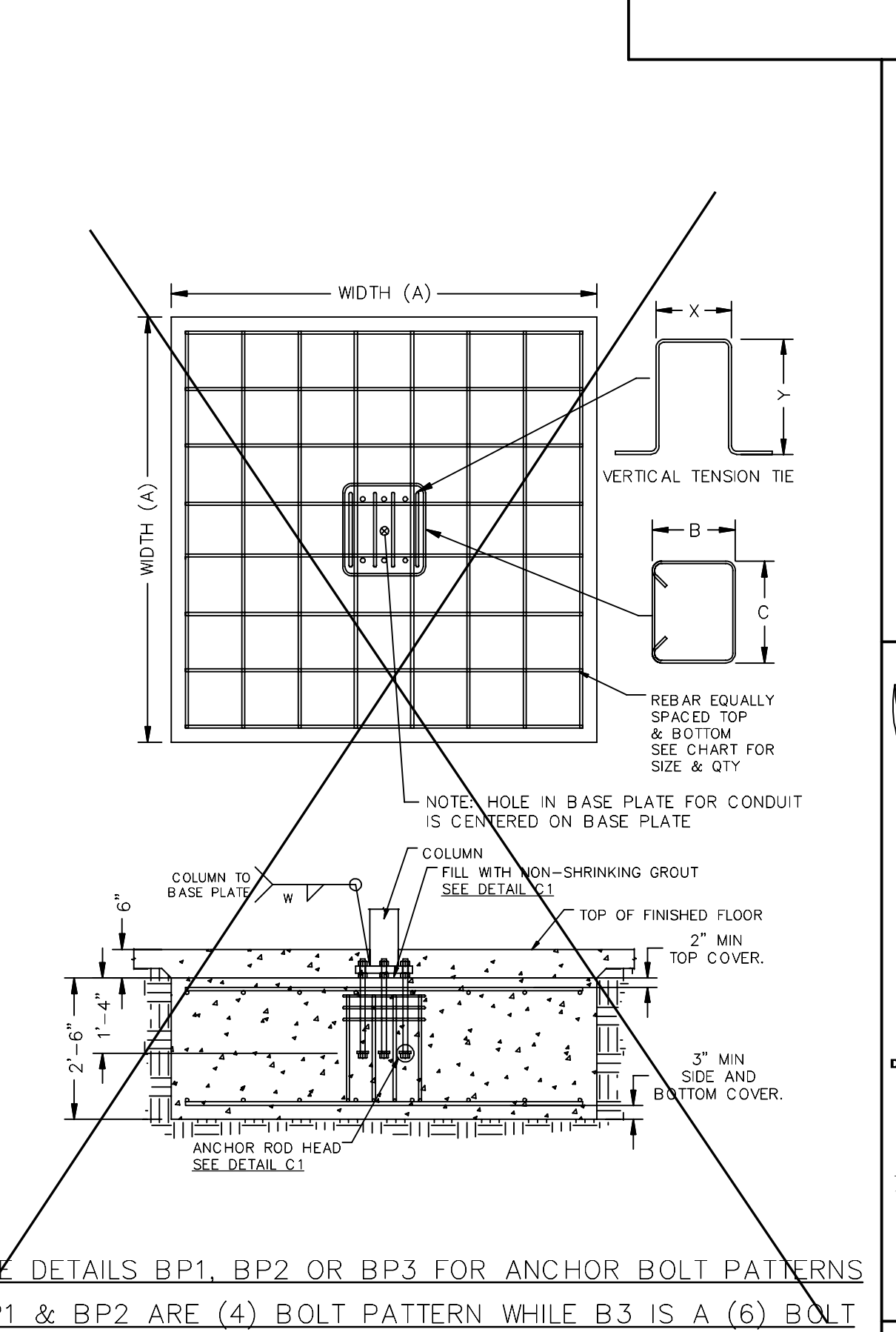
APPROVED
 DIV. OF THE STATE ARCHITECT
 APP-04-120013 PC
 REVIEWED FOR
 SS FLS ACS CG
 DATE: 08/06/2021

30' WIDE RECTANGULAR HIP

RH30 - PIER				
8' height - Corner Columns				
Soil Class 5 - 1500 psf Bearing				
Dia (A)	Depth (B)	Vertical Rebar Qty	Rebar Size	Weld
24	114	6	6	1/4
8' height - Side Columns				
Dia (A)	Depth (B)	Vertical Rebar Qty	Rebar Size	Weld
36	144	12	6	1/4
10' height - Corner Columns				
Dia (A)	Depth (B)	Vertical Rebar Qty	Rebar Size	Weld
24	120	6	6	1/4
10' height - Side Columns				
Dia (A)	Depth (B)	Vertical Rebar Qty	Rebar Size	Weld
36	136	12	6	1/4
12' height - Corner Columns				
Dia (A)	Depth (B)	Vertical Rebar Qty	Rebar Size	Weld
30	132	8	6	5/16
12' height - Side Columns				
Dia (A)	Depth (B)	Vertical Rebar Qty	Rebar Size	Weld
36	140	12	6	1/4



RH30 - SPREAD				
8' height - Corner Columns				
Soil Class 5 - 1500 psf Bearing				
Size (A)	Depth (B)	T&B Qty	Rebar Size	Weld
60	30	4	6	1/4
8' height - Side Columns				
Size (A)	Depth (B)	T&B Qty	Rebar Size	Weld
80	30	5	6	1/4
10' height - Corner Columns				
Size (A)	Depth (B)	T&B Qty	Rebar Size	Weld
66	30	5	6	1/4
10' height - Side Columns				
Size (A)	Depth (B)	T&B Qty	Rebar Size	Weld
84	30	6	6	1/4



SEE DETAILS BP1, BP2 OR BP3 FOR ANCHOR BOLT PATTERNS
 BP1 & BP2 ARE (4) BOLT PATTERN WHILE BP3 IS A (6) BOLT

SEE DETAILS BP1, BP2 OR BP3 FOR ANCHOR BOLT PATTERNS
 BP1 & BP2 ARE (4) BOLT PATTERN WHILE BP3 IS A (6) BOLT

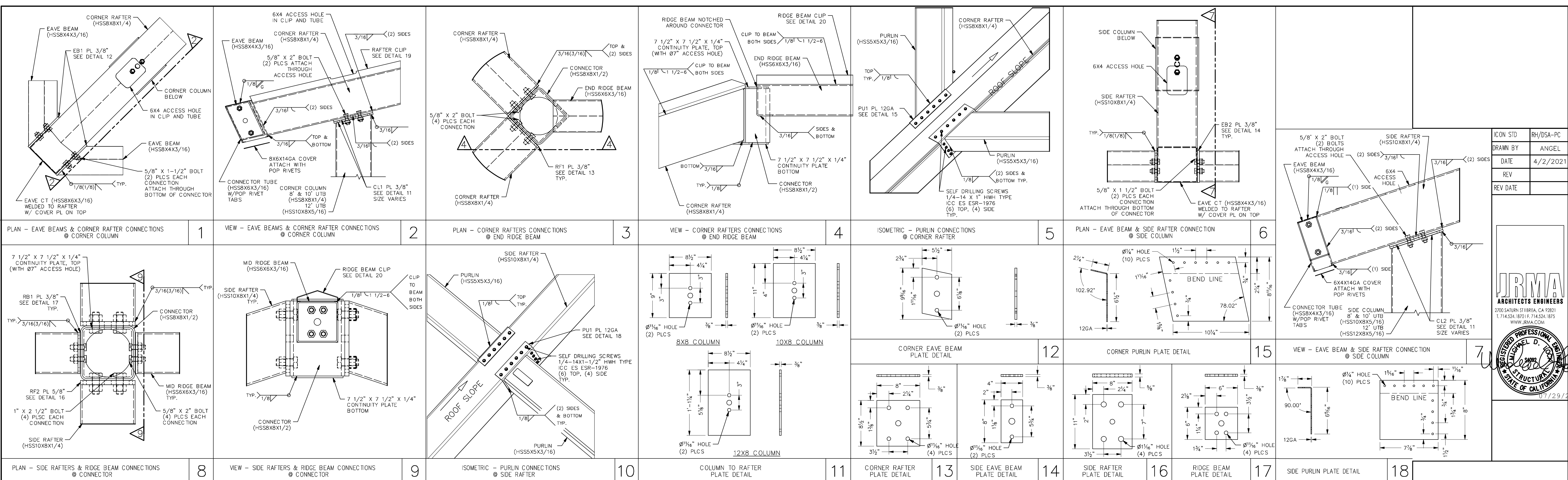
PRE-CHECK (PC) DOCUMENT
 Code: 2019 CBC
 A separate project application for construction is required.

30' WIDE RECTANGULAR HIP FOUNDATION PLAN

ICON
 Shelter Systems Inc
 DISTINCTIVE STEEL SHELTERS
 WWW.ICONSHELTERS.COM
 COPYRIGHT 2004, ICON SHELTER SYSTEMS, INC.
 1455 LINCOLN AVE
 HOLLAND MI, 49423
 616.396.0919
 800.748.0985
 616.396.0944 FX

LS3.0

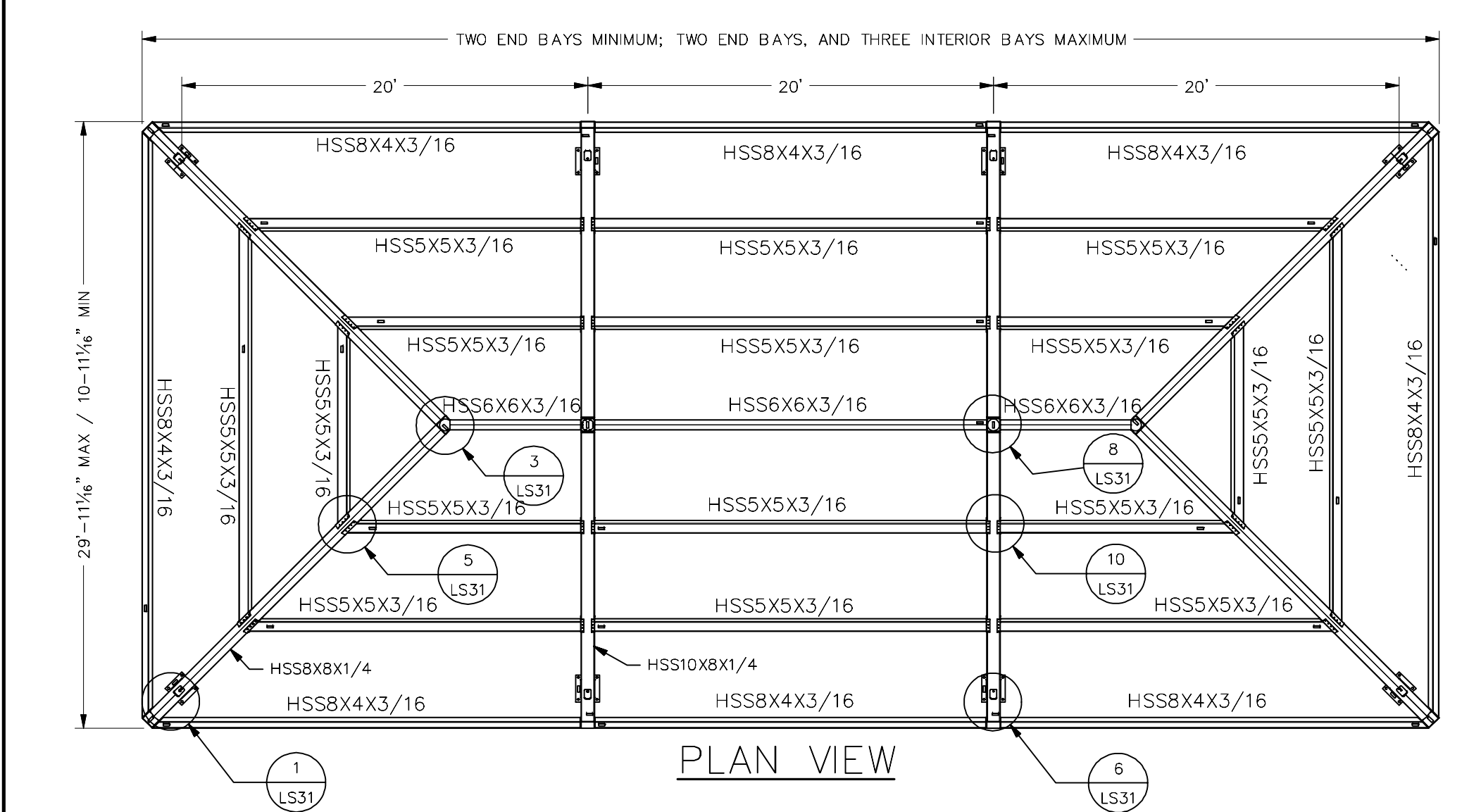
PRINTED ON :



ICON STD RH/DSA-PC
 DRAWN BY ANGEL
 DATE 4/2/2021
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 REV DATE

JRMA
 ARCHITECTS ENGINEERS
 2700 SATURN ST IRRIGA, CA 92621
 T. 714.524.8701 F. 714.524.1875
 WWW.JRMA.COM

REGISTERED PROFESSIONAL ENGINEER
 ANGELO D. JOY
 LICENSE NO. 44890
 STATE OF CALIFORNIA



MODEL DESIGNATION

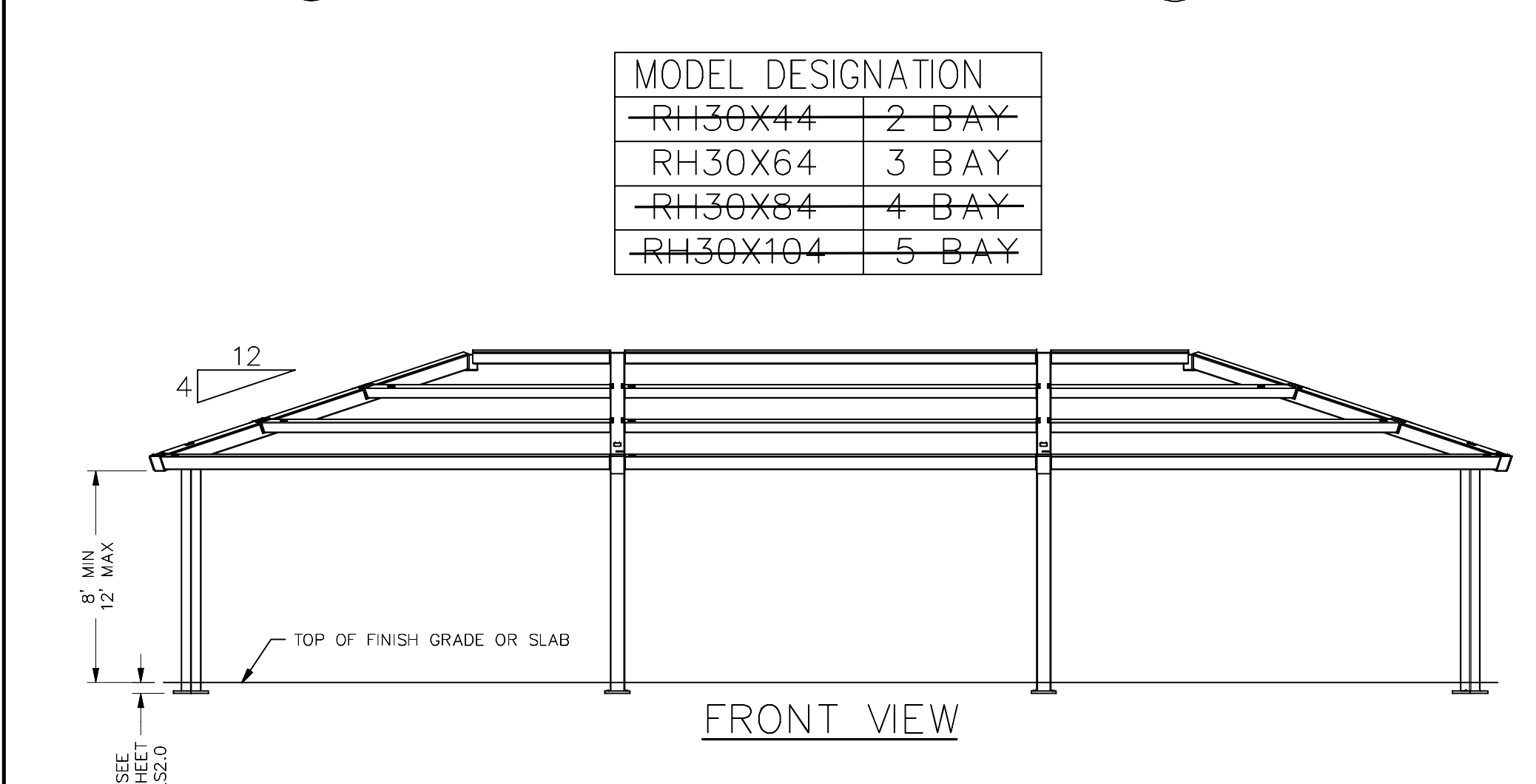
RH30X44	2 BAY
RH30X64	3 BAY
RH30X84	4 BAY
RH30X104	5 BAY

*NOTE: QUANTITIES WILL VARY DEPENDING ON SHELTER SIZE ORDERED, PLEASE REFER TO JOB SPECIFIC BILL OF MATERIALS AND INSTALLATION MANUAL.

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	LENGTH	UNIT WEIGHT
1	4		CORNER COLUMN	**SEE NOTE BELOW		353 lbmass
2	*		SIDE COLUMN	**SEE NOTE BELOW		399 lbmass
3	2		LH SIDE EAVE BEAM	HSS8X4X3/16		311 lbmass
4	2		RH SIDE EAVE BEAM	HSS8X4X3/16		311 lbmass
5	2		END EAVE BEAM	HSS8X4X3/16		422 lbmass
6	*		SIDE EAVE BEAM	HSS8X4X3/16		287 lbmass
7	4		CORNER RAFTER	HSS8X8X1/4		607 lbmass
8	*		SIDE RAFTER	HSS10X8X1/4		474 lbmass
9	2		END RIDGE BEAM	HSS6X6X3/16		149 lbmass
10	*		MID RIDGE BEAM	HSS6X6X3/16		329 lbmass
11	*		CONNECTOR	HSS8X8X1/2		48 lbmass
12	2		LH SIDE PURLIN 1	HSS5X5X3/16		238 lbmass
13	2		RH SIDE PURLIN 1	HSS5X5X3/16		238 lbmass
14	2		END PURLIN 1	HSS5X5X3/16		278 lbmass
15	2		LH SIDE PURLIN 2	HSS5X5X3/16		167 lbmass
16	2		RH SIDE PURLIN 2	HSS5X5X3/16		167 lbmass
17	2		END PURLIN 2	HSS5X5X3/16		137 lbmass
18	*		MID PURLIN	HSS5X5X3/16		284 lbmass

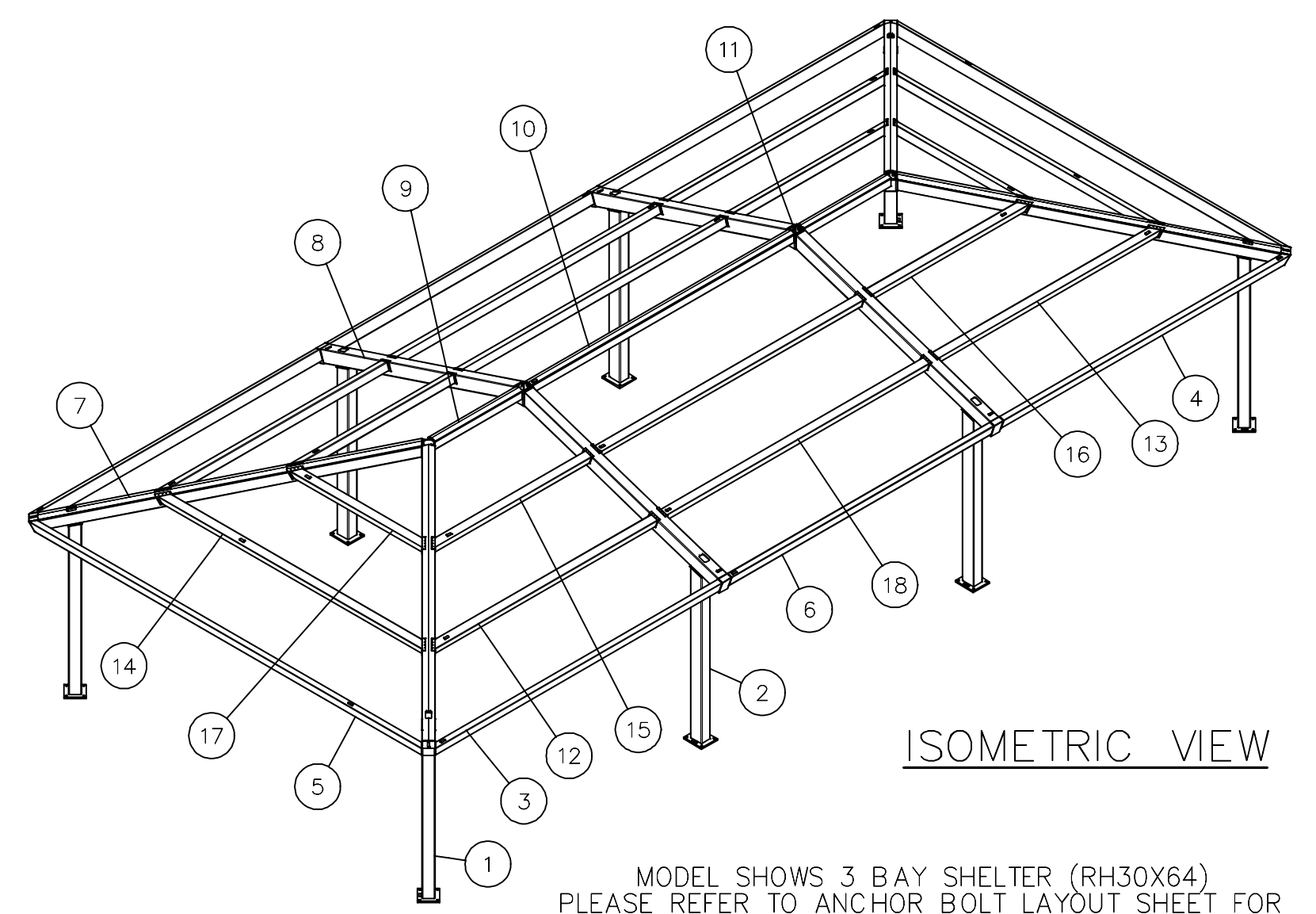
**NOTE: MATERIAL WILL VARY DEPENDING ON SHELTER SIZE ORDERED.

- CORNER COLUMN 8' UTB - (HSS8X8X1/4)
- SIDE COLUMN 8' UTB - (HSS10X8X5/16)
- CORNER COLUMN 10' UTB - (HSS8X8X1/4)
- SIDE COLUMN 10' UTB - (HSS10X8X5/16)
- CORNER COLUMN 12' UTB - (HSS10X8X5/16)
- SIDE COLUMN 12' UTB - (HSS12X8X5/16)



96" MIN IF USED OVER ACCESSIBLE PARKING OR ACCESS AISLES

114" MIN IF LOCATED OVER ACCESSIBLE PASSENGER LOADING ZONES



MODEL SHOWS 3 BAY SHELTER (RH30X64)
 PLEASE REFER TO ANCHOR BOLT LAYOUT SHEET FOR CORRECT COLUMN PLACEMENT BASED ON SIZE ORDERED

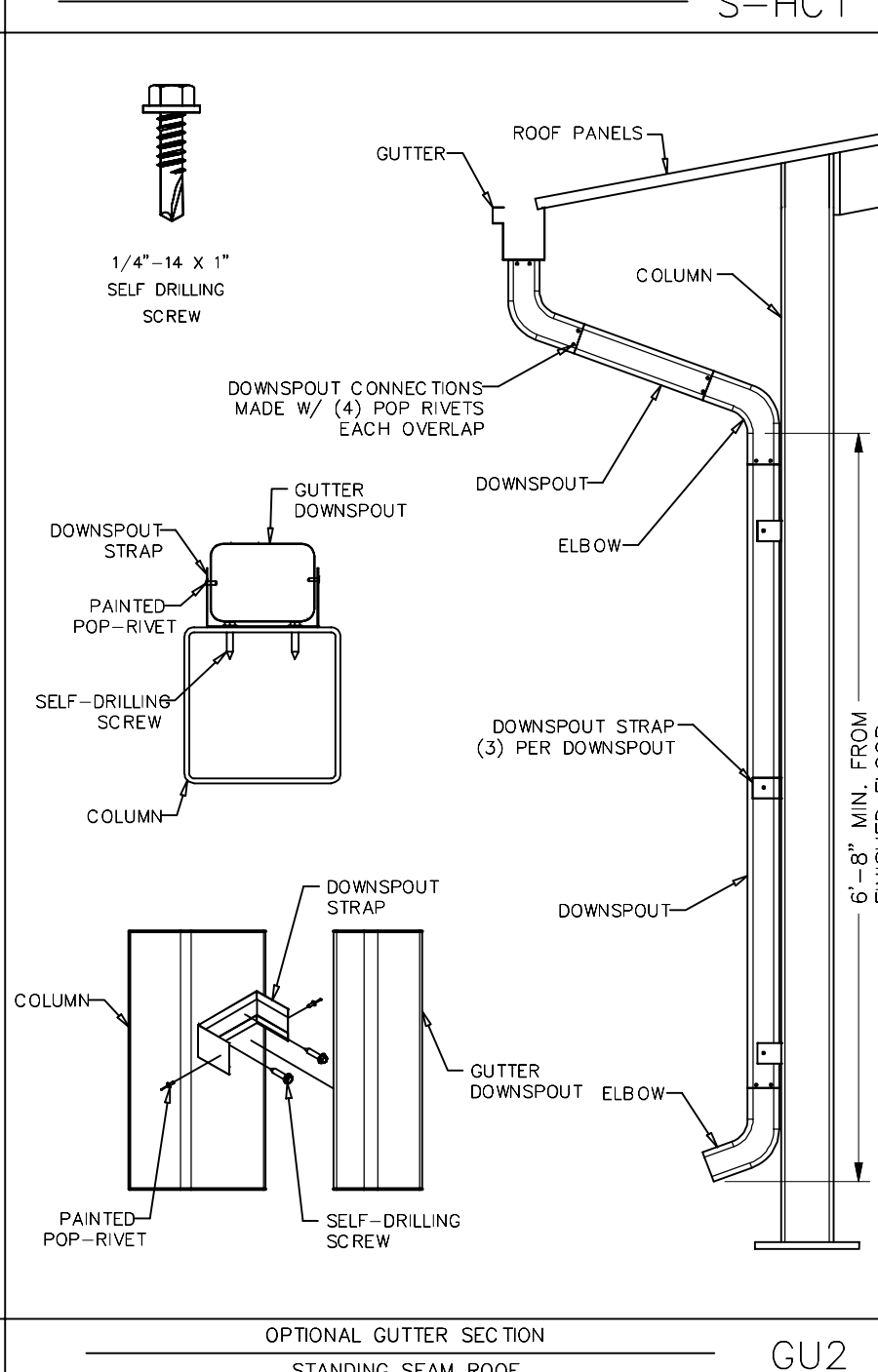
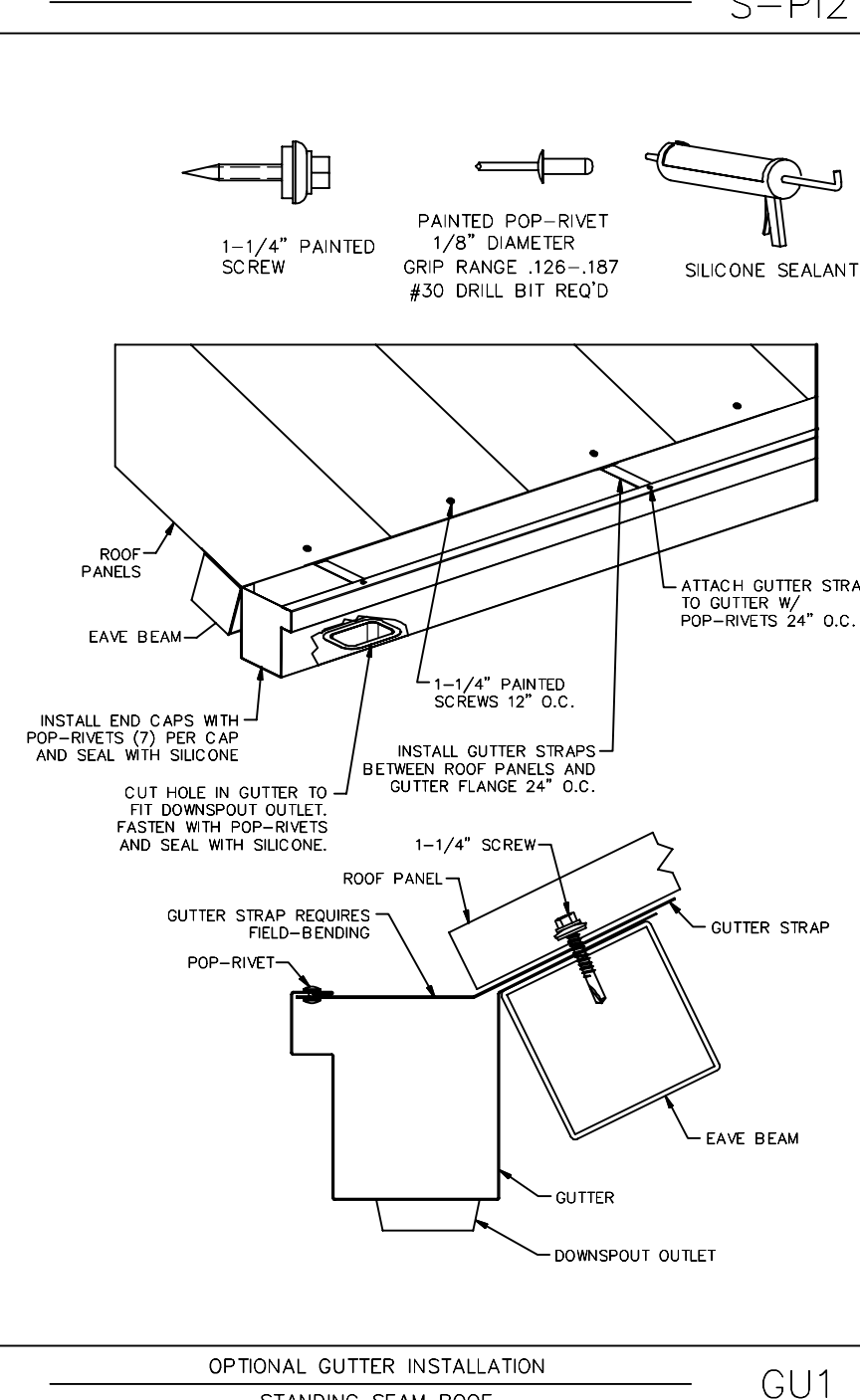
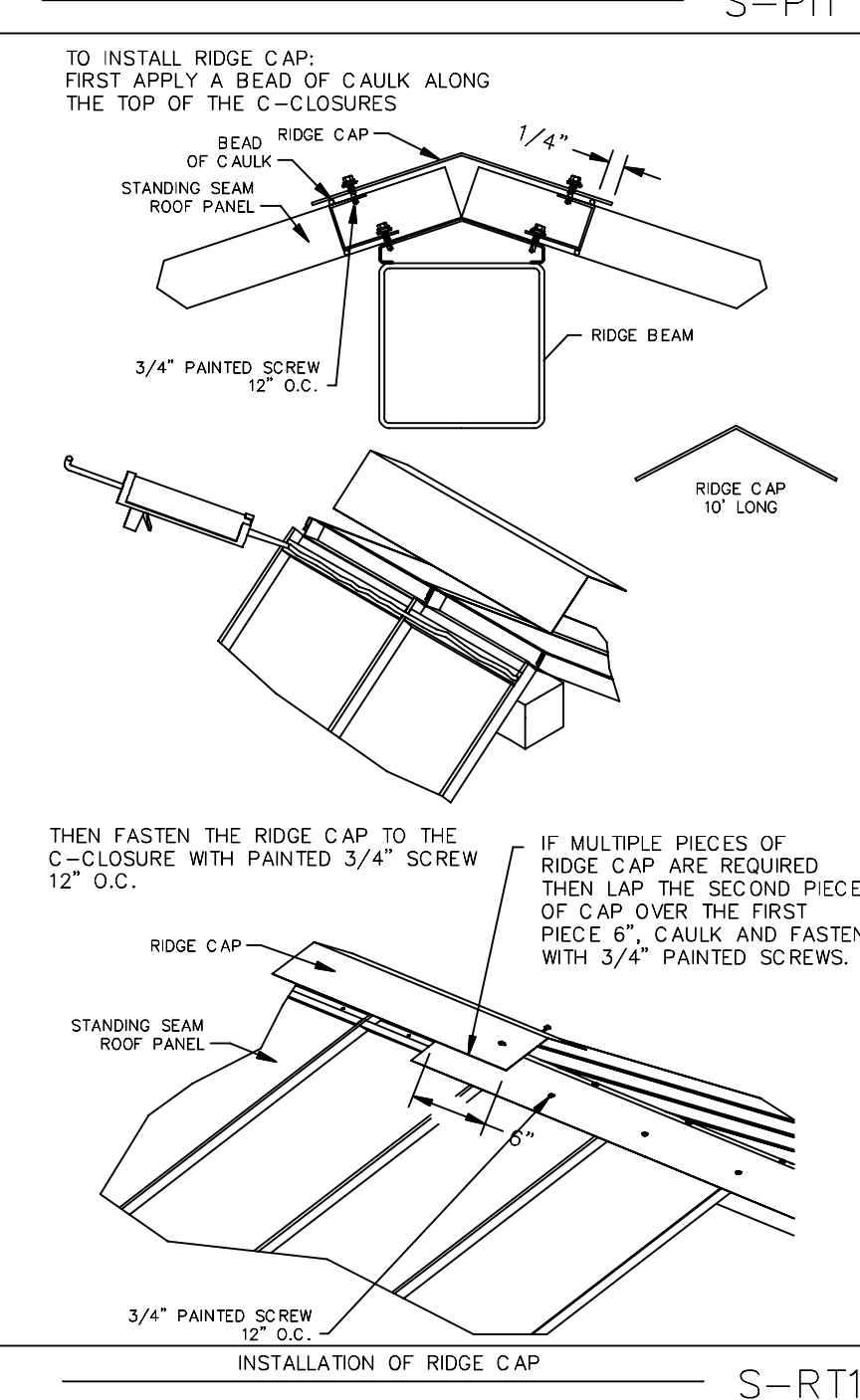
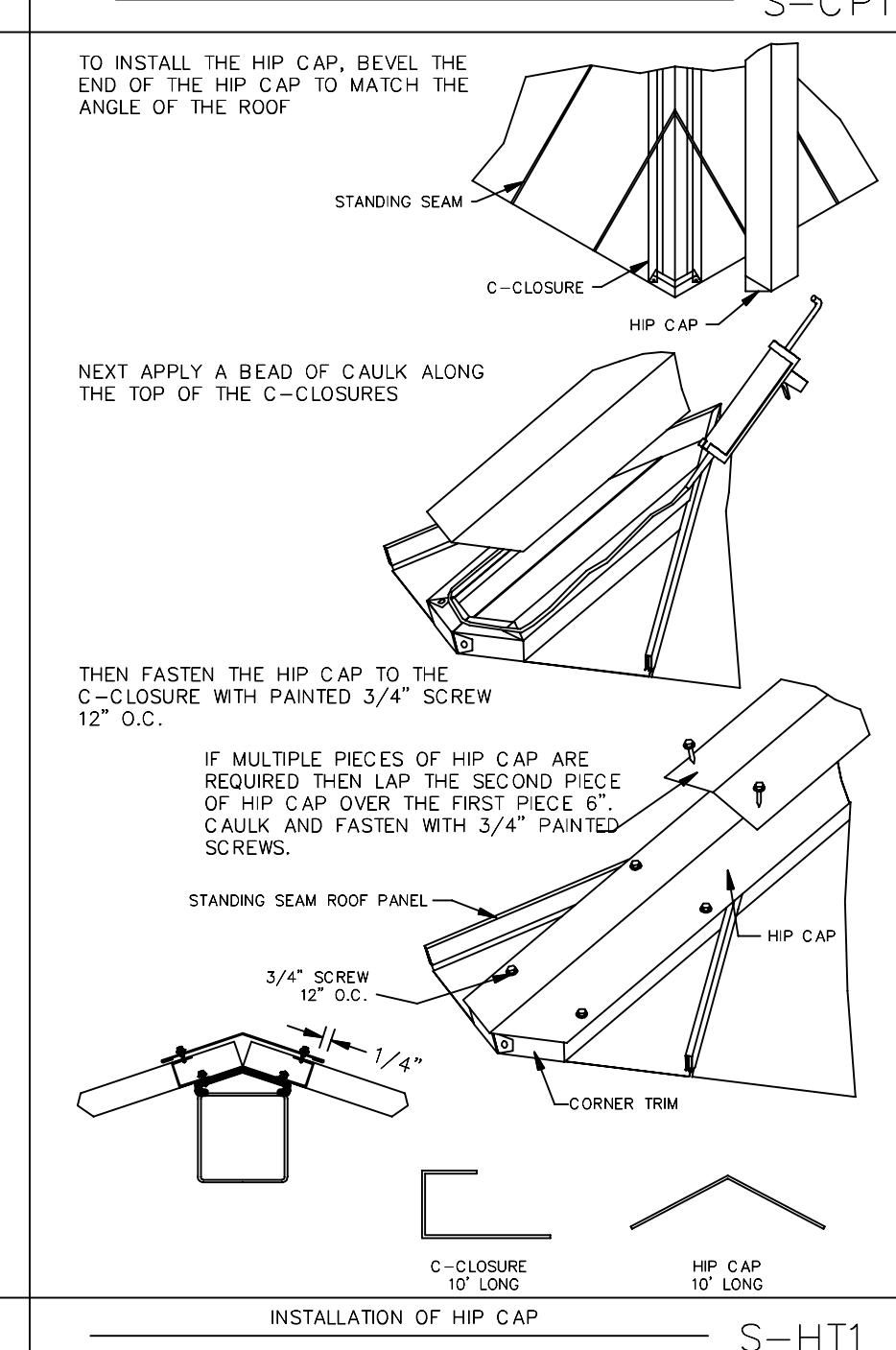
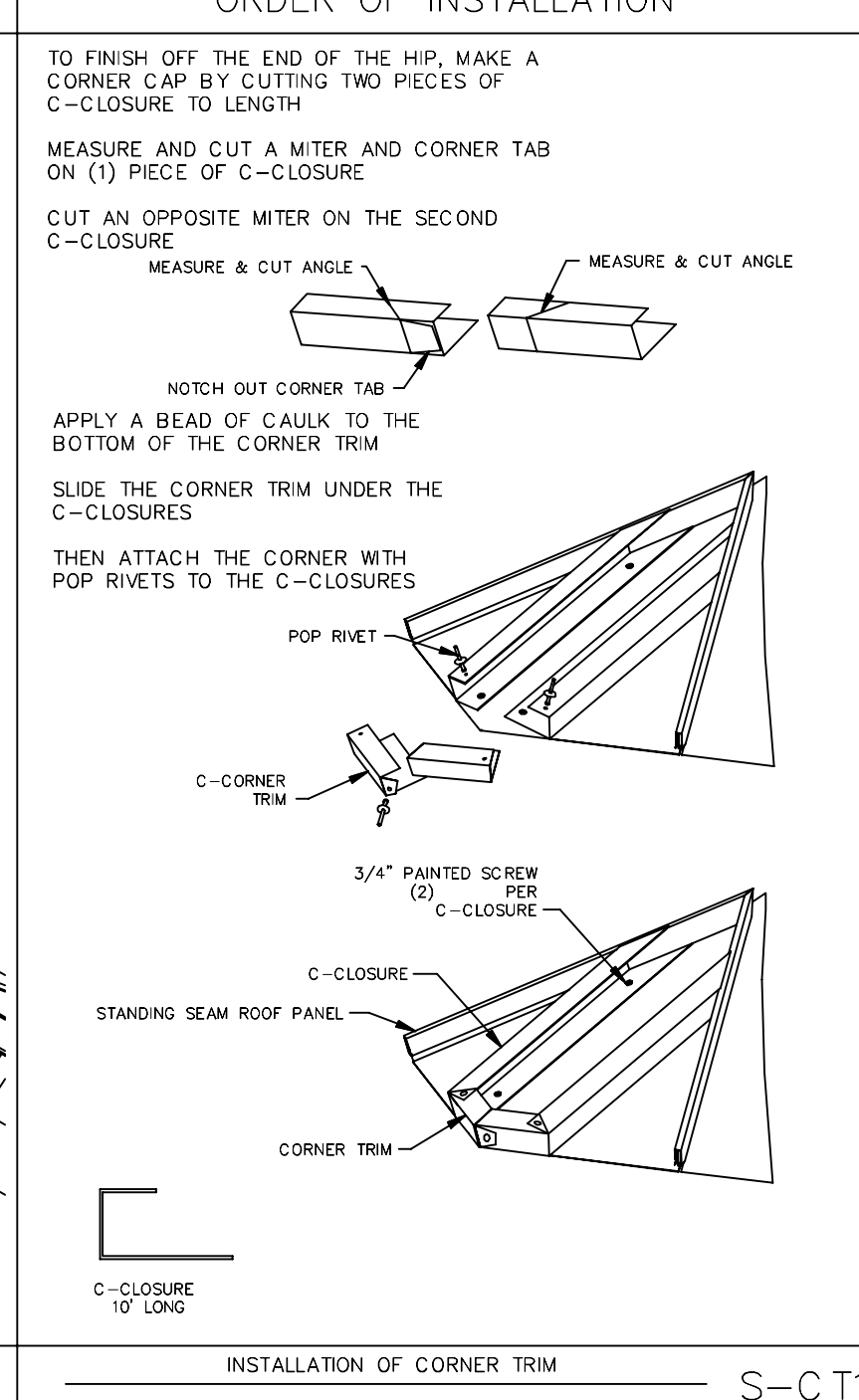
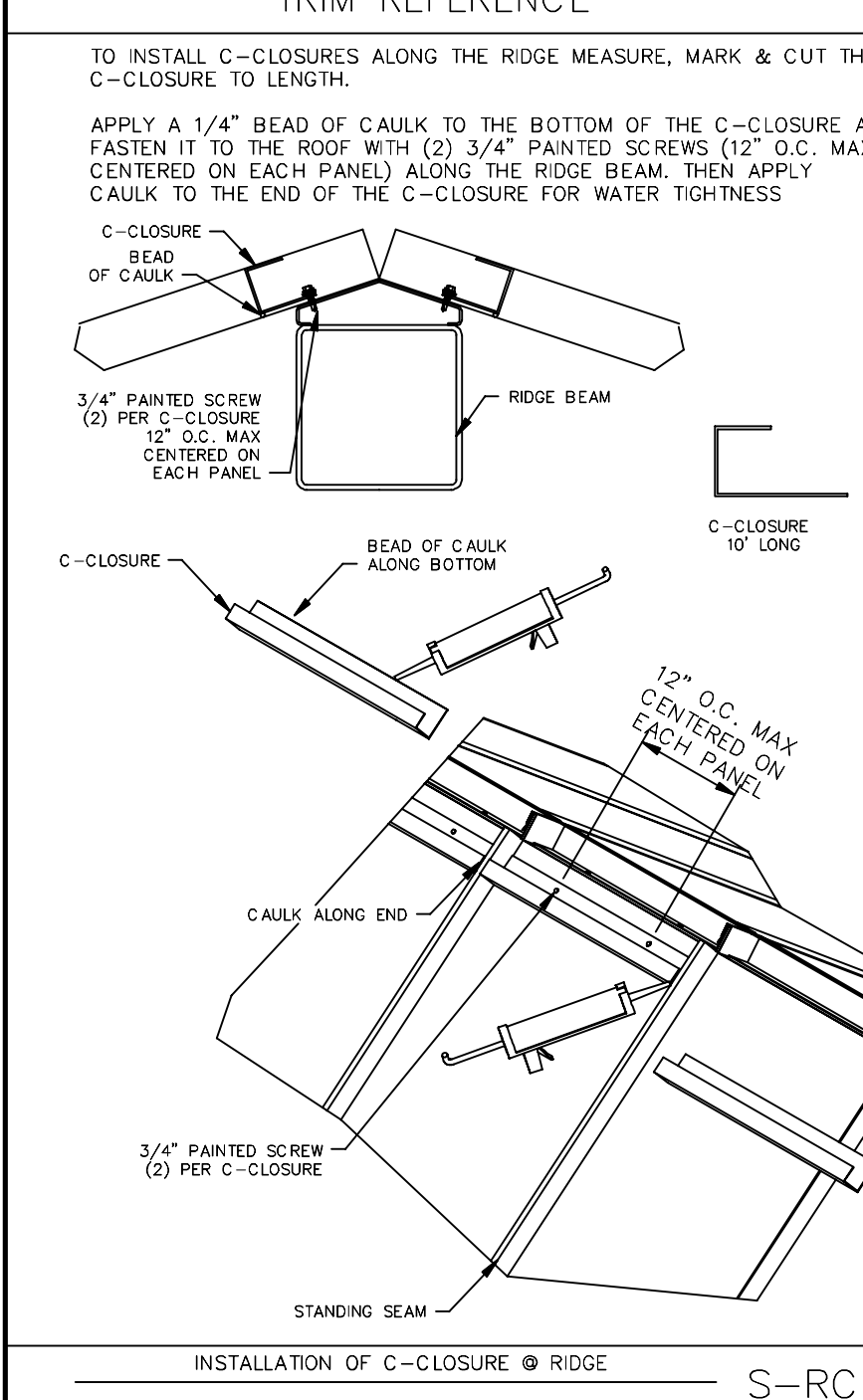
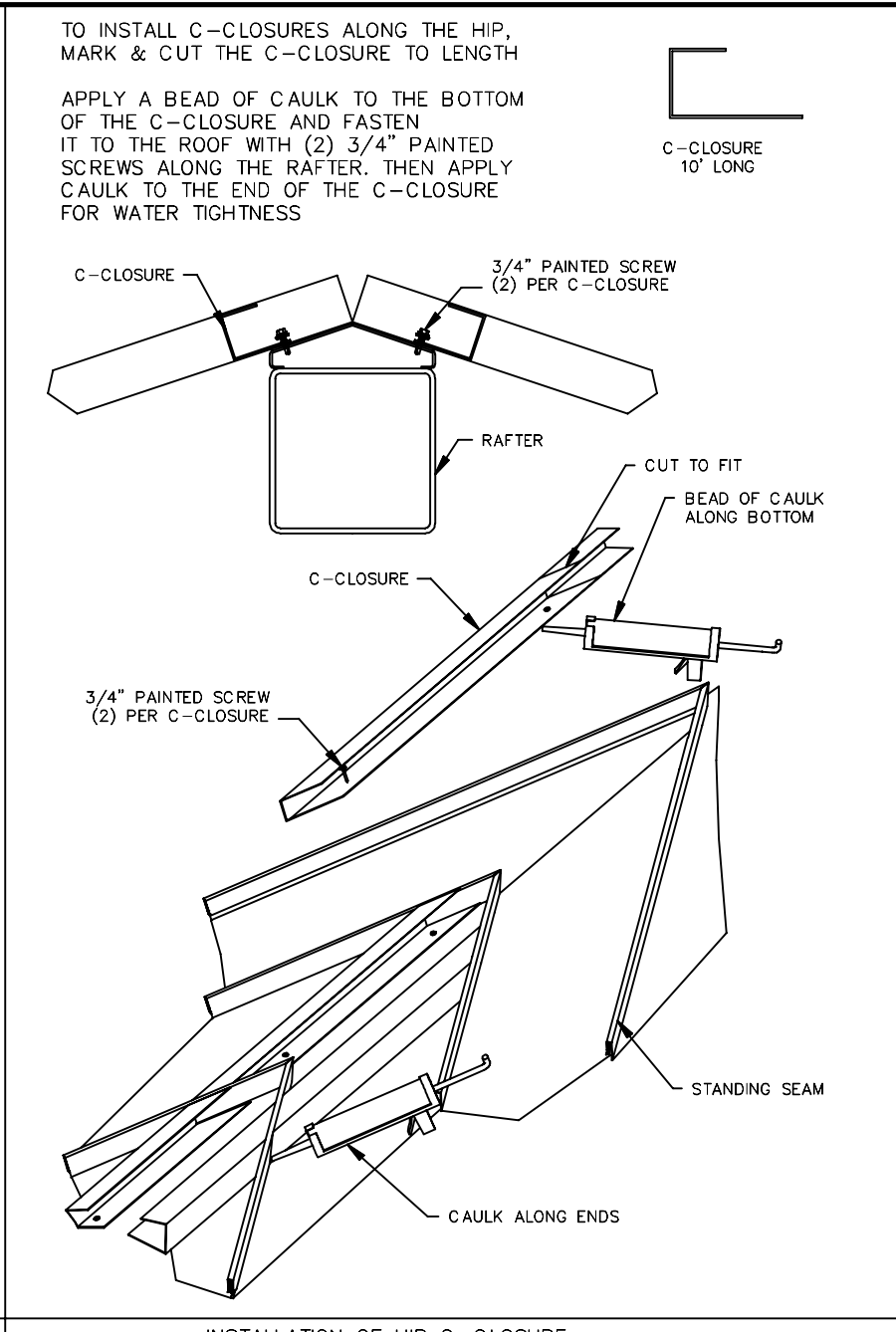
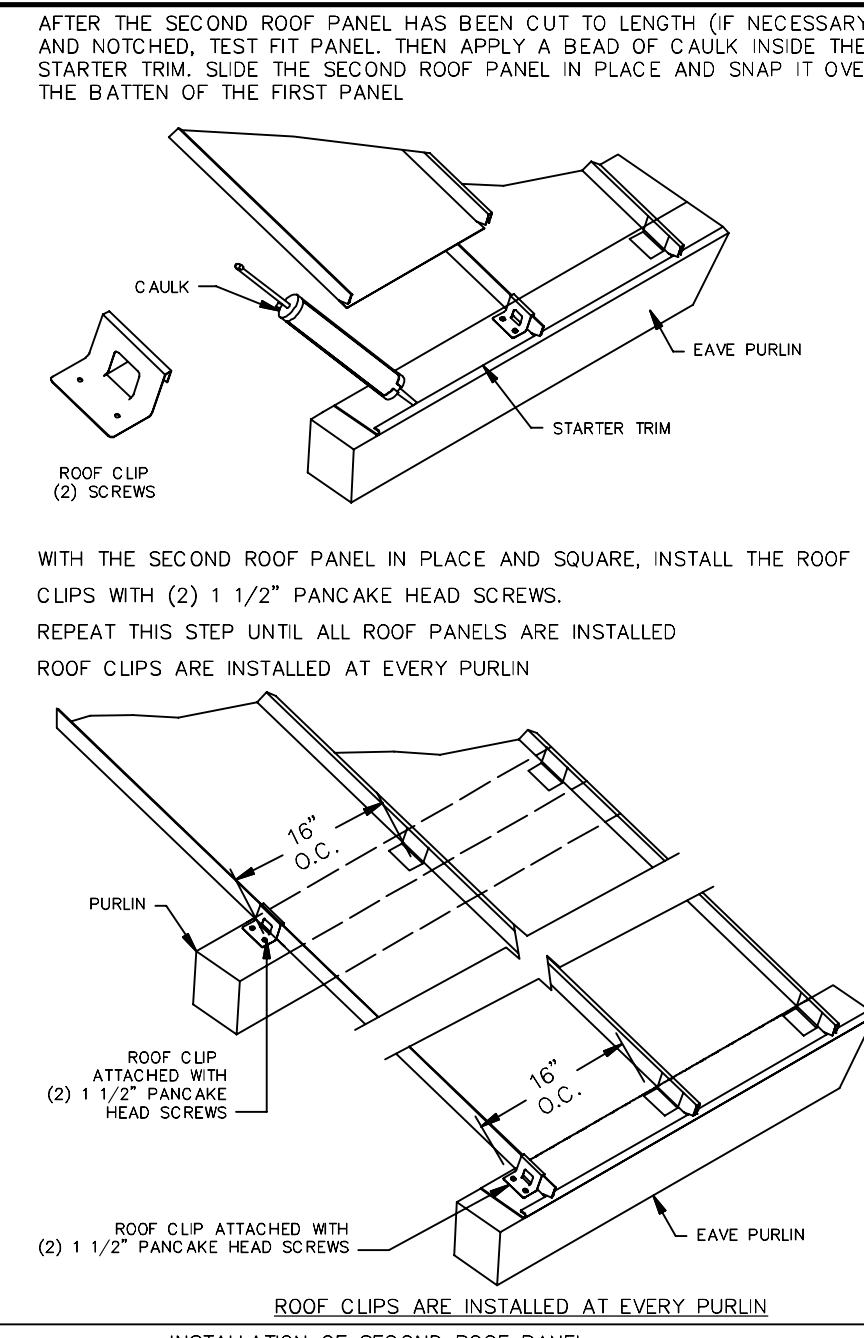
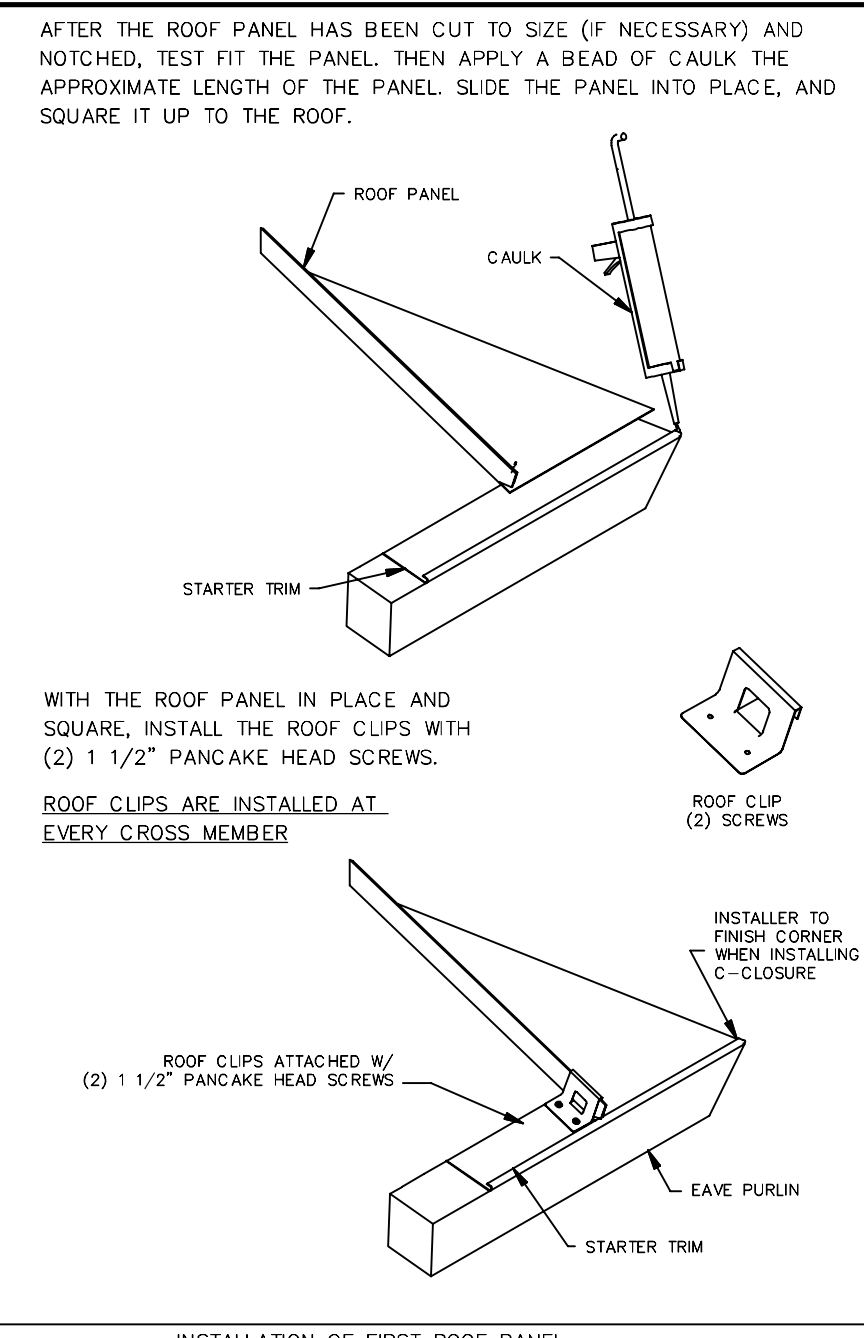
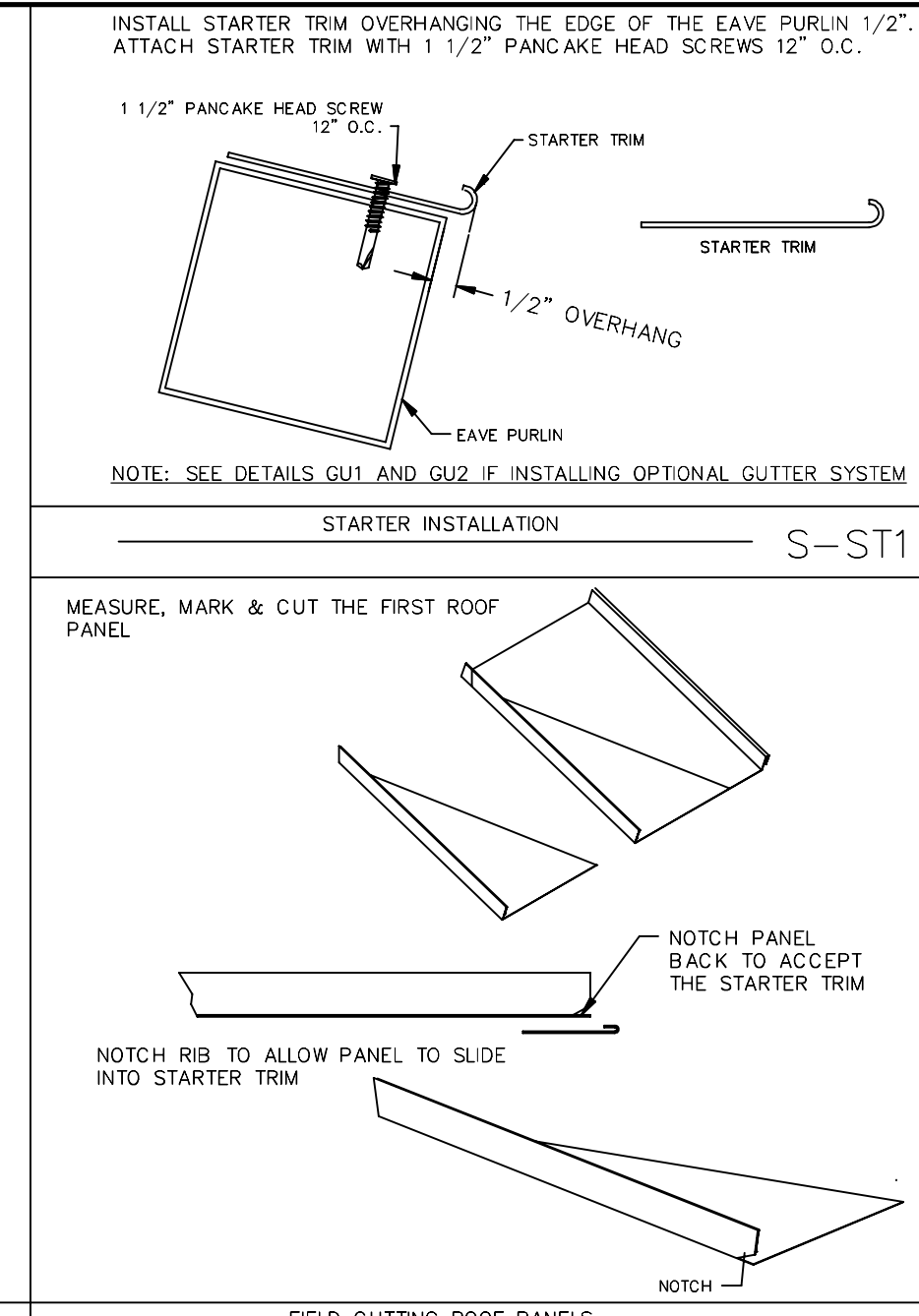
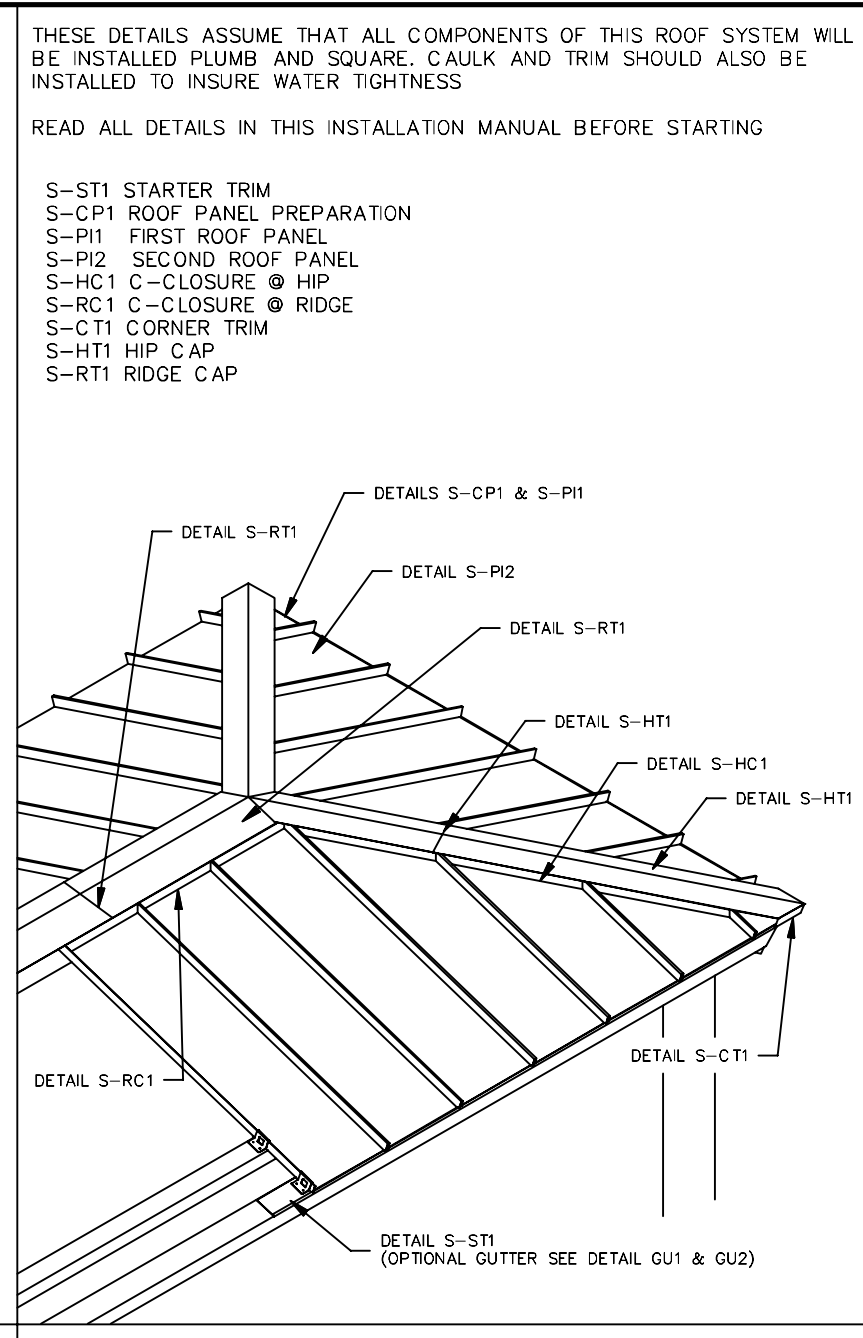
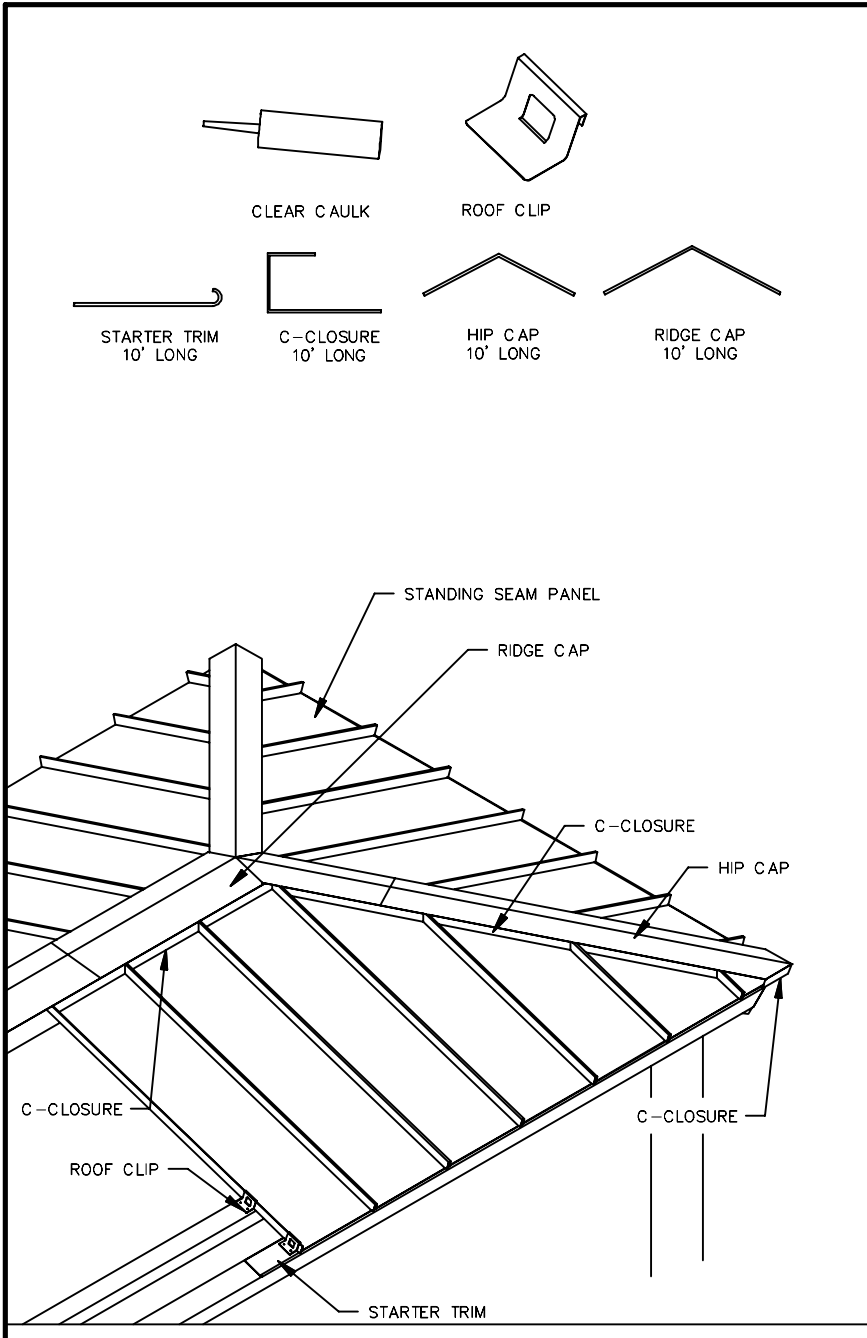
APPROVED
 DIV. OF THE STATE ARCHITECT
 APP-04-120013 PC
 REVIEWED FOR
 SS FLS ACS CG
 DATE: 08/06/2021

30' WIDE
 RECTANGULAR HIP
 FRAMING &
 CONNECTION DETAILS

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 HOLLAND MI, 49423
 616.396.0919
 800.748.0985
 616.396.0944 FX

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 A separate project application for construction is required.

LS3.1



ROOF NOTES

ATTENTION INSTALLERS: METAL SHAVINGS LEFT ON ROOF WILL QUICKLY RUST AND STAIN THE ROOF FINISH!

DRILLING OR INSTALLING ROOF FASTENERS WILL CAUSE METAL SHAVINGS. THESE SHAVINGS MUST BE CAREFULLY REMOVED AT THE END OF EACH DAY BY EITHER SWEEPING OR BRUSHING THE INSTALLED ROOF.

<p>INSTALLED CORRECTLY</p> <p>THE SEALING MATERIAL IS VISIBLE AROUND THE METAL WASHER</p>	<p>INSTALLED TOO TIGHT</p> <p>THE SEALING MATERIAL IS DEFORMED BEYOND THE EDGE OF THE METAL WASHER</p>	<p>INSTALLED TOO LOOSE</p> <p>THE SEALING MATERIAL IS NOT VISIBLE AROUND THE EDGE OF THE METAL WASHER</p>
--	---	--

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

THE ERECTOR SHOULD THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL INSTALLATION INSTRUCTION MATERIAL BEFORE STARTING WORK.

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

ERECTORS SHALL BE RESPONSIBLE TO ENSURE THAT THE DETAILS MEET PARTICULAR BUILDING REQUIREMENTS AND TO ASSURE ADEQUATE WATER TIGHTNESS.

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

SOME FIELD CUTTING AND/OR FITTING OF PANELS, TRIM AND FLASHING IS TO BE EXPECTED BY THE ERECTOR. MINOR FIELD CORRECTIONS ARE PART OF NORMAL ERECTION WORK.

THE INSTALLATION SHALL BE PERFORMED BY EXPERIENCED METAL CRAFTSPERSON AND WORKMANSHIP SHALL MEET THE BEST INDUSTRY STANDARDS.

3/4" PAINTED SCREW (4) PER C-CLOSURE
HWH
ICC ESR-1976

1 1/2" PANCAKE HEAD SCREW 12-24 x 1 1/2" SDS
ICC ESR-1976

16" COVER WIDTH

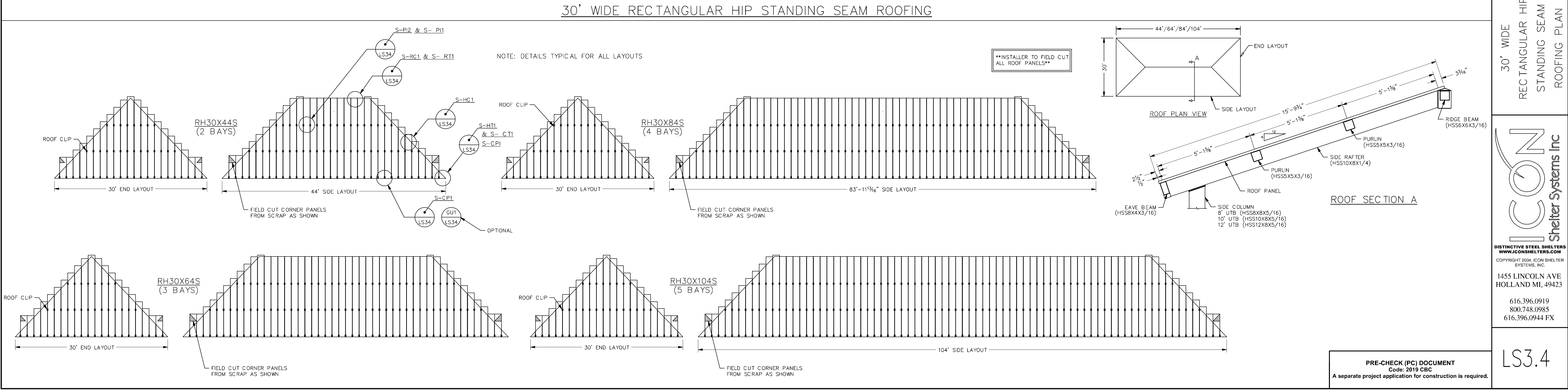
MEDALLION LOK STANDING SEAM PANEL SECTION
24 go. Fy = 50 ksi Fu = 65 ksi
ICC ESL-1082

SECTION PROPERTIES (PER FT. OF WIDTH)

TOP IN COMPRESSION
Ix=0.086 in^4
Sx=0.0561 in^3
Mx=1.68 in-kips

BOTTOM IN COMPRESSION
Ix=0.040 in^4
Sx=0.0479 in^3
Mx=1.248 in-kips

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DIV. OF THE STATE ARCHITECT
APP-04-120013 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 08/06/2021



ICON STD RH/DSA-PC
DRAWN BY ANGEL
DATE 4/2/2021
REV
REV DATE

JRMA ARCHITECTS ENGINEERS
2700 SATURN ST IRRIGA, CA 92621
T. 714.524.8701 F. 714.524.1875
WWW.JRMA.COM

REGISTERED PROFESSIONAL ENGINEER
ARCHITECTURE
STATE OF CALIFORNIA
07/29/2021

30' WIDE RECTANGULAR HIP STANDING SEAM ROOFING PLAN

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PRINTED ON :

ELECTRICAL INFORMATION - RECTANGULAR HIP

ICON'S STANDARD ELECTRICAL IS DESIGNED TO ACCOMMODATE Ø1/2" CONDUIT WITH A Ø3" INLET HOLE ON THE BOTTOM OF EACH COLUMN. THE CONDUIT PATHWAY RUNS THROUGH THE COLUMN, RAFTER, AND RIDGE BEAM THROUGH ALL BOLTED CONNECTIONS AS SHOWN. IF YOU HAVE SPECIAL ELECTRICAL REQUIREMENTS, PLEASE OUTLINE ANY CHANGES BELOW AS DESCRIBED.

PLEASE NOTE: DESIGN LIMITATIONS ON HOLE/CUTOOUT SIZES MAY APPLY. ICON WILL REACH OUT TO DISCUSS ANY SUCH LIMITATIONS AS NEEDED.

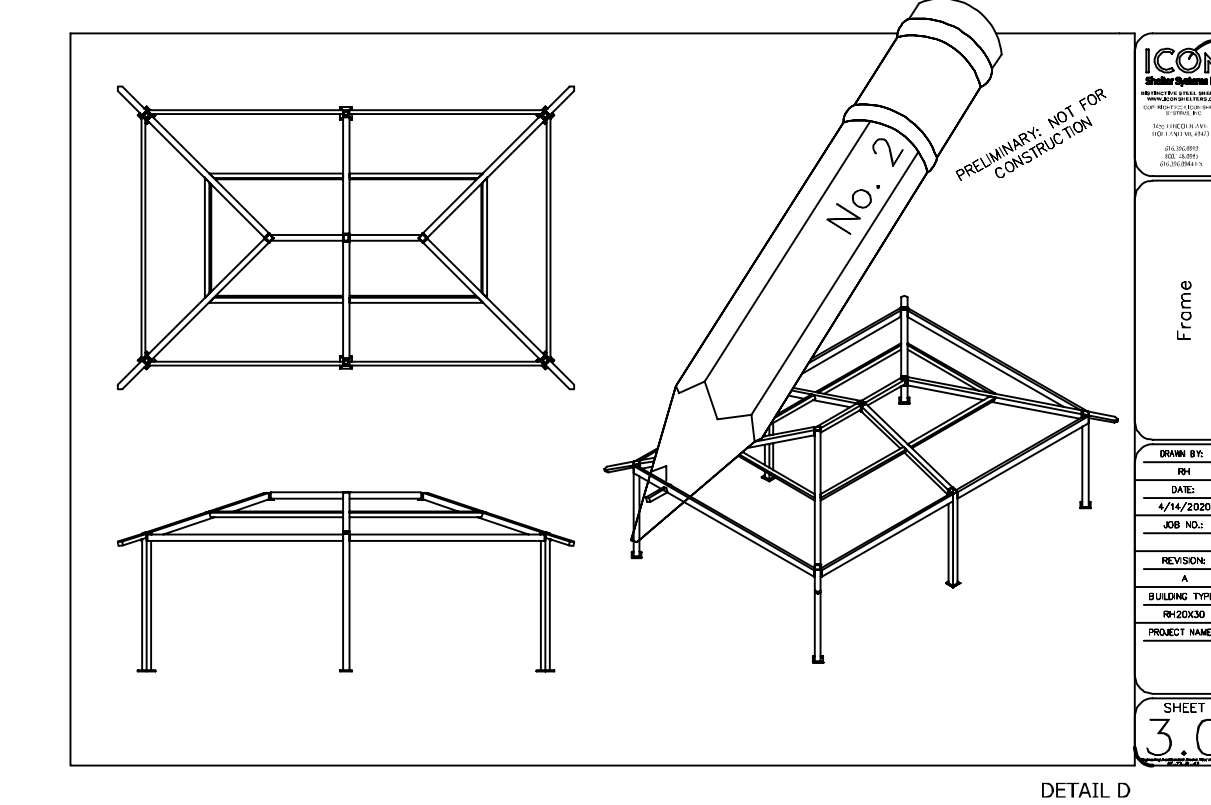
NOTE: ICON SHELTER FRAME IS NOT UL LISTED TO ACT AS A CONDUIT FOR ELECTRICAL WIRING. CONSULT LOCAL BUILDING CODES WHEN PLANNING YOUR ELECTRICAL SYSTEM.

PRELIMINARY: NOT FOR CONSTRUCTION

STEPS:

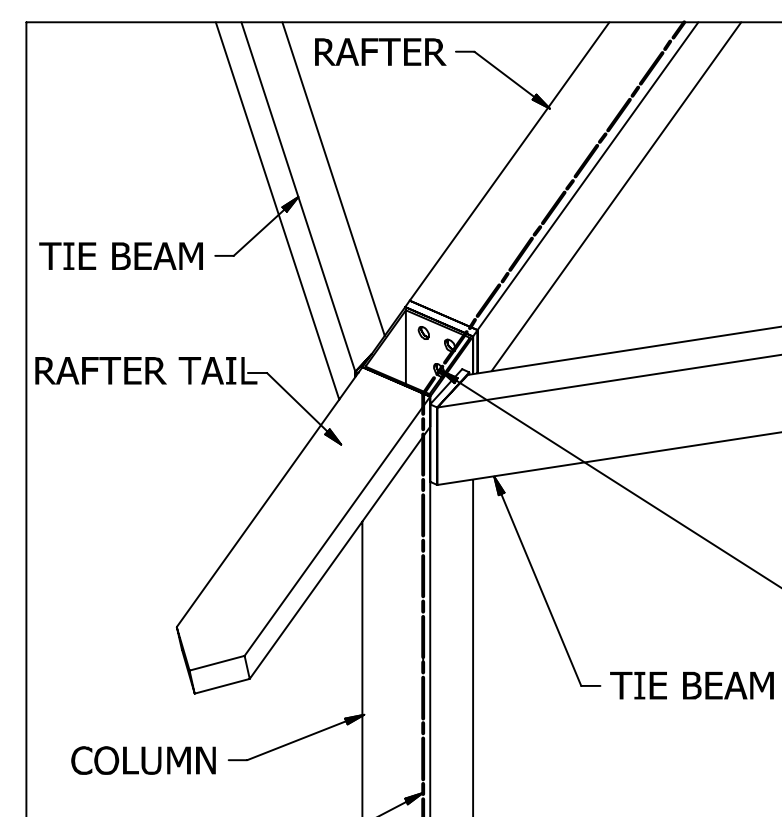
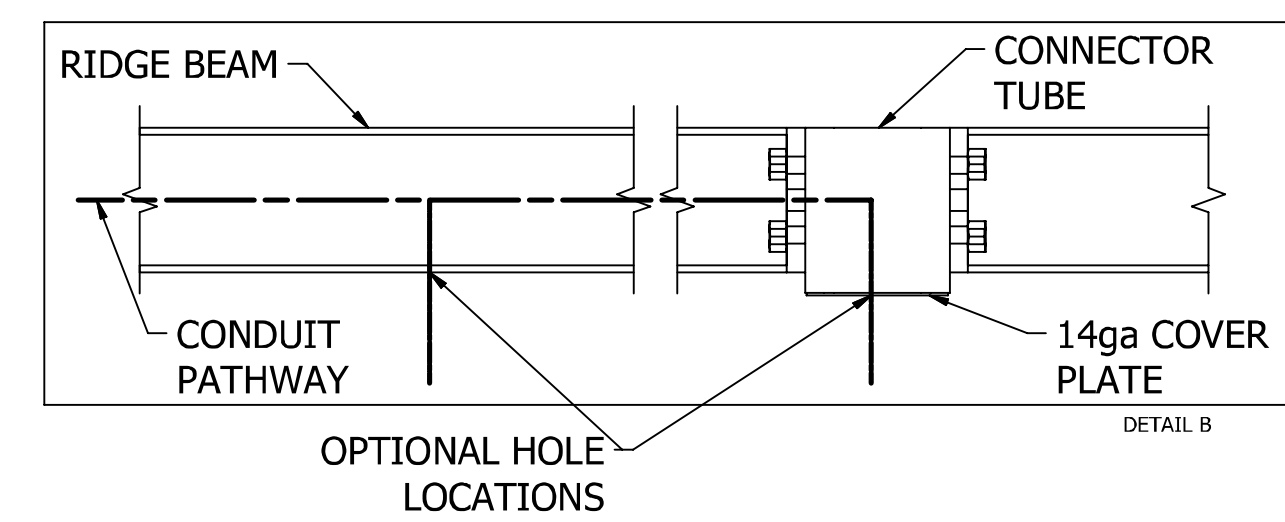
1. CONDUIT HOLE SIZE (DETAIL A)
2. ELECTRICAL EXIT HOLES (DETAIL B)
3. ELECTRICAL ACCESS & COVER PLATES (DETAIL C)
4. ELECTRICAL CONDUIT PATHWAY (DETAIL D)

IF REQUIRED, PLEASE DRAW THE NECESSARY ELECTRICAL CONDUIT PATHWAY ON THE FRAME SHEET OF THIS PRELIMINARY.



OPTIONAL EXIT HOLES

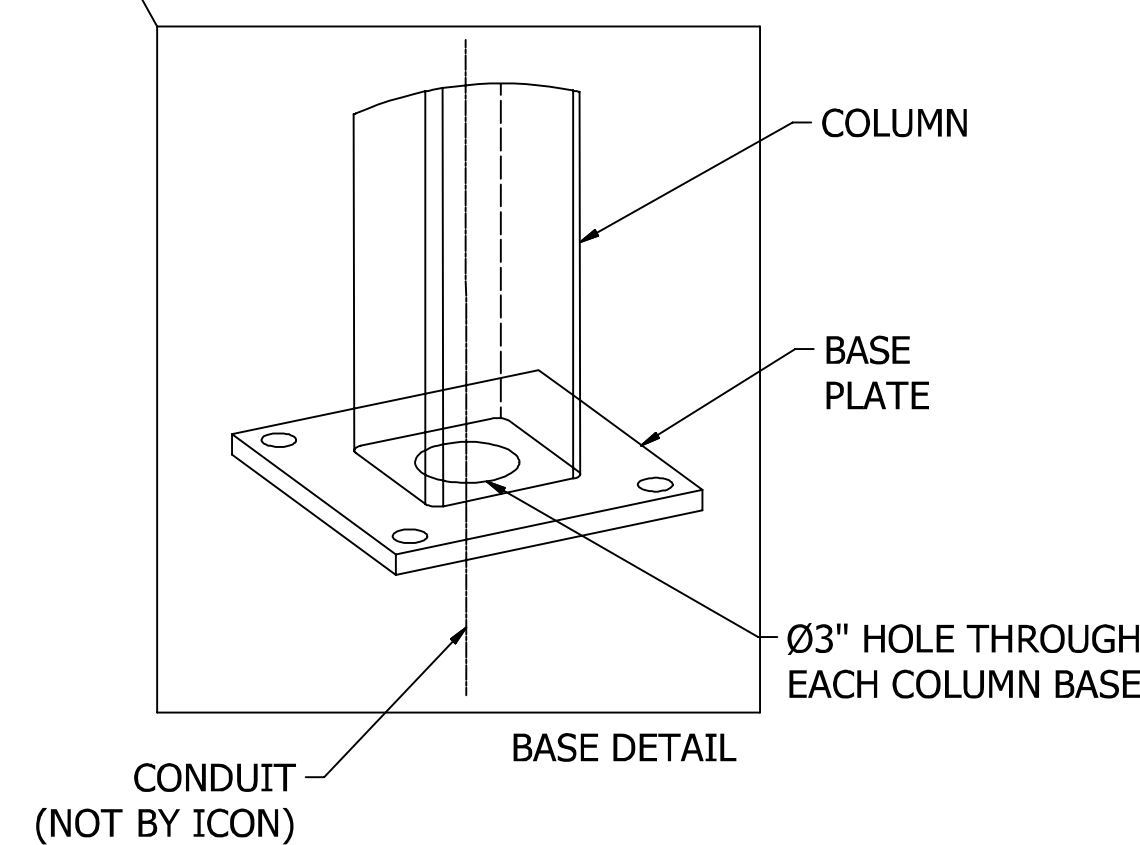
IF REQUIRED, EXIT HOLES FOR LIGHTING, ETC. CAN BE PLACED IN THE RIDGE BEAM AND/OR CONNECTOR TUBE WITH 14ga COVER PLATE AS SHOWN (CHARGES APPLY). USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED EXIT HOLE LOCATIONS AND SIZE.



ICON PROVIDES A MINIMUM OF (1) 3/4" HOLE AT EACH CONNECTION FOR 1/2" CONDUIT. IF APPLICABLE, PLEASE SPECIFY REQUIRED CONDUIT SIZE: (CHARGES APPLY)

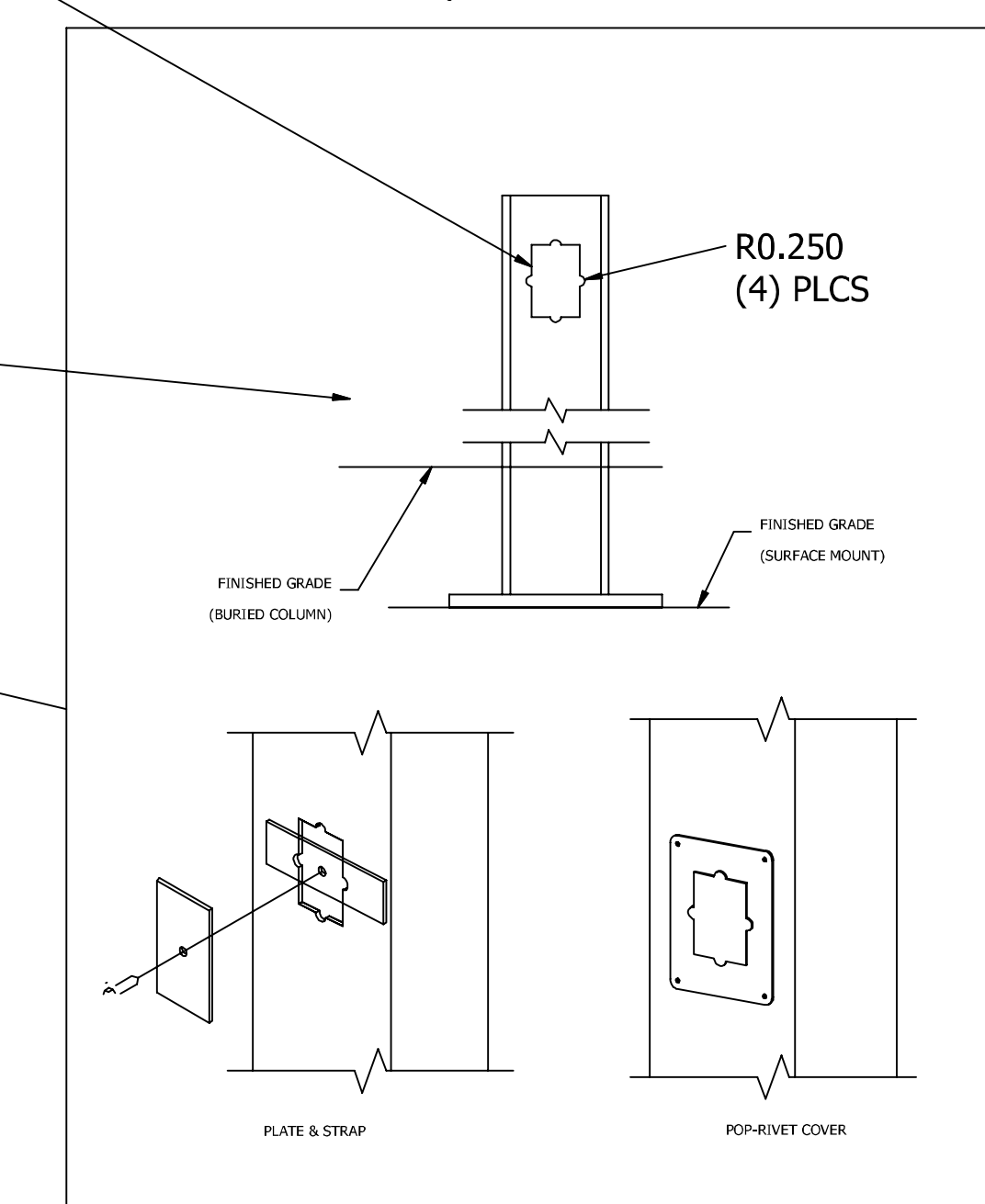
- 3/4" CONDUIT (1" HOLES)
- 1" CONDUIT (1 1/4" HOLES)
- OTHER (PLEASE SPECIFY)

CONDUIT PATHWAY PROVIDED FOR EACH COLUMN.



OPTIONAL CUTOOUTS
USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED CUTOOUT LOCATIONS (CHARGES APPLY) SEE REQUIRED INFO BELOW

- (1) STANDARD CUTOOUT SIZE SHOWN. SPECIFY IF OTHER SIZE REQUIRED.
- (2) CUTOOUTS WILL BE ON INSIDE FACE OF COLUMN UNLESS OTHERWISE INDICATED ON FRAME SHEET.
- (3) SPECIFY HEIGHT ABOVE FINISHED GRADE FOR EACH CUTOOUT AS SHOWN



(4) COVER PLATES PROVIDED UPON REQUEST (CHARGES APPLY) PLEASE SPECIFY TYPE AND QUANTITY REQUIRED:

- PLATE & STRAP
 - POP-RIVET COVER PLATE
- HOW MANY REQUIRED? _____

NOTE: BUILDING DEPICTED ON THIS SHEET FOR ILLUSTRATION PURPOSES ONLY. ACTUAL LAYOUT AND FRAME MEMBER QUANTITIES VARY BY DESIGN. PLEASE REFER TO ELEVATION AND FRAME SHEETS IN THIS PRELIMINARY FOR ORDER-SPECIFIC CONFIGURATION.

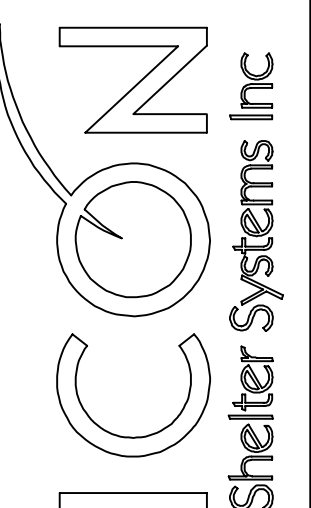
ICON STD	RH/DSA-PC
DRAWN BY	ANGEL
DATE	4/2/2021
REV	
REV DATE	

JRMA
ARCHITECTS ENGINEERS
2700 SATURN ST 1885A, CA 92821
T. 714.524.1870 F. 714.524.1875
WWW.JRMA.COM

REGISTERED PROFESSIONAL ENGINEER
ANGELO D. JACOBINI
STATE OF CALIFORNIA
07/29/2021

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-120013 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 08/06/2021

ELECTRICAL ACCESS

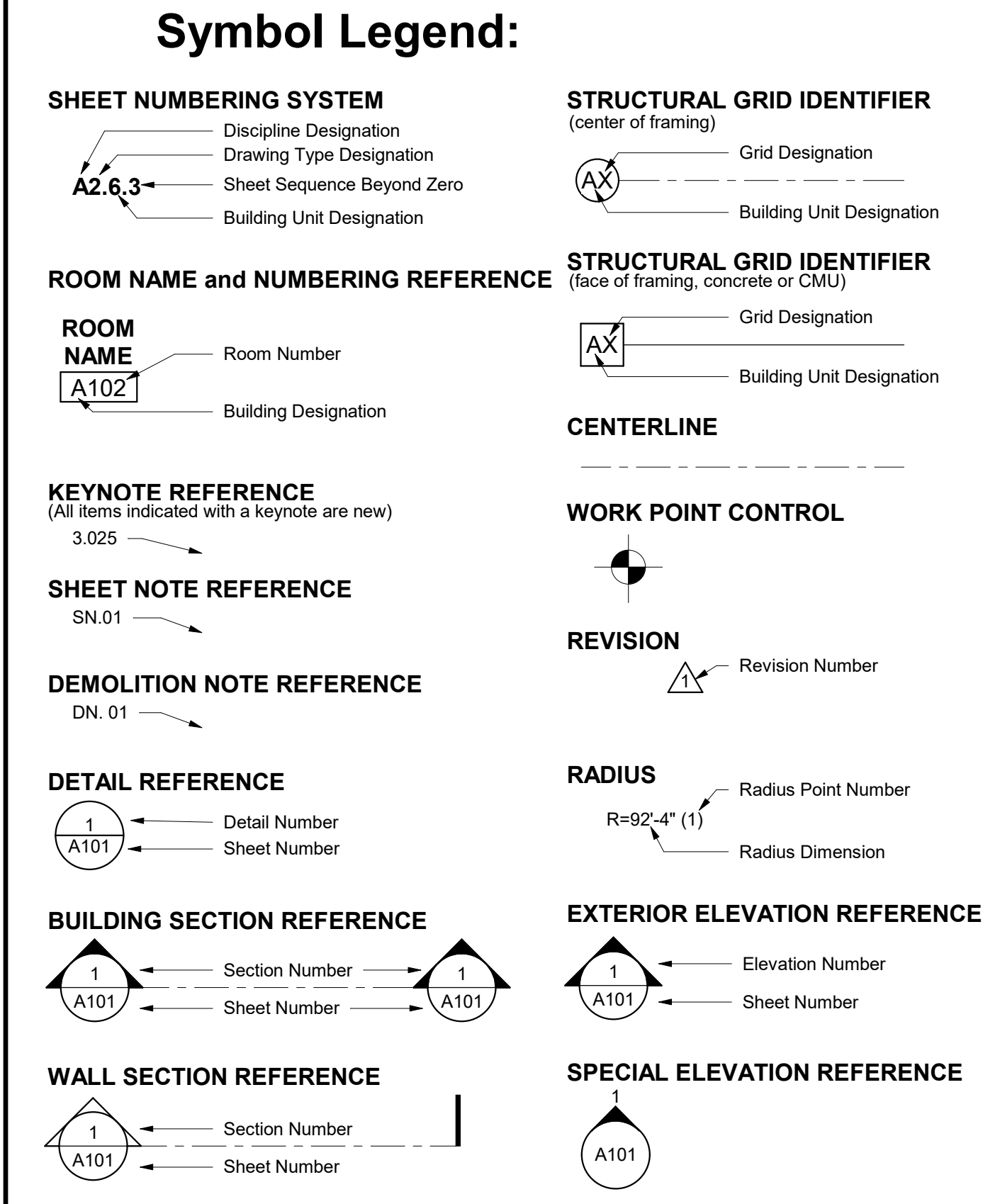


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LS5.0

Abbreviations:		
A	And	F.R.P.
∠	Angle	Fiberglass Reinforced Plastic
@	Centerline	Field Verify
°	Degree	Finish Floor Elevation
PERP./J	Perpendicular	Finish Grade
P	Property Line	Fire Alarm
A.F.F.	Above Finish Floor	F.E.C.
ACOUST.	Acoustical	Fire Extinguisher Cabinet
ADJ.	Adjustable	FLASH
AGGR.	Aggregate	Flat Head Machine Bolt
A.L.M./A.L.	Aluminum	F.H.M.S.
AD	Area Drain	FL.FLR.
A.V.	Audio Visual	F.D.
AUTO.	Automatic	FTQ
BM	Beam	FURR.
BLK	Block	GALV.
BLKG.	Blocking	G.I.
BO.	Board	G.S.M.
BOT	Bottom	G.W.H.
BUILDG.	Building	GA
CAB.	Cabinet	GLU/LAM./G.L.B.
CATV	Cable T.V.	GR.
C.I.	Cast Iron	GYP.
CL	Catch Basin	GYP.BD.
CLKG.	Caulking	HDR.
CNTR./CTR.	Center	HWDR
CER.	Ceramic	HWDR.
CL	Chain Link	HVAC
CB	Chalkboard	H.J.H.T.
CLASSR.	Classroom	H.M.
CLR	Clear	H.M.
C.W.	Cold Water	HORIZ. HORIZ.
COL.	Column	H.B.
CONC.	Concrete	HR.
C.M.U.	Concrete Masonry Unit	IN.
CONN.	Connection	INFO.
CONSTR.	Construction	INS.
C.J.	Construction Joint	INSUL.
CONT.	Continuous	INT.
CNTR.	Contractor	INV.
CORR.	Corrosion	S.F.
C.M.P.	Corrugated Metal Pipe	JAN.
C.Y.	Curb	JOINT
CUST.	Custodian	JST.
D	Deep/Depth	KP.
DET./DTL.	Detail	KIT.
DIAG.	Diagonal	M.D.
DIA/Ø	Diameter	LAM.
DIAM.	Dimension	LAV.
DIM PT.	Dimension Point	L.T.WT.
DISA.	Disable Accessible	L.F.
DW.	Dishwasher	M.B.
DR.	Door	M.B.
DBL.	Double	M.H.
DN.	Down	MFR.
DN.	Downspout	M.O.
D.I.	Drain Inlet	MATL.
DWG.	Drawing	MAX.
D.F.	Drinking Fountain	MCH.
E.A.	Each	MECH.
E	East	MTB.
ELEC.	Electrical	MEZZ.
E.W.C.	Electric Water Cooler	MIN.
E.W.H.	Electric Water Heater	MISC.
EL./ELEV.	Elevation	M.P.
EMER.	Emergency	(N)
ENCL.	Enclosure	NOM.
EQ.	Equal	N.
(E)EXIST.	Existing	N.I.C.
EXP.	Expansion	NO
E.L.	Expansion Joint	NO.#
EXT.	Exterior	O.F.O.I.
F.O.C.	Face of Concrete/Curb	O.F.C.I.
F.O.F.	Face of Finish	Owner Furnish Contractor Installed
F.O.S.	Face of Studs	O.C.
FB.	Fiberglass	OPP.
F.R.L.	Fiberglass Reinforced Laminate	O.H.
		O.H.W.S.
		OA.
		Overall
		P.D.F.
		PT.
		PR.
		PR./PART.
		PEN.
		PERF.
		P.LAM.
		PL.
		PLYWD.
		PL.
		PLYWD.
		PRE-FAB.
		P.M.F.
		P.T./T.D.F.
		R.W.L.
		RDWD.
		REF.
		REIN.
		REQD.
		RET.
		R.D.
		RM.
		R.O.G.
		R.H.W.S.
		R.B.
		RUBBER BASE
		SECT.
		S.S.K.
		SHT.
		S.M.
		S.M.S.
		S.V.
		SHR./SHWR.
		S.
		S.C.
		Spec.
		SQ.
		SST./S.S.
		STD./STND.
		ST.
		STOR.
		STR.
		S.D.S.T.
		S.F.
		STRUC.
		SUSP.
		SYM.
		TB.
		TEL./TELE.
		T.V.
		T.CLR.
		T.L.T.
		THK.
		THRES.
		THRU.
		T.
		T.O.
		T.O.C.
		T.O.P.
		T.O.W.
		T.S.
		TYP.
		U.O.N.
		VERT.
		V.G.D.F.
		V.W.C.
		W.C.
		W.C.
		W.H.
		WT.
		W.W.M.
		W.
		W.D.W.
		W.G.
		W/O.
		W.D.
		YD.
		Y.D.



SHADE STRUCTURE AT HOLLYWOOD PARK ELEMENTARY SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT SACRAMENTO, CA

Architect:
Rainforth Grau Architects
 2101 Capitol Avenue, Suite 100
 Sacramento, CA 95816
 916.368.7990

Owner:
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
 5737 47TH AVENUE
 SACRAMENTO, CA 95824
 916.643.7400

Contact: VIPUL SAFI

Consultants:

CIVIL ENGINEER: WARREN CONSULTING ENGINEERS 1117 WINDFIELD WAY, SUITE 110 EL DORADO HILLS, CA 95762 916.985.1870 ATTN: ANTHONY TASSANO	ELECTRICAL ENGINEER: PETERS ENGINEERING 7750 COLLEGE TOWN DRIVE, SUITE 101 SACRAMENTO, CA 95826 916.447.2841 ATTN: GINO ROMANO
--	--

Contact: MIKE TAXARA

Project Information:

SITE LOCATION
 4915 HARTE WAY
 SACRAMENTO, CA 95822

Project Scope:

INSTALLATION OF (1) 30' X 64' PC SHADE STRUCTURE AND RELATED CONCRETE PAD, UPGRADES TO ACCESSIBLE PATH OF TRAVEL, PARKING AND RESTROOMS. RELATED SITE AND ELECTRICAL WORK.

SCHEDULE OF ALTERNATES:

ALTERNATE NO. 1: CRACK REPAIR, SEAL COAT AND RESTRIPING
 A. The contractor is responsible for determining the extent of crack repair at (e) hardout. Place 2 coats of seal coat on existing paving. Seal coat to be provided over entirety of (e) hardout. The contractor is responsible for verifying (e) stripping condition and verifying exact layout to be restriped with District.

FIRE SAFETY: THE CONTRACTOR SHALL COMPLY WITH CFC CH 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.

Sheet Index

GENERAL	COVER SHEET
A0.1	TYPICAL MOUNTING HEIGHTS AND DETAILS
A0.2	LOCAL FIRE AUTHORITY SITE PLAN
CIVIL	
C0.1	CIVIL GENERAL NOTES AND ABBREVIATIONS
C1.1	DEMOLITION PLAN
C2.1	GRADING AND PAVING PLAN
C3.1	DETAILS AND SECTIONS
ARCHITECTURAL	
A1.1.0	SITE PLAN AND CODE INFORMATION
A1.1.1	PARTIAL SITE PLANS AND DETAILS
A2.1.1	TOILET ROOM DEMOLITION AND IMPROVEMENT PLANS AND INTERIOR ELEVATIONS
ELECTRICAL	
E0.1	SYMBOLS, NOTES
E1.1	SITE PLAN - ELECTRICAL
E2.1	ONE LINE DIAGRAM
E3.1	DETAILS
TOTAL SHEET COUNT: 14	

Applicable Codes:

CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING CODES AND STANDARDS:

TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
 TITLE 24, CCR, PART 1, 2019 CALIFORNIA ADMINISTRATIVE CODE
 TITLE 24, CCR, PART 2, 2019 CALIFORNIA BUILDING CODE, VOL. 1 & 2
 TITLE 24, CCR, PART 3, 2019 CALIFORNIA ELECTRICAL CODE
 TITLE 24, CCR, PART 4, 2019 CALIFORNIA MECHANICAL CODE
 TITLE 24, CCR, PART 5, 2019 CALIFORNIA PLUMBING CODE
 TITLE 24, CCR, PART 6, 2019 CALIFORNIA ENERGY CODE
 TITLE 24, CCR, PART 9, 2019 CALIFORNIA FIRE CODE
 TITLE 24, CCR, PART 10, 2019 CALIFORNIA EXISTING BUILDING CODE
 TITLE 24, CCR, PART 11, 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
 TITLE 24, CCR, PART 12, 2019 CALIFORNIA REFERENCED STANDARDS CODE

NFPA 13, 2016 EDITION, INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDMENTS)
 NFPA 72, 2016 EDITION, NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDMENTS)

UL 464, 2003 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES

UL 521, 7TH EDITION, 1999 HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS

THE CONTRACTOR SHALL KEEP TITLE 24, CCR, PARTS 1-5 ON THE BUILDING SITE AT ALL TIMES.

DSA Procedures:

- ADDENDA MUST BE STAMPED AND SIGNED BY THE ARCHITECT OF RECORD AND APPROVED BY DSA IN ACCORDANCE WITH CCR TITLE 24, PART 1.
- THE CONTRACTOR SHALL BE FAMILIAR WITH AND PERFORM THE DUTIES IN ACCORDANCE WITH DSA PROCEDURE 13-01, CONSTRUCTION OVERSIGHT PROCESS.
- CHANGES TO THE STRUCTURAL, ACCESSIBILITY, OR FIRE AND LIFE-SAFETY PORTIONS OF THE APPROVED PLANS AND SPECIFICATIONS AFTER THE WORK HAS BEEN LET SHALL BE MADE BY A CONSTRUCTION CHANGE DOCUMENT AS REQUIRED IN TITLE 24, PART 1, 4-338 AND CONSTRUCTION CHANGE DOCUMENTS SHALL BE PREPARED AND SUBMITTED TO DSA IN ACCORDANCE WITH DSA IR A-6.
- SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS WILL BE CONSIDERED AS CHANGES TO THE APPROVED PLANS AND/OR SPECIFICATIONS. THEY ARE TO BE TREATED AS CONSTRUCTION CHANGE DOCUMENTS AND WILL REQUIRE DSA'S APPROVAL PRIOR TO FABRICATION AND INSTALLATION IN ACCORDANCE WITH TITLE 24, PART 1, 4-338 AND DSA IR A-6.
- THE CLASS 2 PROJECT INSPECTOR MUST BE EMPLOYED BY THE OWNER AND APPROVED BY THE ARCHITECT, STRUCTURAL ENGINEER, AND DSA IN ACCORDANCE WITH TITLE 24, PART 1, 4-341.
- SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED DOCUMENTS WHERIN THE REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK.
- 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.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- 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 CONTRACT DOCUMENTS WHERIN 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.)
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

Deferred Approval:

- PC SHADE STRUCTURE

Statement of General Conformance

THE FOLLOWING DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET 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:

- DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
- 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)).

SIGNATURE _____ DATE _____

ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE
 Jeffrey Grau

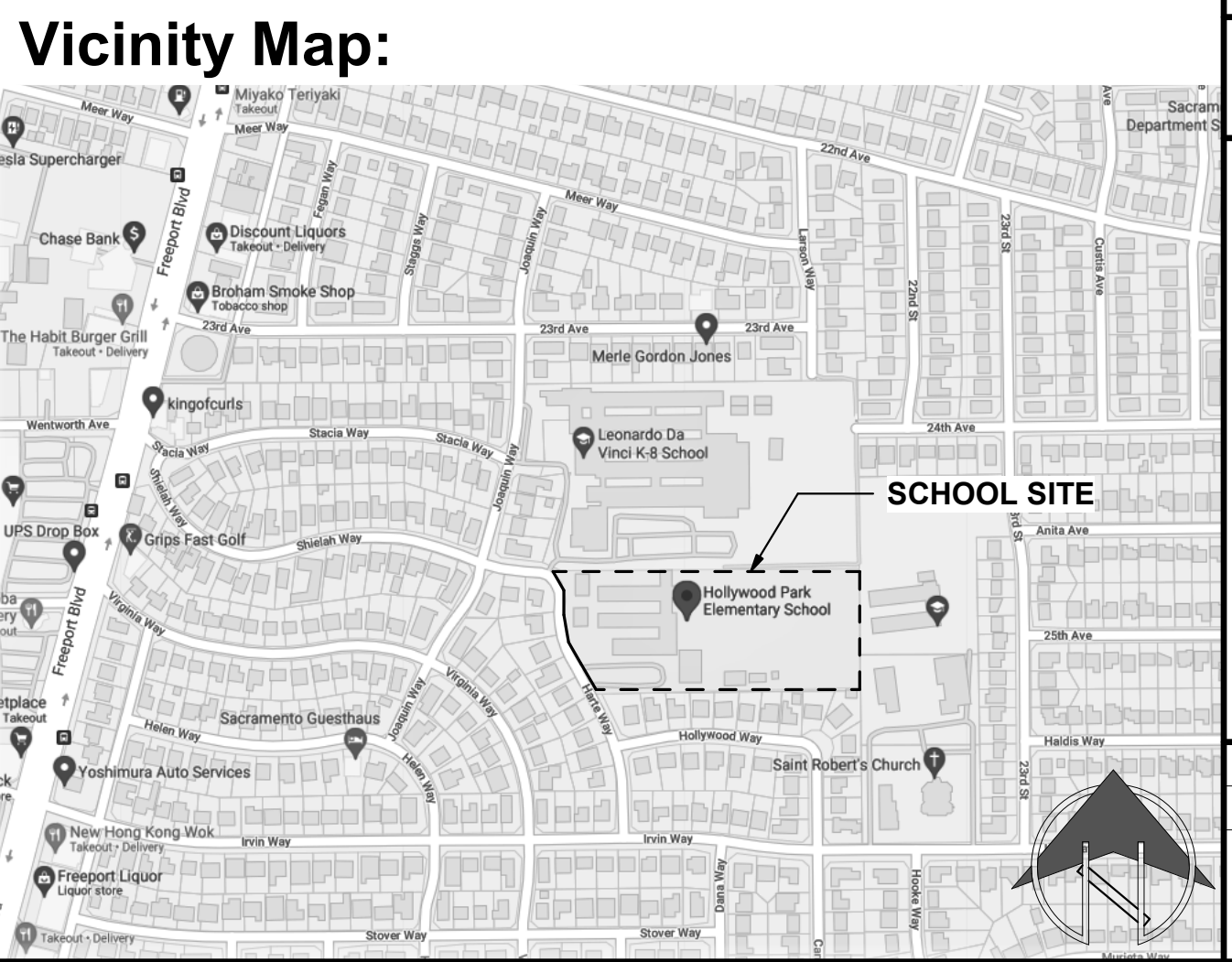
PRINT NAME _____

C-14648 05/31/23
 LICENSE NUMBER EXPIRATION DATE

LIST COMPLETELY, ITEMS REVIEWED AND ACCEPTED:

CIVIL, ELECTRICAL

Revision	Description



SHADE STRUCTURE AT HOLLYWOOD PARK ELEMENTARY SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision

COVER SHEET

DSA-810 FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

PROJECT INFORMATION
 School District: SACRAMENTO UNIFIED SCHOOL DISTRICT
 Project name / school: HOLLYWOOD PARK SHADE STRUCTURE
 Project address: 4915 HARTE WAY, SACRAMENTO CA 95822

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

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

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

Accepted by: _____ Title: _____
 Signature: _____ Date: _____

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

LEGEND

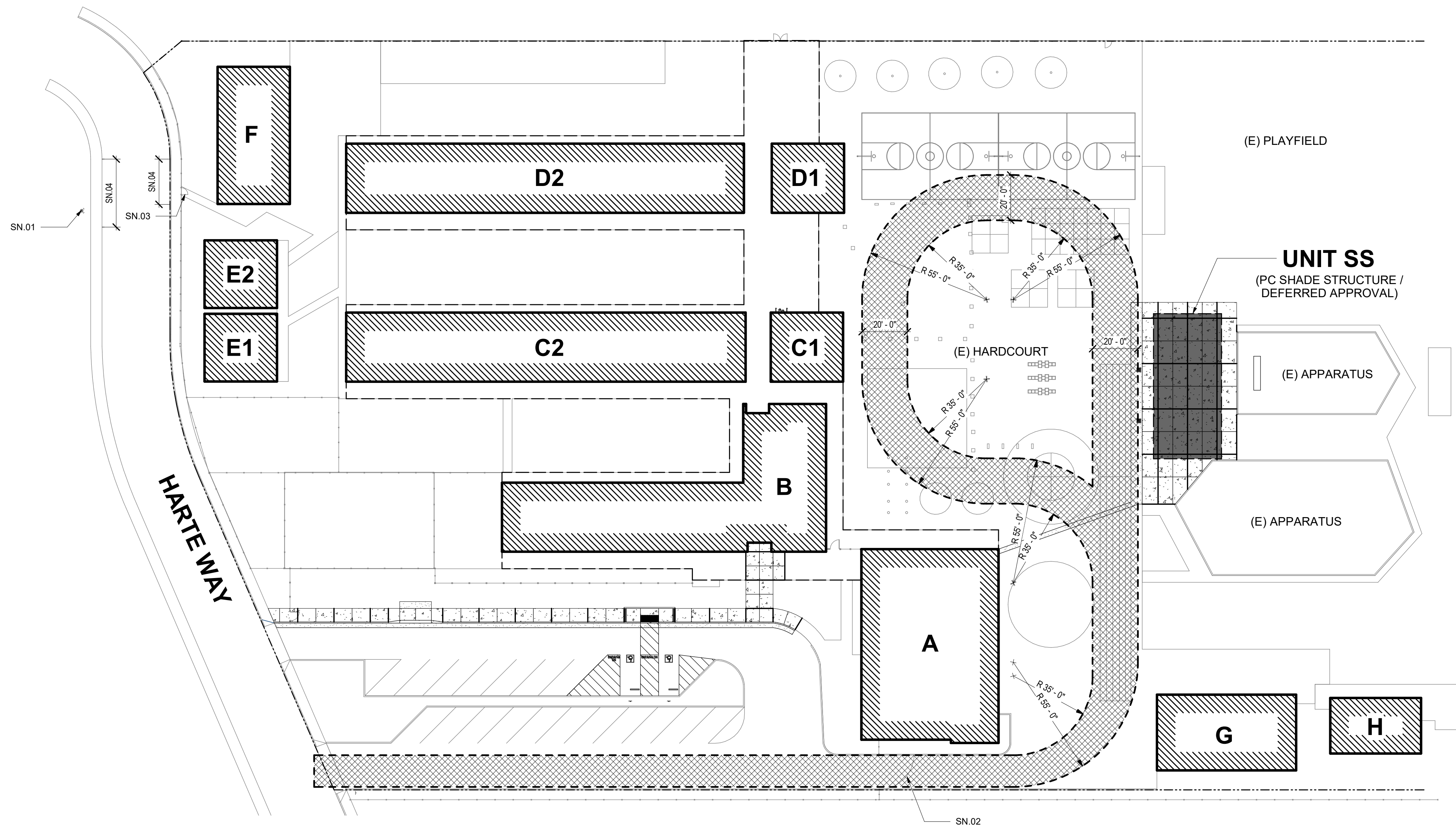
- - - - - PROPERTY LINE
- X UNIT DESIGNATION SHADE STRUCTURE
- [Hatched Box] UNIT DESIGNATION EXISTING BUILDINGS
- [Grid Pattern] CONCRETE WALK / PAVING
- [Dotted Pattern] ASPHALT CONCRETE PAVING
- [Cross-hatch] (E) EMERGENCY ACCESS LANE
- [Dashed Line] (E) CHAIN LINK FENCE
- [Symbol] (E) FIRE HYDRANT (NTS)

SHEET NOTES

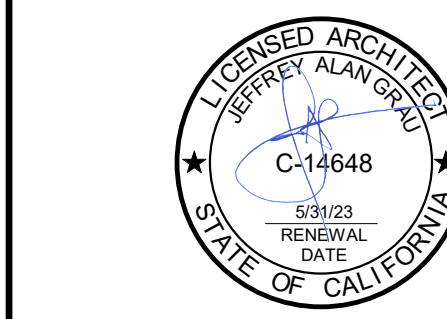
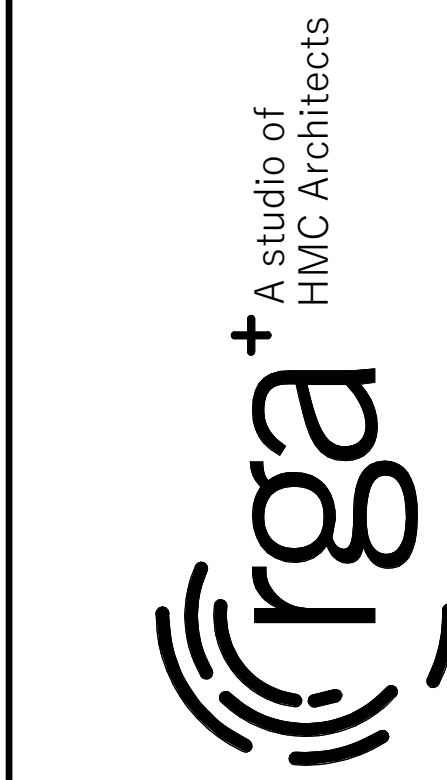
- SN.01 (E) FIRE HYDRANT
- SN.02 (E) 16" - 0" WIDE GATE WITH KNOX LOCK BOX
- SN.03 (E) 4" - 0" WIDE GATE WITH KNOX LOCK BOX
- SN.04 (E) FIRE LANE STRIPING AT (E) CURB

BUILDING DESIGNATIONS

- UNIT A - MULTIPURPOSE
- UNIT B - ADMINISTRATION
- UNITS - CLASSROOMS AND TOILET ROOMS
- UNITS - CLASSROOMS AND TOILET ROOMS
- UNITS - CLASSROOMS E1-E2
- UNIT F - CLASSROOMS
- UNIT G - CLASSROOM
- UNIT H - CLASSROOM



1 LOCAL FIRE AUTHORITY SITE PLAN
 1" = 30'-0"



SHADE STRUCTURE AT HOLLYWOOD PARK ELEMENTARY SCHOOL
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
 SACRAMENTO, CA

Revision

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LOCAL FIRE AUTHORITY SITE PLAN

SEE OTHER SHEETS FOR CONSTRUCTION

THIS PLAN INCLUDES INFORMATION FOR LOCAL FIRE AUTHORITY APPROVAL ONLY. REFER TO OTHER SHEETS FOR SITE CONSTRUCTION DETAILS.

PROJECT NO. 1504.08
 DATE: 3/22/2022
 SHEET **A0.7**

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
- 99.99 = 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
- = 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
- 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

TBM LIST

NUMBER	DESCRIPTION	NORTHING	EASTING	ELEV
1	OPS CHISELED "+"	10000.00	10000.00	100.00
2	OPS CHISELED "+"	10449.85	10000.00	101.78
3	OPS CHISELED "+"	10385.80	10000.16	101.73
4	OPS CHISELED "+"	10360.84	10000.68	101.80
5	OPS CHISELED "+"	10320.43	10000.40	101.79
6	OPS CHISELED "+"	10252.60	10000.00	101.72
7	OPS CHISELED "+"	10139.64	10003.40	101.48
8	OPS CHISELED "+"	9997.43	9884.27	100.45
9	OPS CHISELED "+"	10039.69	9689.47	100.39
10	OPS CHISELED "+"	10042.57	9632.03	100.38
11	OPS CHISELED "+"	9997.47	10183.02	101.22
12	OPS CHISELED "+"	9875.63	9884.69	100.58
13	OPS CHISELED "+"	9835.26	9921.65	100.49
14	OPS CHISELED "+"	9772.12	9917.58	100.52
15	OPS CHISELED "+"	9662.87	9998.30	99.96
16	OPS CHISELED "+"	9700.06	10208.26	100.83
17	OPS CHISELED "+"	9859.61	10180.56	101.13
18	OPS CHISELED "+"	9662.02	9894.88	100.04
19	OPS CHISELED "+"	9661.09	9768.56	99.64
20	OPS PK+WASHER	10245.12	9618.28	99.34

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 RESTRICTING VALVE
 - ASB AGGREGATE SUB-BASE
 - BO BLOW-OFF VALVE
 - BV BUTTERFLY VALVE
 - BW BACK OF WALK
 - C/L CENTERLINE
 - CB CATCH BASIN
 - CL CLASS
 - CM CORRUGATED METAL PIPE
 - CATV CABLE TELEVISION
 - COMM 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
 - DJ DROP INLET
 - DIA DIAMETER
 - DIP DUCTILE IRON PIPE
 - DWG DRAWING
 - DOWN DOWNHOLE
 - 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
 - GR GRATE ELEVATION
 - GRD GRADE ELEVATION
 - GV GATE VALVE
 - HB HOSE BIBB
 - HBD HEADER BOARD
 - HDPE HIGH DENSITY POLYETHYLENE PIPE
 - HP HIGH POINT
 - NW PIPE INVERT ELEVATION
 - JP JOINT UTILITY POLE
 - LF LINEAL FEET
 - LIP LIP OF GUTTER
 - LT LEFT
 - MS MOWSTRIP
 - NTS NOT TO SCALE
 - CH OVERHEAD
 - PCC PORTLAND CEMENT CONCRETE
 - PD PLANTER DRAIN
 - PV POST INDICATOR VALVE
 - P/L PROPERTY LINE
 - PP POWER POLE
 - PUE PUBLIC UTILITY EASEMENT
 - PVC POLYVINYL CHLORIDE
 - RCP REINFORCED CONCRETE PIPE
 - R RADIUS
 - MANHOLE RIM ELEVATION (SOLID COVER)
 - RP REDUCED PRESSURE BACKFLOW PREVENTER
 - RIGHT OF WAY
 - SCH SCHEDULE
 - SD STORM DRAIN
 - SDMH STORM DRAIN MANHOLE
 - SC SUBGRADE ELEVATION
 - SS SANITARY SEWER
 - SSMH SANITARY SEWER MANHOLE
 - STD STANDARD
 - S/W SIDEWALK
 - 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
 - UNON UNLESS OTHERWISE NOTED
 - VCP VITRIFIED CLAY PIPE
 - W WATER
 - W/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)
- 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:

- 8" SS SANITARY SEWER LINE (SIZE AND FLOW SHOWN)
- SANITARY SEWER MANHOLE (SSMH)
- 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
- WATER METER
- FIRE HYDRANT ASSEMBLY
- FIRE DEPARTMENT CONNECTION
- DETECTOR CHECK VALVE
- REDUCED PRESSURE BACKFLOW PREVENTER
- BUTTERFLY VALVE
- AIR RELEASE VALVE + SIZE
- BLOW-OFF VALVE + SIZE
- POST INDICATOR VALVE

DEMOLITION GENERAL NOTES

- 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.
- NO BURNING OR BLASTING SHALL BE PERMITTED.
- ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.
- ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.
- ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.
- 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 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.
- 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 EXTENT.
- EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REPLACED WITH NEW BOX/COVER AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
- ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
- 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

- 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.
- WARREN CONSULTING ENGINEERS, INC. (WCE) ASSUMES NO RESPONSIBILITY FOR ERRORS IN PHYSICAL LOCATION OF IMPROVEMENTS, HORIZONTAL OR VERTICAL. 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.
- 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.
- 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.
- 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.
- 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 CONTRACTOR'S RESPONSIBILITY TO DETERMINE, AND INCLUDE IN HIS/HER CONTRACT, ALL MEANS AND METHODS NECESSARY TO PERFORM A COMPLETE AND ACCEPTABLE JOB.
- WHERE IMPROVEMENTS LIE WITHIN AN EXISTING DEVELOPED AREA, CONTRACTOR SHALL USE CAUTION WHEN ACCESSING THE SITE THROUGH THESE EXISTING IMPROVEMENTS. IT IS THE CONTRACTOR'S 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.
- 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.
- 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 SAWED EDGE SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION SO A CLEAR EDGE OR PATCH BAG, IF EDGE IS DAMAGED, A NEW SAW CUT WILL BE REQUIRED. THE EXPOSED EDGE SHALL BE "TACKED" WITH EMULSION PRIOR TO PAVING.
- 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.
- 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.
- ON NEW WATER SYSTEMS, SERVICE LATERALS SHALL BE MADE USING APPROPRIATE "TIE" AND "WYE" FITTINGS. SADDLE TAPS WILL ONLY BE ALLOWED WHEN MAKING CONNECTIONS TO EXISTING WATER MAINS.
- 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.
- 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.
- 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 ALLOW FOR SUCH STRUCTURE. THAT REBAR ADJUSTMENT MAY NOT BE SPECIFICALLY SHOWN ON PLANS.
- 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.
- 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.
- 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.
- ANY SCORED BOARDS SET WITHIN CONCRETE SLABS SHALL BE AN "OVERHEAD SCREED" SO THERE IS NO INTERFERENCE WITH THE PLACEMENT AND ALIGNMENT OF SLAB REINFORCING.
- 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 CONSTRUCTION.
- 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.
- 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.
- 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:

- 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.
- 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

- C0.1 CIVIL GENERAL NOTES AND ABBREVIATIONS
- C1.1 DEMOLITION PLAN
- C2.1 GRADING AND PAVING PLAN
- C3.1 DETAILS AND SECTIONS

SHADE STRUCTURE AT HOLLYWOOD PARK ELEMENTARY SCHOOL

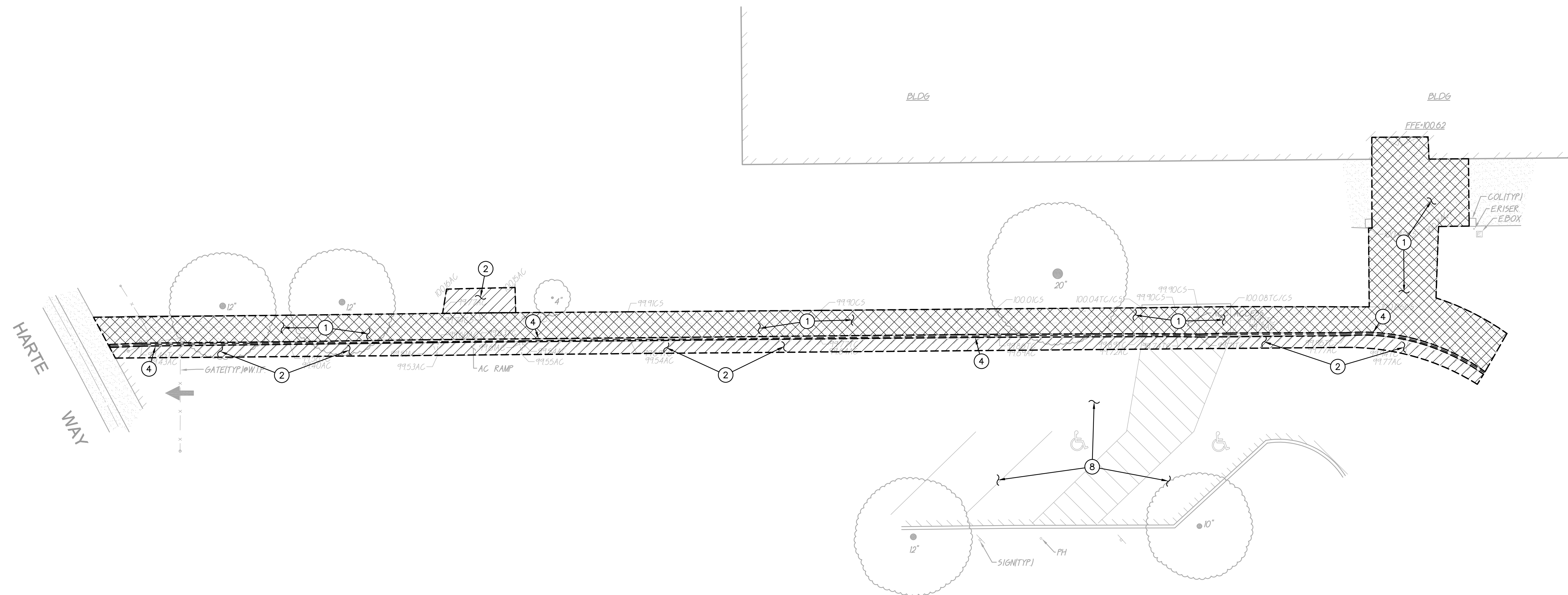
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

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CIVIL GENERAL NOTES AND ABBREVIATIONS

PROJECT NO. 1504.08
DATE: 3/21/2022
SHEET

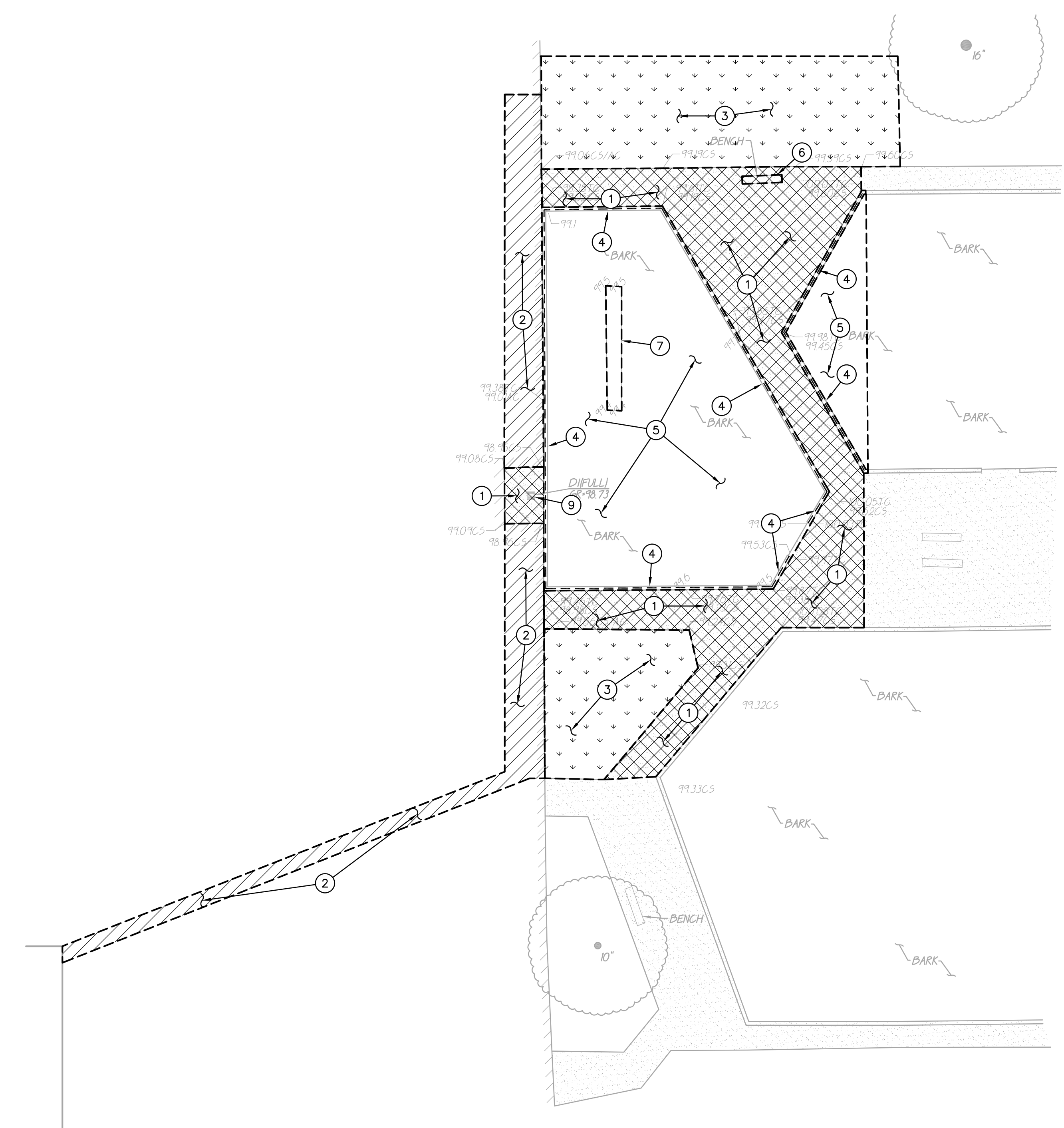
C0.1



DEMOLITION PLAN - ACCESSIBLE PATH AND PARKING

SCALE: 1"=10'

- DEMOLITION NOTES**
1. SAWCUT, REMOVE, AND DISPOSE OF EXISTING CONCRETE PAVING AND ASSOCIATED AGGREGATE BASE. SAWCUT SHALL BE A NEAT STRAIGHT LINE, MAINTAIN CLEAN, STRAIGHT CUT EDGE UNTIL NEW PAVING IS PLACED.
 2. 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.
 3. 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.
 4. REMOVE AND DISPOSE OF EXISTING CONCRETE CURB.
 5. REMOVE AND DISPOSE OF EXISTING FIBAR BARK MATERIAL.
 6. REMOVE AND RELOCATE EXISTING BENCH.
 7. REMOVE AND RELOCATE EXISTING PLAY APPARATUS. REFER TO ARCHITECTURAL PLANS.
 8. BLACK OUT EXISTING STRIPING.
 9. REMOVE AND DISPOSE OF EXISTING DROP INLET.

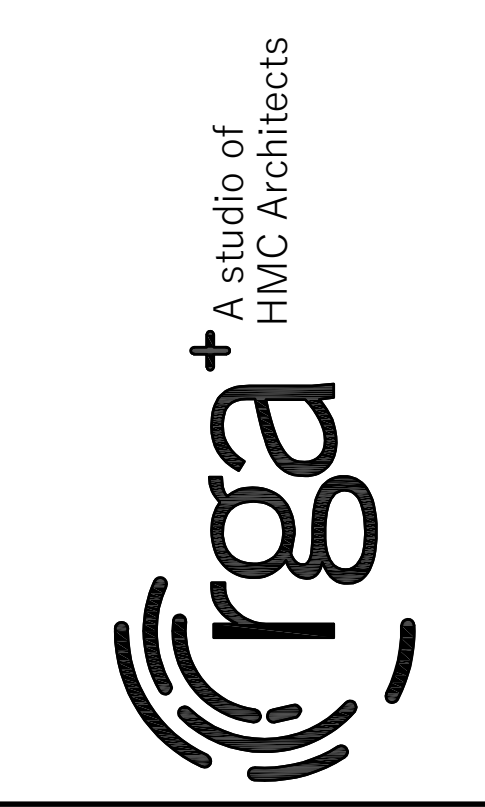


DEMOLITION PLAN - SHADE STRUCTURE

SCALE: 1"=10'

GRAPHIC SCALE

THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.

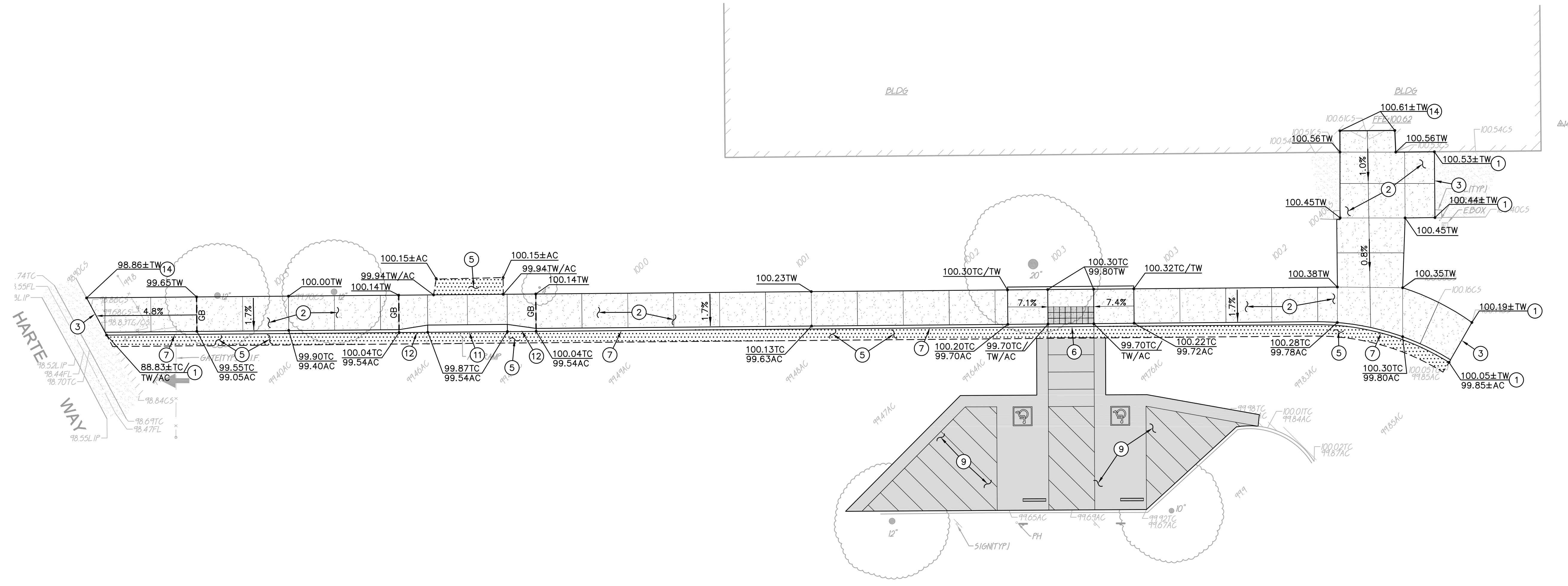


SHADE STRUCTURE AT HOLLYWOOD PARK ELEMENTARY SCHOOL
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SACRAMENTO, CA

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DEMOLITION PLAN

PROJECT NO. 1504.08
 DATE: 3/21/2022
 SHEET: **C1.1**



GRADING AND PAVING PLAN - ACCESSIBLE PATH AND PARKING

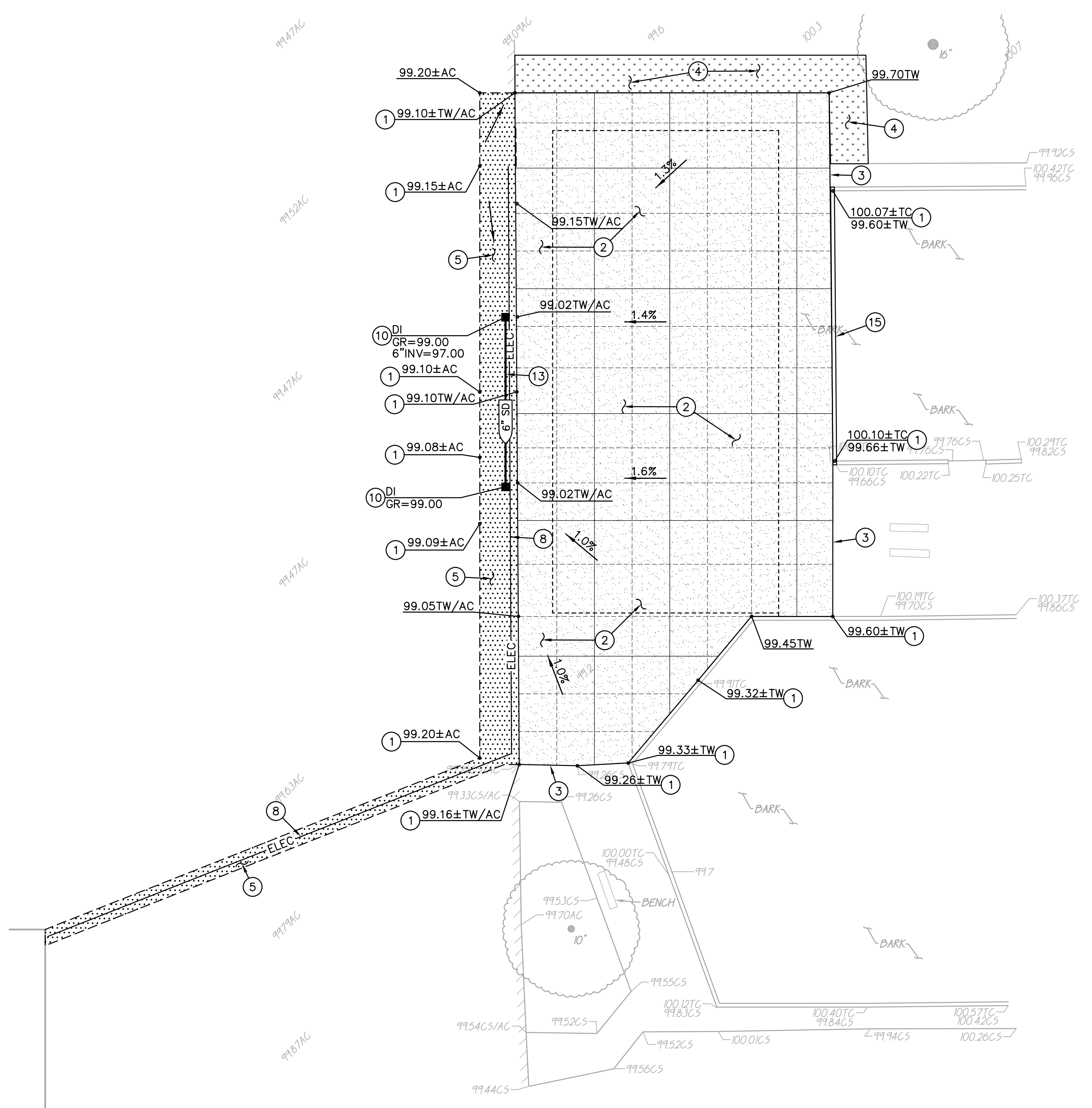
SCALE: 1"=10'

SUBGRADE PREPARATION

1. FOLLOWING SITE DEMOLITION ACTIVITIES:
 EXCAVATE DOWN TO A MINIMUM 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 NOTES

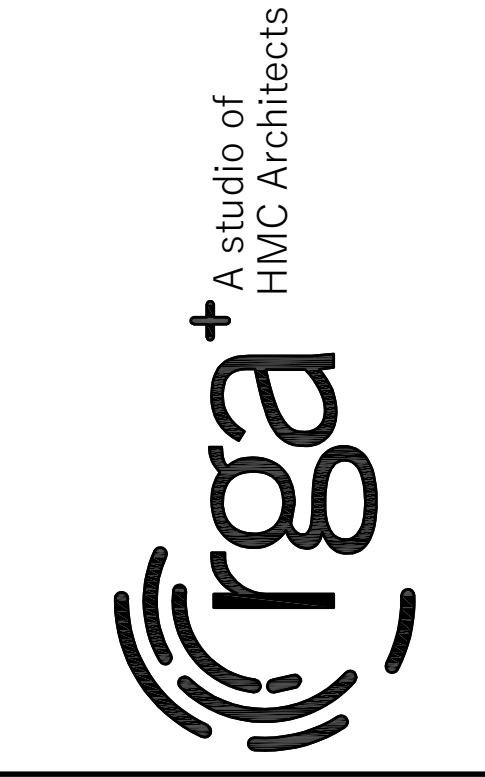
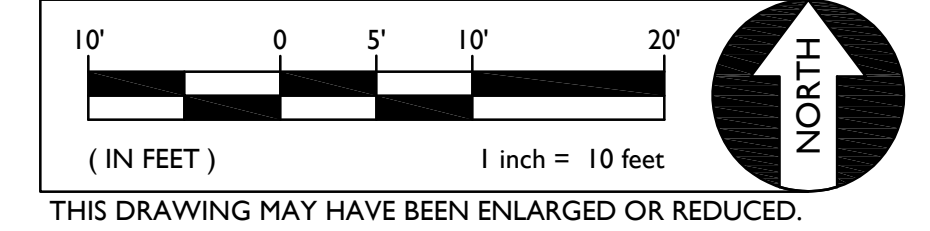
1. MATCH EXISTING GRADE/ELEVATION.
2. CONSTRUCT CONCRETE SIDEWALK PER PLACE 5" PCC WITH #4 REBAR AT 24" O.C.E.W. OVER 12" CL2 AGGREGATE BASE ON COMPACTED SUBGRADE.
3. DOWEL INTO EXISTING CONCRETE PER (1) C3.1
4. PLACE SOD IN ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES THAT ARE NOT TO RECEIVE PAVEMENT. PROVIDE NEW SPRINKLER HEADS AND PIPING AS REQUIRED TO ACHIEVE PROPER COVERAGE.
5. PLACE 3" AC OVER 12" AB ON COMPACTED SUBGRADE.
6. CONSTRUCT ACCESSIBLE CURB RAMP PER (3) C3.1
7. CONSTRUCT CONCRETE CURB PER (2) C3.1
8. REFER TO ELECTRICAL PLANS FOR CONDUIT PLACEMENT AND DETAILING.
9. CRACK FILL AND PLACE TWO (2) APPLICATIONS OF SEAL COAT PRIOR TO STRIPING.
10. CONSTRUCT DROP INLET PER (6) C3.1
CONNECT INLET TO EXISTING AND/OR PROPOSED STORM DRAIN PIPE.
11. CONSTRUCT ROLLED CURB PER (9) C3.1
12. TRANSITION FROM ROLLED CURB TO VERTICAL CURB.
13. PLACE 6" STORM DRAIN PER (7) C3.1
14. PROPOSED SIDEWALK ELEVATION SHALL MEET FLUSH WITH EXISTING FINISH FLOOR.
15. CONSTRUCT APPARATUS CURB PER (8) C3.1



GRADING AND PAVING PLAN - SHADE STRUCTURE

SCALE: 1"=10'

GRAPHIC SCALE

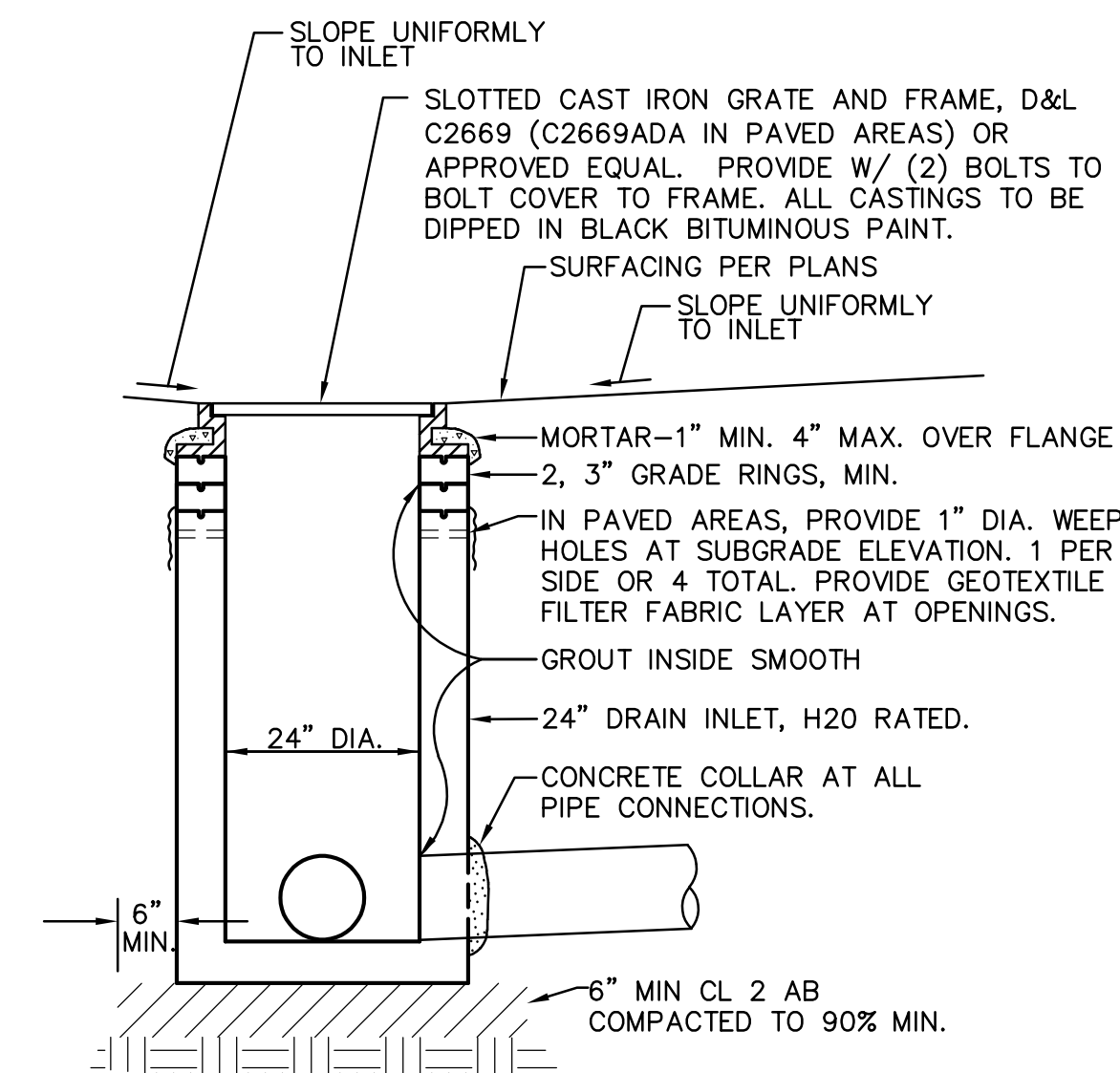


SHADE STRUCTURE AT HOLLYWOOD PARK ELEMENTARY SCHOOL
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
 SACRAMENTO, CA

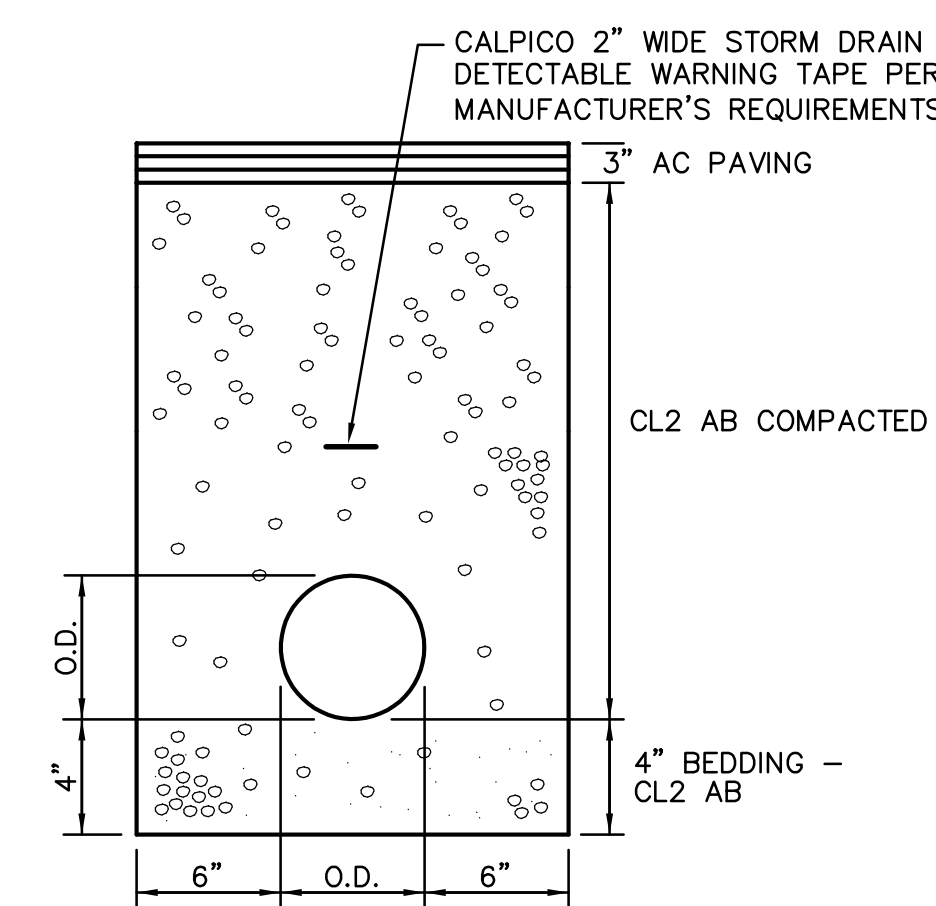
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GRADING AND PAVING PLAN

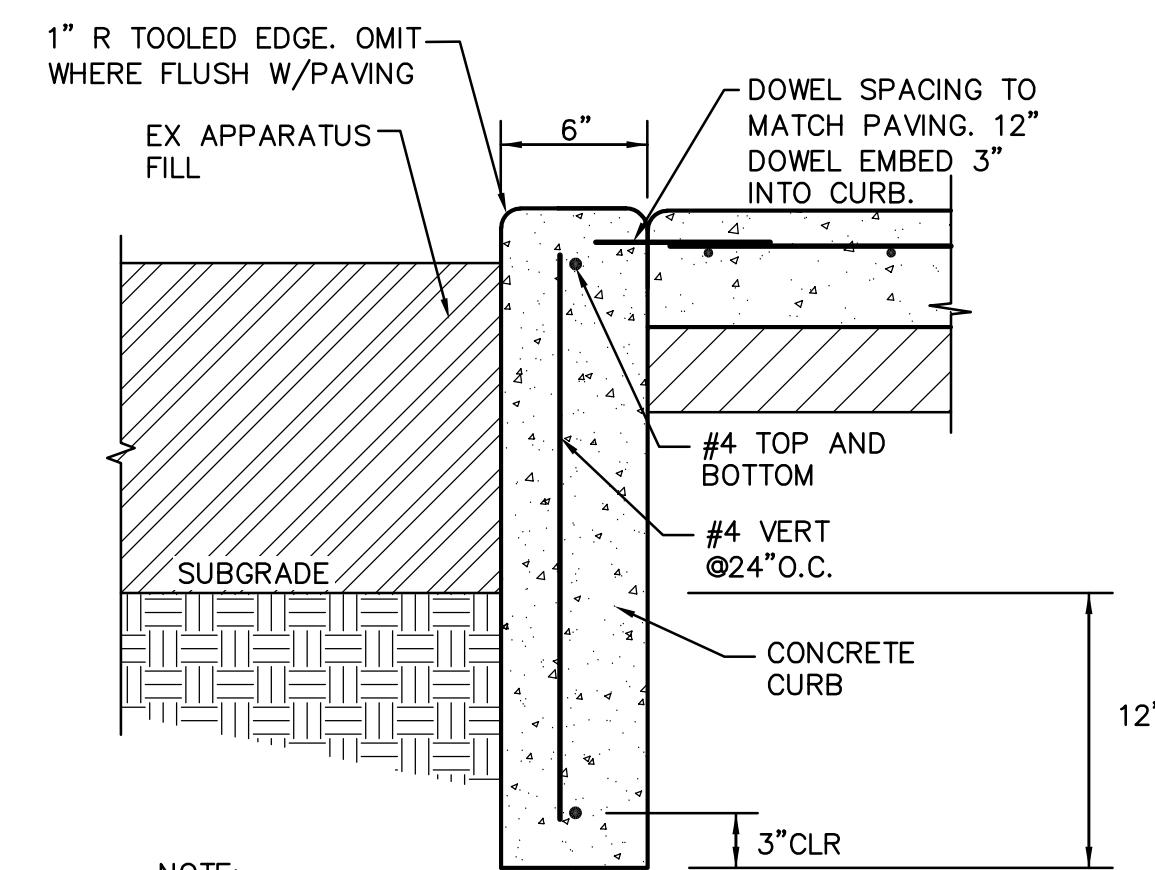
PROJECT NO. 1504.08
 DATE: 3/21/2022
 SHEET C2.1



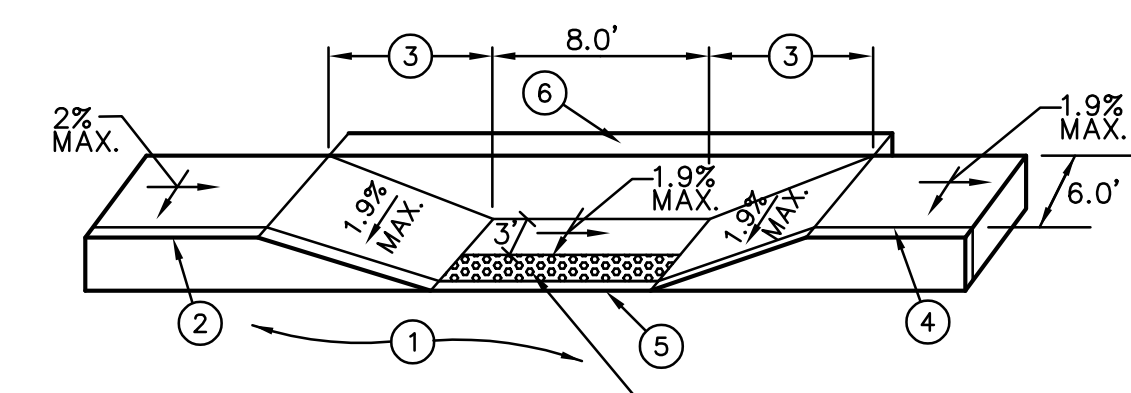
6
C3.1 DROP INLET
NO SCALE



7
C3.1 STORM DRAIN TRENCH
NO SCALE

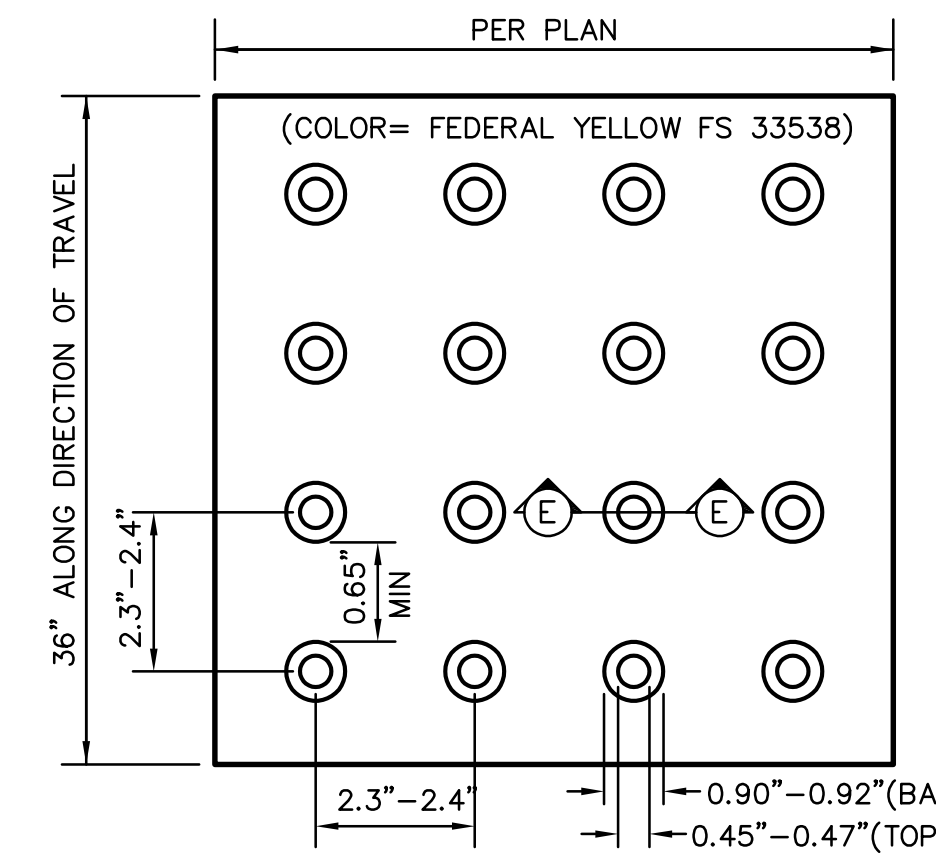


8
C3.1 APPARATUS CURB
NO SCALE

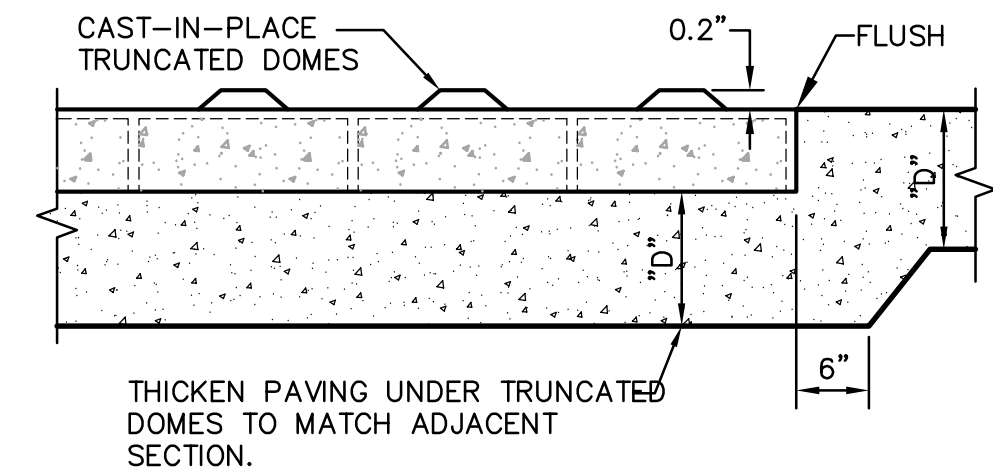


- LEGEND**
- PAVEMENT.
 - TOP FACE OF CURB, STANDARD 6" HIGH.
 - 8.3% (1:12) MAXIMUM SLOPE, 2% MAX CROSS SLOPE.
 - SCORE MARK, 6" BACK OF CURB.
 - TRANSITION SHALL BE FLUSH AND FREE OF ABRUPT CHANGE PER CALIFORNIA BUILDING CODE, TITLE 24, SECTION 11B-406.5.8.
 - 6" WIDE RETAINING CURB, HEIGHT TO BE DETERMINED BY PROJECTED BACK OF WALK GRADE AT EACH END OF CURB RETURN AND BACK OF LANDING SURFACE.
 - PLACE 36" WIDE PREFABRICATED CAST IN PLACE DETECTABLE WARNING TILE BY ARMOR-TILE OR APPROVED EQUAL DETECTABLE WARNING SHALL EXTEND THE FULL WIDTH OF THE TURNING SPACE AT THE FLUSH TRANSITION BETWEEN THE STREET AND THE SIDEWALK LESS 2 INCHES MAXIMUM ON EACH SIDE PER 11B-705.1.2.2.

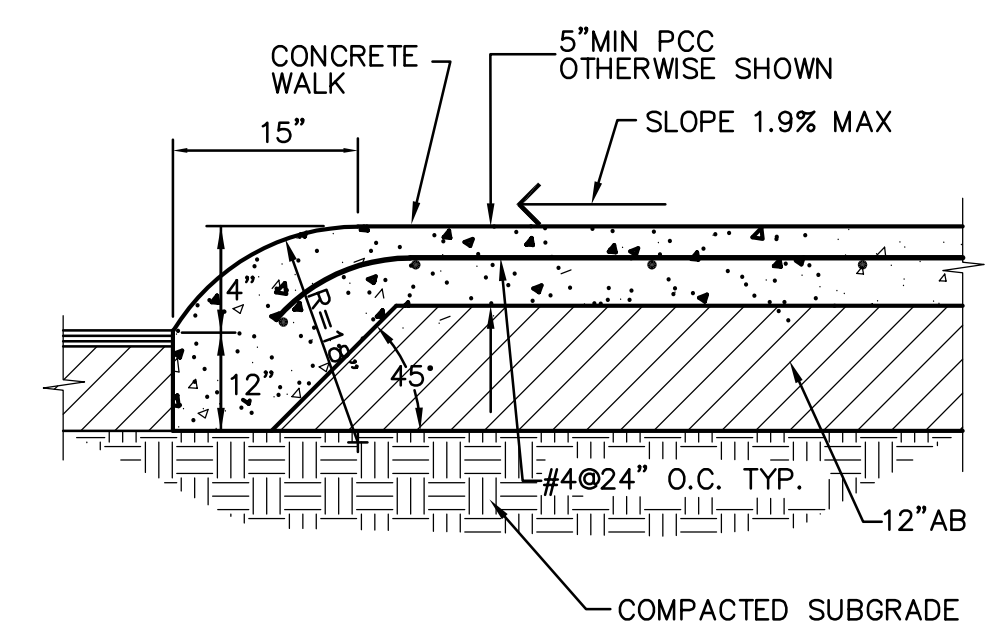
3
C3.1 ACCESSIBLE CURB RAMP
NO SCALE



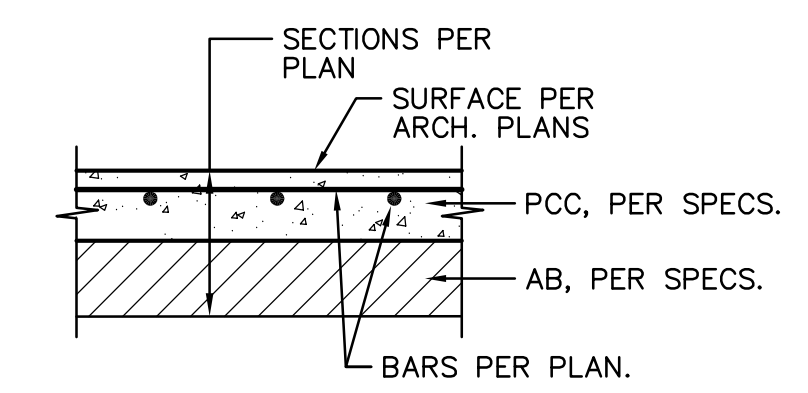
SECTION E-E



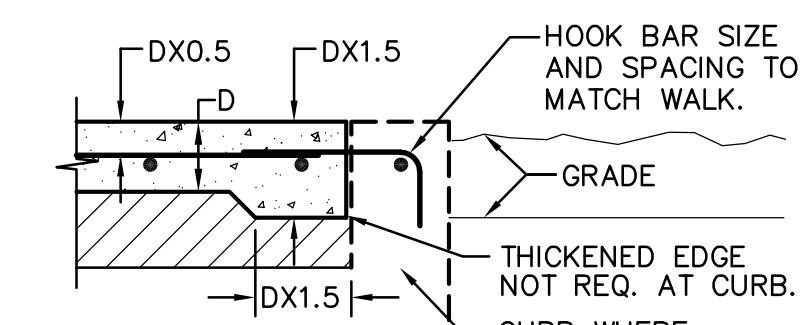
4
C3.1 TRUNCATED DOMES
NO SCALE



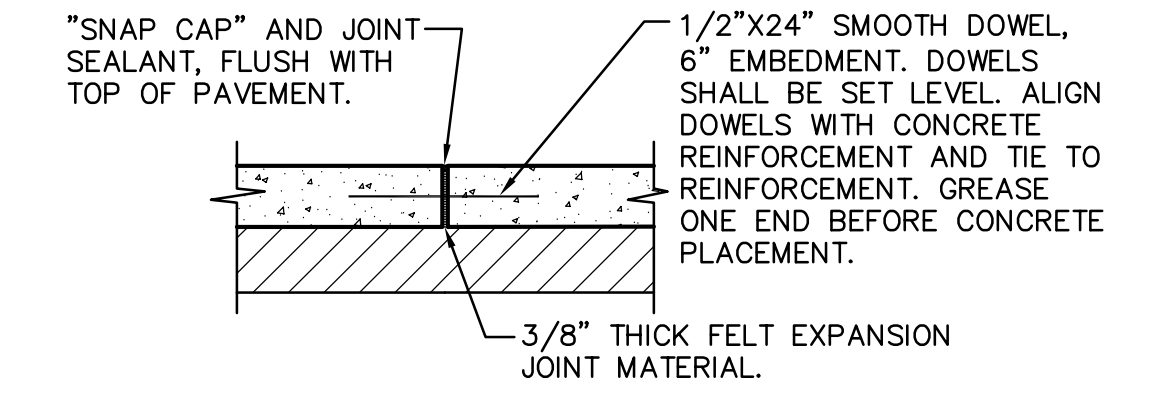
5
C3.1 ROLLED CURB AND SIDEWALK
NO SCALE



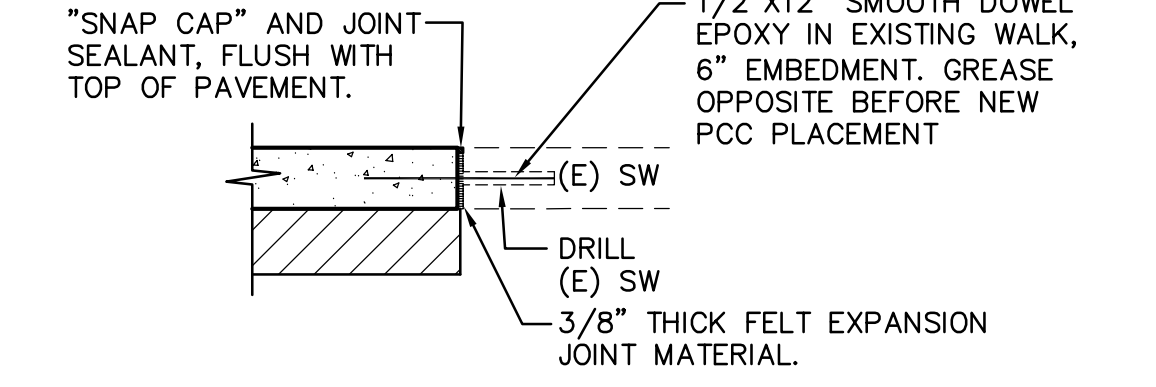
TYPICAL SECTION



TYPICAL THICKENED EDGE



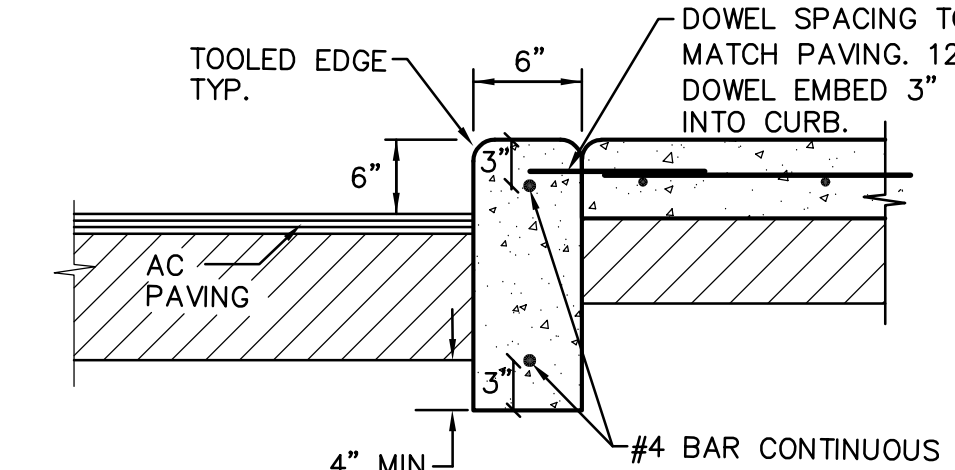
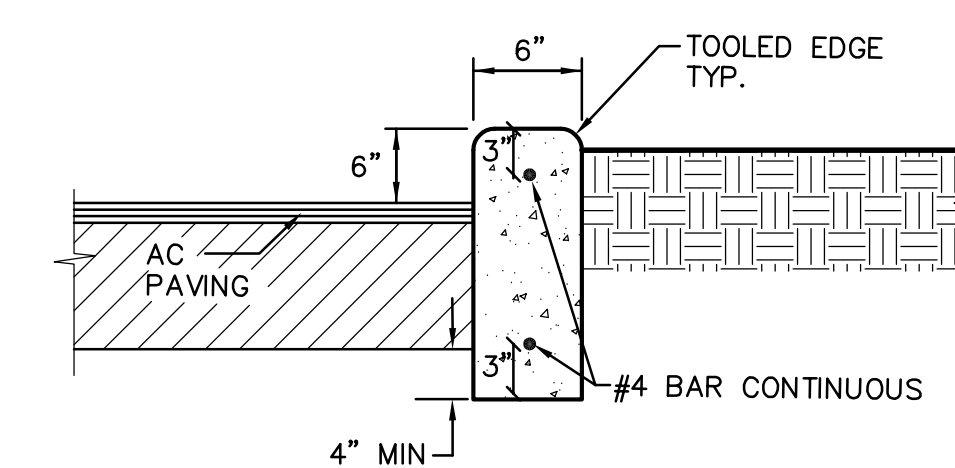
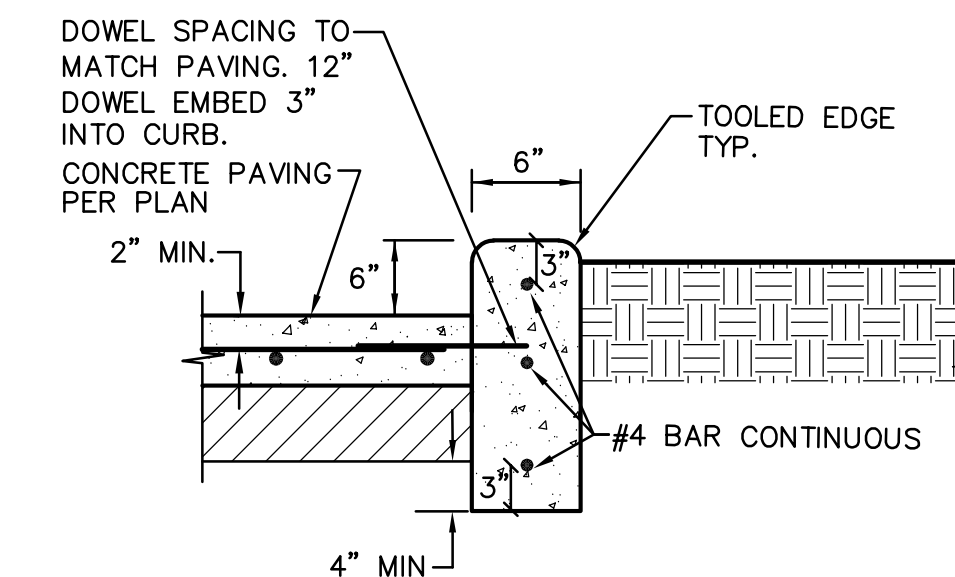
TYPICAL JOINTS



CONNECTION TO (E) CONCRETE

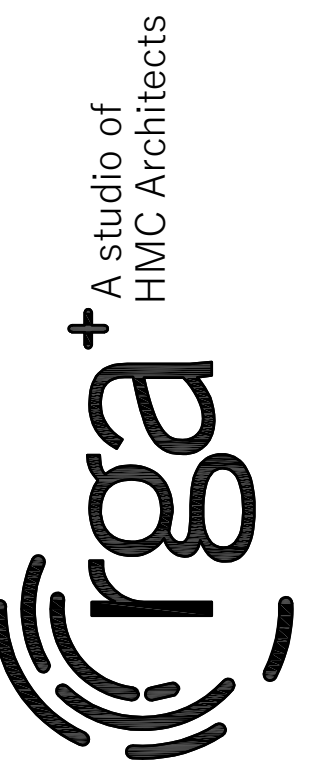
- NOTES:**
- PROVIDE FELT EXPANSION JOINTS AT 20 FEET O.C. MAX.
 - PROVIDE CONTROL JOINTS AT 10 FEET O.C. MAX.
 - EXPANSION OR CONTROL JOINTS SHALL NOT EXCEED 1/2" IN SURFACE WIDTH.

1
C3.1 CONCRETE SIDEWALK
NO SCALE



- NOTES:**
- PROVIDE FELT EXPANSION JOINTS (E.J.) AT 60 FEET O.C. MAXIMUM PROVIDE CONTROL JOINTS AT 10 FEET O.C. MAXIMUM, EXCEPT WHEN PLACING ADJACENT TO CONCRETE WALKS THE EXPANSION JOINTS SHALL ALIGN WITH THE EXPANSION JOINTS SHOWN FOR THE CONCRETE WALKS.
 - AT E.J. USE 1/2" X 24" SMOOTH DOWELS, ALIGN WITH REBAR, GREASE 1/2 THE LENGTH BEFORE CONCRETE PLACEMENT.

2
C3.1 CONCRETE CURB
NO SCALE



SHADE STRUCTURE AT HOLLYWOOD PARK ELEMENTARY SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

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DETAILS AND SECTIONS

PROJECT NO. 1504.08
DATE: 3/21/2022
SHEET

C3.1

PROPOSED SHADE STRUCTURE						
UNIT	DESCRIPTION	OCCUPANCY	CONSTRUCTION TYPE	ALLOWABLE AREA (TABLE 506.2)	ACTUAL AREA	OCCUPANCY CALCULATION
SS	SHADE STRUCTURE	A-3	V-B NON-SPRINKLERED	6,000 S.F.	1,920 S.F.	1,920 S.F. / 15 NET = 128 OCC.

EXISTING BUILDING DESIGNATIONS				
UNIT	DESCRIPTION	DSA APPLICATION #	AREA (SF)	NOTES
A	MULTIPURPOSE	14113	5,115	
B	ADMINISTRATION	14113	5,541	
C1-C2	CLASSROOMS / TOILET ROOMS	14113, THIS APPLICATION	6,350	
D1-D2	CLASSROOMS / TOILET ROOMS	14113	6,350	
E1-E2	RELOCATABLE CLASSROOMS	53491	960 EACH	
F	RELOCATABLE CLASSROOMS	02-100257	1,920	
G	RELOCATABLE CLASSROOMS	02-102371	1,920	
H	RELOCATABLE CLASSROOMS	-	960	

EXISTING PATH OF TRAVEL (POT): ARCHITECT STATEMENT

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE IN CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION 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 POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NON-COMPLIANT:

- HAVE BEEN IDENTIFIED AND
- 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 POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NON-COMPLYING 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.

ACCESSIBLE PARKING STALL CALCULATION

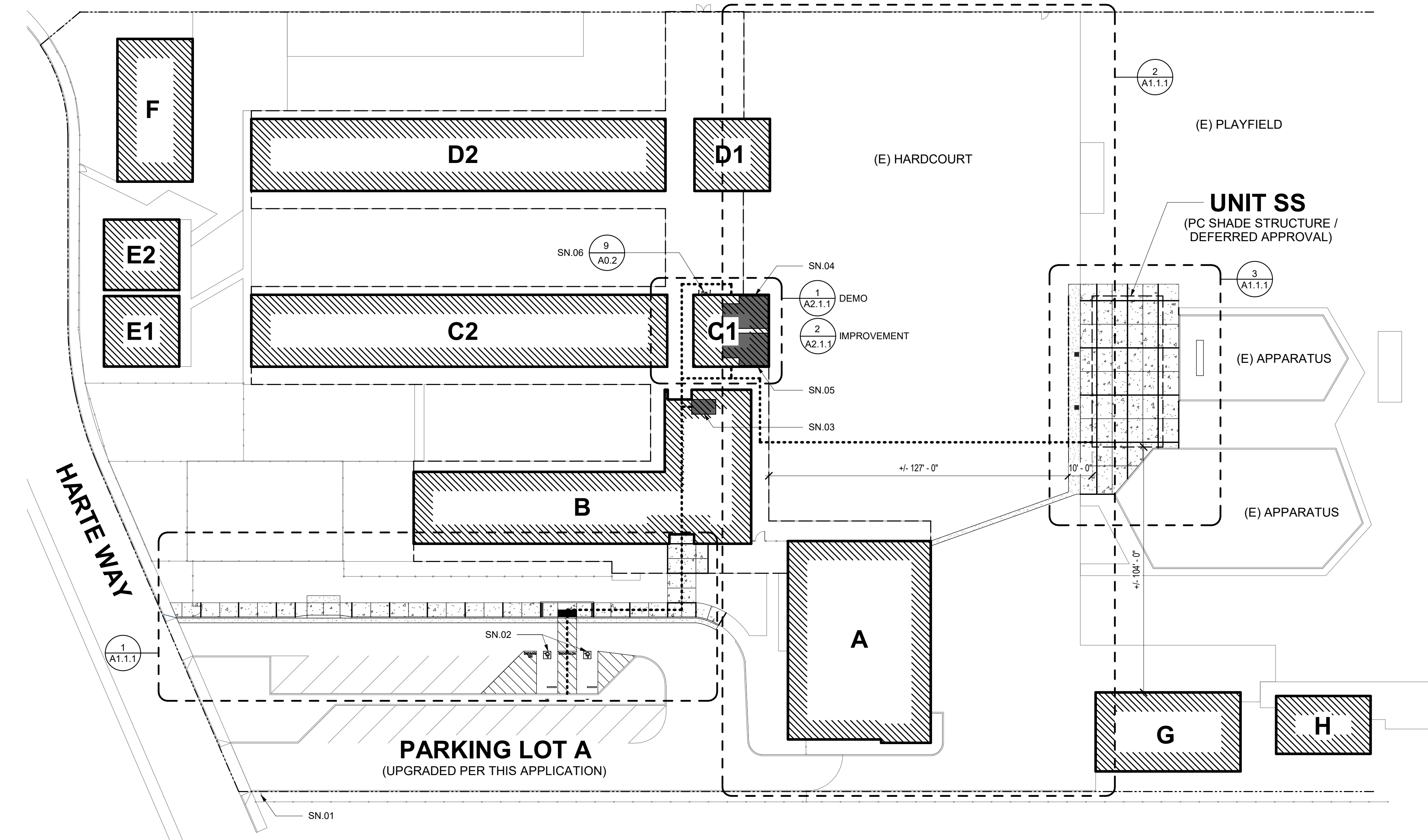
TOTAL PARKING STALL COUNT:	20 STALLS
ACCESSIBLE PARKING STALLS:	(TABLE 11B-208.2)
REQUIRED ACCESSIBLE STALLS:	1 (1-25 TOTAL STALLS)
REQUIRED VAN ACCESSIBLE STALLS:	1 (1-6 ACCESSIBLE STALLS)
ACCESSIBLE STALLS PROVIDED:	1 STANDARD & 1 VAN

- LEGEND**
- PROPERTY LINE
 - ASSUMED PROPERTY LINE
 - UNIT DESIGNATION
 - PC SHADE STRUCTURE / DEFERRED APPROVAL
 - EXISTING BUILDINGS
 - EXPANSION JOINT
 - CONCRETE WALK / PAVING
 - CONTROL JOINT
 - ASPHALT CONCRETE PAVING
 - ACCESSIBLE PATH OF TRAVEL

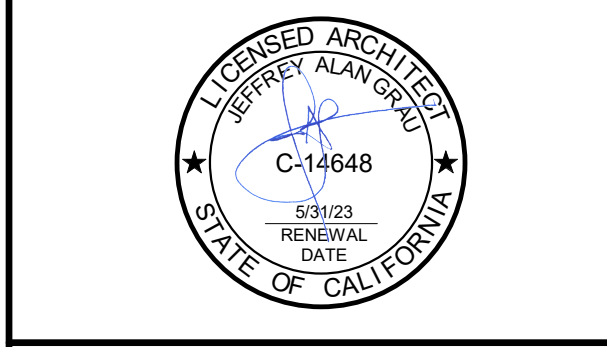
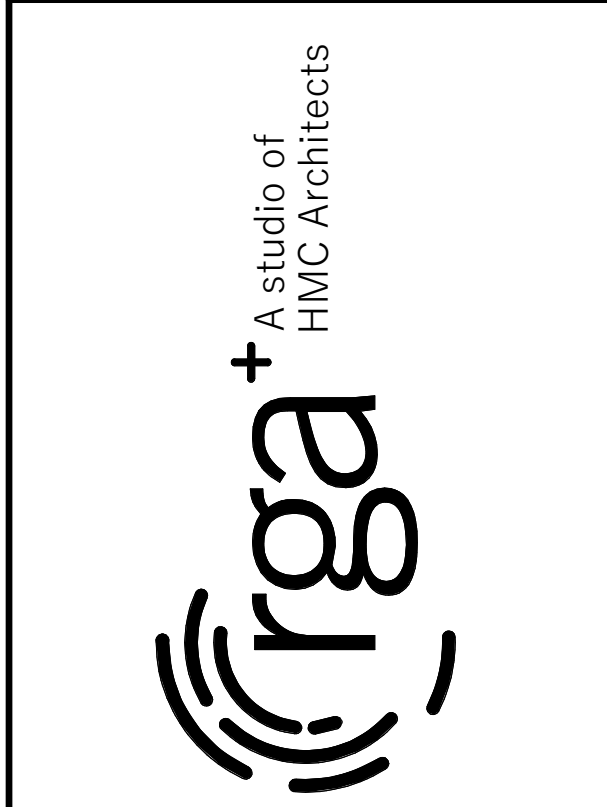
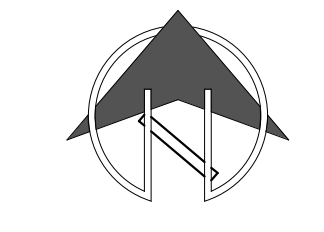
- SITE WALKWAYS SHALL PROVIDE A BARRIER-FREE P.O.T. ABRUPT CHANGES IN LEVEL ALONG ANY P.O.T. ARE ALLOWED UP TO 1/2" ONLY. ABRUPT CHANGES IN ELEVATION UP TO 1/4" ARE ALLOWED TO HAVE A VERTICAL TRANSITION. ABRUPT CHANGES IN ELEVATION BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:1 UNIT VERTICAL TO 2 UNITS HORIZONTAL.
- WALKWAYS SHALL BE FREE OF GRATINGS WHEREVER POSSIBLE. GRATINGS WHICH OCCUR WITHIN THE P.O.T. SHALL HAVE OPENINGS WHICH DO NOT EXCEED 1/2" IN THE DIRECTION OF TRAVEL PER CBC SECTION 11B-302.3.
- AN ABRUPT DROP-OFF CHANGE IN ELEVATION AT THE EDGE OF ANY WALK INTO AN ADJACENT PLANTER SHALL NOT EXCEED 4".
- SLOPES IN THE DIRECTION OF THE P.O.T. GREATER THAN 1:1 UNIT VERTICAL TO 20 UNITS HORIZONTAL SHALL BE CONSIDERED A RAMP AND WILL REQUIRE HANDRAILS ON BOTH SIDES PER CBC SECTION 11B-506. SLOPES IN THE DIRECTION OF THE P.O.T. ALONG WALKWAYS SHALL NOT EXCEED 5%. CROSS SLOPES IN THE P.O.T. ALONG WALKWAYS SHALL NOT EXCEED 2%.
- ALL WALKWAYS WITHIN THE P.O.T. SHALL BE A MINIMUM OF 48" IN WIDTH. SURFACES WITH A SLOPE OF 5% OR LESS SHALL BE AT LEAST AS SLIP-RESISTANT AS THAT PROVIDED BY A LIGHT BROOM FINISH. SURFACES WITH A SLOPE OF MORE THAN 5% SHALL BE AT LEAST AS SLIP-RESISTANT AS THAT PROVIDED BY A MEDIUM BROOM FINISH.
- OBJECTS PROTRUDING INTO THE P.O.T. SHALL NOT REDUCE THE CLEAR WIDTH OR MANEUVERING SPACE WITHIN THE P.O.T. PER CBC SECTION 11B-307.
- PASSING SPACES (11B-403.5.3) OF 60" X 60" MIN. ARE LOCATED NOT MORE THAN 200' APART. WALKS WITH CONTINUOUS GRADIENTS SHALL HAVE 60" IN LENGTH LEVEL RESTING AREAS (11B-403.7) NOT MORE THAN 400' APART. P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MIN (11B-307.4) AND FREE OF PROTRUDING OBJECTS (11B-307) GREATER THAN 4" PROJECTION FROM WALL ABOVE 27" AND LESS THAN 80". OBJECTS PROTRUDING INTO THE P.O.T. SHALL NOT REDUCE THE CLEAR WIDTH OR MANEUVERING SPACE REQUIRED FOR ACCESSIBLE ROUTES (11B-307.5).

SHEET NOTES

- SN.01 (E) PARKING LOT ENTRANCE SIGN REVIEWED AND VERIFIED PER THIS APPLICATION.
- SN.02 ACCESSIBLE PARKING STALLS PER THIS APPLICATION.
- SN.03 (E) ACCESSIBLE STAFF TOILET ROOM UPGRADED PER THIS APPLICATION.
- SN.04 (E) ACCESSIBLE GIRL'S TOILET ROOM UPGRADED PER THIS APPLICATION.
- SN.05 (E) ACCESSIBLE BOYS TOILET ROOM UPGRADED PER THIS APPLICATION.
- SN.06 (E) ACCESSIBLE DRINKING FOUNTAIN UPGRADED PER THIS APPLICATION.



1 SITE PLAN
1" = 30'-0"



SHADE STRUCTURE AT HOLLYWOOD PARK ELEMENTARY SCHOOL
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
 SACRAMENTO, CA

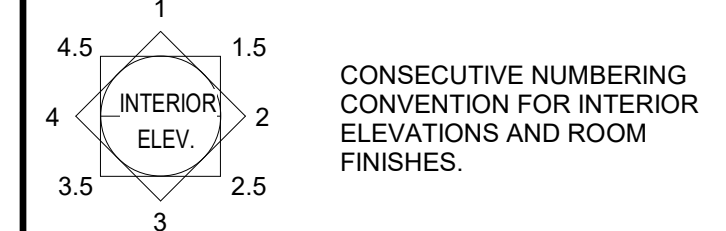
Revision

SITE PLAN AND CODE INFORMATION

PROJECT NO. 1504.08
 DATE: 3/22/2022
 SHEET
A11.0

C:\Users\matt\Documents\1504.08_HollywoodPark_Elementary_School.dwg

LEGEND



GENERAL NOTES

- FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.2
- PROTECT ALL ADJACENT SURFACES, ITEMS AND FINISHES NOT NOTED TO BE DEMOLISHED.
- 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.
- REMOVE ALL ITEMS SCHEDULED TO BE REMOVED, INCLUDING MOUNTING HARDWARE.
- DEMO AND REPAIR WALL FINISH AS NECESSARY TO PERFORM FIXTURE AND EQUIPMENT WORK AS NOTED. ADJACENT FINISHES TO BE VERIFIED BY CONTRACTOR.

DEMOLITION NOTES

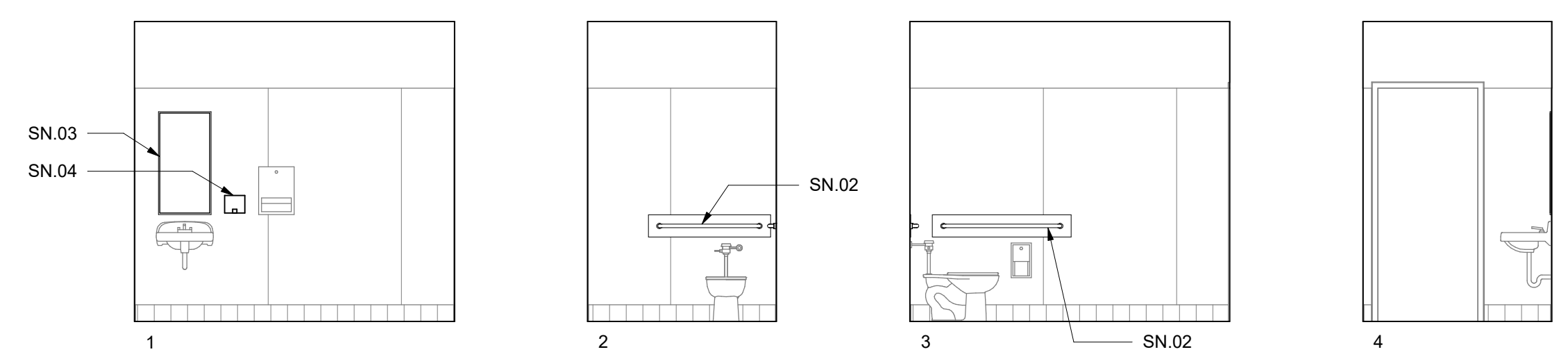
- DN.01 REMOVE (E) WALL-MOUNTED WATER CLOSET AND SALVAGE FOR REINSTALLATION
 DN.02 REMOVE (E) GRAB BARS AND SALVAGE FOR REINSTALLATION
 DN.03 REMOVE (E) MIRROR AND SALVAGE FOR REINSTALLATION
 DN.04 REMOVE (E) SOAP DISPENSER AND SALVAGE FOR REINSTALLATION
 DN.05 REMOVE (E) WALL-MOUNTED URINAL AND SALVAGE FOR REINSTALLATION
 DN.06 REMOVE (E) TOILET ROOM I.D. SIGN
 DN.07 REMOVE (E) TOILET ROOM DOOR SYMBOL

SHEET NOTES

- SN.01 REINSTALL (E) SALVAGED WALL-MOUNTED WATER CLOSET TO COMPLY WITH A0.2. ADJUST (E) WATER CARRIER AS REQUIRED FOR RECONNECTION TO WATER CLOSET.
 SN.02 REINSTALL (E) SALVAGED GRAB BARS TO COMPLY WITH A0.2.
 SN.03 REINSTALL (E) SALVAGED MIRROR TO COMPLY WITH A0.2.
 SN.04 REINSTALL (E) SALVAGED SOAP DISPENSER TO COMPLY WITH A0.2.
 SN.05 REINSTALL (E) SALVAGED URINAL TO COMPLY WITH A0.2. ADJUST (E) WATER CARRIER AS REQUIRED FOR RECONNECTION TO URINAL. RECONNECT TO (E) WATER LINE, WASTE LINE AND VENT.
 SN.06 30" X 48" CLEAR SPACE
 SN.07 60" DIA. TURNING CIRCLE
 SN.08 SIGN TO READ "BOYS"
 SN.09 SIGN TO READ "GIRLS"
 SN.10 SIGN TO READ "STAFF"
 SN.11 WRAP ALL EXPOSED PIPES WITH INSULATION AT LAVATORIES

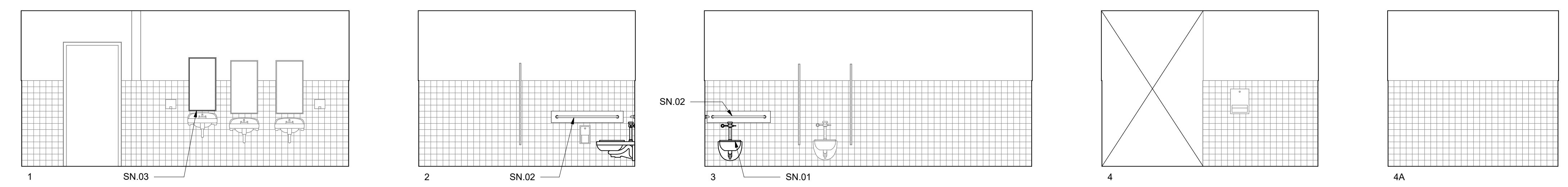
KEYNOTES

- 10.043 SIGNAGE: TOILET ROOM IDENTIFICATION
 10.051 SIGNAGE: TOILET ROOM DOOR SYMBOL



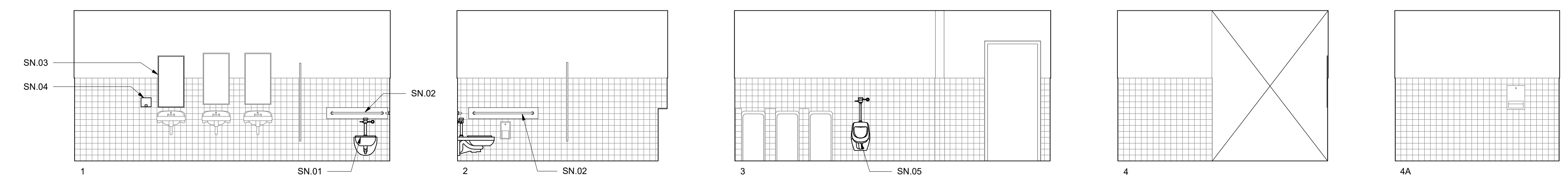
B101 - STAFF
1/4" = 1'-0"

ADULT HEIGHT



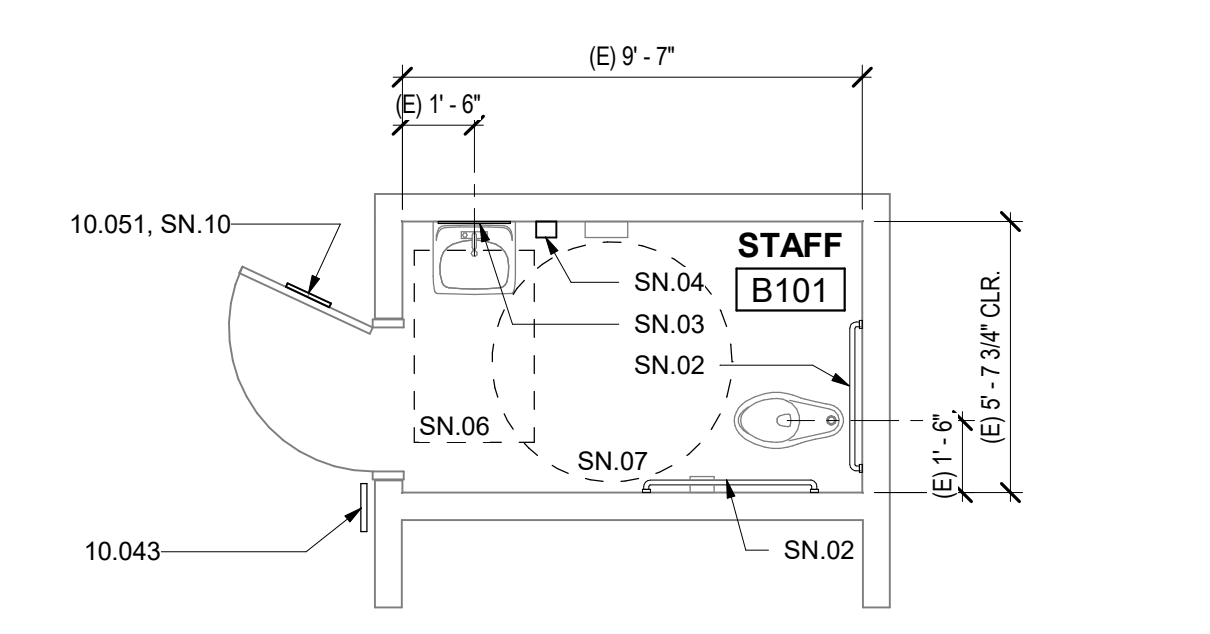
C101 - GIRLS
1/4" = 1'-0"

ADULT HEIGHT

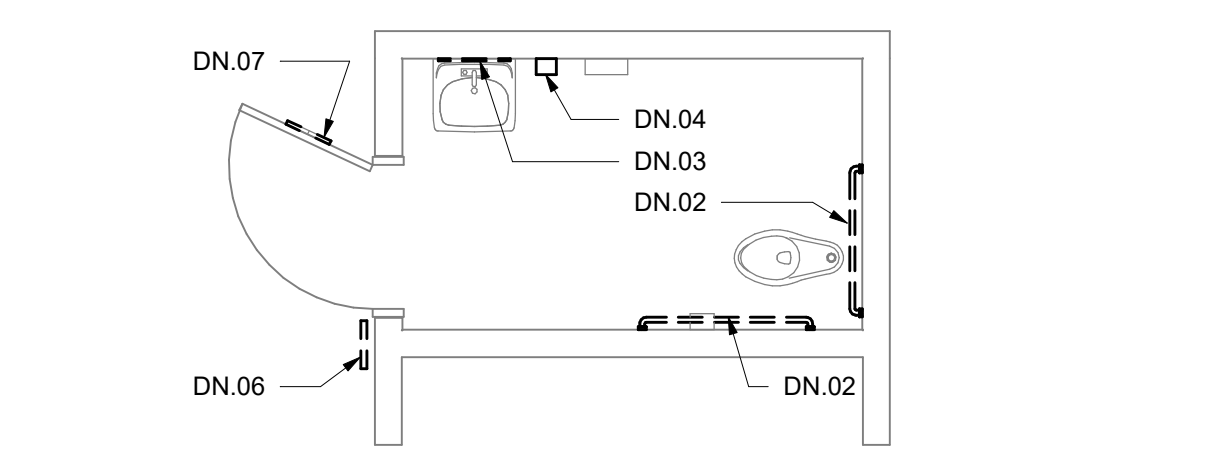


C102 - BOYS
1/4" = 1'-0"

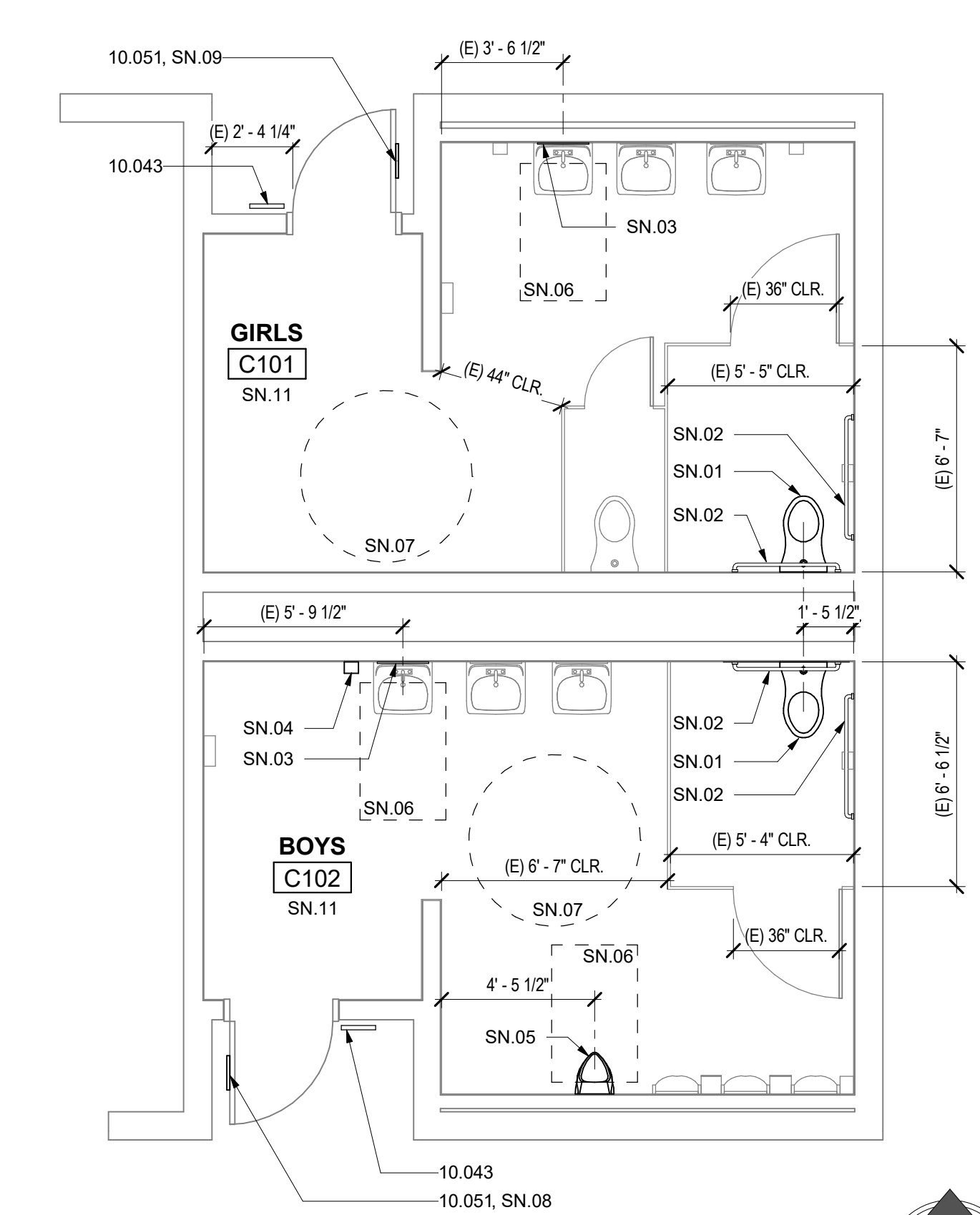
ADULT HEIGHT



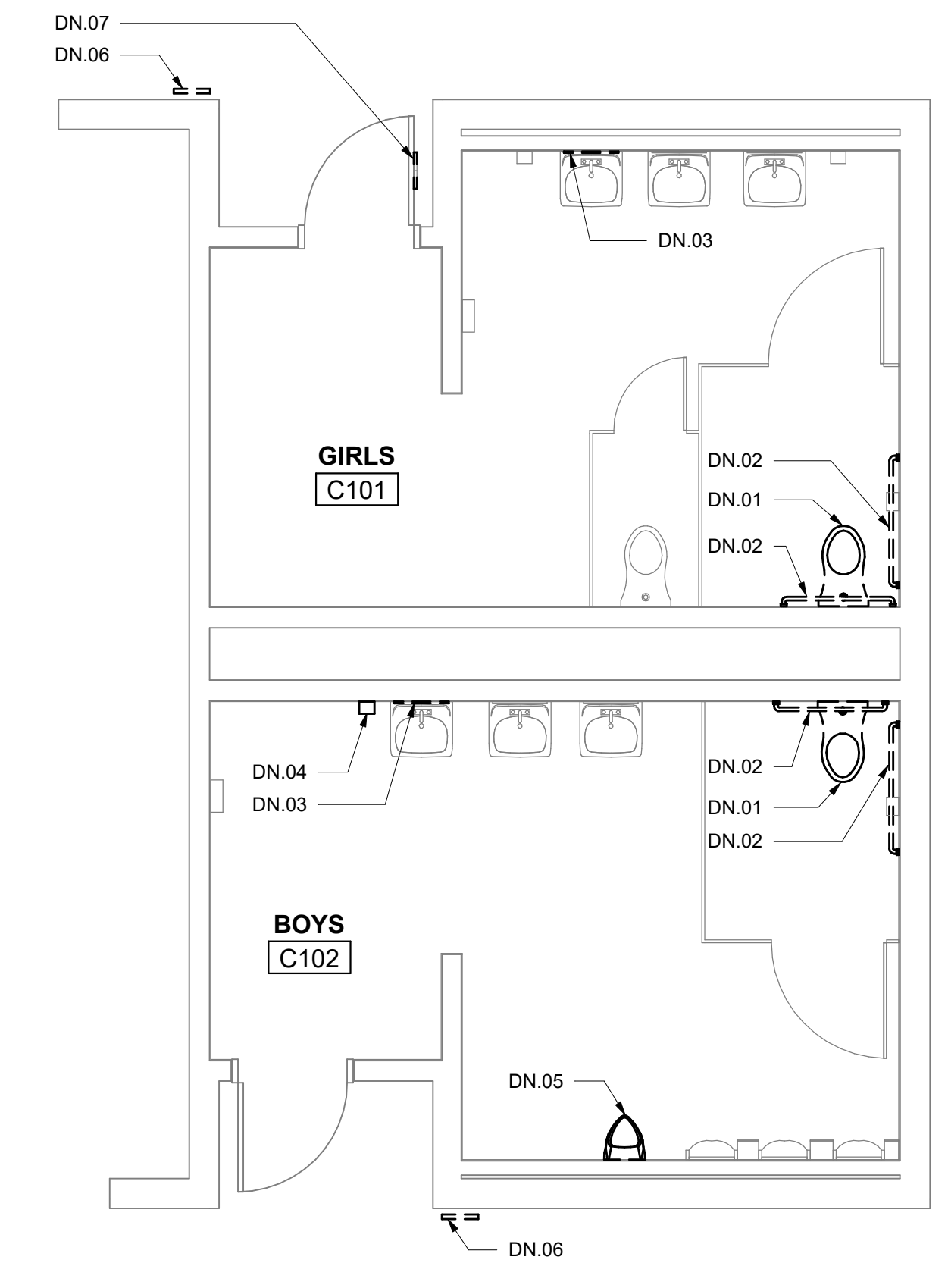
4 STAFF - IMPROVEMENT
1/4" = 1'-0" ADULT HEIGHT



3 STAFF - DEMOLITION
1/4" = 1'-0" ADULT HEIGHT



2 GIRLS AND BOYS - IMPROVEMENT
1/4" = 1'-0" ADULT HEIGHT



1 GIRLS AND BOYS - DEMOLITION
1/4" = 1'-0" ADULT HEIGHT

ABBREVIATION LIST

A AMPERE
 A/C AIR CONDITIONING
 AER ARC ENERGY REDUCTION
 AF AMP FRAME
 AFF ABOVE FINISHED FLOOR
 AIC AMPERES INTERRUPTING CAPACITY
 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
 ENT ELECTRICAL METALLIC TUBING
 EQ END OF LINE DEVICE
 EQUIP EQUIPMENT
 (ER) EXISTING RELOCATED
 EWH ELECTRICAL WATER COOLER
 EWH ELECTRICAL WATER HEATER
 (F) FUTURE
 FAOP 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 GAS PIPE
 GYP GYPSUM
 HID HIGH INTENSITY DISCHARGE
 HT HORSE POWER
 HZ HERTZ
 IMC INTERMEDIATE METALLIC CONDUIT
 IN INCH
 ISC SHORT CIRCUIT CURRENT
 (RMS SYMMETRICAL)
 ISO ISOLATED
 J-BOX JUNCTION BOX
 K-MIL 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
 MPEE 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) RELOCATE / 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
 TMBG TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
 TELEPHONE TERMINAL BOARD
 TYP TYPICAL
 UC UNDERGROUND
 UNLESS OTHERWISE NOTED
 V VOLTS
 WP WEATHERPROOF
 W WEIGHT
 W WATT
 W/ WITH
 XFRM TRANSFORMER
 & AND

GENERAL NOTES

- 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.
- ALL WORK SHALL BE DONE AT SUCH TIME AND IN SUCH MANNER AS PRESCRIBED BY THE SCHOOL'S REPRESENTATIVE.
- PROTECT EXISTING EQUIPMENT AND FURNISHINGS FROM ANY DAMAGE DUE TO DUST, MOISTURE OR CONTACT WITH WORK CREW OR MATERIALS.
- 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.
- 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.
- CORE BORE SHALL BE 1" DIAMETER LARGER THAN EACH CONDUIT. SPACE CONDUIT HOLES 3" APART. SEAL AROUND CONDUIT WITH NON-SHRINK, NON-METALLIC GROUT.
- ALL CONDUCTORS INSTALLED IN PANELBOARDS SHALL BE TRAINED, LACED, AND INSTALLED WITH PHASE TAPE ON ALL CONDUCTORS.
- LABEL DEVICES (I.E. RECEPTACLES, ETC.) ON EACH COVER PLATE IDENTIFYING CIRCUIT AND PANEL DEVICE IS CONNECTED TO.
- 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.
- FIELD COORDINATE DEVICE LOCATIONS PRIOR TO ROUGH-IN.
- 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 LABELS BY BRADY, MODEL NO. 101517, OR EQUAL, ON ALL EQUIPMENT.
- 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.
- SUPPORT ENCLOSURES, BOXES AND CONDUIT INSTALLATIONS PER CEC 314.23 (A) THROUGH (H).
- 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.
- 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.
- 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-ZN 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.
- 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.
- 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.
- COORDINATE EQUIPMENT LOCATIONS, CONTROL AND POWER WIRING REQUIREMENTS AND CONNECT POINTS WITH ALL APPLICABLE DISCIPLINES.
- PROVIDE AND INSTALL FUSES PER UNIT NAMEPLATE DATA ON THE EQUIPMENT PROVIDED.
- A LAMINATED COPY OF THE FINAL RECORD ONE LINE DIAGRAM SHALL BE PLACED IN ELEC ROOM.
- PROVIDE WRING DEVICES AND COVER PLATES IN COLOR(S) SELECTED BY ARCHITECT. THE COLOR OF THE WRING DEVICE AND COVER PLATE SHALL BE THE SAME UNLESS SPECIFICALLY NOTED OTHERWISE.
- RECEPTACLE WEATHERPROOF COVERS SHALL BE LISTED "EXTRA DUTY", LOCKABLE, METAL, IN-USE TYPE.
- 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.
- FOR ROOF PENETRATIONS, REFER TO ARCHITECTURAL PLANS FOR INSTALLATION REQUIREMENTS.
- FOR WALL PENETRATION INSTALLATIONS, REFER TO ARCHITECTURAL PLANS FOR REQUIREMENTS.
- PROVIDE "LOOK-ON" DEVICE FOR ALL CIRCUIT BREAKERS ON EMERGENCY DEDICATED CIRCUITS.
- 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.
- MAINTAIN A MINIMUM OF 12" SEPARATION BETWEEN ANY CONDUIT AND (E) UTILITY CONDUIT.
- 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 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30:

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 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.
- 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:

- 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.
- 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 2019 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., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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 OSHPD PRE-APPROVAL (OPM #) #_____

SYMBOLS LIST

- FUSED DISCONNECT SWITCH
- DUPLEX CONVENIENCE OUTLET
- DOUBLE DUPLEX CONVENIENCE OUTLET
- GROUND FAULT CIRCUIT INTERRUPTER DUPLEX OUTLET
- GROUND FAULT CIRCUIT INTERRUPTER 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
- TERMINAL CABINET, RECESSED MOUNTED
- TERMINAL CABINET, SURFACE MOUNTED
- 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.
- SYMBOLS REFERRING TO KEYED NOTES ON SAME SHEET
- MECHANICAL EQUIPMENT BY OTHERS, CONNECTED BY ELECTRICAL CONTRACTOR
- DETAIL DESIGNATION, "A" SIGNIFIES DETAIL, "E-1" SIGNIFIES SHEET NUMBER
- (1)1-1/2" ← INDICATES SIZE OF CONDUIT = ONE AND ONE HALF INCH CONDUIT
- ← NUMBER WITHIN PARENTHESIS INDICATES QUANTITY OF CONDUITS

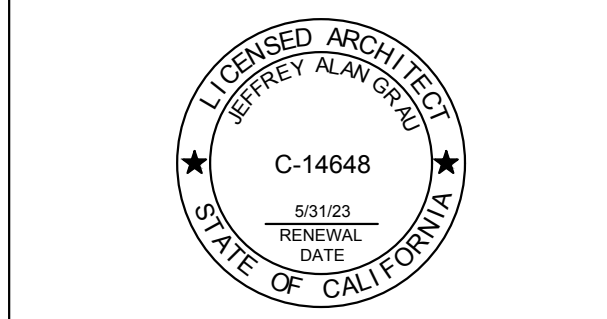
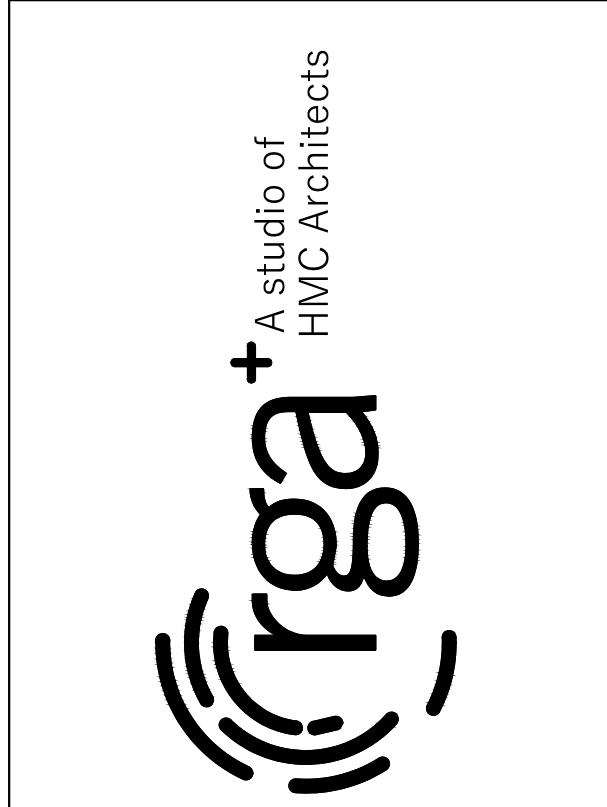
SYMBOLS LIST NOTES:

- MOUNT SWITCH BOXES AT +48" TO TOP OF BOX UNLESS OTHERWISE NOTED.
- MOUNT OUTLET BOXES AT +15" TO BOTTOM OF BOX UNLESS OTHERWISE NOTED.
- "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:
 - +45" MAX TO TOP OF BOX WHERE BOX IS INSTALLED OVER BASE CABINET.
 - +44" MAX TO TOP OF BOX WITH OPEN COUNTERS WITH FORWARD APPROACH.
- OUTLET BOXES SHALL BE:
 - WALL MOUNTED - 4" SQ. x 2-1/8" DEEP MINIMUM
 - CEILING MOUNTED - 4" SQ. OR 4" OCT. x 2-1/8" DEEP MINIMUM
- OUTLET BOXES REQUIRING 1-1/4", 1-1/2" OR 2" CONDUITS SHALL BE 4-11/16" x 3-1/4" DEEP MINIMUM.
- FLUSH MOUNTED OUTLET BOXES SHALL UTILIZE TRIM RINGS. COORDINATE TRIM RING DEPTH WITH WALL FINISH PRIOR TO ROUGH-IN.
- NO CROSSBARS ON CONDUIT RUN INDICATES MINIMUM 1" CONDUIT. TWO #10 CU CONDUCTORS PLUS #10 CU GND. CROSSBARS INDICATE NUMBER OF #10 CU CONDUCTORS IN CONDUIT. CONDUCTOR SIZES OTHER THAN #10 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.
- 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.
- INSTALL CU GROUND CONDUCTOR IN ALL BRANCH CIRCUITS FOR LIGHT FIXTURES AND POWER DEVICES.

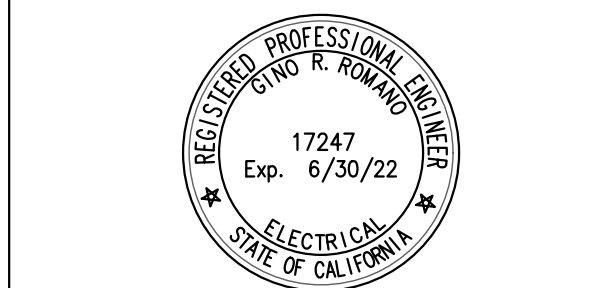
120V BRANCH CIRCUIT VOLT DROP CONDUCTOR LENGTH CHART

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

- NOTES
- THIS CHART IS FOR COPPER CONDUCTORS ONLY.
 - THIS CHART ASSUMES AN 80% POWER FACTOR AND STEEL RACEWAYS.
 - 2019 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.
 - USE WIRE SIZE FROM THIS CHART UNLESS LARGER CONDUCTOR SIZES ARE NOTED ON THE DRAWINGS.
 - FOR VA VALUES NOT SHOWN USE NEXT HIGHEST VALUE FROM THE CHART



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PLOT DATE: 3/17/2022

SHADE STRUCTURE AT HOLLYWOOD PARK ELEMENTARY SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision

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SYMBOLS, NOTES

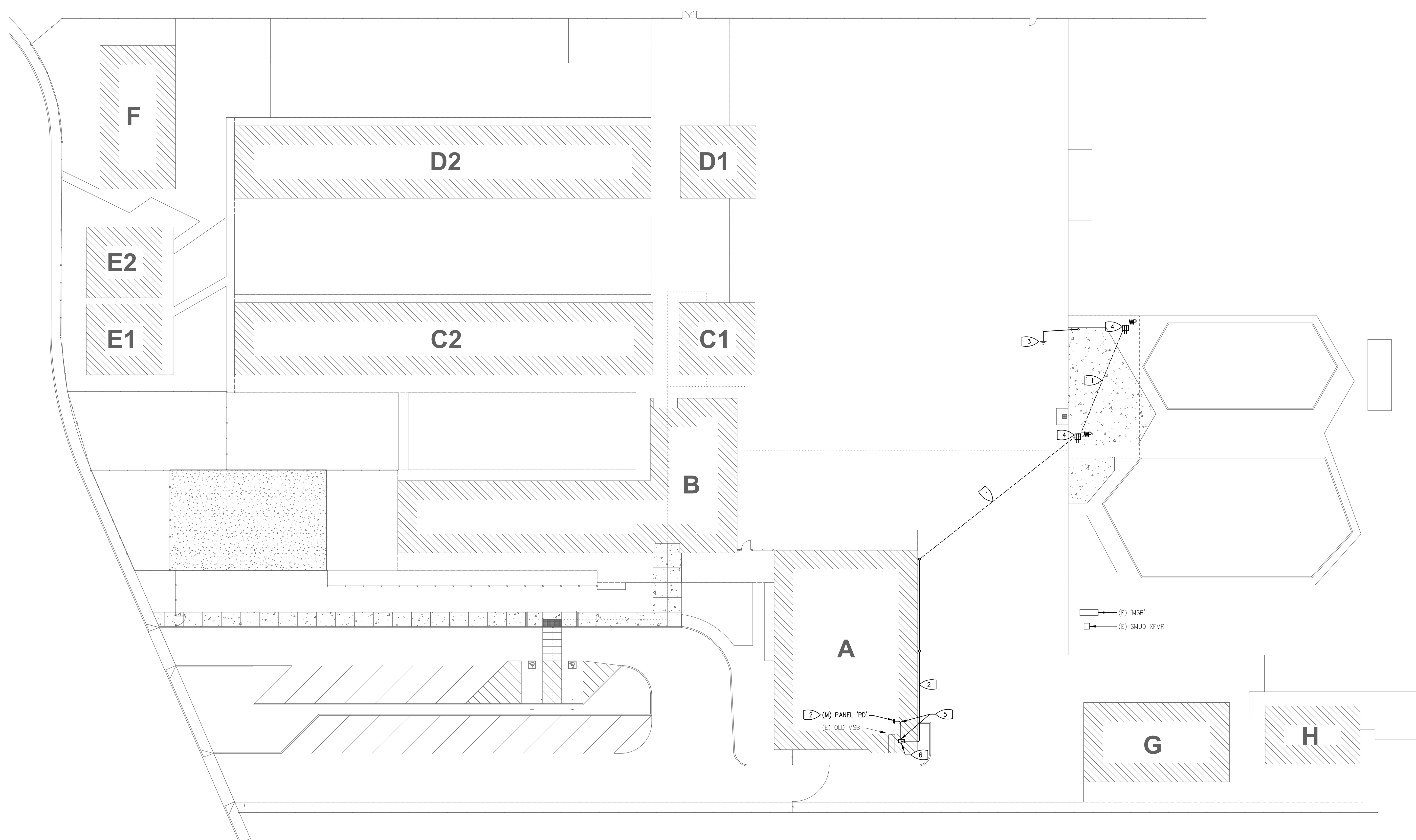
PROJECT NO. 1504.08
 DATE: 3/21/2022
 SHEET

SHEET NOTES:

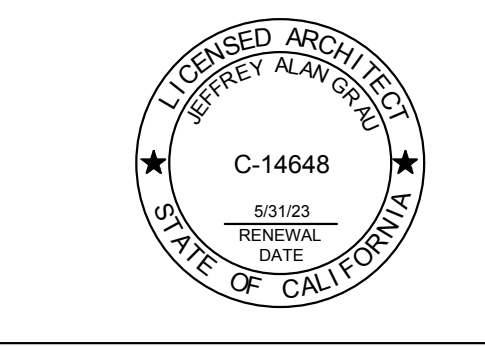
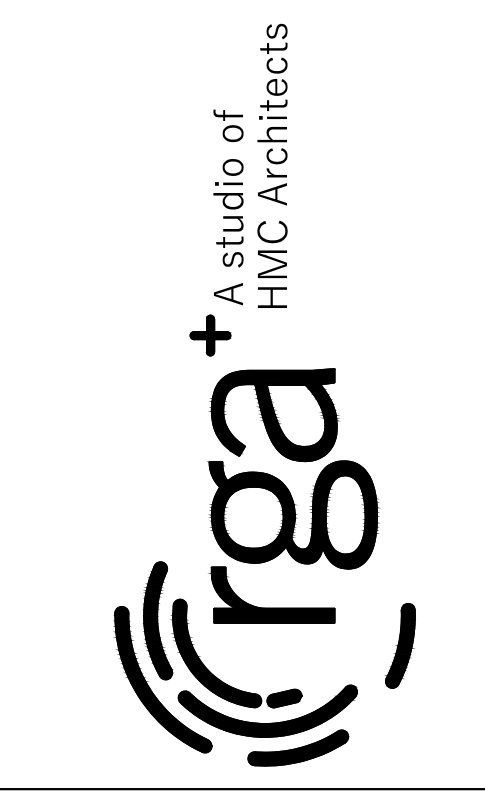
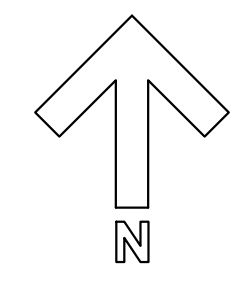
1. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DRAWINGS AND LIMITED SITE SURVEYS, AND SHOWN FOR CLARITY ONLY.
2. SEE ONE LINE DIAGRAM AND PANEL SCHEDULE ON SHEET **E2.1** FOR REFERENCE.

KEYED NOTES:

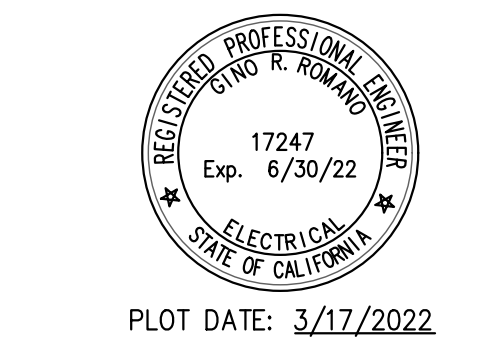
- 1 PROVIDE TRENCH FOR 24 INCH MINIMUM COVER. LOCATE AND PROTECT (E) UTILITIES, I.E. IRRIGATION, SEWER, DRAINAGE PIPES, ETC. SAW CUT AND PATCH BACK (E) ASPHALT. PROVIDE SAND TO COVER CONDUIT TO SIX(6) INCHES, THEN ADD TRACER TAPE. COMPLETE BACKFILL TO GRADE WITH NATIVE SOIL. COMPACT IN SIX(6) LIFTS. FINISH TO MATCH EXISTING. SEE DETAIL **3/E3.1**.
- 2 PROVIDE TYPE LB CONDUIT BODY HIGH ON WALL. PENETRATE ELECTRICAL RM WALL AND RUN HIGH ON WALL TO SOUTHEAST ALCOVE. PENETRATE WALL AND WRAP CONDUIT AROUND BUILDING AS CLOSE TO EAVE AS POSSIBLE. DROP CONDUIT WHERE NECESSARY TO COORDINATE WITH (E) CONDUIT ALONG THE LENGTH OF THE BUILDING. DROP CONDUIT TO BELOW ASPHALT. PROVIDE CHRISTY N9 PULL BOX WITHIN FIVE(5) FT OF SHADE STRUCTURE. TRENCH TO SHADE LOCATION, INTERCEPTING THE CHRISTY BOX ALONG THE WAY. CHRISTY BOX TO HAVE HOLD DOWN BOLTS AND BE LABELED FOR POWER. PAINT EXPOSED CONDUIT TO MATCH (E) FINISH.
- 3 PROVIDE AT MINIMUM TWO(2) GROUND RODS, EACH 5/8" BY TEN(10) FEET LONG, CU, AT LEAST TEN(10) FEET APART. BOND TO METAL OF SHADE STRUCTURE. SEE DETAIL **5/E3.1**.
- 4 LOCKABLE, WEATHERPROOF RECEPTACLE TO HAVE A TWO-GANG BACK BOX WITH 1" THREADED PORT. MOUNT RECEPTACLES 36" ABOVE GRADE UNLESS SPECIFIED OTHERWISE. SEE DETAIL **4/E3.1**.
- 5 CONDUIT TO PENETRATE WALL. PATCH BACK TO MATCH (E) BUILDING CONSTRUCTION.
- 6 PROVIDE 12" BY 12" BY 4" NEMA 3R PULL BOX.



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



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PLOT DATE: 3/17/2022

SHADE STRUCTURE AT HOLLYWOOD PARK ELEMENTARY SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision

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SITE PLAN - ELECTRICAL

PROJECT NO. 1504.08
DATE: 3/21/2022

SHEET **E1.1**

MODIFIED

PANEL:	MANF:	CUT-HAM	MAIN:	225/3	SERVICE:	120/208 VOLT	MOUNTING:	ENCLOSURE:	10K AIC
PD	TYPE:	PRL1A	BUS:	225 AMP	120/208 VOLT	SURFACE	WIDTH:	100% NEUT.	
	FEEDER RATING:	400 AMP	3 @, 4W				DEPTH:		

AØ	BØ	CØ	DIRECTORY	BRKR	CKT	CKT	BRKR	DIRECTORY	AØ	BØ	CØ
2002			AC-20	25/3	1	2	20/1	HANDICAP LIFT	1600		
	2002		"	-	3	4	20/1	ROOF RECEP	1200		
		2002	"	-	5	6	20/1	RECEP	380		
			SPACE	PFB	7	8	15/3	OVEN HOOD	1201		
			SPACE	PFB	9	10	-	"	1201		
			SPACE	PFB	11	12	-	"			
			SPACE	PFB	13	14	PFB	SPACE			
			SPACE	PFB	15	16	PFB	SPACE			
			SPACE	PFB	17	18	PFB	SPACE			
12009			AC-1D	150/3	19	20					
	12009		"	-	21	22					
			"	-	23	24					

NEW LOAD		DEMAND READINGS		PEAK DEMAND @ 125% + (N) LOAD		TOTAL DEMAND LOAD	
AØ	AMPS	AMPS	@125%	AMPS	VA	AMPS	VA
AØ =	18812 VA	140	18	22.5	183 A	18512 VA	
BØ =	18412 VA	137	18.4	23.0	160 A	19172 VA	57076 VA
CØ =	15572 VA	130	18.8	23.5	153 A	18392 VA	162.6 AMPS

NOTES:

- FEEDER CONDUCTORS CONSIST OF 4#4/0 + #4 GND CU
- BRANCH BREAKERS ARE CUTLER-HAMMER TYPE BA, RATED FOR 10KAIC
- MAIN BREAKER IS CUTLER-HAMMER TYPE ED, RATED FOR 65KAIC
- SUB-FEED BREAKER IS CUTLER-HAMMER TYPE FDB, RATED FOR 18KAIC
- PROVIDE TYPE-WRITTEN PANEL DIRECTORY
- ALL NEW BREAKERS TO MATCH EXISTING TYPES
- PROVIDE NEW 20 AMP, SINGLE-POLE BREAKER

SHEET NOTES:

- 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:

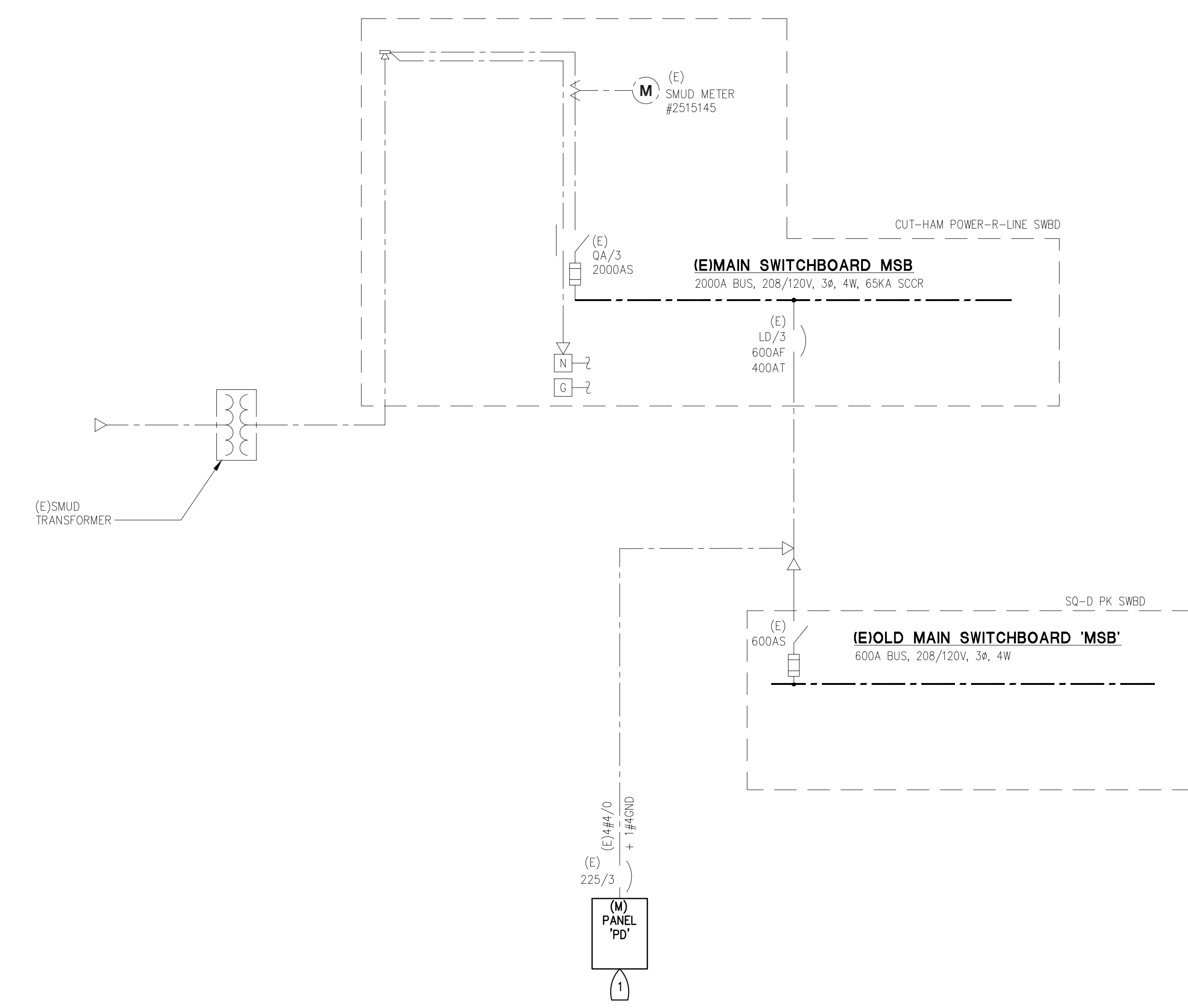
1 MODIFIED PANEL SERVES EQUIPMENT BEING ADDED IN THIS PROJECT. SEE PANEL SCHEDULE ON THIS SHEET FOR REFERENCE.

Voltage Drop Calculations Copper

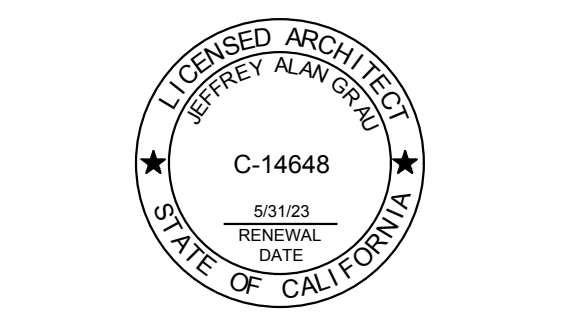
Job Name: Hollywood Park Elementary School - Shade Structure Job #: 22.020
Date: 3/10/2022

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	3.0	0.4	118.68	220	220	1	3.00	10	1995	1.32	1.10%
RECEPT-2	1.5	0.2	118.51	57	277	1	1.50	10	1995	1.49	1.24%



1 ONE LINE DIAGRAM
SCALE: NONE



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PLOT DATE: 3/17/2022

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ONE LINE DIAGRAM

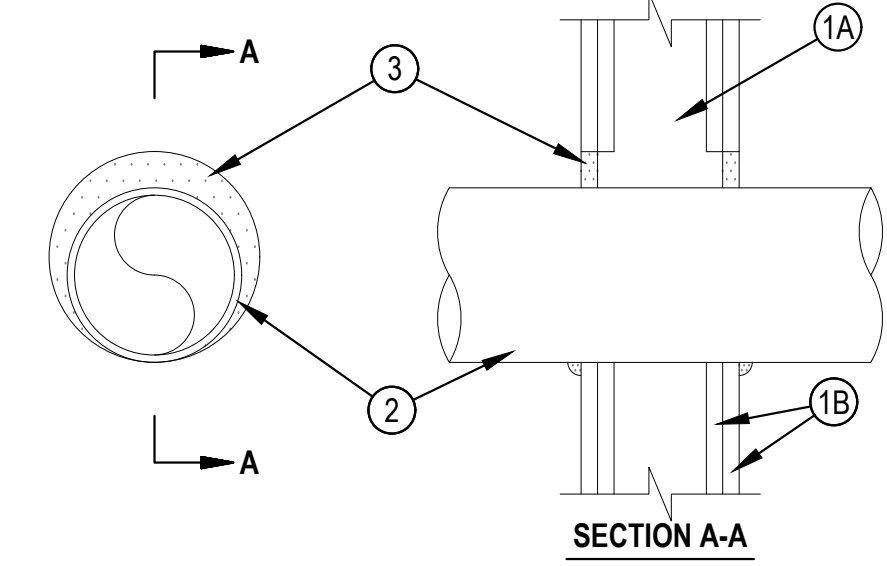
PROJECT NO. 1504.08
DATE: 3/21/2022
SHEET

E2.1



System No. W-L-1054

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating at Ambient — Less Than 1 CFM/sq ft	FH Ratings — 1 and 2 Hr (See Items 1 and 3)
L Rating at 400 F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 1 CFM/sq ft
	L Rating at 400 F — Less Than 1 CFM/sq ft



1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

- A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nominal 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
- B. Gypsum Board — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls. The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly.
- 2. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
 - A. Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - B. Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
 - C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) diam steel conduit.
 - D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
 - E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.
- 3. Fill, Void or Cavity Material — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.

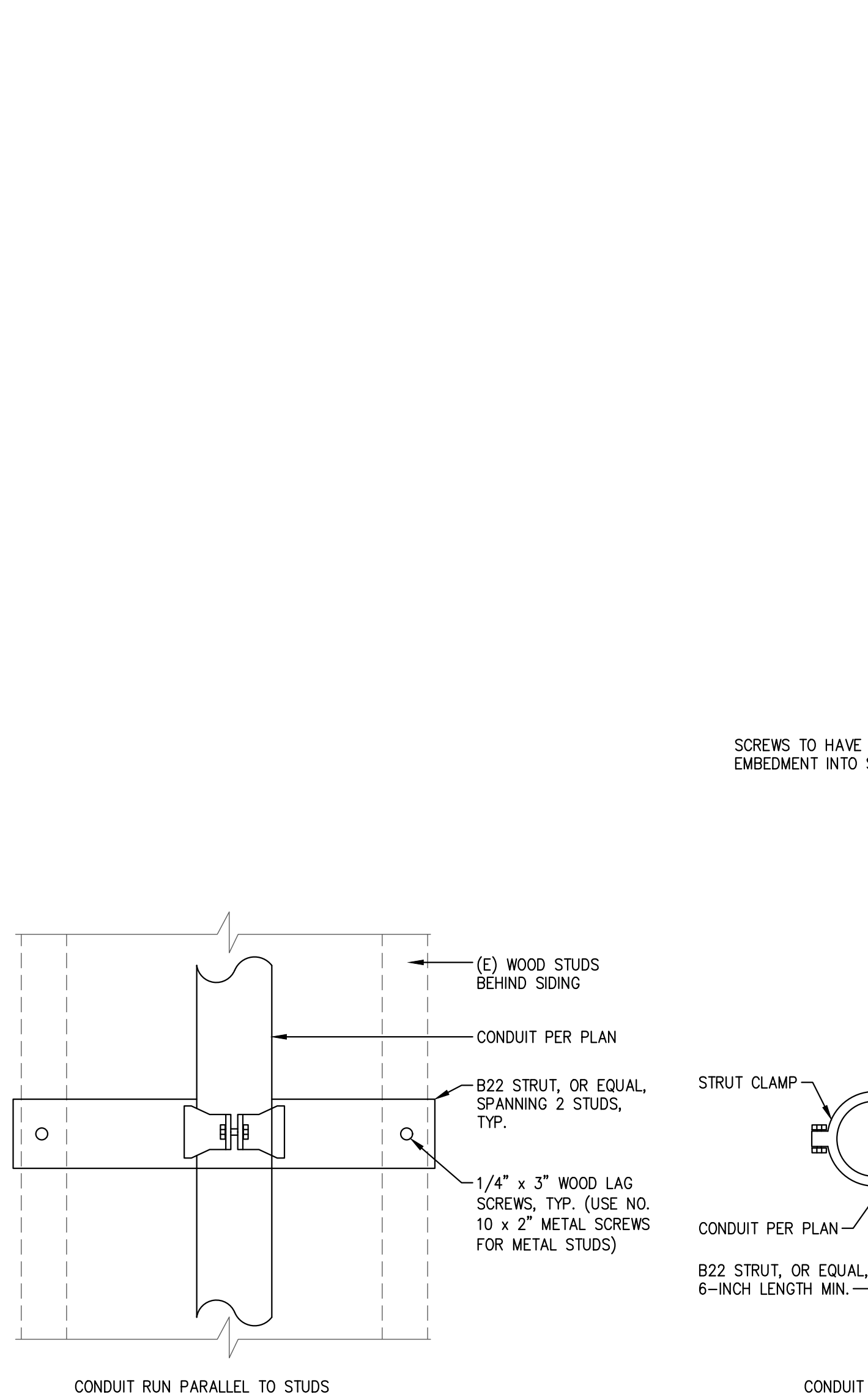
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant
 *Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



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7 WALL PENETRATION FIRESTOP

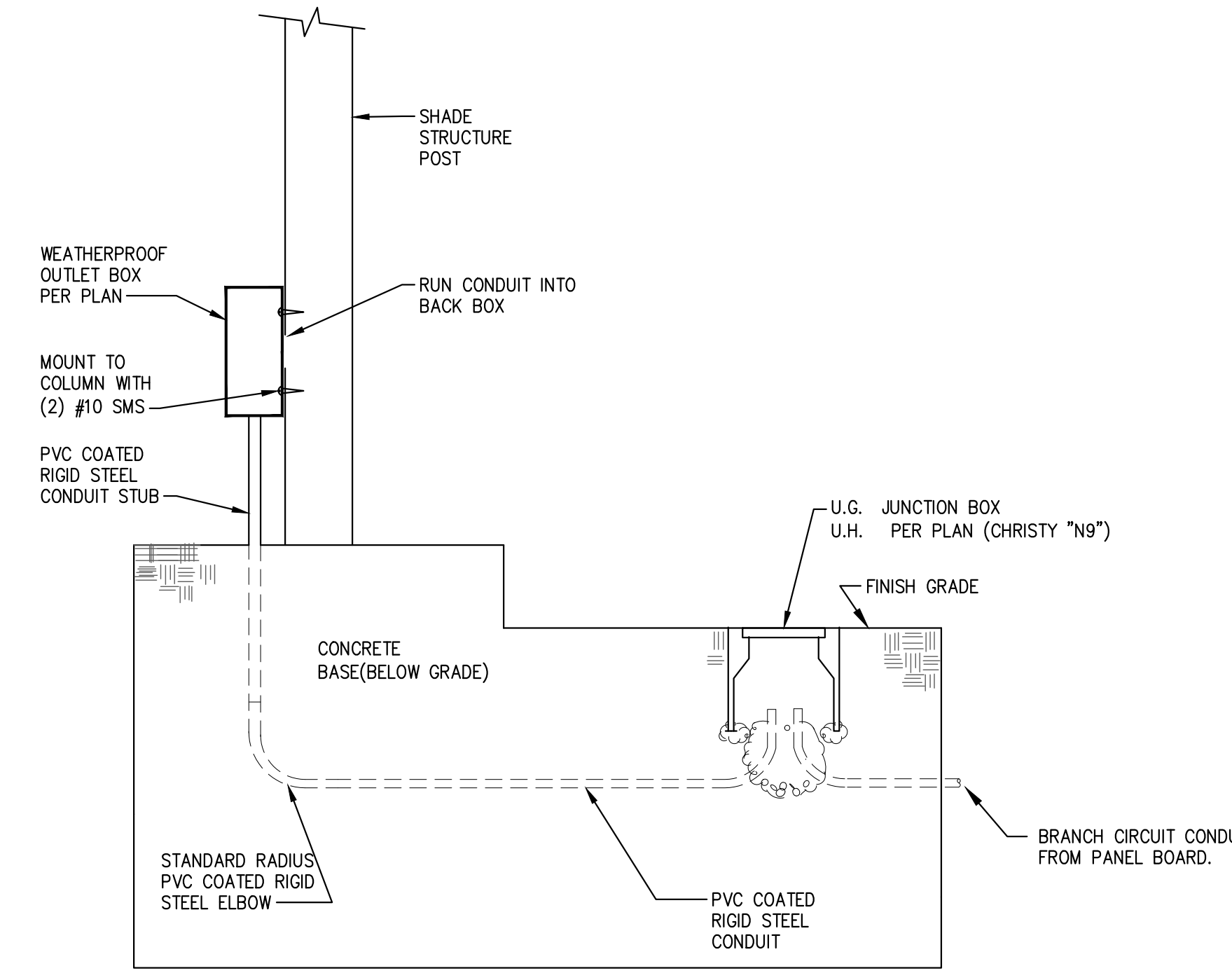
SCALE: NONE



- NOTES:
- 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.
 - PERFORATED STRAP AND PLUMBER'S TAPE SHALL NOT BE PERMITTED.
 - MAXIMUM CONDUIT AND CONDUCTOR WEIGHT IS 1.83LBS PER LINEAR FOOT.

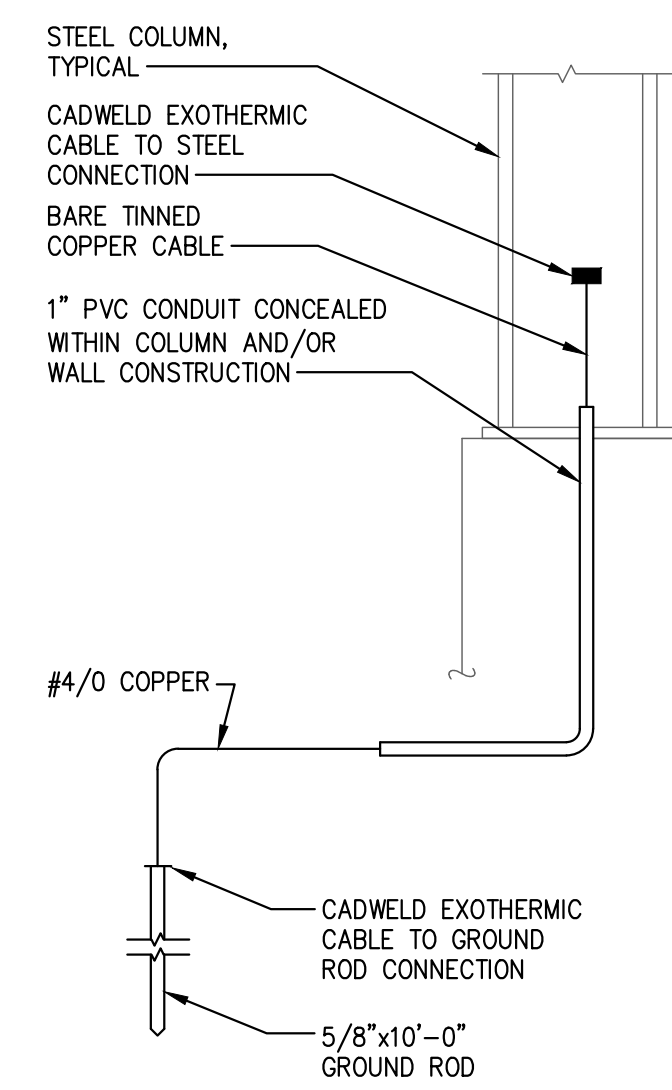
8 CONDUIT MOUNTING DETAIL - STUD WALLS

SCALE: NONE



4 CONDUIT STUB IN POST DETAIL

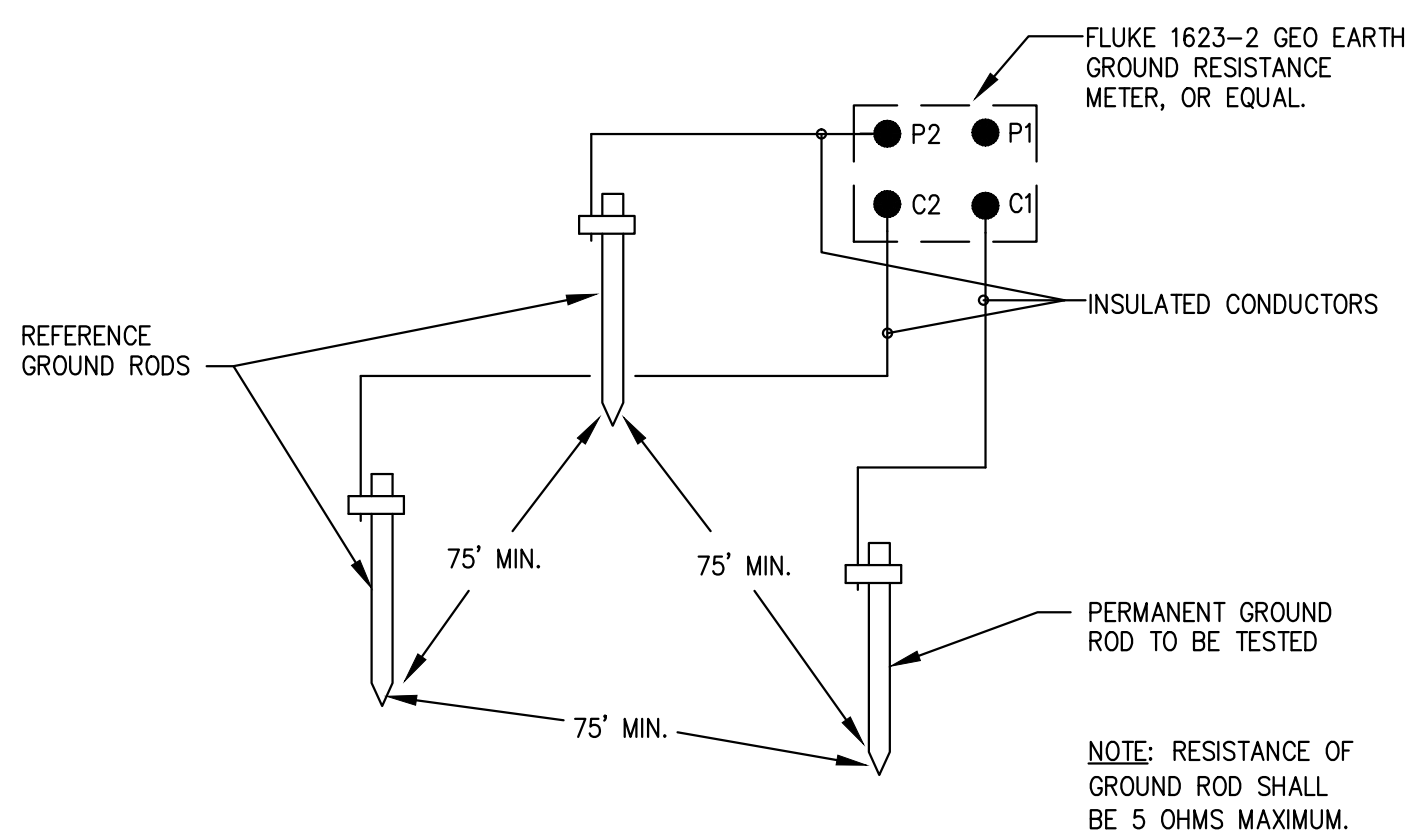
SCALE: NONE



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

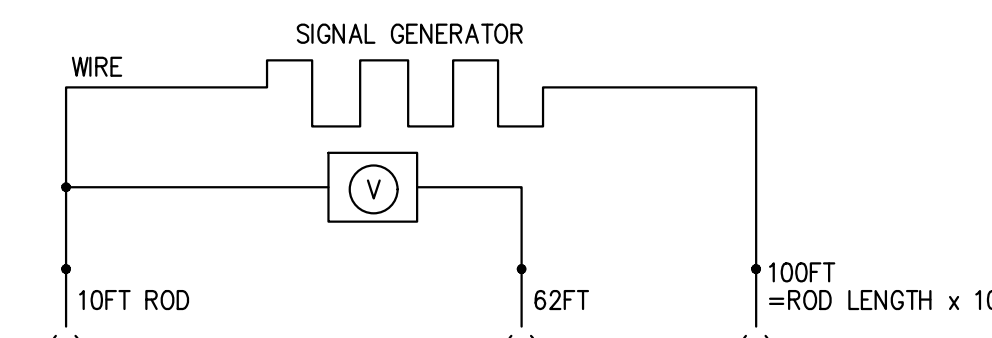
5 TYPICAL STEEL COLUMN & REBAR GROUNDING DETAIL

SCALE: NONE



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

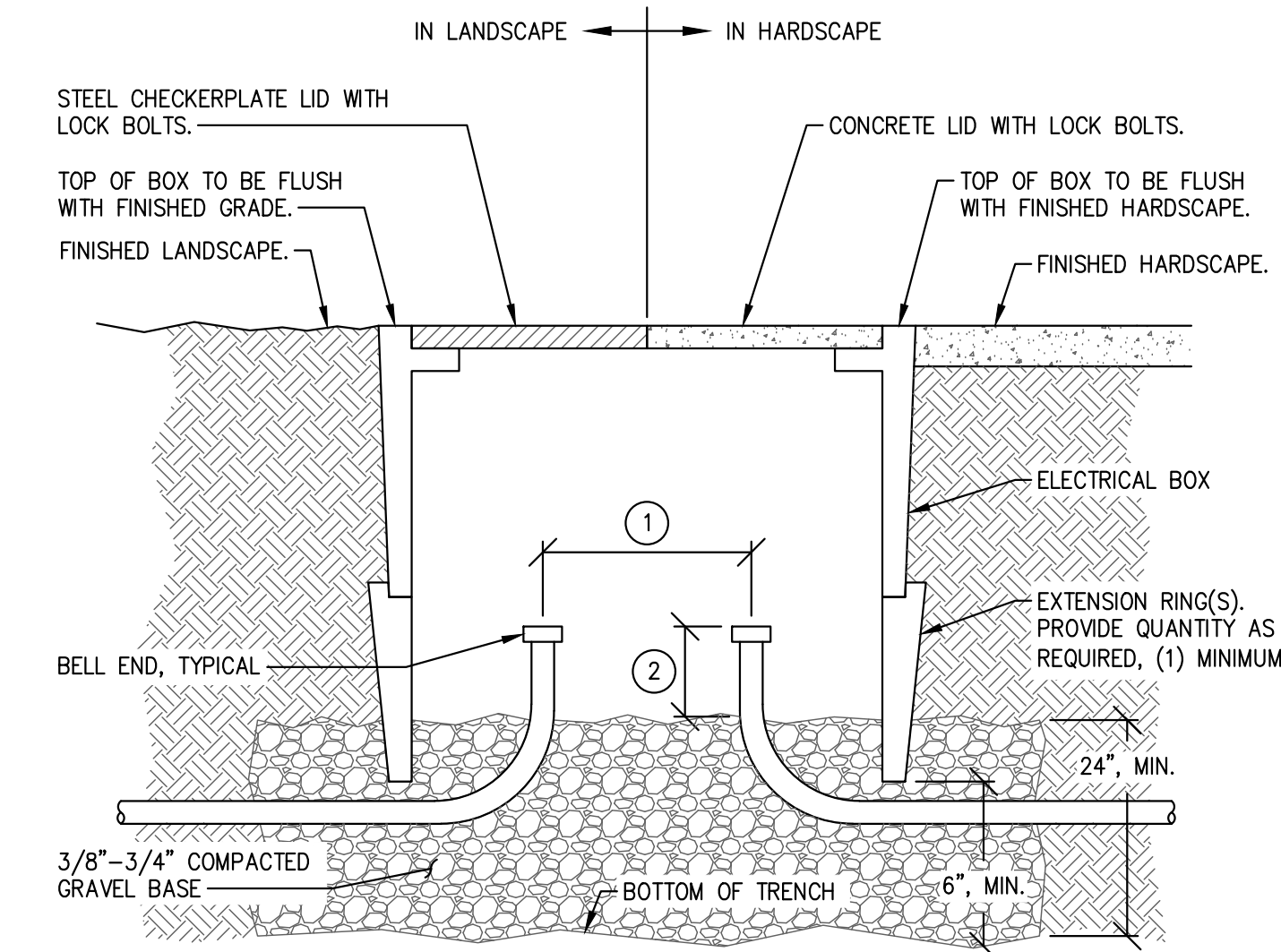
FALL OF POTENTIAL 3-POINT TEST: GROUND RING, I.E. 10 BY 10 RING, 14' DIAGONAL LENGTH ISOLATION FROM UTILITY NEUTRAL PROBE Z IS DRIVEN A DISTANCE OF 10 TIMES DIAGONAL LENGTH OF THE GROUNDING ROD SYSTEM (ROD X). A SECOND PROBE (Y) IS PLACED IN LINE AT A DISTANCE FROM ROD X EQUAL TO THE DIAGONAL LENGTH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



AT THIS POINT, A KNOWN CURRENT IS APPLIED ACROSS 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

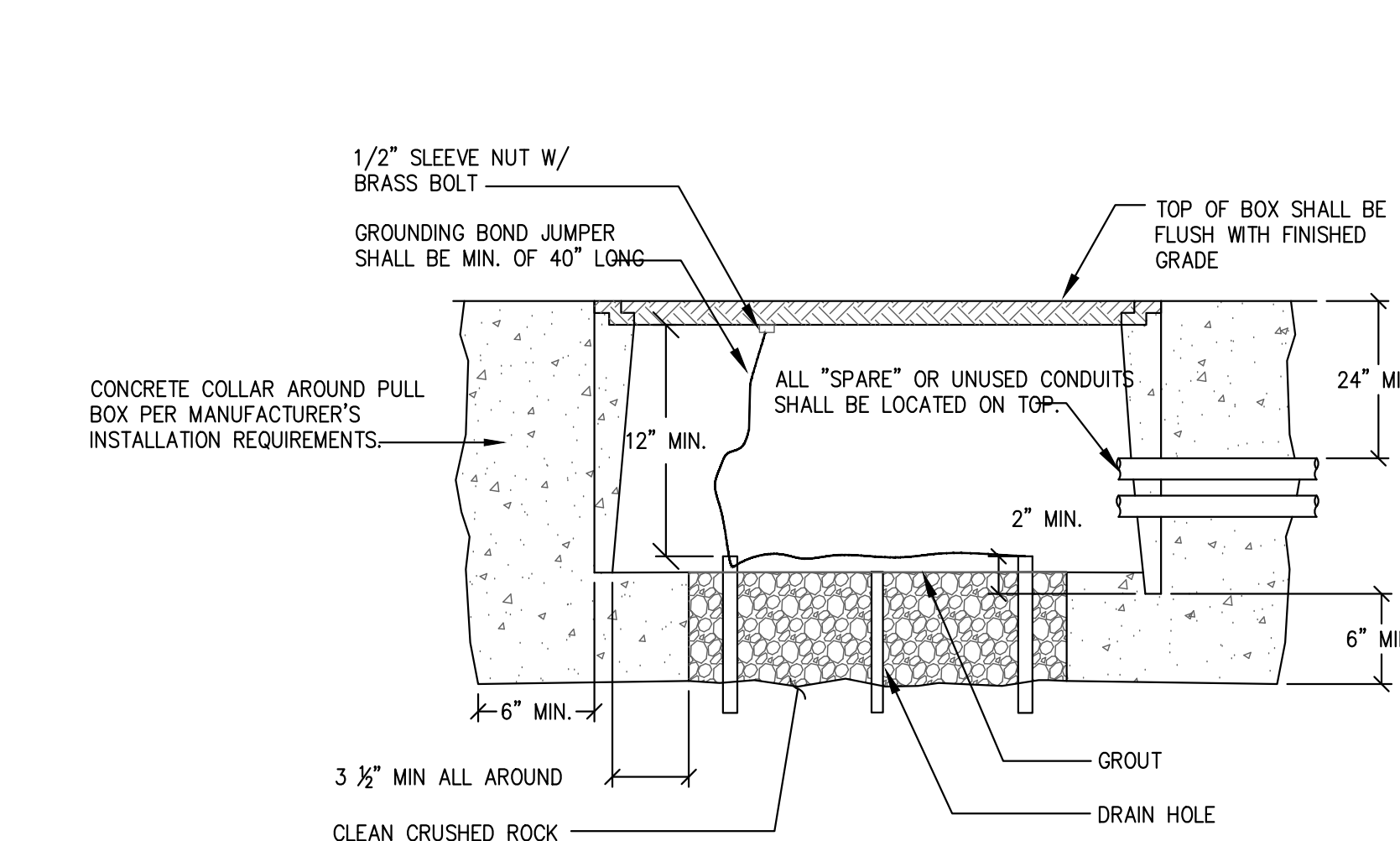
SCALE: NONE



- KEY NOTES:
- WHERE CONDUITS SERVE INCOMING AND OUTGOING CIRCUITS KEEP RISERS SEPARATED INSIDE PULLBOX TO ALLOW FOR SLACK CONDUCTORS.
 - TOPS OF CONDUITS MUST NOT EXTEND INTO PULLBOX MORE THAN 1/3 OF THE TOTAL AVAILABLE INSIDE BOX HEIGHT, IN ORDER TO ALLOW ADEQUATE SPACE FOR CABLE SLACK.

1 NON-TRAFFIC RATED PULL BOX

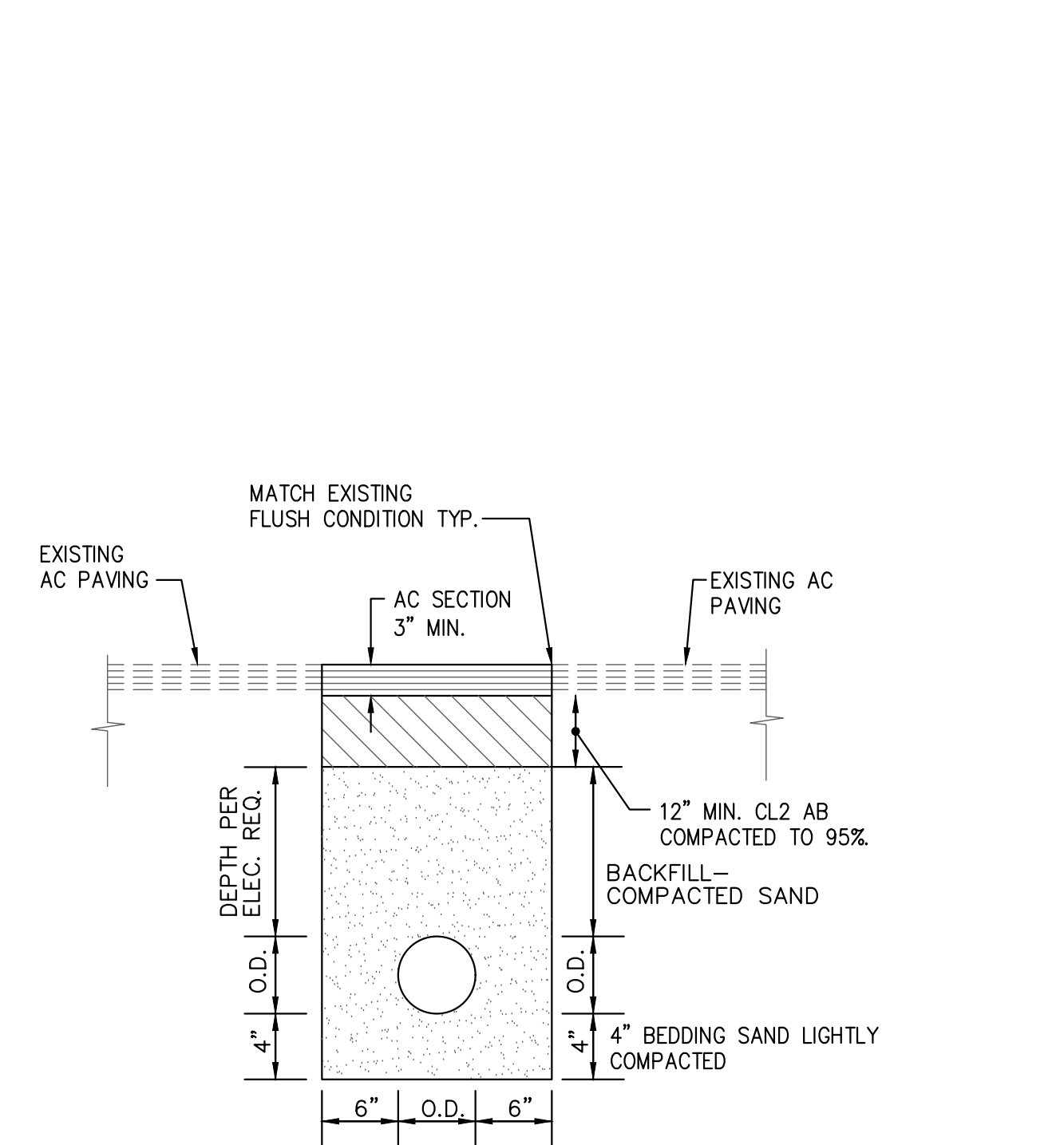
SCALE: NONE



- NOTES:
- HANDHOLES SHALL BE PROVIDED WITH A MINIMUM OF (4) GALVANIZED PULLING PLATES IN BOTTOM OF PULLBOX.
 - PULLBOXES SHALL BE PROVIDED WITH CAST IN PLACE VERTICAL CABLE RACKS. ALL CABLES SHALL BE NEATLY BUNDLED, ORGANIZED AND SUPPORTED BY CABLE RACKS.
 - WHERE ADDITIONAL CONDUIT ENTRIES ARE REQUIRED BEYOND QUANTITY OF TERMINATORS SHOWN, CONTRACTOR SHALL FIELD CORE DRILL AS REQUIRED, WHERE 4" TERMINATORS ARE PROVIDED CONTRACTOR SHALL PROVIDE CONDUIT REDUCERS TO MATCH SITE CONDUIT SIZE REQUIREMENTS.
 - FOR ALTERNATE STYLE PULLBOXES CONTRACTOR SHALL FIELD CORE DRILL ALL CONDUIT ENTRIES 2" DIA AND SMALLER.
 - CONTRACTOR SHALL PROVIDE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR TRAFFIC RATING REQUIREMENTS AS PART OF THE SUBMITTALS.

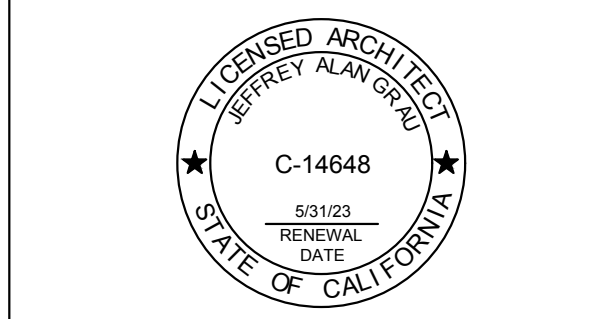
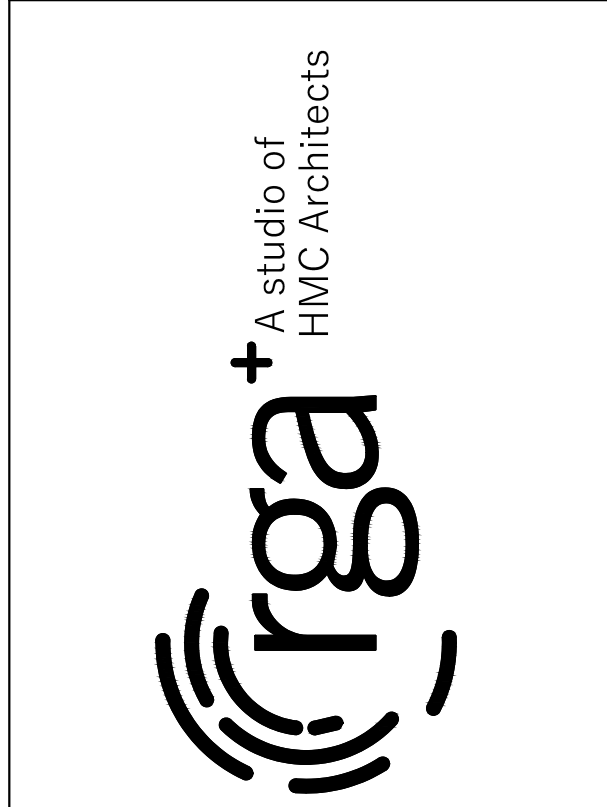
2 TRAFFIC RATED PULL BOX

SCALE: NONE

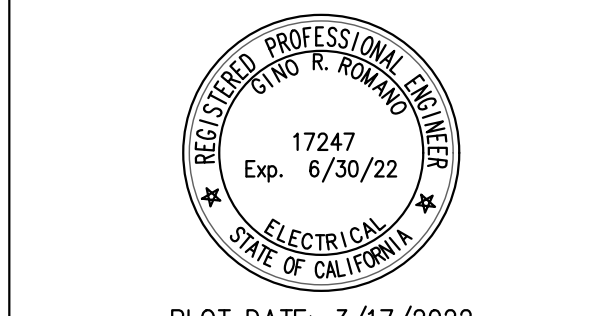


3 TYPICAL TRENCH DETAIL

SCALE: NONE



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DETAILS

PROJECT NO. 1504.08
 DATE: 3/21/2022
 SHEET E3.1

DESIGN CRITERIA	
DESCRIPTION	DESIGN VALUES
DEAD AND LIVE LOADS	
ROOF LIVE LOAD	20 PSF
ROOF DEAD LOAD (SUPERIMPOSED ON FRAME)	5 PSF MAX
ROOF PANEL DEAD LOAD	M=1.1 PSF, G=1.2 PSF, S=1.3 PSF
COLLATERAL DEAD LOAD	M=3.9 PSF, G=3.8 PSF, S=3.7 PSF
ROOF SNOW LOAD	
GROUND SNOW LOAD, P _s	20 PSF
RISK CATEGORY	II
ROOF SNOW LOAD SLOPED, P _s	20 PSF
SITE APPLICATION DSA REVIEWER SHALL VERIFY THE STRUCTURE BE LOCATED AT LEAST 20 FEET FROM ADJACENT STRUCTURE	
SNOW LOAD SLOPE FACTOR, C _s	1.0
SNOW EXPOSURE FACTOR, C _e	1.0
SNOW LOAD IMPORTANCE FACTOR, I _s	1.0
THERMAL FACTOR, C _t	1.2
WIND DESIGN	
BASIC WIND SPEED (3 SECOND GUST), V _{ult}	100 MPH
RISK CATEGORY	II
EXPOSURE CATEGORY	C
FACTORS: K _d , K _e , K _z	0.85, 1.0, 0.85
Z ₀ = 0.00256 K _d K _e K _z V ² FOR ALL EAVE HEIGHTS (8', 10' & 12')	18.50 PSF
C _{mf} PER ASCE FIGURE 27-4-5 ROOF ANGLE 18.43° - CLEAR / OBSTRUCTED	CASE A (1.1 / -1.2) CASE B (0.01 / -0.09)
C _{mf} PER ASCE FIGURE 27-4-5 ROOF ANGLE 18.43° - CLEAR / OBSTRUCTED	CASE A (-0.17 / -1.09) CASE B (-0.96 / -1.65)
C _{mf} PER ASCE FIGURE 27-4-7 PARALLEL TO RIDGE - CLEAR / OBSTRUCTED	CASE A (-0.6 / -0.9) CASE B (-0.5 / -0.5)
COMPONENTS & CLADDING - C _u (PRESSURE/SUCTION) CLEAR / OBSTRUCTED	ZONE 3 - (2.29 / -2.11) / (1.0 / -3.0) ZONE 2 - (1.77 / -1.63) / (0.8 / -2.3) ZONE 1 - (1.15 / -1.05) / (0.5 / -1.5)
SEISMIC DESIGN	
LATERAL FORCE RESISTING SYSTEM	STEEL - ORDINARY CANTILEVER COLUMN
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
SEISMIC IMPORTANCE FACTOR, I _e	1.0
SEISMIC SITE CLASS	D
MCE _{EL} SPECTRAL RESPONSE ACCELERATION @ 0.2 s, S _s	0.6
MCE _{EL} SPECTRAL RESPONSE ACCELERATION @ 0.2 s, S ₁	0.90
SHORT PERIOD SITE COEFFICIENT, F _a	1.20
LONG PERIOD COEFFICIENT, F _v	1.70
FUNDAMENTAL PERIOD OF THE STRUCTURE, T	0.152 s
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, S _{DS}	2.08
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, S _{DS} - USED TO DETERMINE C _s (WITH CAP PER ASCE-7 12.8.1.3)	2.08 * 0.70 = 1.456
DESIGN SPECTRAL RESPONSE ACCELERATION AT 1-4 PERIODS, S _{D1}	1.02
SEISMIC DESIGN CATEGORY	E
RESPONSE MODIFICATION FACTOR, R	1.25
OVERSTRENGTH FACTOR, Q	1.25
REDUNDANCY FACTOR, ρ	1.0
HORIZONTAL OR VERTICAL IRREGULARITIES	NONE
SEISMIC RESPONSE COEFFICIENT, C _s (20' WIDE, 30' WIDE, 40' WIDE)	1.16
DESIGN BASE SHEAR, V (20' WIDE, 30' WIDE, 40' WIDE)	12.73 PSF, 13.41 PSF, 14.65 PSF
ALLOWABLE SOIL BEARING FOR FOUNDATIONS	VARIES - SEE FOUNDATION CHARTS
FLOOD DESIGN - DESIGN IS ASSUMED TO NOT BE IN FLOOD HAZARD AREA	
IF PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED & SIGNED FROM A SOILS ENGINEER IS REQUIRED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED.	

GENERAL:

- 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.
- 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.
- 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.
- 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.
- 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 VISIT 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.
- ASTM DESIGNATIONS AND ALL STANDARDS REFER TO THE LATEST AMENDMENTS.
- 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.
- 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.
- 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.
- THE SCHOOL DISTRICT INSPECTOR ON RECORD SHALL INSPECT AND APPROVE THE ERCTED FRAME PRIOR TO ROOF INSTALLATION.
- 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 REQUIREMENTS.
- 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.
- VEWS AND DETAILS ARE NOT DRAWN TO SCALE (UNLESS NOTED OTHERWISE). DO NOT SCALE THESE DRAWINGS.

STRUCTURAL AND MISCELLANEOUS STEEL:

- ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERCTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION MANUAL REFERENCED BY THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE.
- PIPE SECTIONS SHALL CONFORM TO ASTM A53, F_y = 35 KSI, GRADE B OR A501 UNLESS NOTED OTHERWISE.
- STRUCTURAL TUBING (HSS SHAPES) SHALL CONFORM TO ASTM A-500, GRADE B (OR C), F_y = 46 KSI (MIN).
- IF MATERIAL AVAILABILITY IS LIMITED, MEMBER THICKNESS CAN BE INCREASED ABOVE WHAT IS SHOWN IN THESE DRAWINGS (MAXIMUM INCREASE OF 1/8").
- ALL CHANNELS, ANGLES, AND MISC. STEEL SHALL CONFORM TO ASTM A-36, F_y = 36 KSI.
- ALL PLATE STEEL SHALL CONFORM TO ASTM A-572, F_y = 50 KSI.
- ALL COLD FORM STEEL SHALL CONFORM TO ASTM A-653, C_s = TYPE B, F_y = 50 KSI.
- STRUCTURAL STEEL AND DECK SHALL BE IDENTIFIED FOR CONFORMITY PER CBC 2202A.1.
- ALL ROOF DECK SHALL HAVE KYNAR 500 METAL COATING.
- ALL ROOF DECK SHALL CONFORM TO ASTM A-36, F_y = 50 KSI.

WELDING:

- 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 AS REQUIRED BY DSA.
- 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 @ (0° F).
- ALL WELDING SHALL BE DONE IN THE SHOP WITH REQUIRED INSPECTION, PRE-APPROVED BY DSA, TO ENSURE WELDER MATERIAL ID AND WELDING.
- WELD FILLER METAL MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION OF COMPLIANCE WITH CODE AND SPECIFICATIONS.

BOLTING:

- ALL BOLTS SHOWN ON THESE DRAWINGS ARE ASTM F3125 GRADE A325 HIGH STRENGTH BOLTS (UNO), WITH THE NUTS CONFORMING TO ASTM A-563.
- HIGH STRENGTH BOLTS SHALL BE VERIFIED AND INSPECTED PER CBC 1705A2.1.
- BEFORE ERCTING 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.
- HARDENED STEEL WASHERS SHALL CONFORM TO ASTM F-436.
- 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 ERCTING 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.

APRENTENSIONED JOINTS MUST BE INSTALLED AND INSPECTED TO MEET ONE OF THE FOLLOWING REQUIREMENTS:

- TURN-OF-NUT PRETENSIONING
- CALIBRATED WRENCH PRETENSIONING
- DIRECT-TENSION-INDICATOR PRETENSIONING (CONTRACTOR RESPONSIBLE FOR PURCHASE OF REQUIRED WASHERS)

FOUNDATIONS:

- ALLOWABLE SOIL PRESSURES ASSUME CLASS 5 SOIL CLASSIFICATION PER CBC TABLE 1806A, UNLESS NOTED OTHERWISE.
- PER CBC SECTION 1803A.2, GEOTECHNICAL REPORTS ARE NOT REQUIRED FOR ONE-STORY LIGHT-STEEL FRAME BUILDINGS OF TYPE II CONSTRUCTION AND 4,000 SQUARE FOOT OR LESS IN FLOOR AREA AND NOT LOCATED WITHIN EARTHQUAKE FAULT ZONATOR SEISMIC HAZARD ZONES AS SHOWN ON THE MOST RECENT MAPS PUBLISHED BY THE CGS. ALLOWABLE FOUNDATION AND LATERAL SOIL PRESSURE VALUES MAY BE DETERMINED FROM TABLE 1806A.2.
- FILL AND BACKFILL SHALL BE COMPACTED TO 95% OF MAX. DENSITY IN ACCORDANCE WITH ASTM TEST METHOD D-1557 OR AS RECOMMENDED BY THE GEO-TECH ENGINEER. FLOODING NOT PERMITTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, ETC. NECESSARY TO SUPPORT CUT AND/OR FILL BANKS DURING EXCAVATION, AND FORMING AND PLACEMENT OF CONCRETE.
- MINIMUM SETBACK FROM TOE OF SLOPE ON AN ASCENDING SLOPE SHALL BE 15 FEET AND MINIMUM SETBACK FROM TOE OF SLOPE ON A DESCENDING SLOPE SHALL BE 40 FEET.
- PER CBC SECTION 1803A.6, GEHAZARD REPORTS ARE NOT REQUIRED FOR ONE-STORY LIGHT-STEEL FRAME BUILDINGS OF TYPE II CONSTRUCTION AND 4,000 SQUARE FOOT OR LESS IN FLOOR AREA AND NOT LOCATED WITHIN EARTHQUAKE FAULT ZONATOR SEISMIC HAZARD ZONES AS SHOWN ON THE MOST RECENT MAPS PUBLISHED BY THE CGS.
- GEHAZARD REPORTS ARE TO COMPLY WITH DSA IR A-4 PER IR-7 SECTION 1.8
- SITE SPECIFIC GEOTECHNICAL REPORT IS REQUIRED AT THE TIME OF SITE APPLICATION IS USING OTHER THAN CLASS 5 SOIL, PER DSA IR PC-7
- LATERAL BEARING HAS BEEN INCREASED PER CBC 1806A.3.4 & HAS BEEN DESIGNED FOR P-DELTA EFFECTS

CONCRETE:

- MIX DESIGN REQUIREMENTS: (NORMAL WEIGHT CONCRETE)

STRENGTH F _c (28 DAYS)	W/C RATIO (NON-AIR ENTRAINED)	W/C RATIO (AIR ENTRAINED)	SUMP (in')	UNIT WEIGHT (NORMAL WEIGHT)
4500 PSI	0.44	0.35	3'	150 PCF
- CONCRETE MIX DESIGN PARAMETERS ARE GOOD FOR EXPOSURE CATEGORIES F0, F1 & F2. THE AIR ENTRAINMENT FOR THESE CATEGORIES SHALL BE AS FOLLOWS: F0-0, F1-4.5, F2-6
- AGGREGATES SHALL CONFORM TO THE ASTM C-33 WITH PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN 0.05% MAX AGGREGATE SIZE = 1".
- CEMENT SHALL CONFORM TO ASTM C-150 (TYPE V) UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- 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.
- CONCRETE SHALL NOT FREE FALL MORE THAN FIVE FEET.
- CONCRETE DURABILITY SHALL BE PER CBC 190A.1 & ACI 318-14 CHAPTER 19.
- CONCRETE SHALL BE TESTED PER CBC 1903A, TABLE 1705A.3. AND ACI 318-14 SECTION 26.12.

STEP 10: IDENTIFY PROJECT NAME AND SCHOOL DISTRICT

PROJECT NAME:	SCHOOL DISTRICT:

STEP 1	FRAME DIMENSIONS	
	SUGGESTED	OTHER
FRAME WIDTH	[] 20' [X] 30' [] 40'	[] (40' MAX)
FRAME LENGTH	[] 44' [X] 64' [] 84' [] 104'	[] (NO MAX)

STEP 2	ROOF PANEL	
	ROOF PANEL TYPE	DESIGN OPTIONS
	[X] M [] G [] S	

STEP 3	PROJECT SITE - S _s ACCELERATION (g)	
	S _s REGION	MAX DEAD LOAD
	0 < S _s <= 2.14	5 PSF
	2.14 < S _s <= 2.50	5 PSF
	2.50 < S _s <= 2.75	5 PSF
	2.75 < S _s <= 3.00	4 PSF
	S _s > 3.73 MAX	3 PSF

STEP 4	S _s REGION	
	DESCRIPTION	MAX DEAD LOAD
	X	0 < S _s <= 2.14
		2.14 < S _s <= 2.50
		2.50 < S _s <= 2.75
		2.75 < S _s <= 3.00
		S _s > 3.73 MAX

STEP 5	TOTAL ROOF DEAD LOAD	
	DEAD LOAD	EXAMPLES
ROOF DECK	1.1 PSF	M=1.1PSF, G=1.2PSF, S=1.3PSF (SEE STEP 2)
COLLATERAL	0 PSF	LIGHTING, ETC
TOTAL	1.1 PSF	ADD ROOF DECK AND COLLATERAL LOADS (MAX 5 PSF)

NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEERING RESPONSIBILITY

- PER TITLE 24, PART 1, SECTION 4-316(e) OF THE CALIFORNIA CODE OF REGULATIONS, THIS NOTICE SHALL BE GIVEN TO DSA PRIOR TO THE APPROVAL OF PLANS AND SPECIFICATIONS.
- FOR THE SITE SPECIFIC PROJECT, J. R. MILLER & ASSOCIATES IS NOT THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE.
- FOR THE SITE SPECIFIC PROJECT, J. R. MILLER & ASSOCIATES' RESPONSIBILITY IS LIMITED TO THE PREPARATION OF THE PLANS AND SPECIFICATIONS FOR THE SHELTERS OF THIS PC ONLY.
- STRUCTURAL OBSERVATION OF CONSTRUCTION IS SPECIFICALLY EXCLUDED FROM J.R. MILLER & ASSOCIATES' RESPONSIBILITY FOR THE SITE SPECIFIC PROJECT.
- ALL CONSTRUCTION ACTIVITIES RELATED TO STRUCTURAL ENGINEERING SHALL 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 OBSERVATION OF CONSTRUCTION, REVIEW OF INSPECTION REPORTS, AND SIGNING OFF OF THE VERIFIED REPORT FOR COMPLETED WORK.
- J.R. MILLER & ASSOCIATES WILL BE RESPONSIBLE FOR RESPONDING TO QUESTIONS PERTAINING TO THE PLANS AND SPECIFICATIONS FOR THE SHELTERS OF THIS PC WHICH ARISE DURING PLAN REVIEW AND CONSTRUCTION.

CONSTRUCTION NOTES

- A DSA-CERTIFIED CLASS 3 PROJECT INSPECTOR IS REQUIRED FOR THIS PROJECT.
- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
- A "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.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS ARE THAT ALL THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR, SHOULD ANY EXISTING CONDITIONS SUCH AS TERRORISM OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE 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)
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES

REINFORCING STEEL:

- REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A-615, AS FOLLOWS:
GR 60: (#4 BARS AND LARGER)
GR 40: (#3 BARS)
- DETAILING, FABRICATION, AND ERECTION OF REINFORCING BARS SHALL CONFORM TO THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES."
- MIN. COVER FOR CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:
A. CAST AGAINST EARTH3"
B. CAST AGAINST FORM BELOW GRADE2"
C. FORMED SLABS (#1 BAR & SMALLER).....3/4"
D. SLABS ON GRADE (FROM TOP OF SLAB).....1"
- BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND. BENDS SHALL BE MADE COLD.
- REINFORCING SHALL BE LAP SPICED PER ACI 318-14 SECTION 25.5.
- PRIOR TO PLACING OF CONCRETE, REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE WELL SECURED IN POSITION.
- WELDING OF REINFORCING IS NOT ALLOWED.
- REINFORCING STEEL SHALL BE INSPECTED PER CBC 1705A.3.

POWDER-COAT FINISH SYSTEM:

- ALL BUILDINGS THAT HAVE A POWDER-COATED FINISH SHALL MEET THE FOLLOWING SPECIFICATIONS:
- THE STEEL FRAME SHALL BE SHOT-BLASTED TO A NEAR WHITE CONDITION PER SSPC-10 SPECIFICATIONS.
 - THE STEEL SHALL BE WASHED IN A ZINC PHOSPHATE IN AN ANTIMINE EIGHT STAGE ELECTRO DEPOSITION PRE-TREATMENT PROCESS.
 - IMMEDIATELY FOLLOWING PRE-TREATMENT THE STEEL SHALL BE TOTALLY IMMERSED IN A LIQUID EPOXY PRIMER-E-COAT AND COATED TO A UNIFORM THICKNESS OF A MINIMUM OF 0.7 TO 0.9 MILS. THE E-COATING SHALL PROVIDE A MINIMUM OF 1000 HOURS OF SALT SPRAY CORROSION PROTECTION TO THE STEEL.
 - THE STEEL SHALL THEN HAVE A TIGC POLYESTER COLOR COAT APPLIED OVER THE E-COATING SURFACE.
 - THE COLOR COAT SHALL THEN HAVE A CLEAR TIGC COATING APPLIED TO SEAL IN THE COLOR COAT AND RESIST ULTRAVIOLET LIGHT, TO HELP PREVENT FADING.
 - THE FINISH THICKNESS OF THESE THREE APPLICATIONS SHALL BE A MINIMUM OF 8 TO 12 MILS.
 - ALL CARBON STEEL MEMBERS (COLUMNS, BEAMS, PLATES, ETC.) NOT POWDER-COATED SHALL BE PAINTED WITH PRIME COAT PER THE "AISC CODE OF STANDARD PRACTICE" AND THE "AISC SPECIFICATION SECTION M3(UNLESS NOTED OTHERWISE).

ABBREVIATIONS:	MPH	MILES PER HOUR
ACI	AMERICAN CONCRETE INSTITUTE	
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	MULTI-RIB ROOF PANEL (MCELROY)
ASM	ASSEMBLY (INTERNAL REFERENCE)	NOT TO SCALE
ASTM	AMERICAN SOCIETY FOR TESTING AND MAT'LS	NUMBER
AWS	AMERICAN WELDING SOCIETY	ON CENTER
CBC	CALIFORNIA BUILDING CODE	OSHA OCCUPATIONAL HEALTH AND SAFETY ADMIN
CJP	COMPLETE JOINT PENETRATION	PCF POUNDS PER CUBIC FOOT
CLR	CLEAR	PJ PRETENSIONED JOINT
DEG	DEGREE	PLCS PLACES
DIA	DIAMETER	PLT PLATE
DM	DIMENSION	PSF POUNDS PER SQUARE FOOT
DSA	DIVISON 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

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APP:04-120013 PC
REVIEWED FOR
SS [X] FLS [X] ACS [X] CG [X]
DATE: 08/06/2021

STRUCTURAL SEPARATION		DEFLECTIONS ARE FOR (1) STRUCTURE		
ALL DEFLECTIONS SHOWN ALSO INCLUDE THE P-DELTA ROTATION PER IR PC-7		SOIL CLASS PER TABLE 1806A.2		
MAXIMUM DRIFT	SIDE COLUMNS	Soil Class 5	Soil Class 4	Soil Class 3
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.40	2.55	2.65
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.25	2.35	2.45
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.20	2.25	2.30
MINIMUM SEPARATION (S _u = C _s S _u)	C _s = 1.25			
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	3.00	3.19	3.31
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.81	2.94	3.06
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.75	2.81	2.75
MAXIMUM DRIFT	CORNER COLUMNS	Soil Class 5	Soil Class 4	Soil Class 3
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.20	2.30	2.40
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.30	2.45	2.50
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.40	2.55	2.65
MINIMUM SEPARATION (S _u = C _s S _u)	C _s = 1.25			
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.75	2.88	3.00
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.88	3.06	3.13
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	3.00	3.19	3.31
MAXIMUM DRIFT	END COLUMNS	Soil Class 5	Soil Class 4	Soil Class 3
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	1.80	1.70	1.75
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.00	2.45	2.25
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.00	2.30	2.80
MINIMUM SEPARATION (S _u = C _s S _u)	C _s = 1.25			
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.00	2.13	2.19
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.50	3.06	2.81
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	3.13	2.88	3.50

ARCHITECTURAL REQUIREMENTS:		
DESCRIPTION	DESIGN VAULES	
TYPE OF CONSTRUCTION	II-B	
OCCUPANCY CLASSIFICATION	A-3	
NUMBER OF STORES	1	
FIRE SPRINKLER SYSTEM	NOT BY CON/WEIGHT NOT INCLUDED IN DESIGN	

RELATED BUILDING CODES AND STANDARDS

- TITLE 24 CODES:
- 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC).....(PART 1, TITLE 24, CCR)
 - 2019 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1, AND 2.(PART 2, TITLE 24, CCR)
 - 2019 CALIFORNIA ELECTRICAL CODE.....(PART 3, TITLE 24, CCR)
 - 2019 CALIFORNIA MECHANICAL CODE (CMC).....(PART 4, TITLE 24, CCR)
 - 2019 CALIFORNIA PLUMBING CODE (CPC).....(PART 5, TITLE 24, CCR)
 - 2019 CALIFORNIA ENERGY CODE.....(PART 6, TITLE 24,

2019 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.

**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
CE - Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

Table with 4 columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Includes items like 7. CAST-IN-PLACE CONCRETE, 8. SOIL COMPACTION AND FILL, 9. SOIL IMPROVEMENTS, 10. CONCRETE RETAINING WALLS, 11. OTHER SOIL.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

Table with 4 columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Includes items like 23. ANCHOR BOLTS AND ANCHOR RODS.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

Geotechnical Reports: Project has a geotechnical report, or CDs indicate soils special inspection is required by CE

Table with 4 columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Includes item 1. GENERAL.

Table with 4 columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Includes item 2. SOIL COMPACTION AND FILL.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

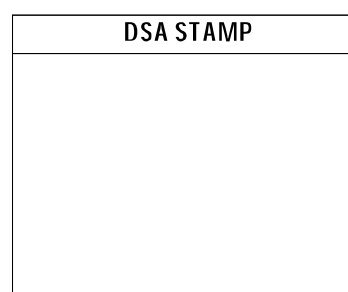
Table with 4 columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Includes item 17. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSE.

Table with 4 columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Includes item 18. HIGH-STRENGTH BOLTS: RCSC 2.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SIGNATURE), 2019 CBC

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 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

Table with 4 columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Includes item c. Compaction testing.

Table with 4 columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Includes item 4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS).

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

Table with 4 columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Includes items like b. Test high-strength bolts, nuts and washers, c. Beaming-type ('snug tight') connections, d. Pretensioned and slip-critical connections.

Table with 4 columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Includes item 19. WELDI.

Table with 4 columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Includes items like a. Verify weld filler material identification markings, b. Verify weld filler material manufacturer's certificate of compliance, c. Verify WPS, welder qualifications and equipment.

DSA 103-19: LIST OF REQUIRED VERIFIED REPORTS, CBC 2019

- 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

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

Table with 4 columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Includes items like 5. RETAINING WALLS, b. Placement of soil reinforcement and/or drainage devices, c. Segmental retaining walls, inspect placement of units, dowels, connectors, etc.

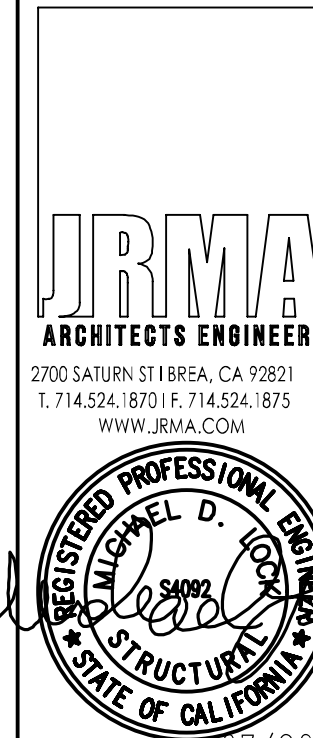
Table with 4 columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Includes items like 6. OTHER SOIL, a. Soil Improvements, b. Inspection of Soil Improvements, c.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

Table with 4 columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Includes item 19.1 SHOP WELDING.

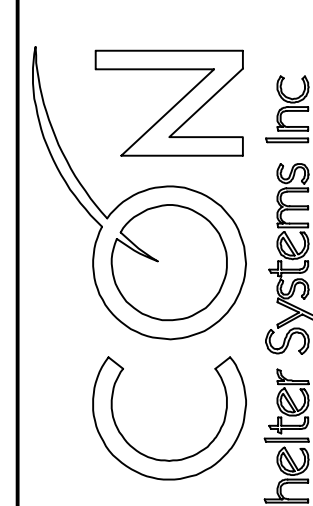
Table with 4 columns: Test or Special Inspection, Type, Performed By, Code References and Notes. Includes item 23. ANCHOR BOLTS AND ANCHOR RODS.

Table with 2 columns: Field, Value. Includes rows for ICON STD, DRAWN BY, DATE, REV, REV DATE.



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DIV. OF THE STATE ARCHITECT
APP: 04-120013 PC
REVIEWED FOR
SS [] FLS [] ACS [] CG []
DATE: 08/06/2021

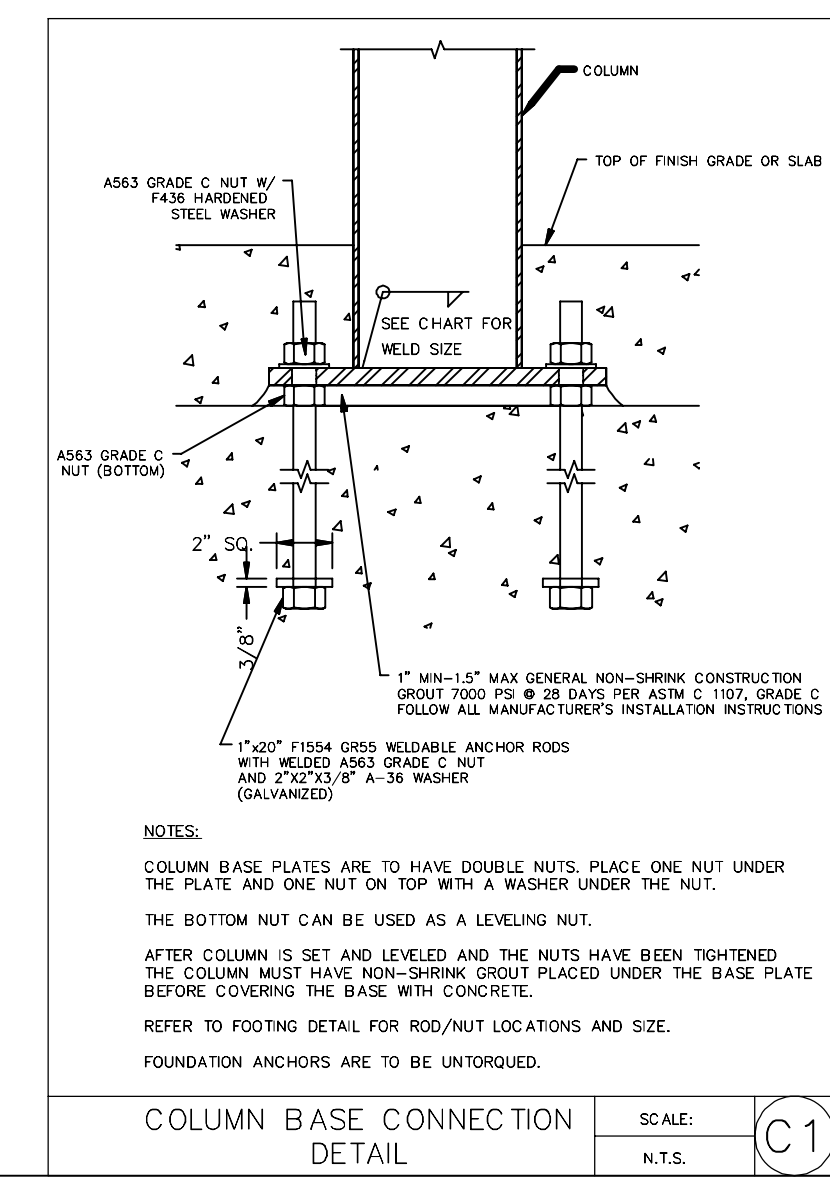
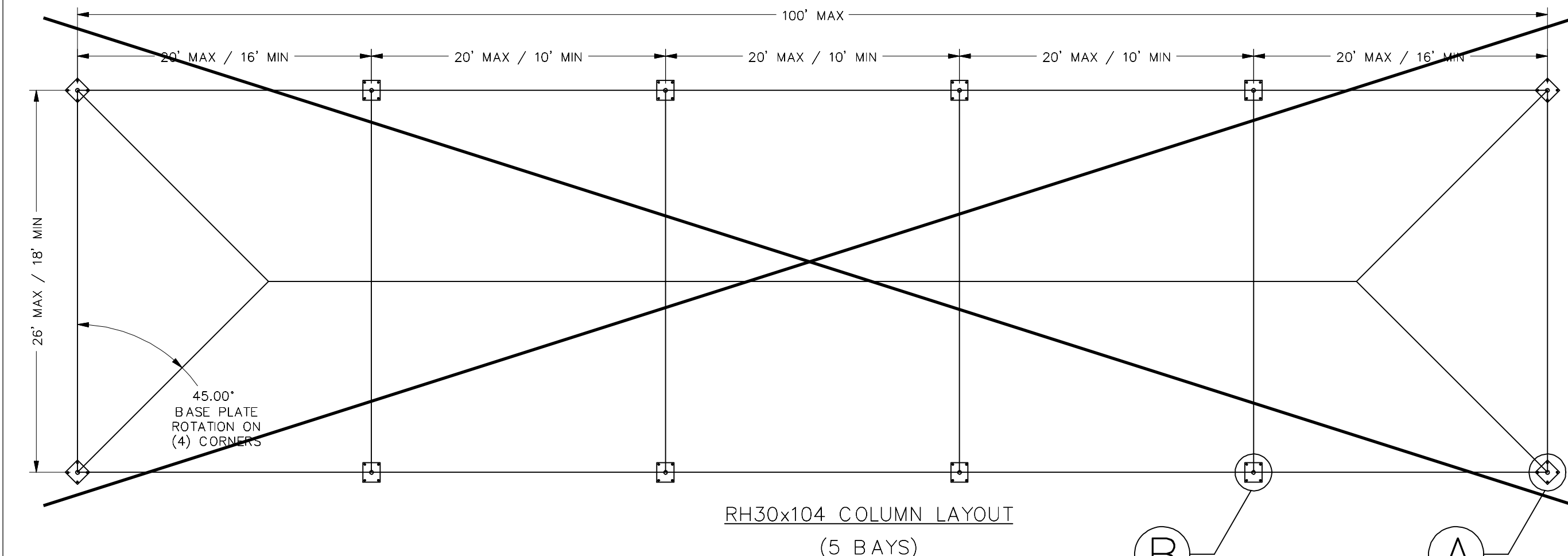
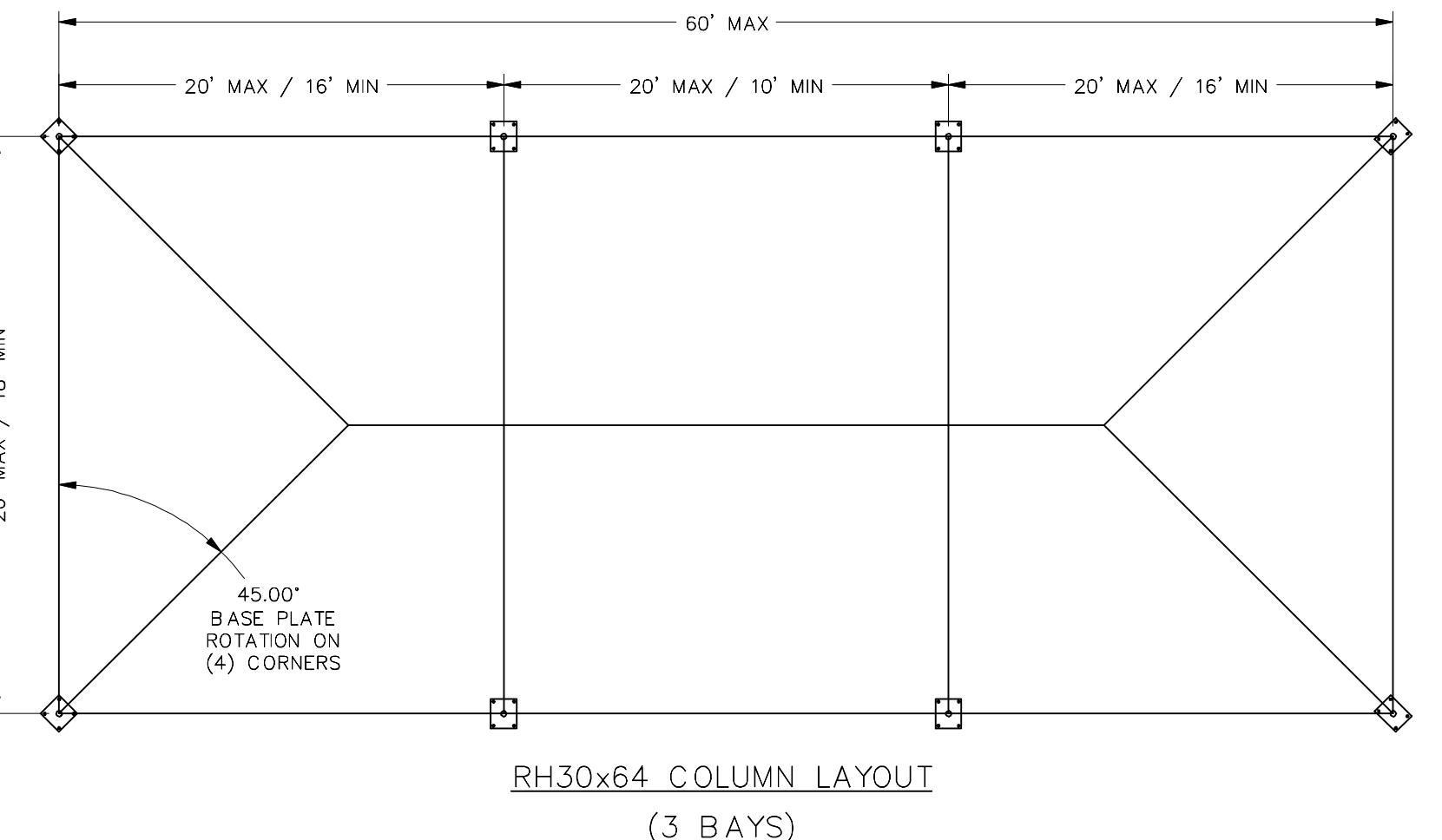
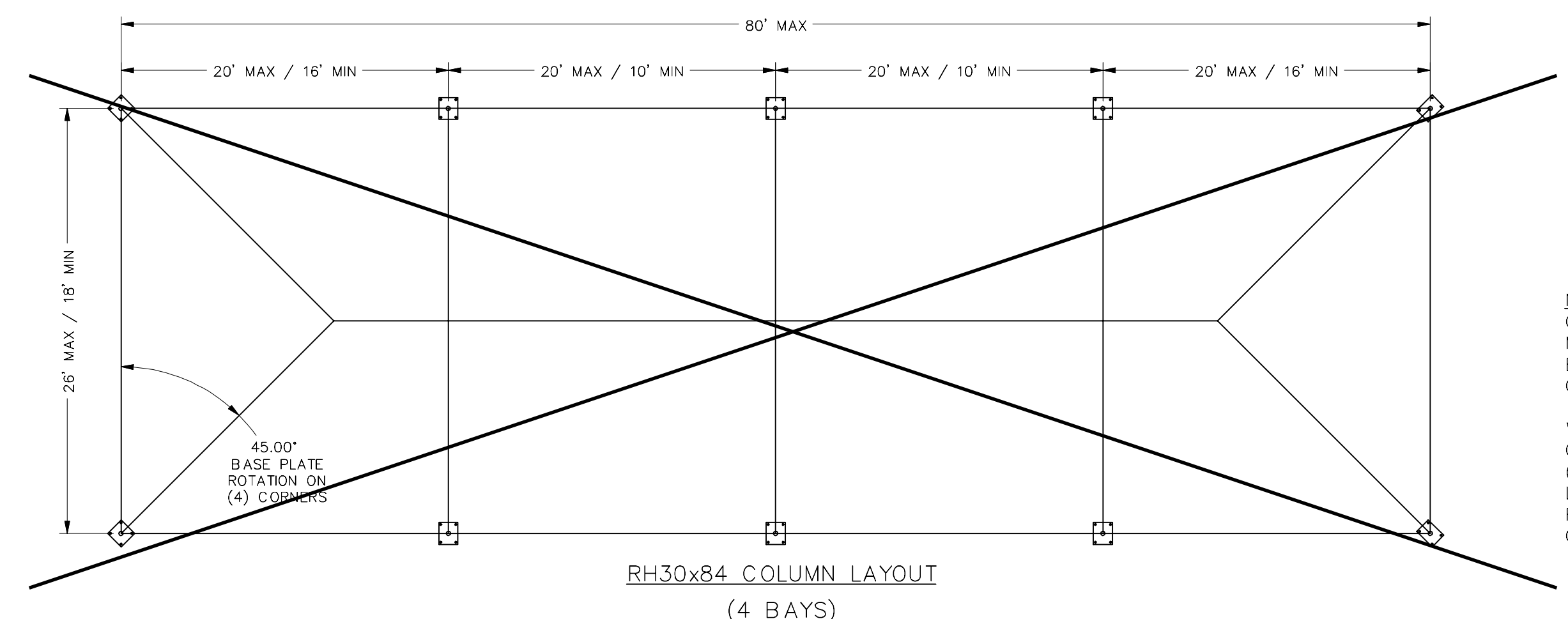
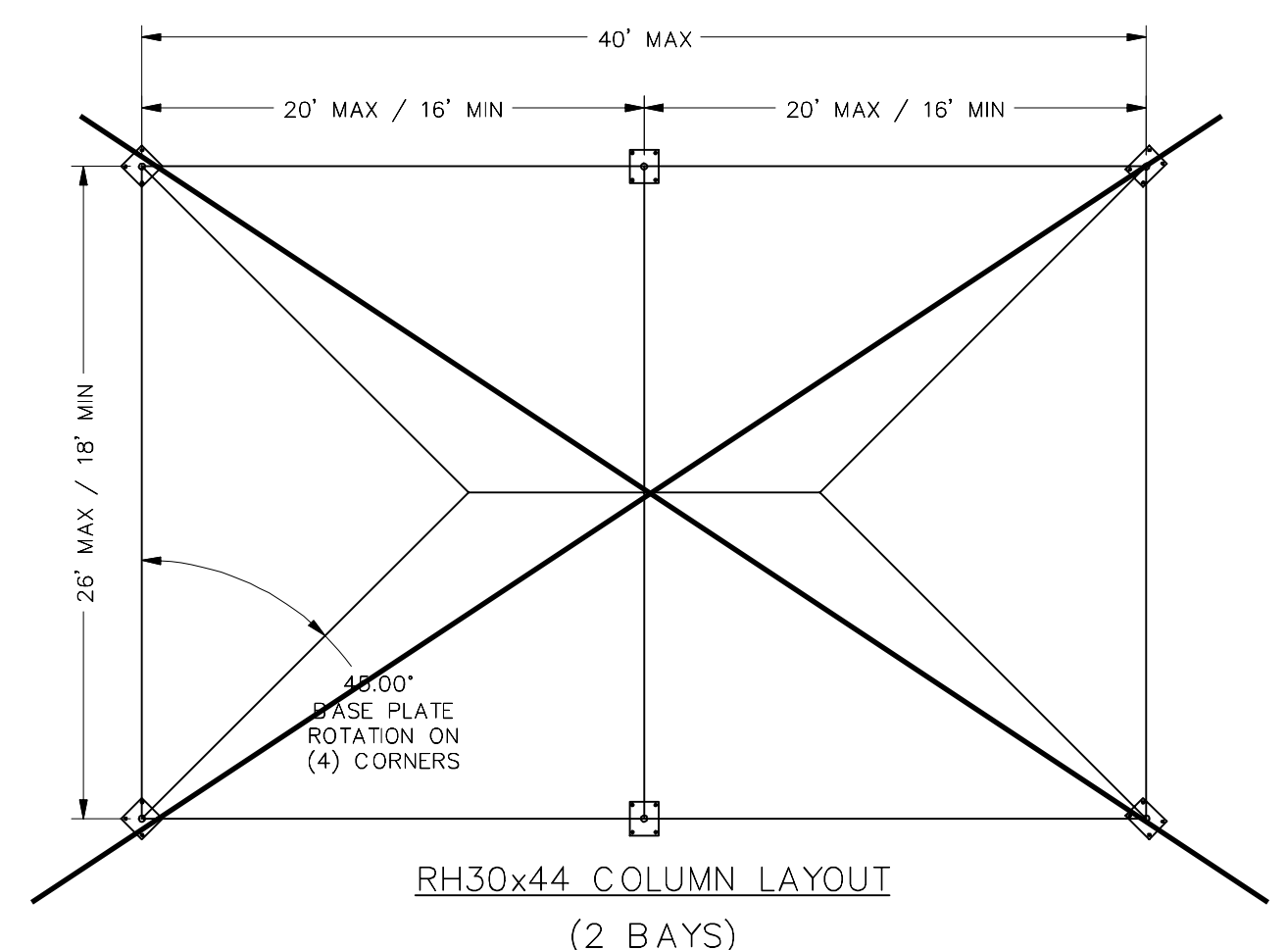
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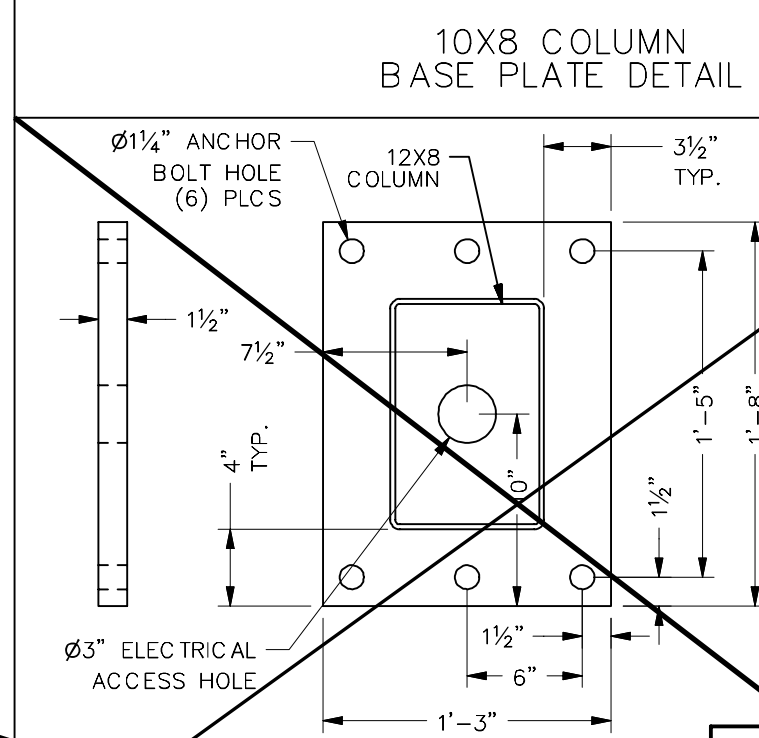
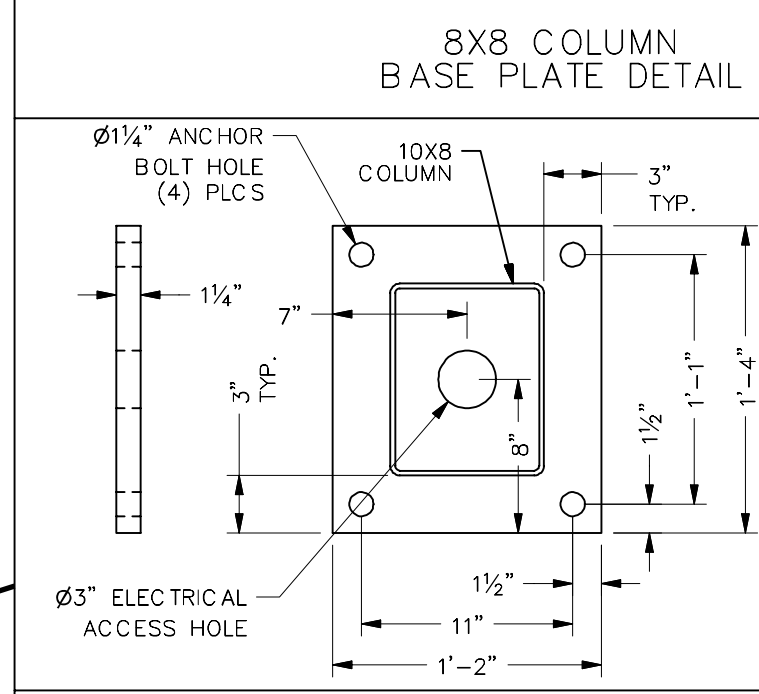
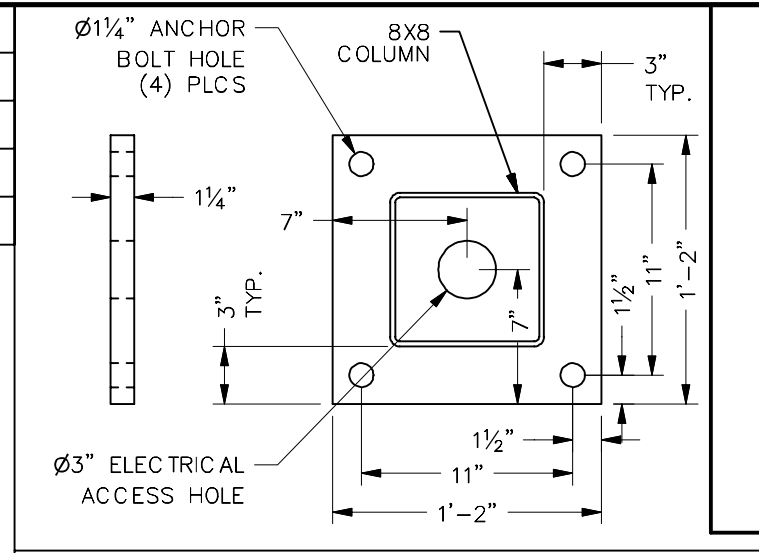
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616.396.0919
800.748.0985
616.396.0944 FX

LS1.1

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.



BASE PLATE LOCATION	
DETAIL A	DETAIL B
8'	BP1
10'	BP1
12'	BP2



NOTES:
 COLUMN SIZE AND LOCATION WILL VARY DEPENDING ON MODEL TYPE ORDERED, PLEASE REFER TO JOB SPECIFIC BILL OF MATERIALS AND INSTALLATION MANUAL FOR CORRECT PLACEMENT AND SIZE.
 WHERE CONCRETE SLAB SPECIFIED PORTLAND CEMENT CONCRETE PAVING SHALL HAVE A MEDIUM SALTED (MEDIUM BROOM) FINISH ON ALL SURFACES SLOPED LESS THAN 6% AND SLIP RESISTANT (HEAVY BROOM FINISH) ON ALL SURFACES SLOPED GREATER THAN 6% CBC SECTION 1133B.7.1

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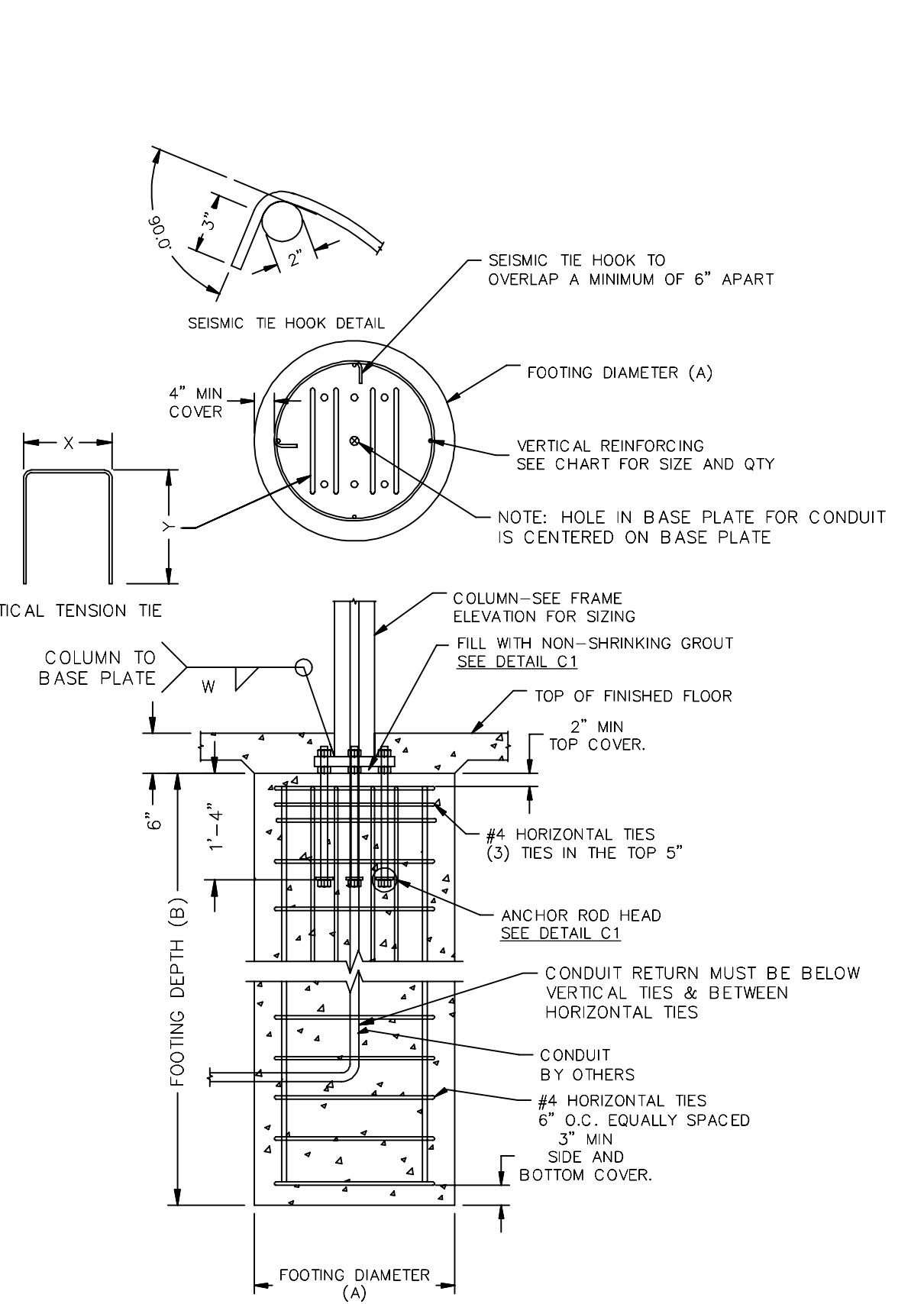
JRMA ARCHITECTS ENGINEERS
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 STATE OF CALIFORNIA
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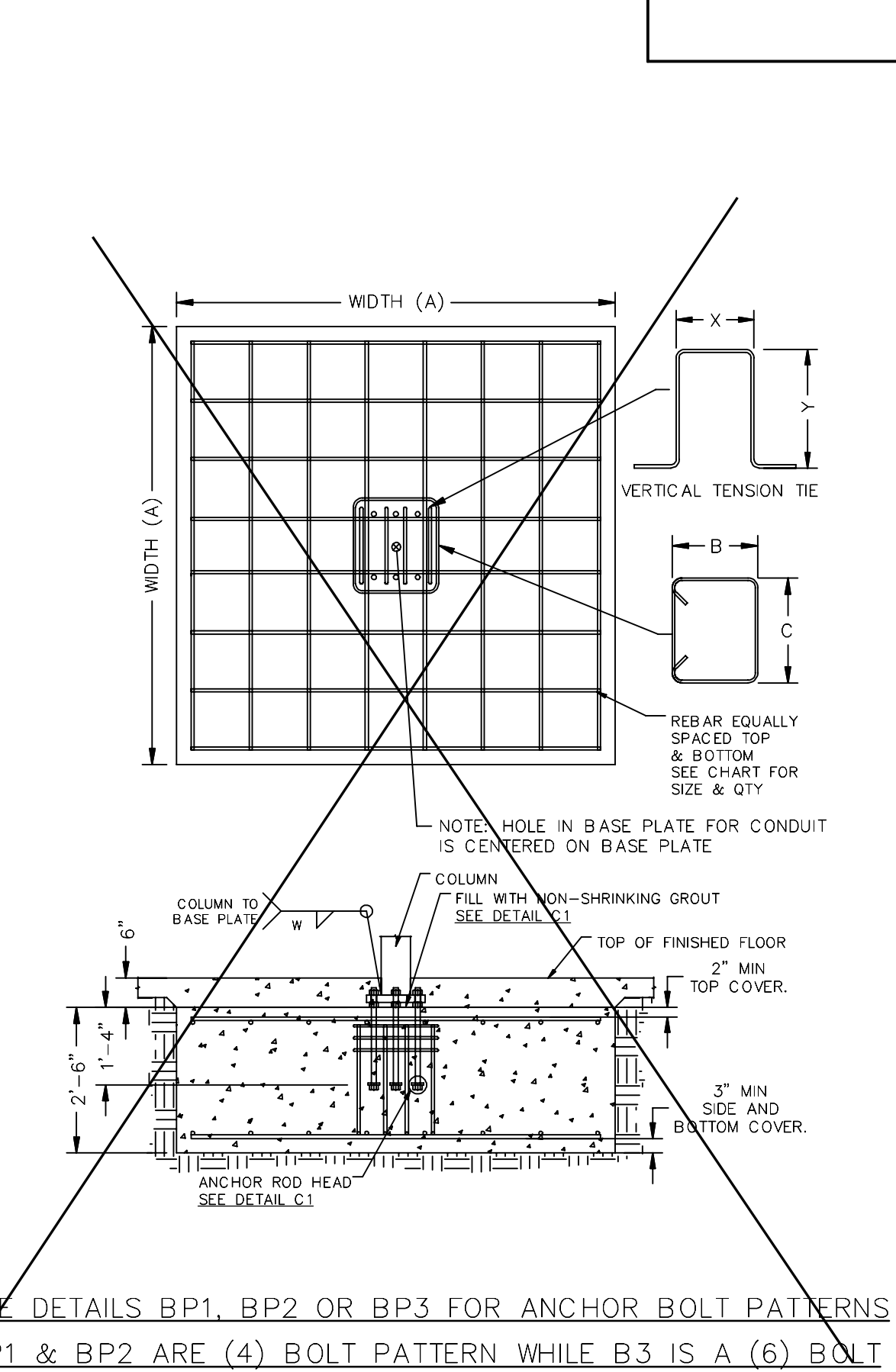
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 APP-04-120013 PC
 REVIEWED FOR
 SS FLS ACS CG
 DATE: 08/06/2021

30' WIDE RECTANGULAR HIP

RH30 - PIER									
8' height - Corner Columns		8' height - Corner Columns		8' height - Corner Columns		8' height - Corner Columns		8' height - Corner Columns	
Soil Class	Bearing	Soil Class	Bearing	Soil Class	Bearing	Soil Class	Bearing	Soil Class	Bearing
Class 5	1500 psf	Class 4	2000 psf	Class 3	3000 psf	Class 4	2000 psf	Class 3	3000 psf
Dia (A)	Depth (B)	Dia (A)	Depth (B)	Dia (A)	Depth (B)	Dia (A)	Depth (B)	Dia (A)	Depth (B)
24	114	24	98	24	92	24	92	24	102
Rebar Qty	Rebar Size	Rebar Qty	Rebar Size	Rebar Qty	Rebar Size	Rebar Qty	Rebar Size	Rebar Qty	Rebar Size
6	6	6	6	6	6	6	6	6	6



RH30 - SPREAD									
8' height - Corner Columns		8' height - Corner Columns		8' height - Corner Columns		8' height - Corner Columns		8' height - Corner Columns	
Soil Class	Bearing	Soil Class	Bearing	Soil Class	Bearing	Soil Class	Bearing	Soil Class	Bearing
Class 5	1500 psf	Class 4	2000 psf	Class 3	3000 psf	Class 4	2000 psf	Class 3	3000 psf
Size (A)	Depth (B)	Size (A)	Depth (B)	Size (A)	Depth (B)	Size (A)	Depth (B)	Size (A)	Depth (B)
60	30	56	30	54	30	68	30	66	30
T&B Qty	Rebar Size	T&B Qty	Rebar Size	T&B Qty	Rebar Size	T&B Qty	Rebar Size	T&B Qty	Rebar Size
4	6	4	6	4	6	5	6	5	6



SEE DETAILS BP1, BP2 OR BP3 FOR ANCHOR BOLT PATTERNS
 BP1 & BP2 ARE (4) BOLT PATTERN WHILE B3 IS A (6) BOLT

SEE DETAILS BP1, BP2 OR BP3 FOR ANCHOR BOLT PATTERNS
 BP1 & BP2 ARE (4) BOLT PATTERN WHILE B3 IS A (6) BOLT

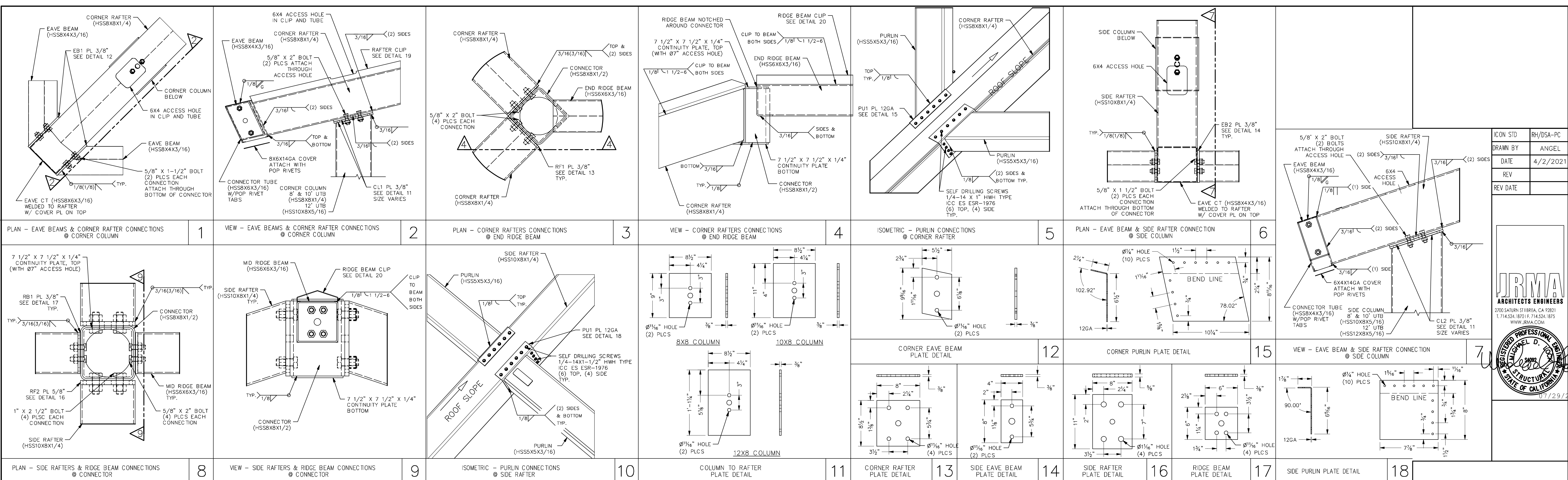
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 Code: 2019 CBC
 A separate project application for construction is required.

30' WIDE RECTANGULAR HIP FOUNDATION PLAN

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LS3.0

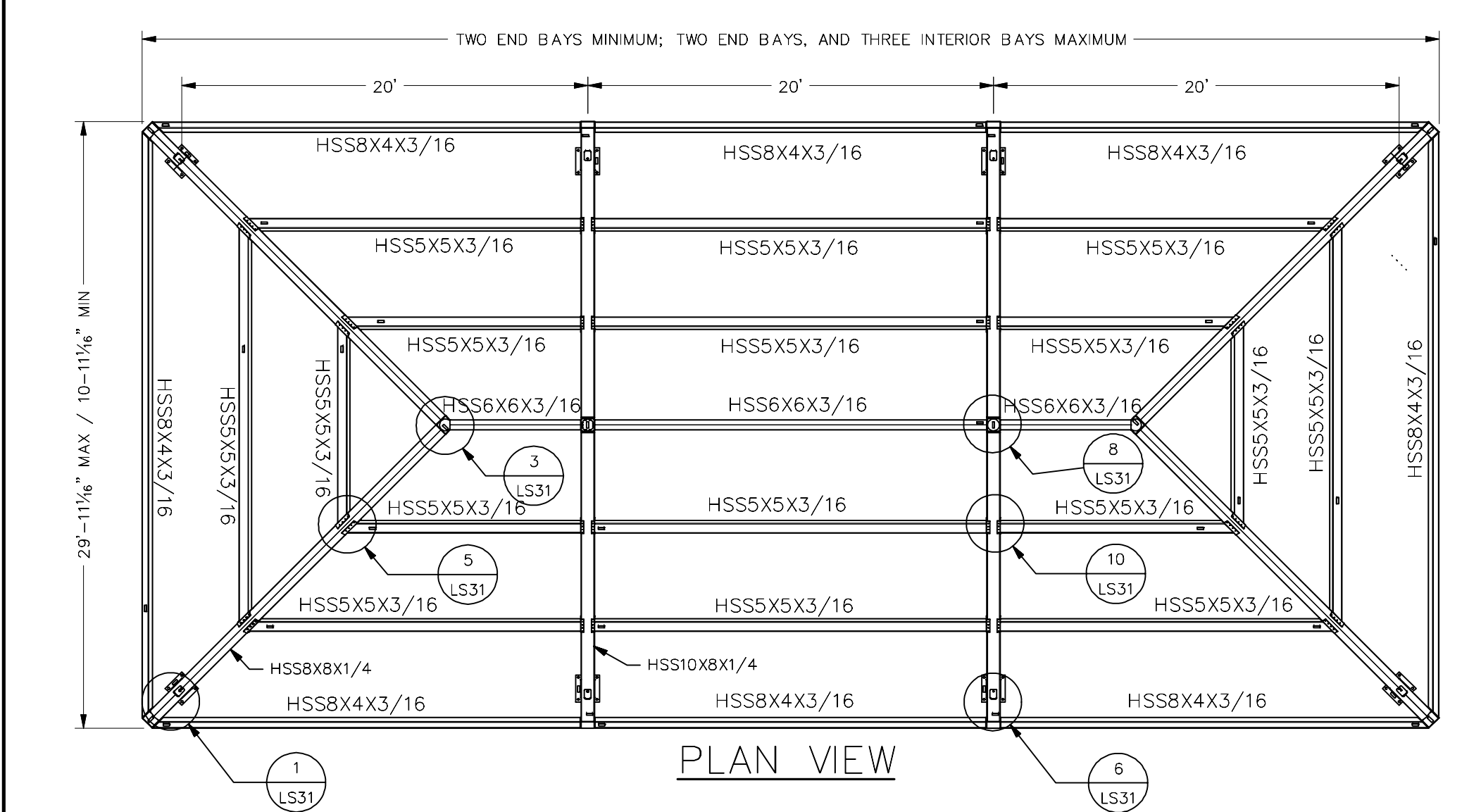
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ICON STD RH/DSA-PC
 DRAWN BY ANGEL
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MODEL DESIGNATION

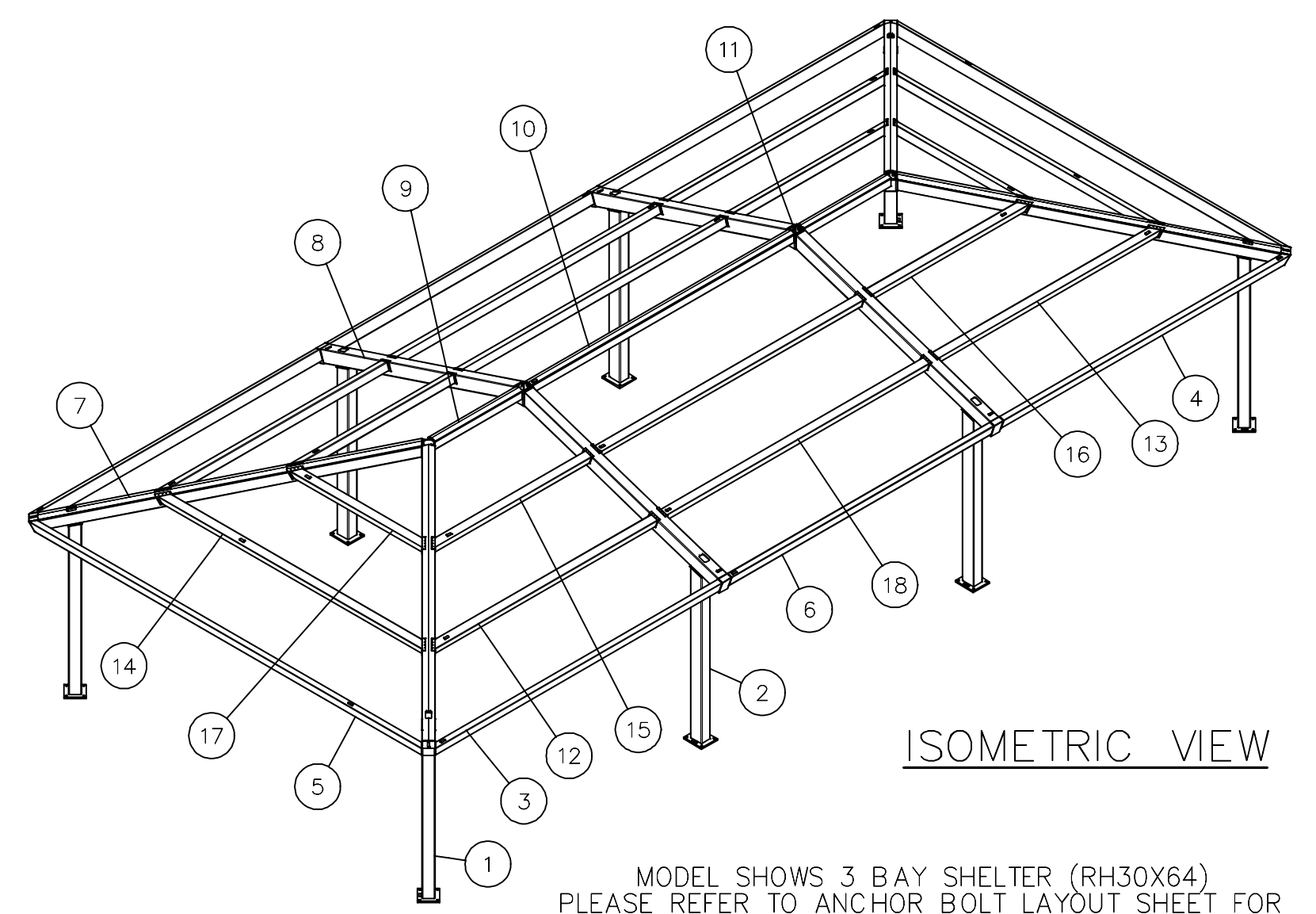
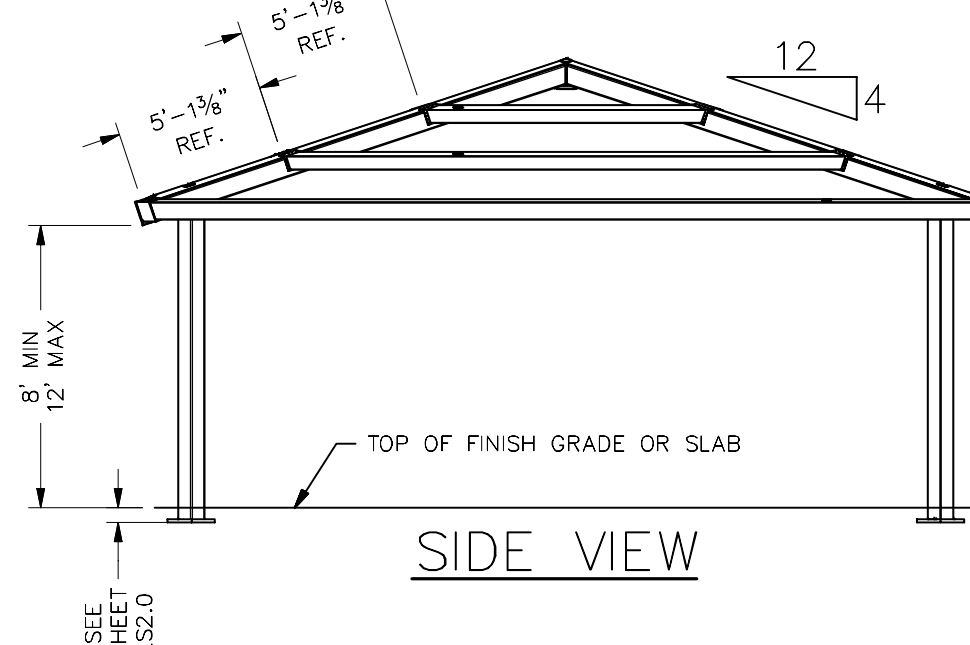
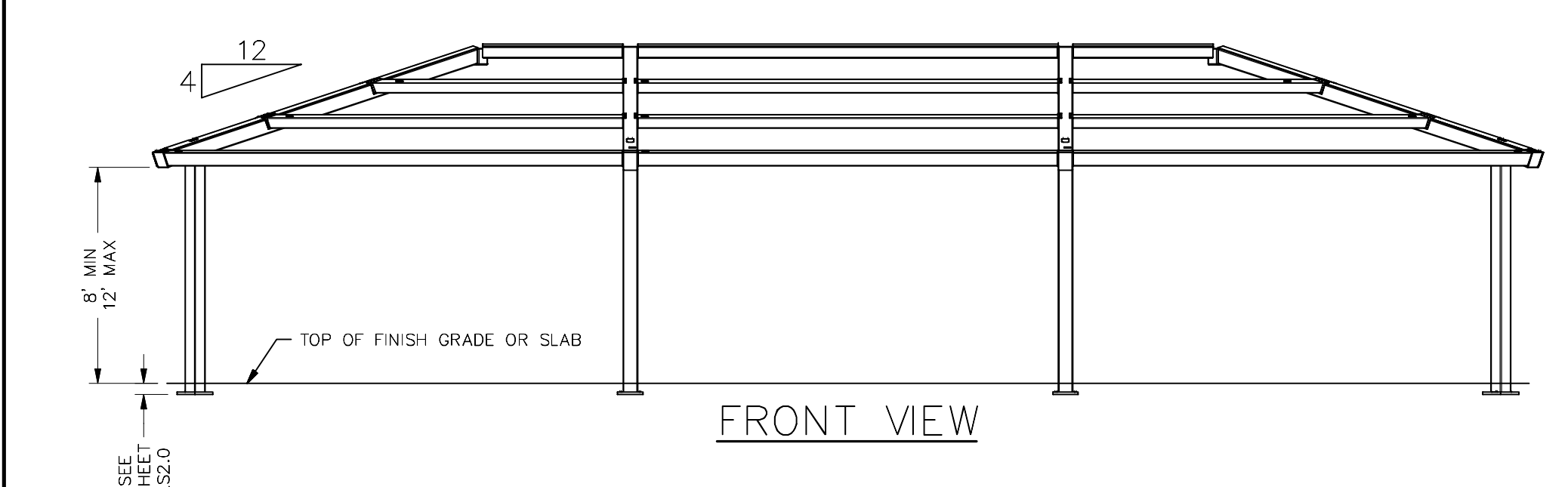
RH30X44	2 BAY
RH30X64	3 BAY
RH30X84	4 BAY
RH30X104	5 BAY

*NOTE: QUANTITIES WILL VARY DEPENDING ON SHELTER SIZE ORDERED, PLEASE REFER TO JOB SPECIFIC BILL OF MATERIALS AND INSTALLATION MANUAL.

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	LENGTH	UNIT WEIGHT
1	4		CORNER COLUMN	**SEE NOTE BELOW		353 lbmass
2	*		SIDE COLUMN	**SEE NOTE BELOW		399 lbmass
3	2		LH SIDE EAVE BEAM	HSS8X4X3/16		311 lbmass
4	2		RH SIDE EAVE BEAM	HSS8X4X3/16		311 lbmass
5	2		END EAVE BEAM	HSS8X4X3/16		422 lbmass
6	*		SIDE EAVE BEAM	HSS8X4X3/16		287 lbmass
7	4		CORNER RAFTER	HSS8X8X1/4		607 lbmass
8	*		SIDE RAFTER	HSS10X8X1/4		474 lbmass
9	2		END RIDGE BEAM	HSS6X6X3/16		149 lbmass
10	*		MID RIDGE BEAM	HSS6X6X3/16		329 lbmass
11	*		CONNECTOR	HSS8X8X1/2		48 lbmass
12	2		LH SIDE PURLIN 1	HSS5X5X3/16		238 lbmass
13	2		RH SIDE PURLIN 1	HSS5X5X3/16		238 lbmass
14	2		END PURLIN 1	HSS5X5X3/16		278 lbmass
15	2		LH SIDE PURLIN 2	HSS5X5X3/16		167 lbmass
16	2		RH SIDE PURLIN 2	HSS5X5X3/16		167 lbmass
17	2		END PURLIN 2	HSS5X5X3/16		137 lbmass
18	*		MID PURLIN	HSS5X5X3/16		284 lbmass

**NOTE: MATERIAL WILL VARY DEPENDING ON SHELTER SIZE ORDERED.

- CORNER COLUMN 8' UTB - (HSS8X8X1/4)
- SIDE COLUMN 8' UTB - (HSS10X8X5/16)
- CORNER COLUMN 10' UTB - (HSS8X8X1/4)
- SIDE COLUMN 10' UTB - (HSS10X8X5/16)
- CORNER COLUMN 12' UTB - (HSS10X8X5/16)
- SIDE COLUMN 12' UTB - (HSS12X8X5/16)

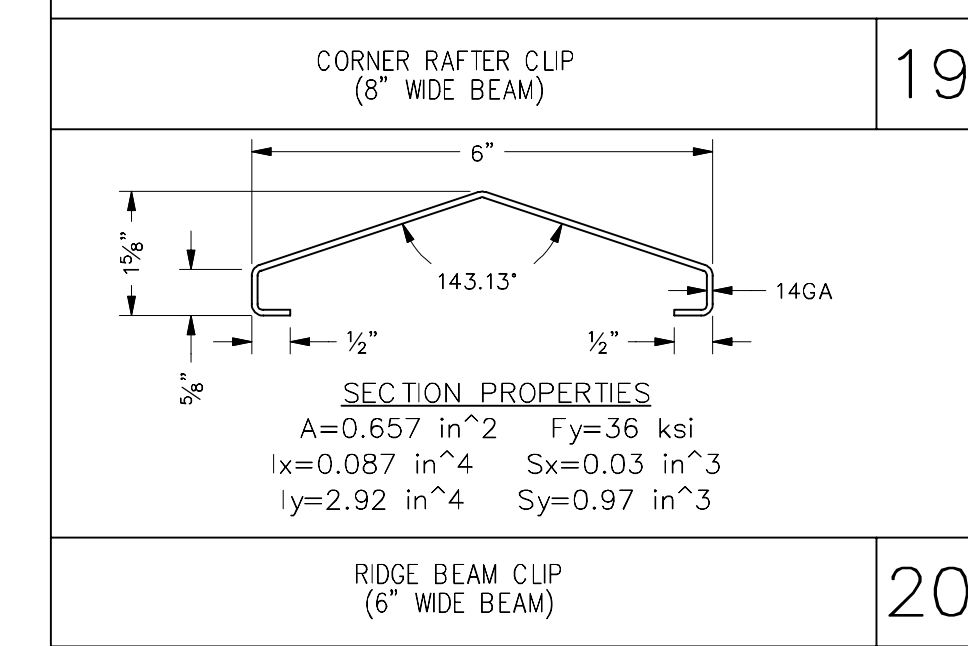


MODEL SHOWS 3 BAY SHELTER (RH30X64)
 PLEASE REFER TO ANCHOR BOLT LAYOUT SHEET FOR CORRECT COLUMN PLACEMENT BASED ON SIZE ORDERED

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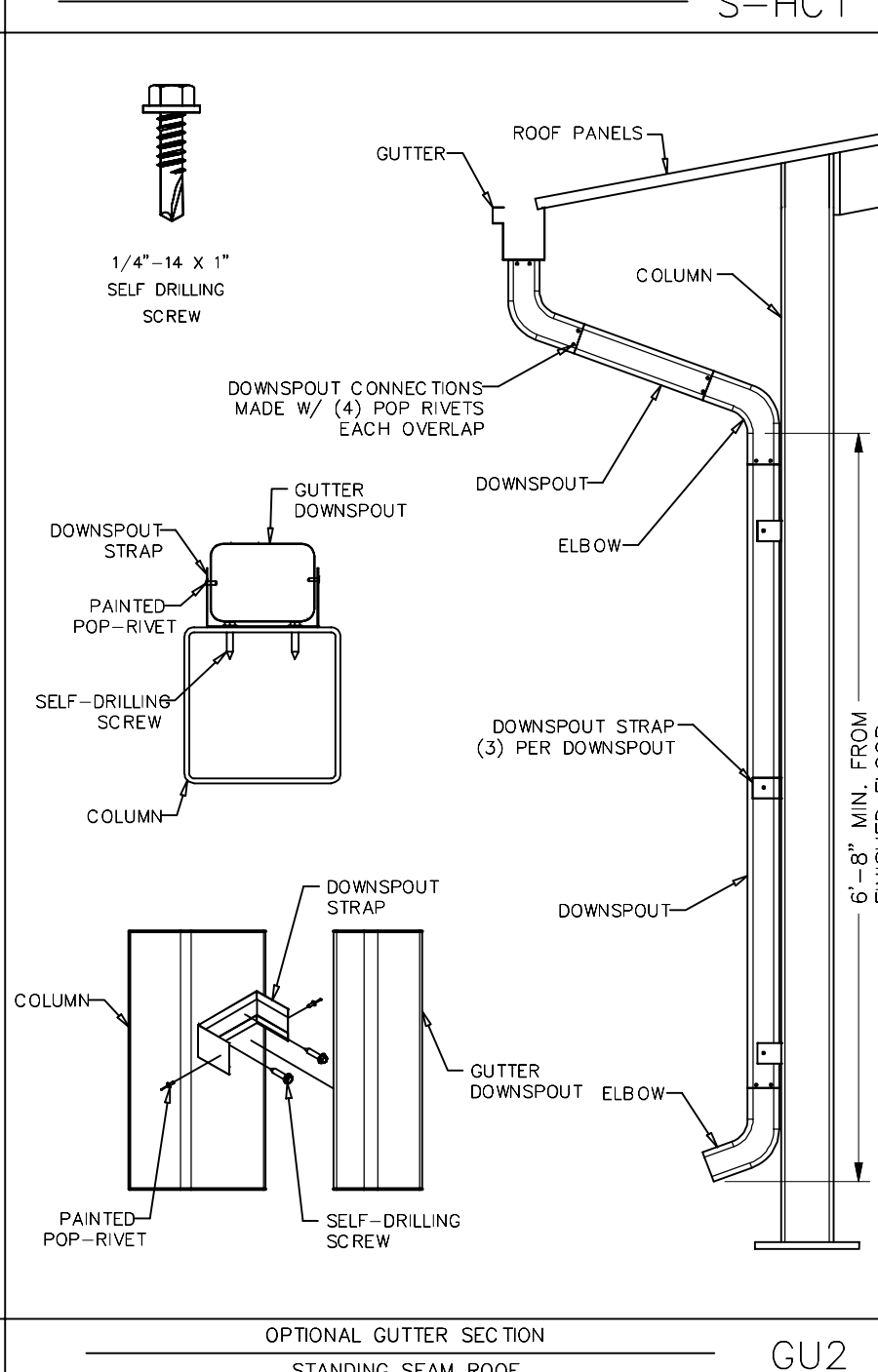
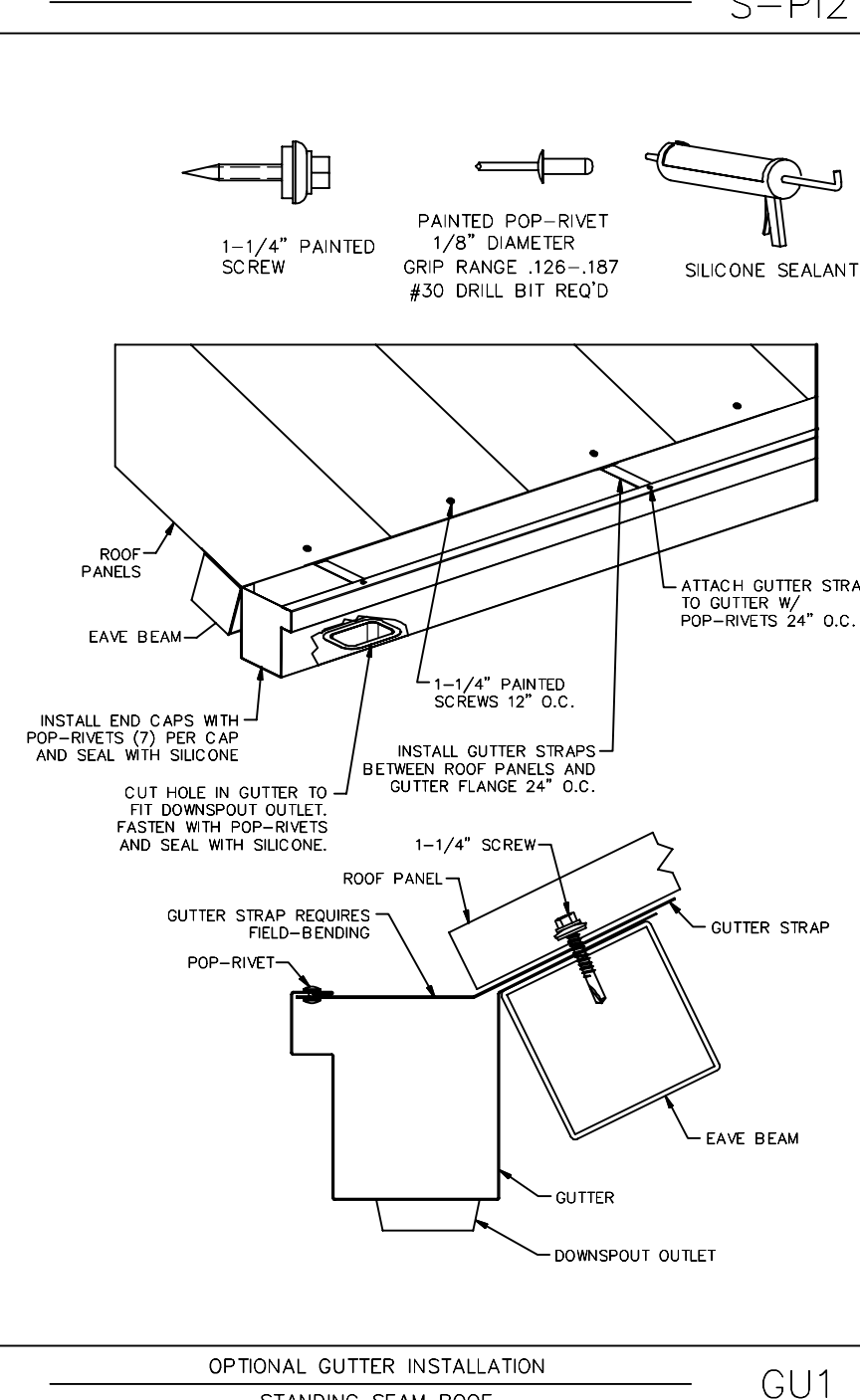
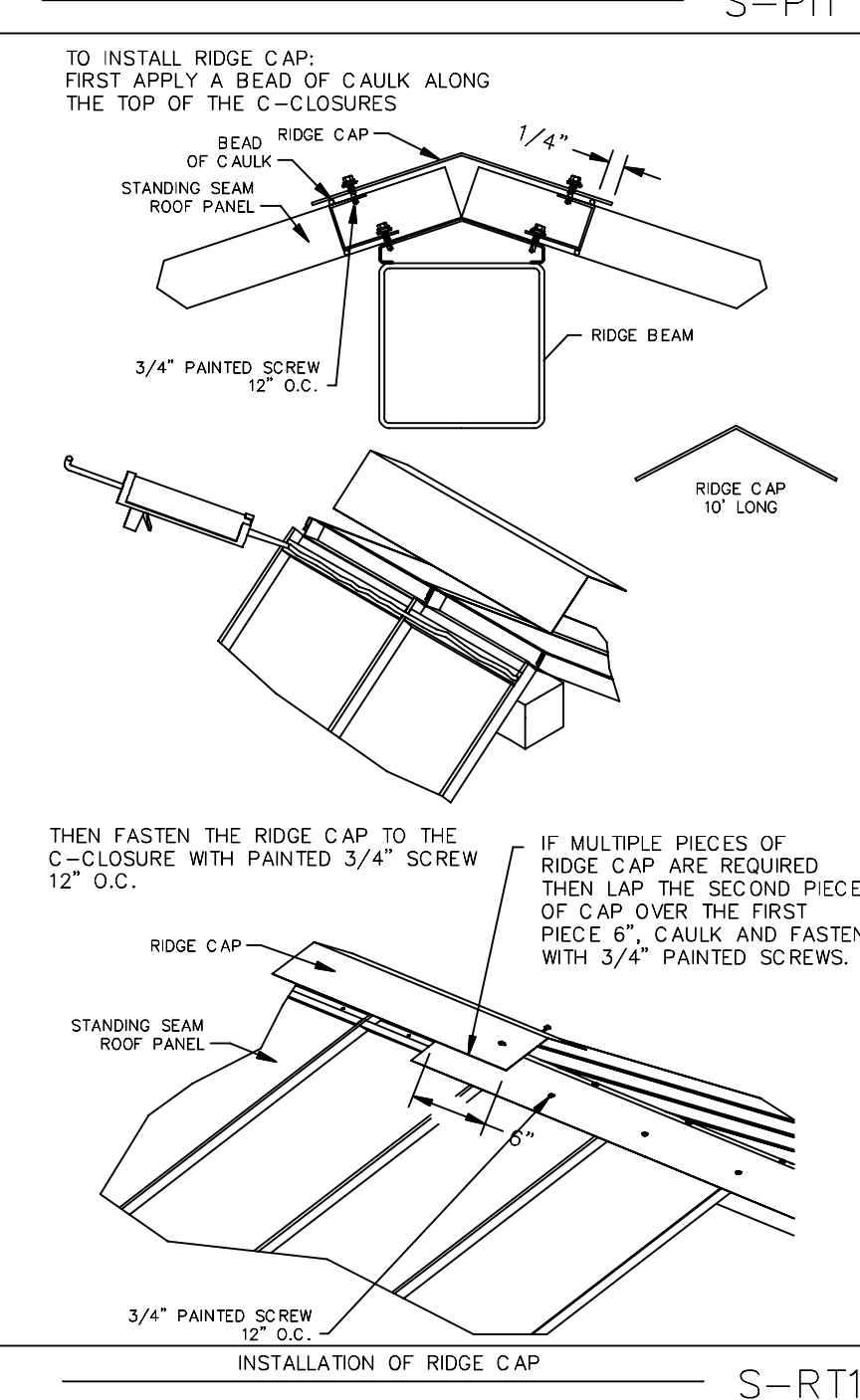
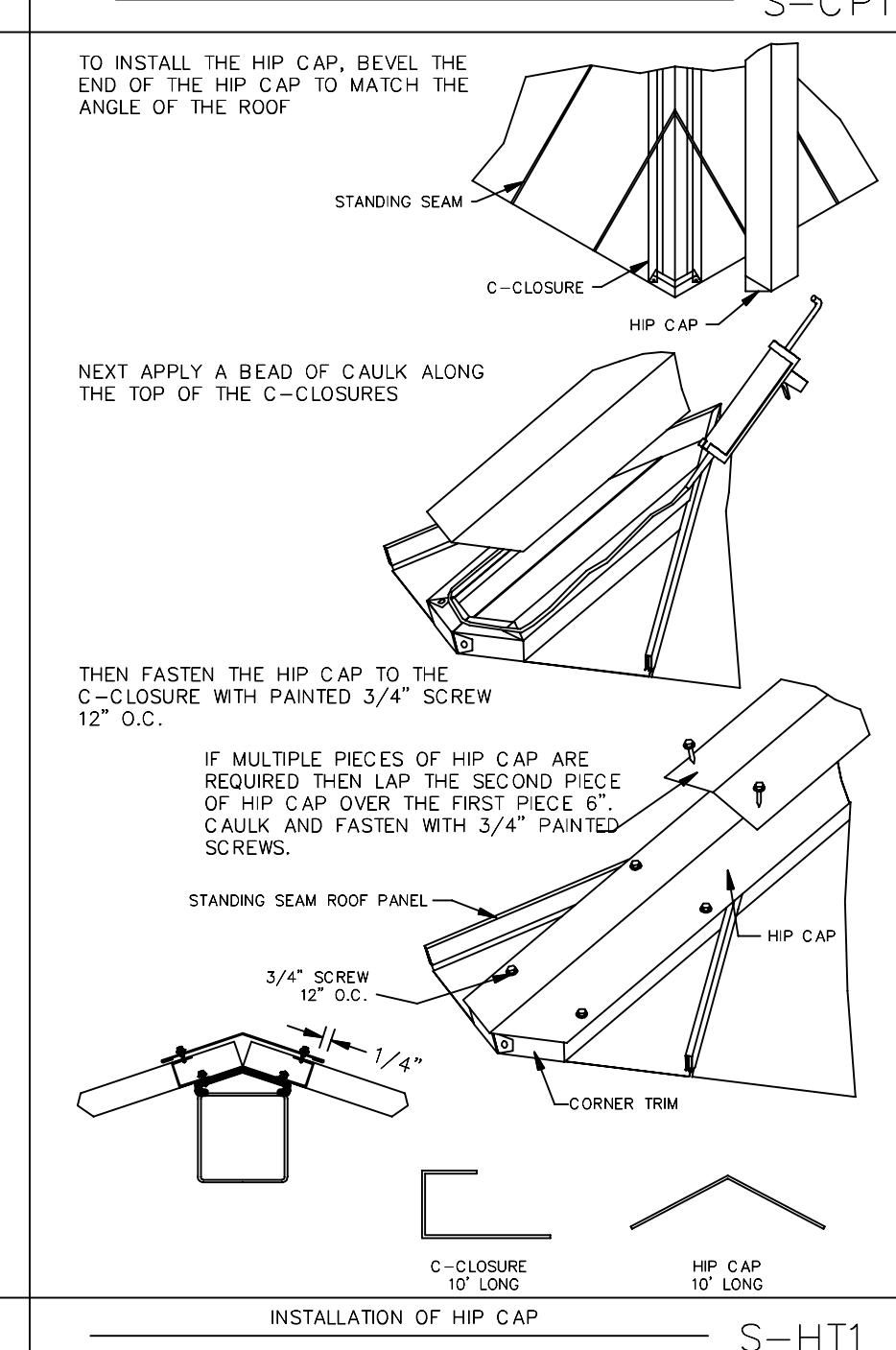
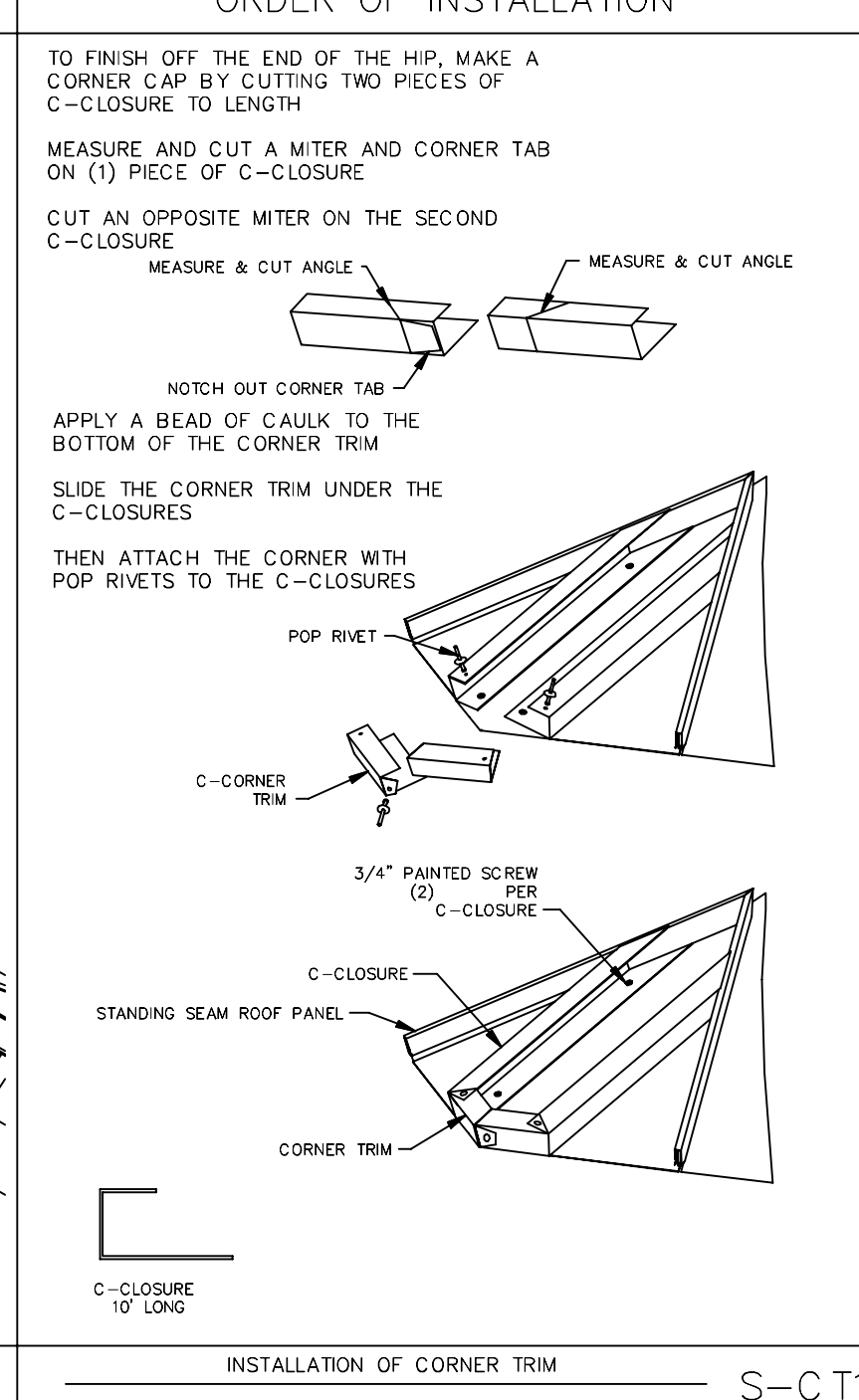
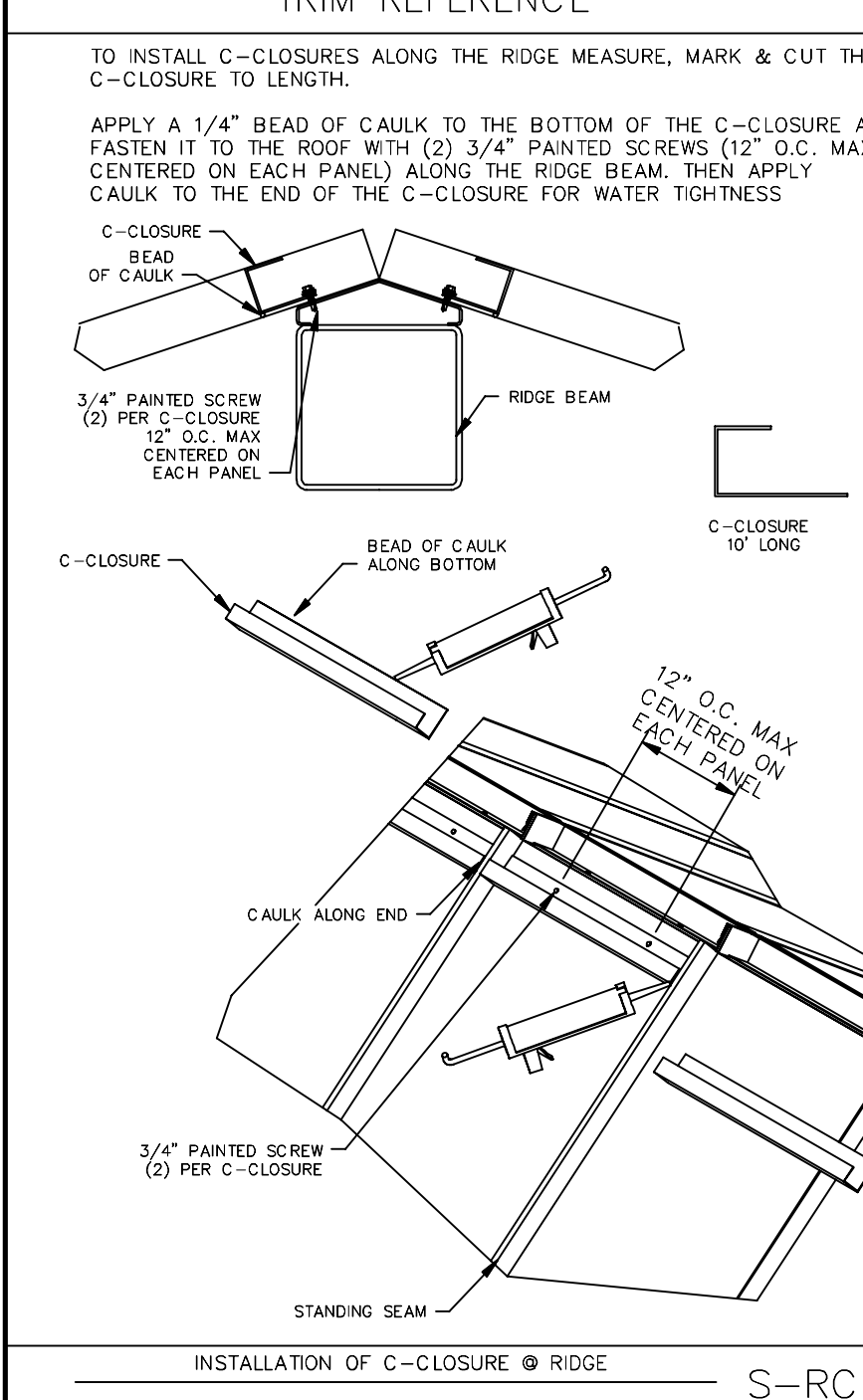
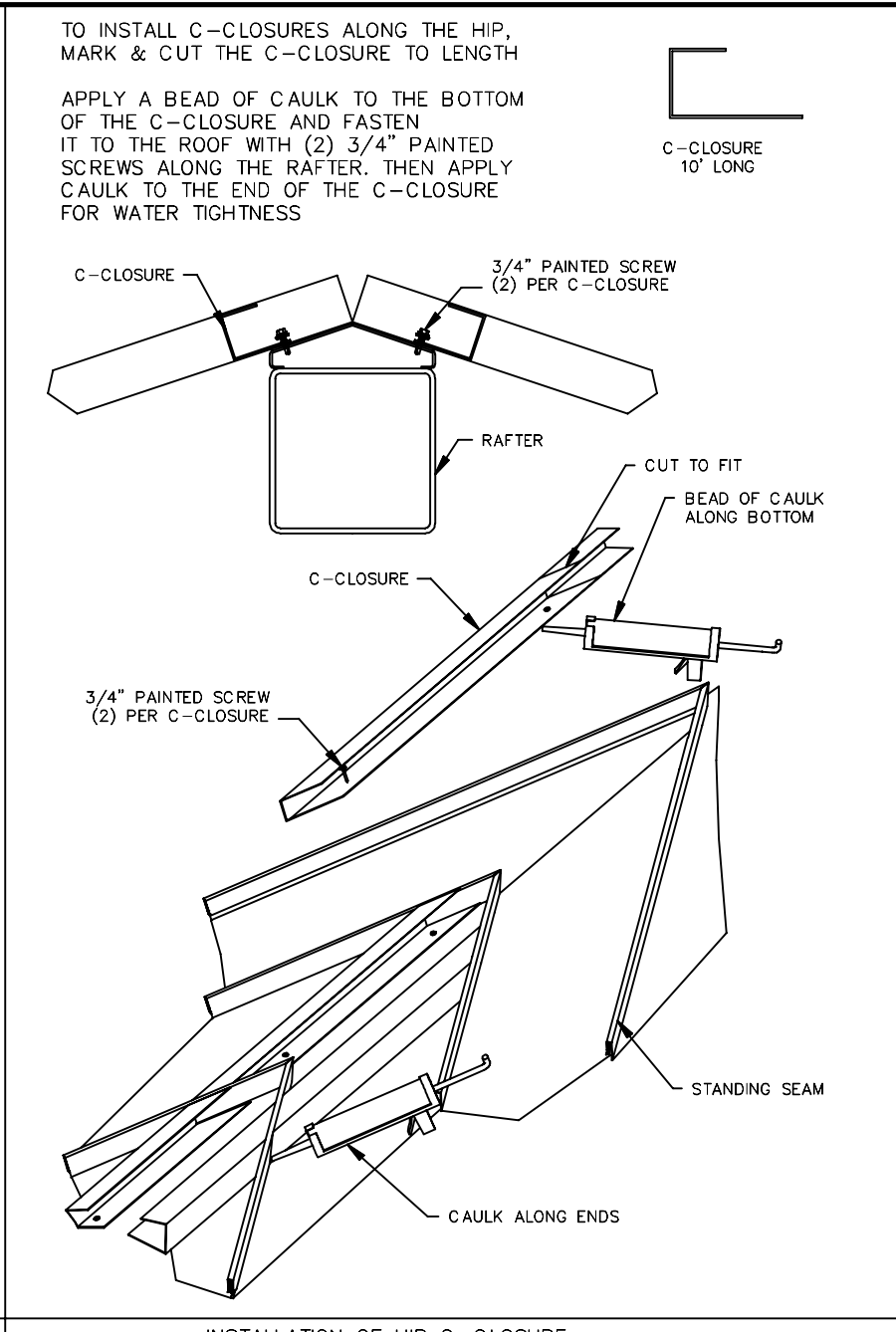
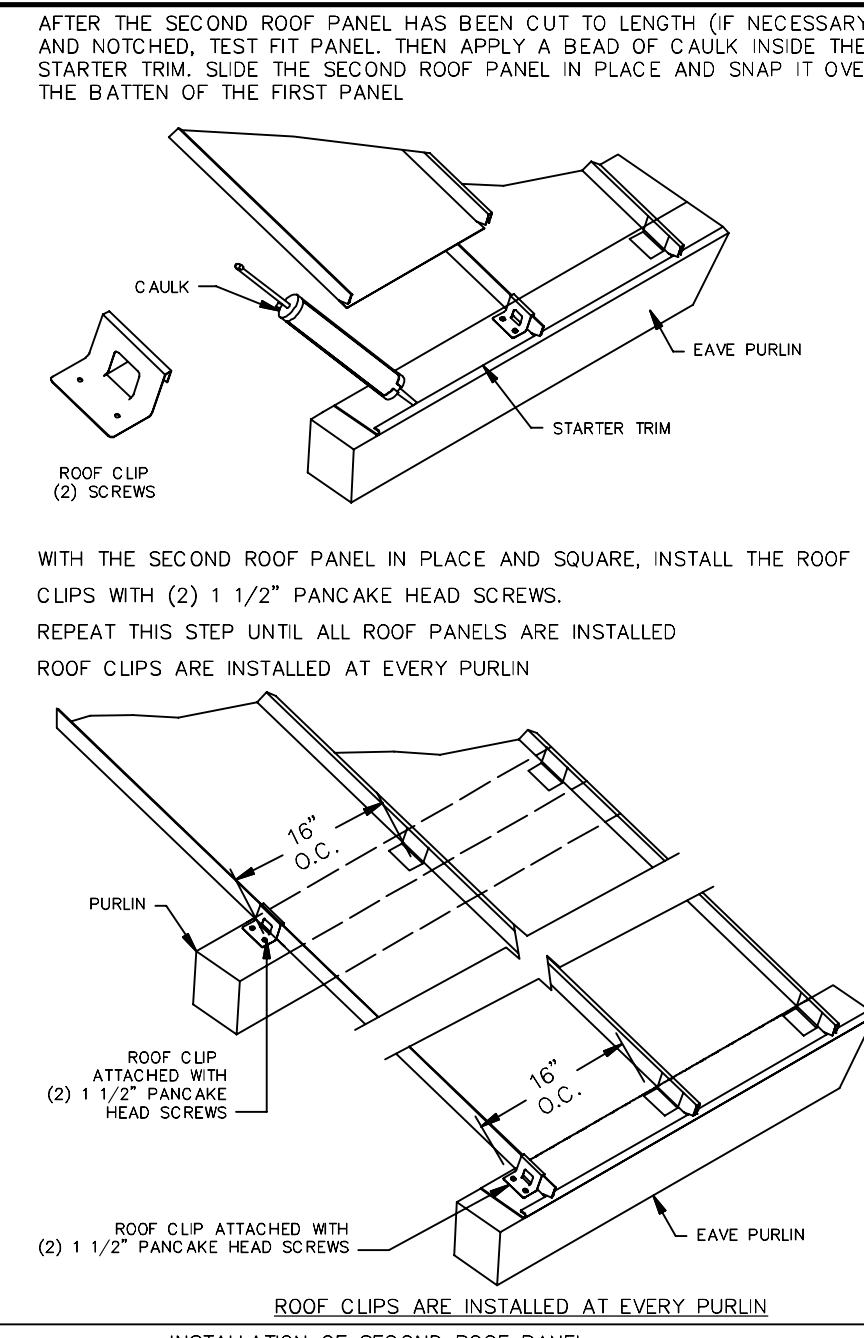
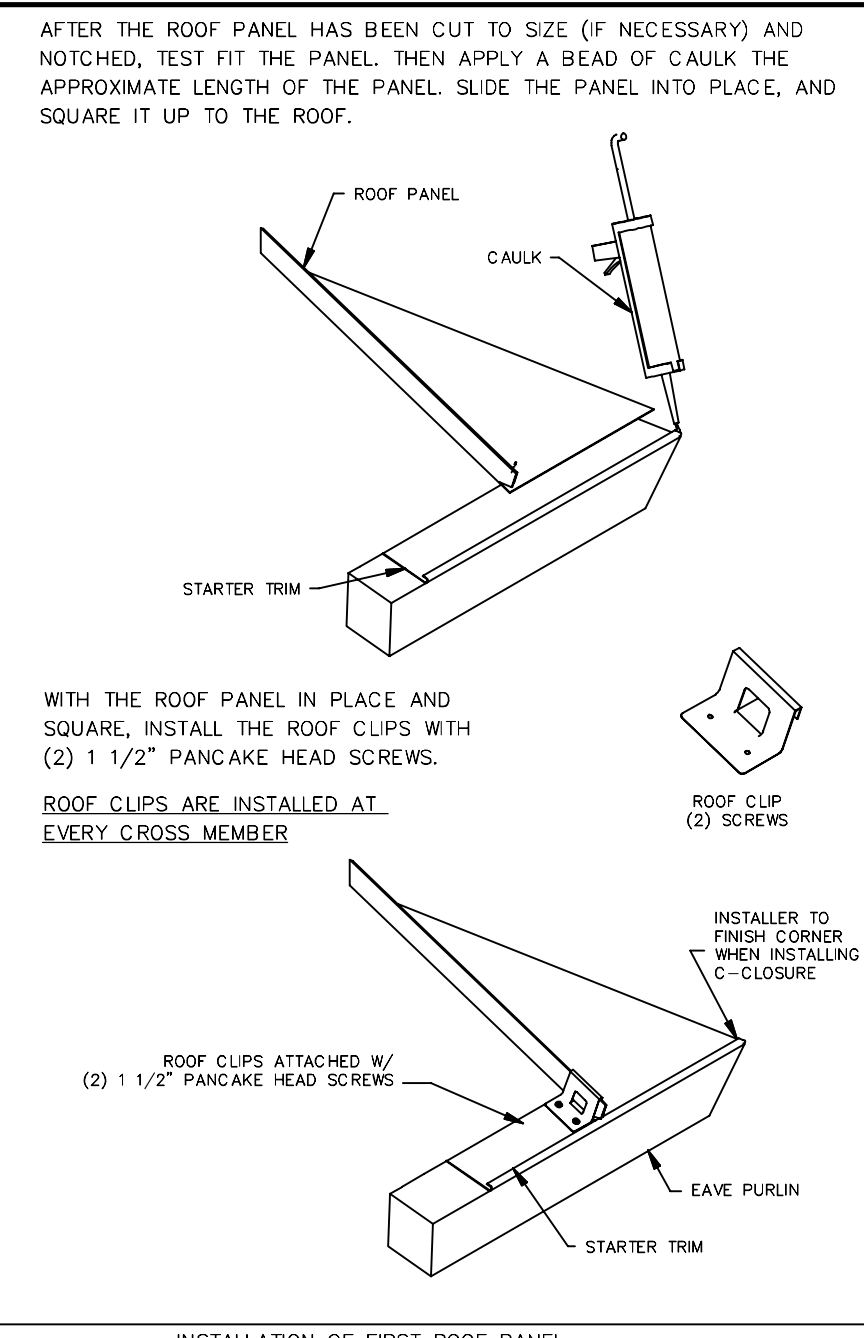
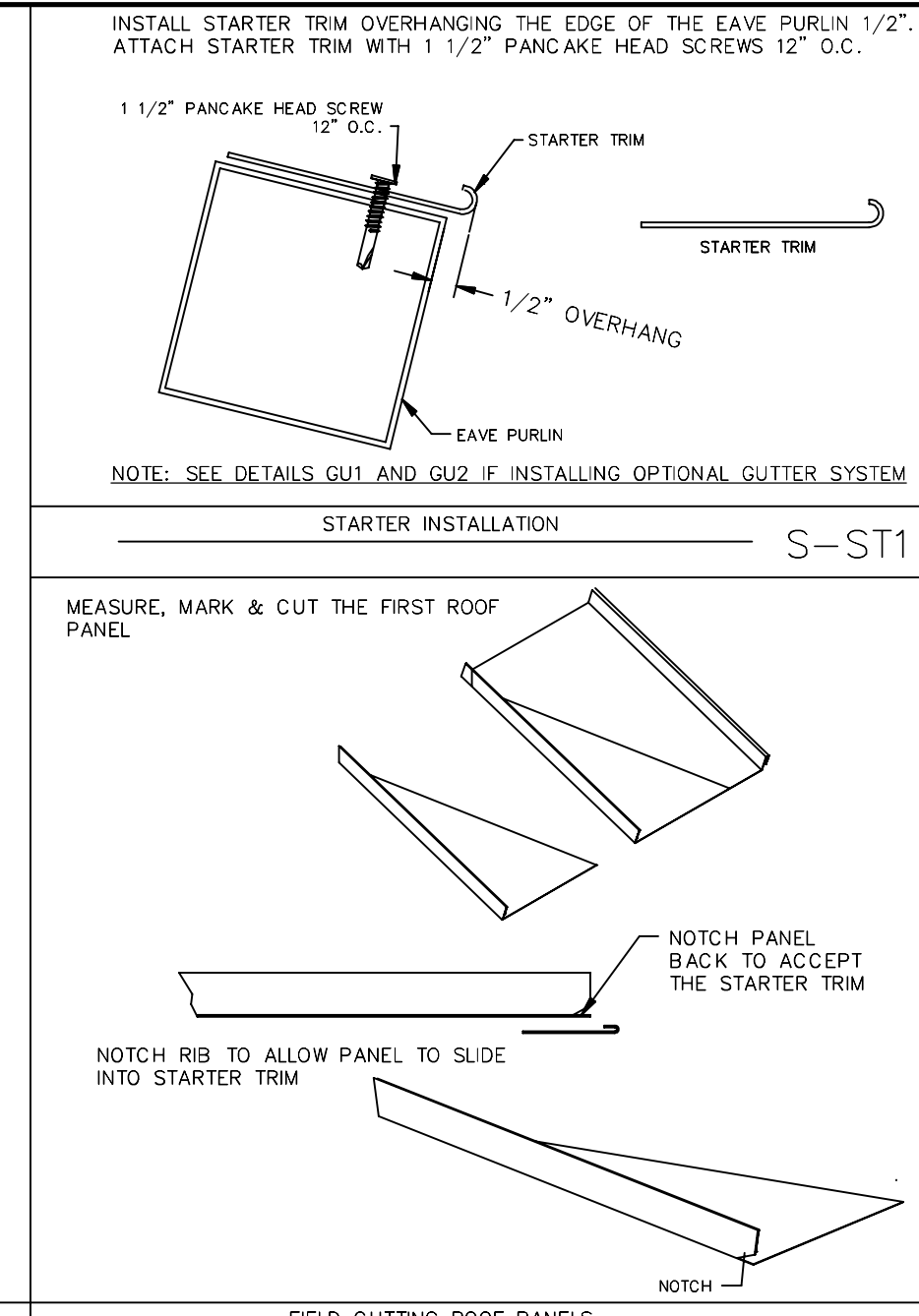
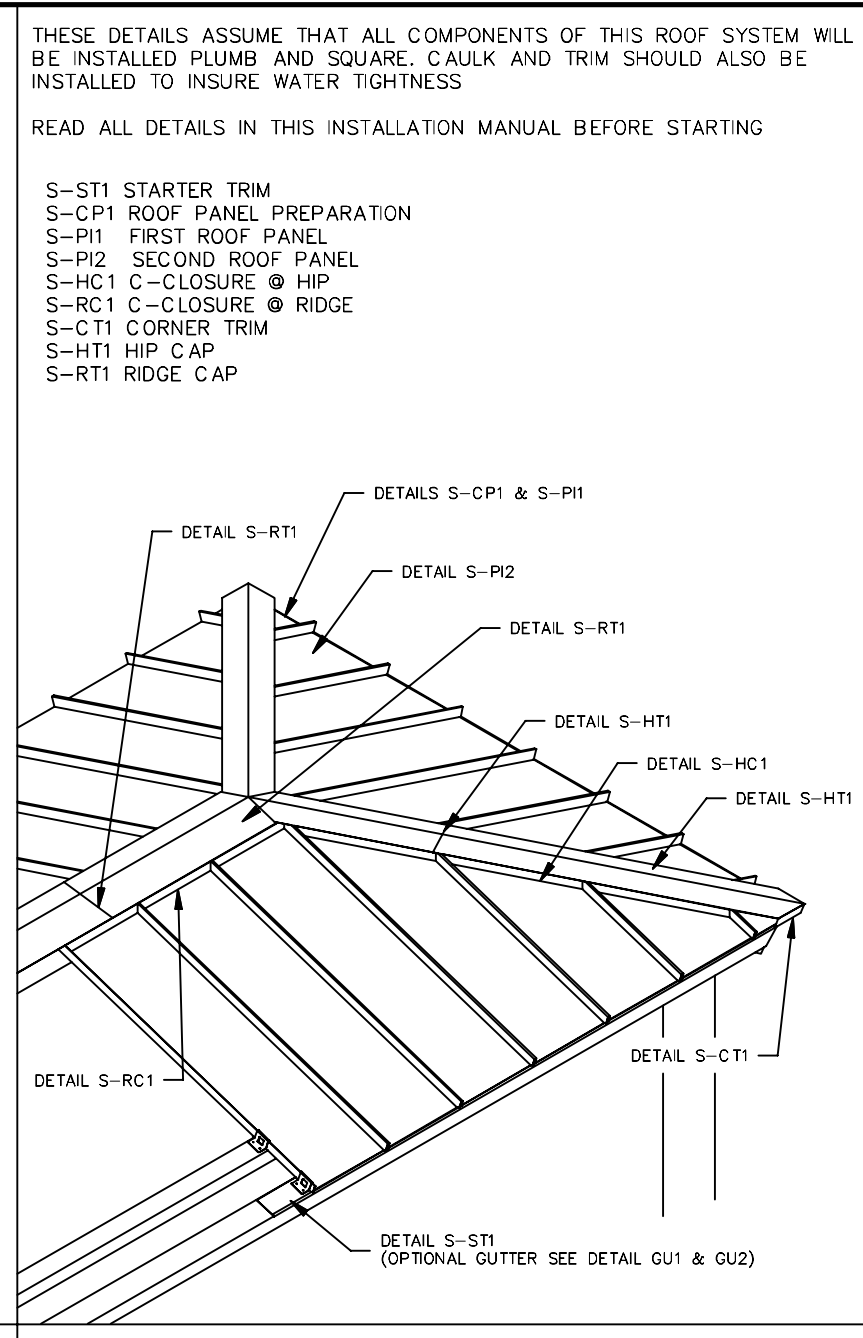
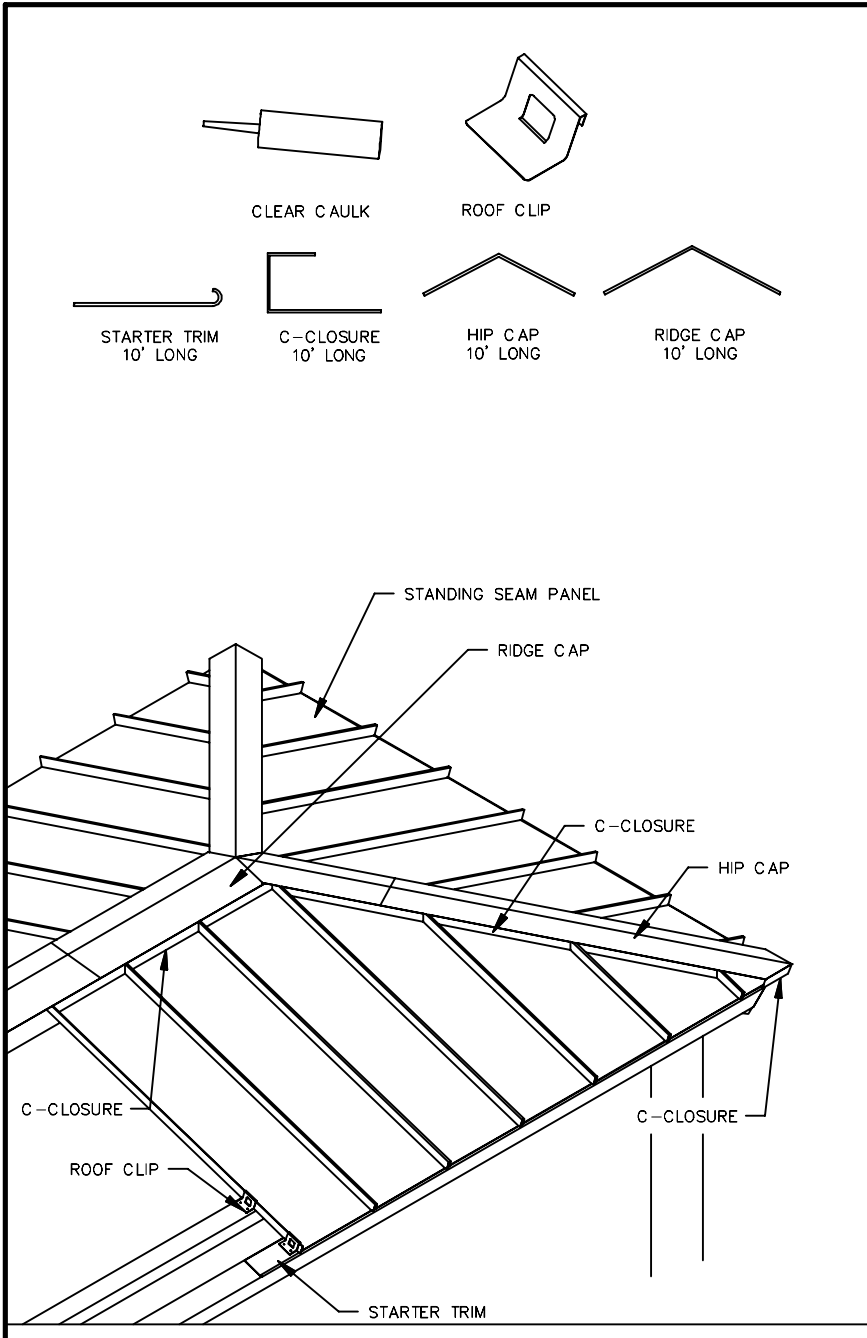
30' WIDE
 RECTANGULAR HIP
 FRAMING &
 CONNECTION DETAILS

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 A separate project application for construction is required.

LS3.1



ROOF NOTES

ATTENTION INSTALLERS:
METAL SHAVINGS LEFT ON ROOF WILL QUICKLY RUST AND STAIN THE ROOF FINISH!
DRILLING OR INSTALLING ROOF FASTENERS WILL CAUSE METAL SHAVINGS. THESE SHAVINGS MUST BE CAREFULLY REMOVED AT THE END OF EACH DAY BY EITHER SWEEPING OR BRUSHING THE INSTALLED ROOF.

INSTALLED CORRECTLY	INSTALLED TOO TIGHT	INSTALLED TOO LOOSE
THE SEALING MATERIAL IS VISIBLE AROUND THE METAL WASHER	THE SEALING MATERIAL IS DEFORMED BEYOND THE EDGE OF THE METAL WASHER	THE SEALING MATERIAL IS NOT VISIBLE AROUND THE EDGE OF THE METAL WASHER

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

THE ERECTOR SHOULD THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL INSTALLATION INSTRUCTION MATERIAL BEFORE STARTING WORK.

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

ERECTORS SHALL BE RESPONSIBLE TO ENSURE THAT THE DETAILS MEET PARTICULAR BUILDING REQUIREMENTS AND TO ASSURE ADEQUATE WATER TIGHTNESS.

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

SOME FIELD CUTTING AND/OR FITTING OF PANELS, TRIM AND FLASHING IS TO BE EXPECTED BY THE ERECTOR. MINOR FIELD CORRECTIONS ARE PART OF NORMAL ERECTION WORK.

THE INSTALLATION SHALL BE PERFORMED BY EXPERIENCED METAL CRAFTSPERSON AND WORKMANSHIP SHALL MEET THE BEST INDUSTRY STANDARDS.

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SECTION PROPERTIES (PER FT. OF WIDTH)

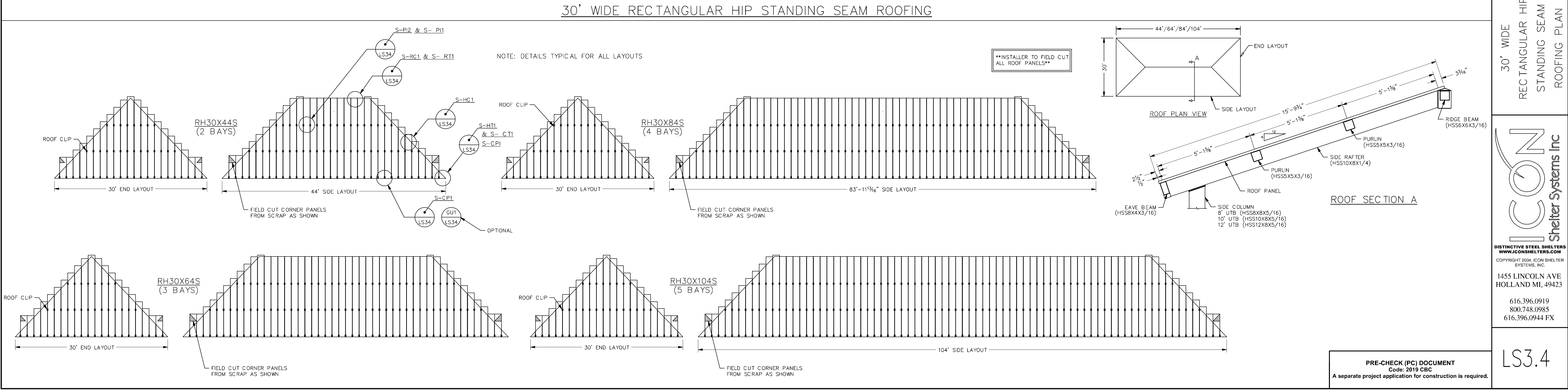
TOP IN COMPRESSION
Ix=0.086 in⁴
Sx=0.0561 in³
Mx=1.68 in-kips

BOTTOM IN COMPRESSION
Ix=0.040 in⁴
Sx=0.0479 in³
Mx=1.248 in-kips

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ANGEL
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REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. JOHNSON
NO. 44892
STATE OF CALIFORNIA
07/29/2021



30' WIDE RECTANGULAR HIP STANDING SEAM ROOFING PLAN

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LS3.4

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

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ELECTRICAL INFORMATION - RECTANGULAR HIP

ICON'S STANDARD ELECTRICAL IS DESIGNED TO ACCOMMODATE Ø1/2" CONDUIT WITH A Ø3" INLET HOLE ON THE BOTTOM OF EACH COLUMN. THE CONDUIT PATHWAY RUNS THROUGH THE COLUMN, RAFTER, AND RIDGE BEAM THROUGH ALL BOLTED CONNECTIONS AS SHOWN. IF YOU HAVE SPECIAL ELECTRICAL REQUIREMENTS, PLEASE OUTLINE ANY CHANGES BELOW AS DESCRIBED.

PLEASE NOTE: DESIGN LIMITATIONS ON HOLE/CUTOUT SIZES MAY APPLY. ICON WILL REACH OUT TO DISCUSS ANY SUCH LIMITATIONS AS NEEDED.

NOTE: ICON SHELTER FRAME IS NOT UL LISTED TO ACT AS A CONDUIT FOR ELECTRICAL WIRING. CONSULT LOCAL BUILDING CODES WHEN PLANNING YOUR ELECTRICAL SYSTEM.

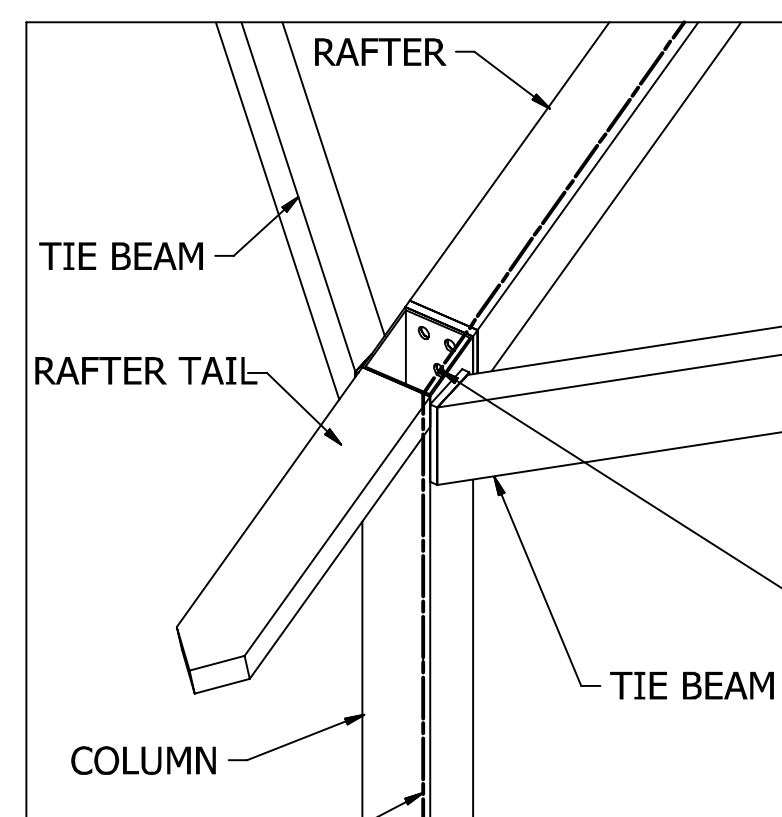
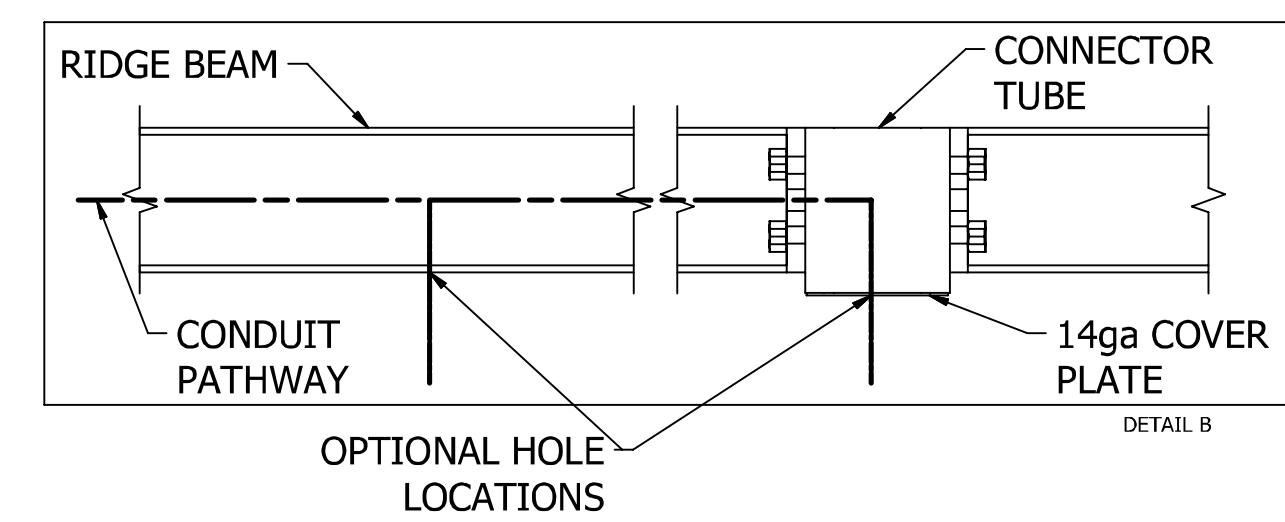
PRELIMINARY: NOT FOR CONSTRUCTION

STEPS:

1. CONDUIT HOLE SIZE (DETAIL A)
2. ELECTRICAL EXIT HOLES (DETAIL B)
3. ELECTRICAL ACCESS & COVER PLATES (DETAIL C)
4. ELECTRICAL CONDUIT PATHWAY (DETAIL D)

OPTIONAL EXIT HOLES

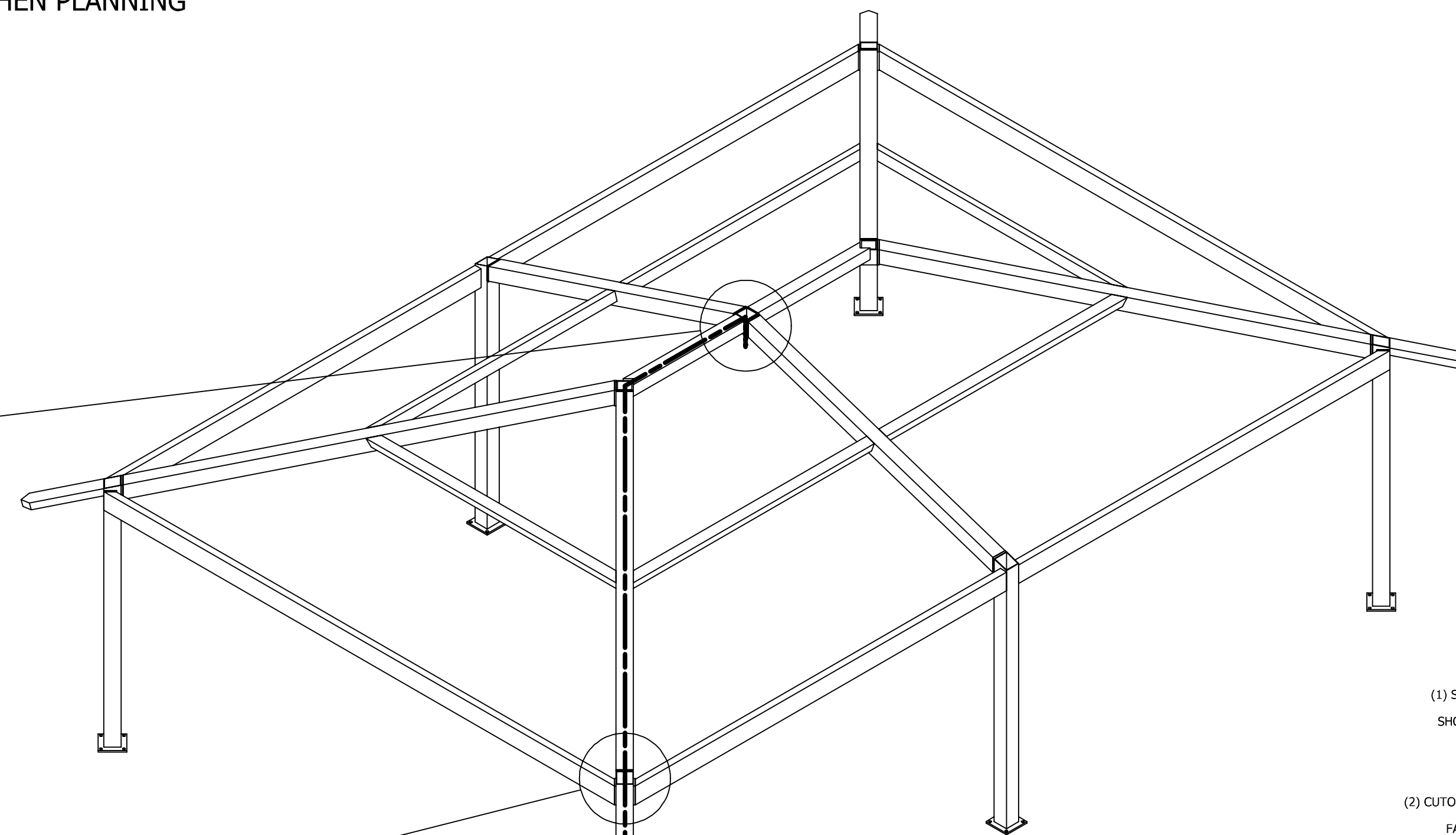
IF REQUIRED, EXIT HOLES FOR LIGHTING, ETC. CAN BE PLACED IN THE RIDGE BEAM AND/OR CONNECTOR TUBE WITH 14ga COVER PLATE AS SHOWN (CHARGES APPLY). USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED EXIT HOLE LOCATIONS AND SIZE.



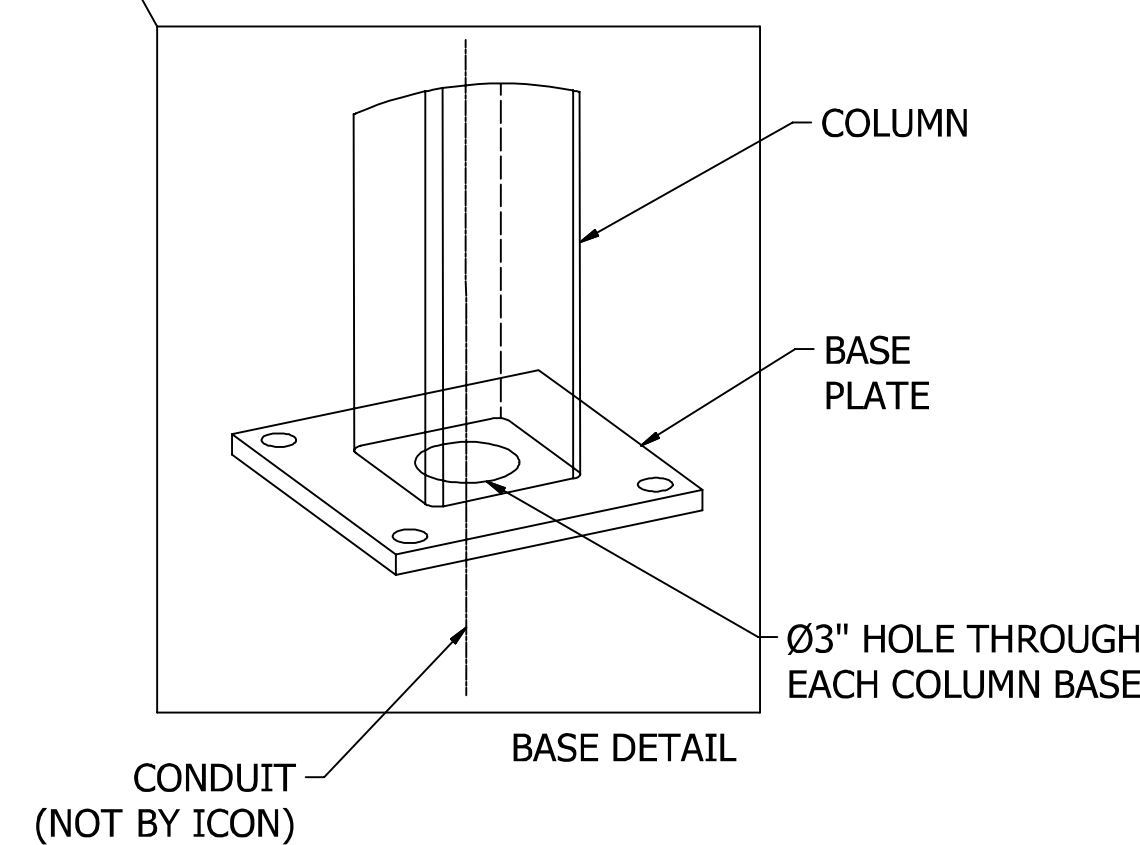
ICON PROVIDES A MINIMUM OF (1) 3/4" HOLE AT EACH CONNECTION FOR 1/2" CONDUIT. IF APPLICABLE, PLEASE SPECIFY REQUIRED CONDUIT SIZE: (CHARGES APPLY)

- 3/4" CONDUIT (1" HOLES)
- 1" CONDUIT (1 1/4" HOLES)
- OTHER (PLEASE SPECIFY)

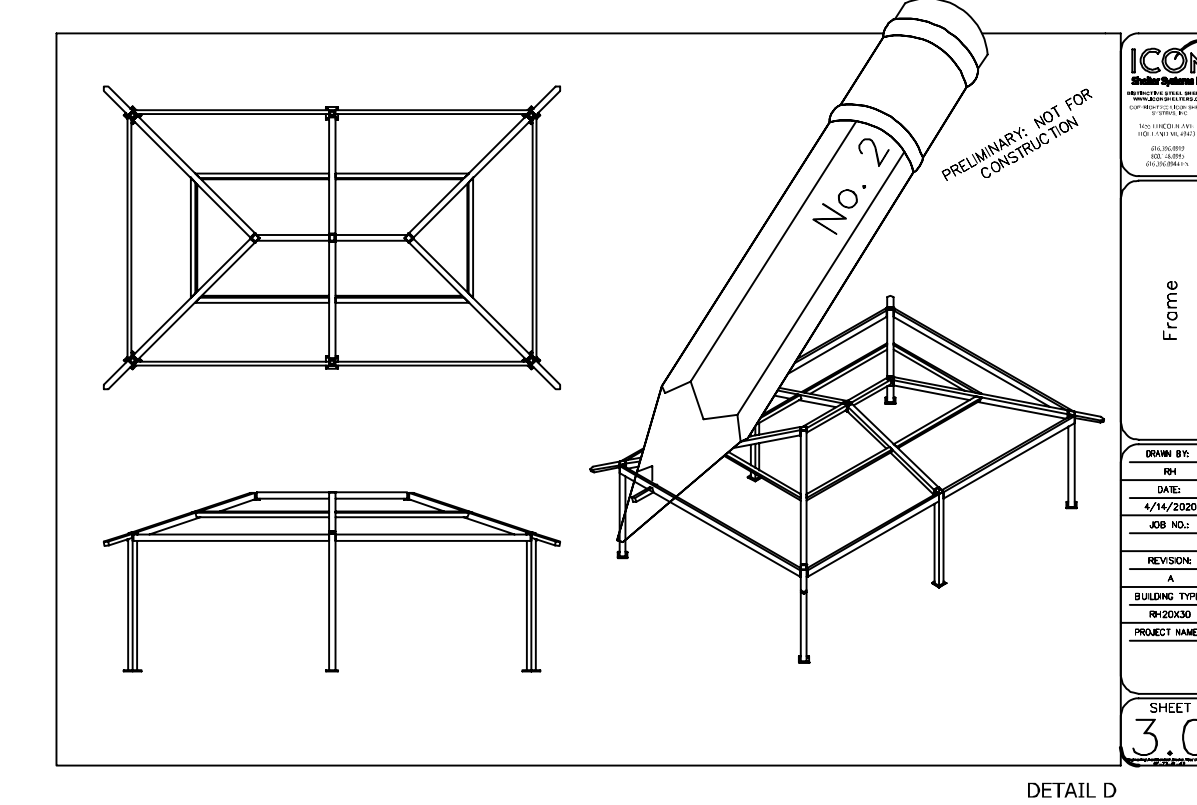
NOTE: BUILDING DEPICTED ON THIS SHEET FOR ILLUSTRATION PURPOSES ONLY. ACTUAL LAYOUT AND FRAME MEMBER QUANTITIES VARY BY DESIGN. PLEASE REFER TO ELEVATION AND FRAME SHEETS IN THIS PRELIMINARY FOR ORDER-SPECIFIC CONFIGURATION.



CONDUIT PATHWAY PROVIDED FOR EACH COLUMN.

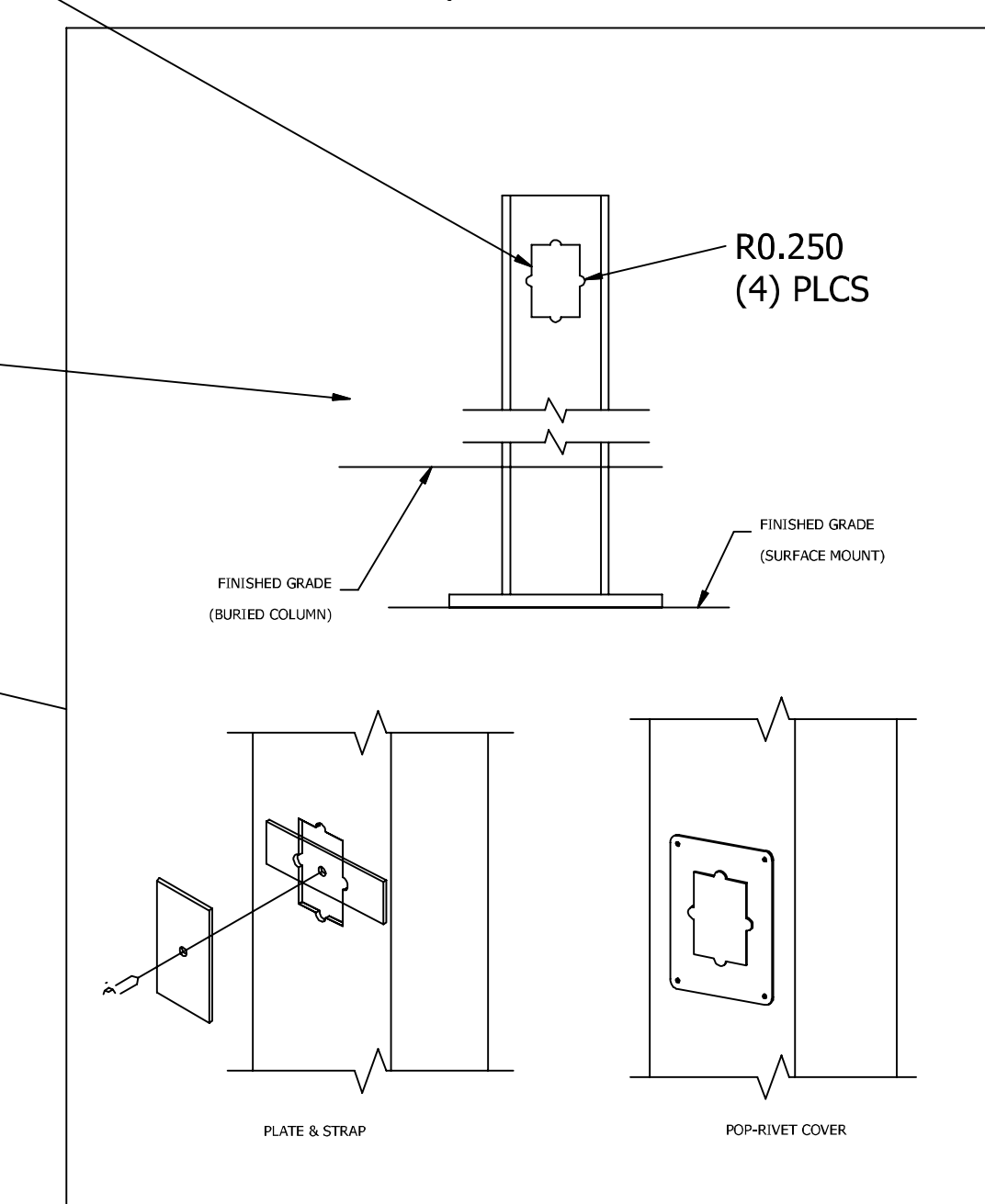


IF REQUIRED, PLEASE DRAW THE NECESSARY ELECTRICAL CONDUIT PATHWAY ON THE FRAME SHEET OF THIS PRELIMINARY.



OPTIONAL CUTOUTS
USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED CUTOUT LOCATIONS (CHARGES APPLY). SEE REQUIRED INFO BELOW.

- (1) STANDARD CUTOUT SIZE SHOWN. SPECIFY IF OTHER SIZE REQUIRED.
- (2) CUTOUTS WILL BE ON INSIDE FACE OF COLUMN UNLESS OTHERWISE INDICATED ON FRAME SHEET.
- (3) SPECIFY HEIGHT ABOVE FINISHED GRADE FOR EACH CUTOUT AS SHOWN



- (4) COVER PLATES PROVIDED UPON REQUEST (CHARGES APPLY)
PLEASE SPECIFY TYPE AND QUANTITY REQUIRED:
- PLATE & STRAP
 - POP-RIVET COVER PLATE
- HOW MANY REQUIRED? _____

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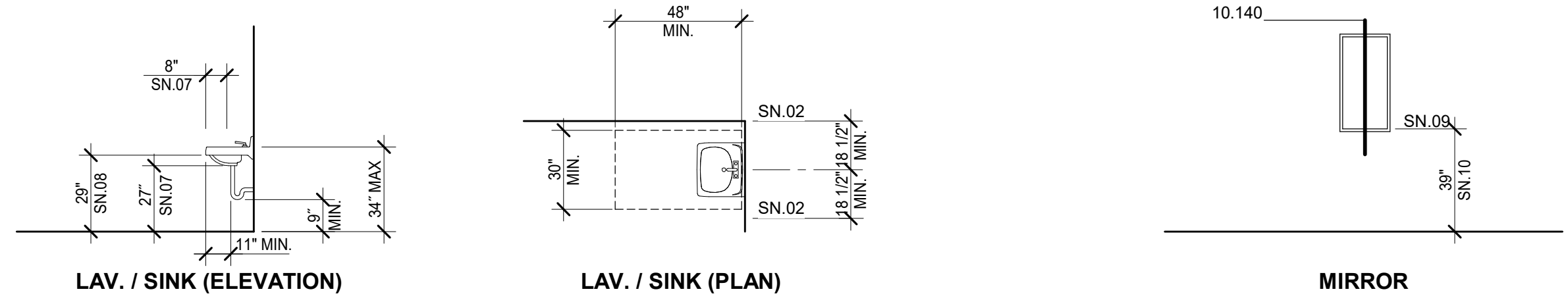
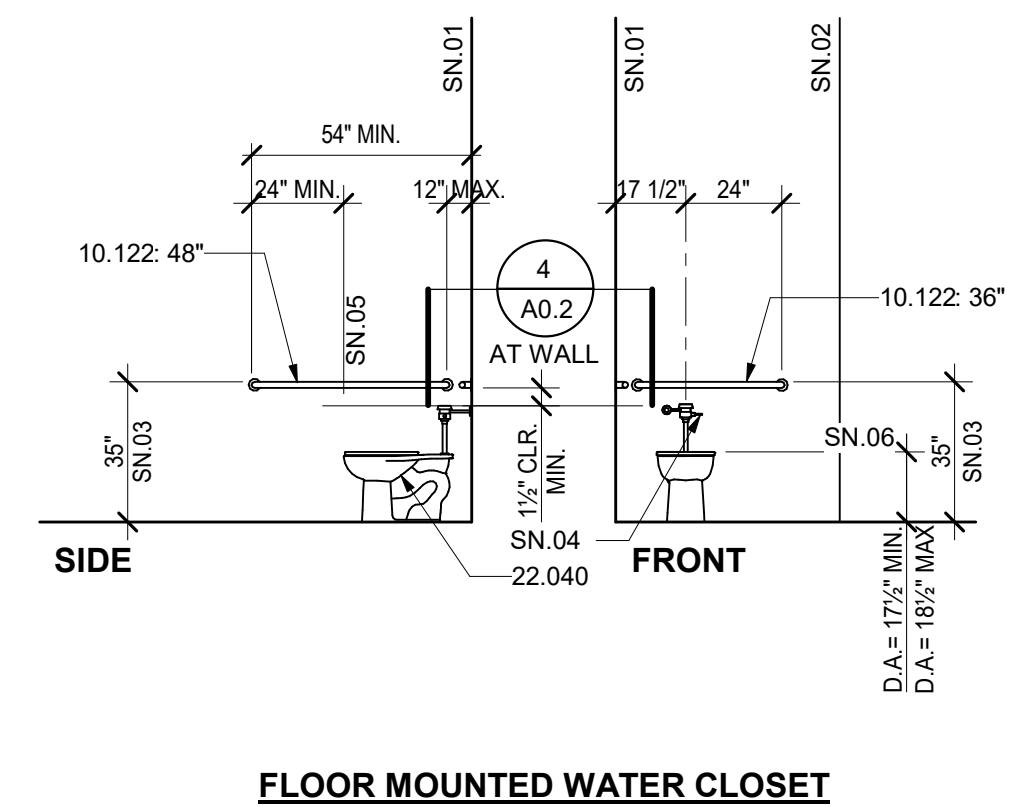
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ANGEL D. JOY
NO. 5090
STATE OF CALIFORNIA
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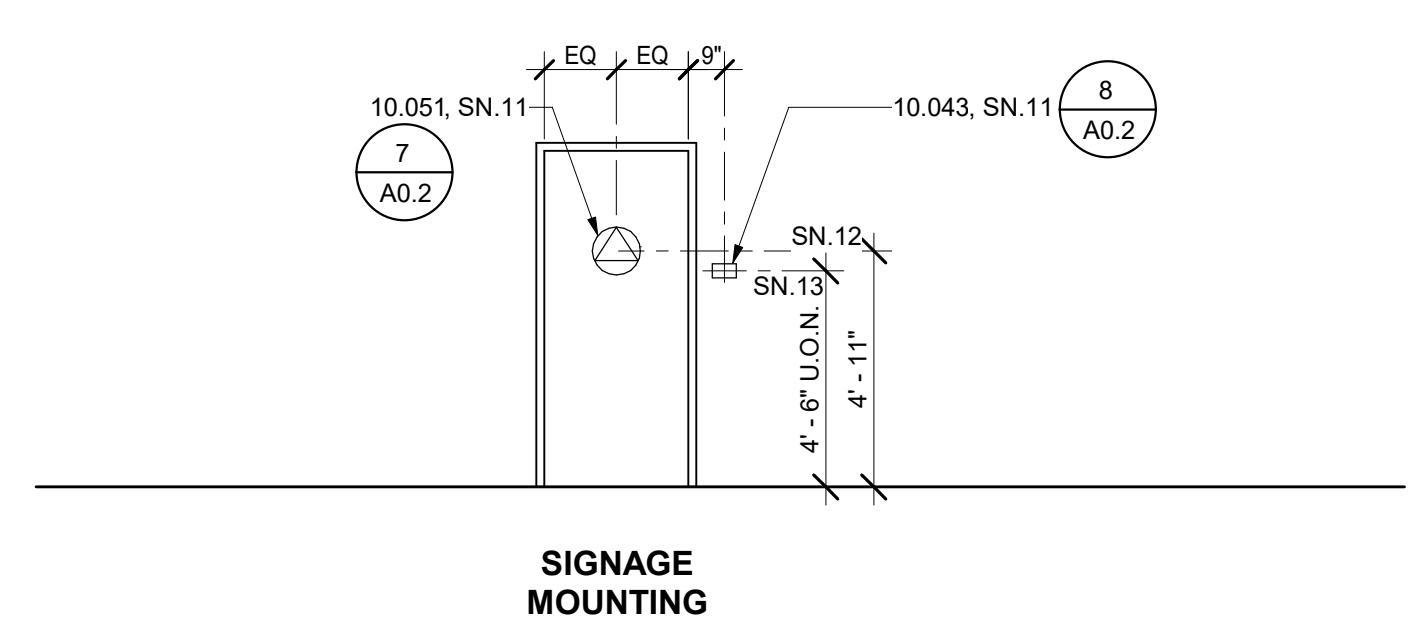
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ELECTRICAL ACCESS

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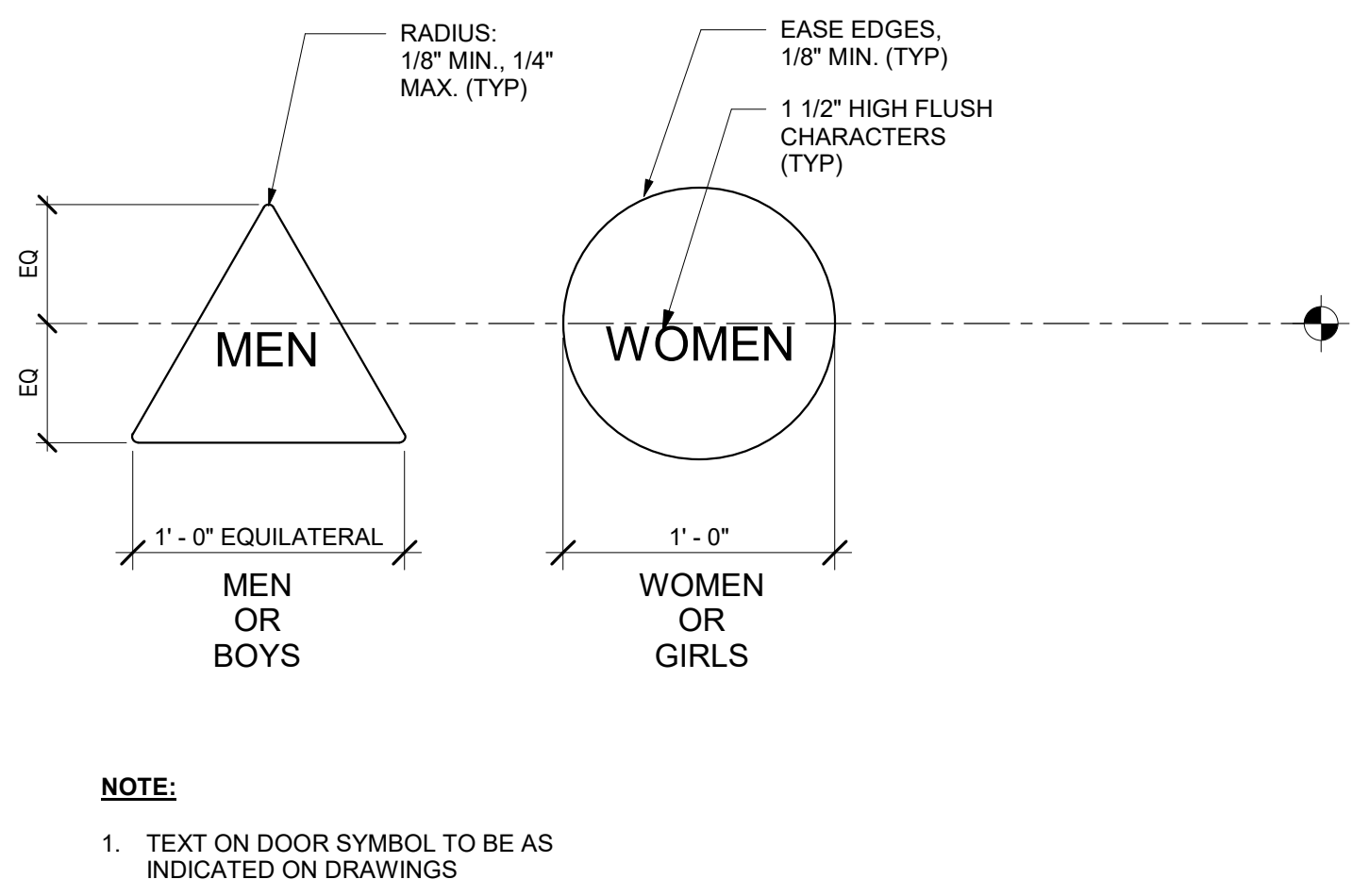


FIXTURE AND ACCESSORY HEIGHTS

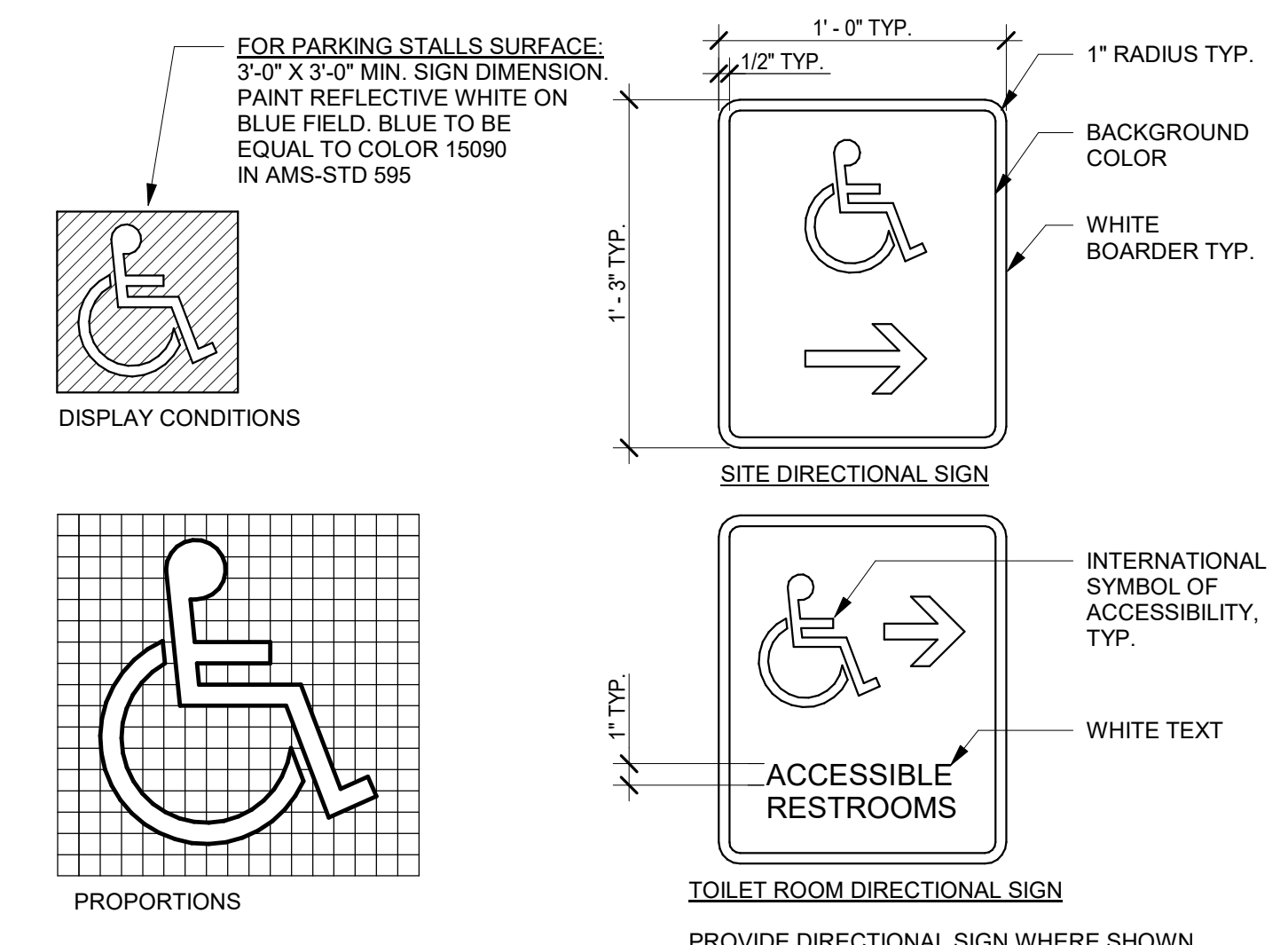


FURNITURE EQUIPMENT HEIGHTS

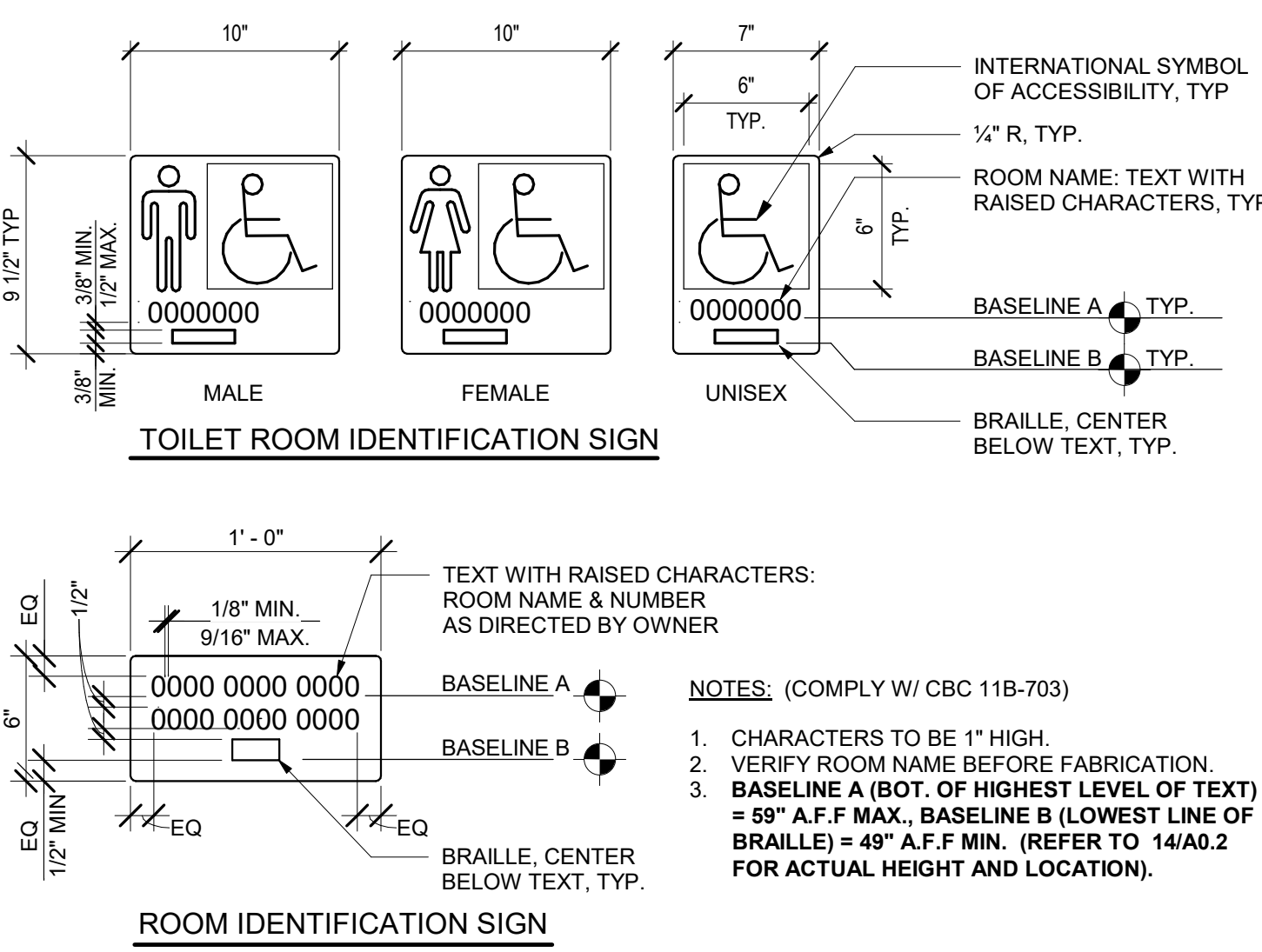
6 TYPICAL MOUNTING HEIGHTS AND DETAILS
1/4" = 1'-0"



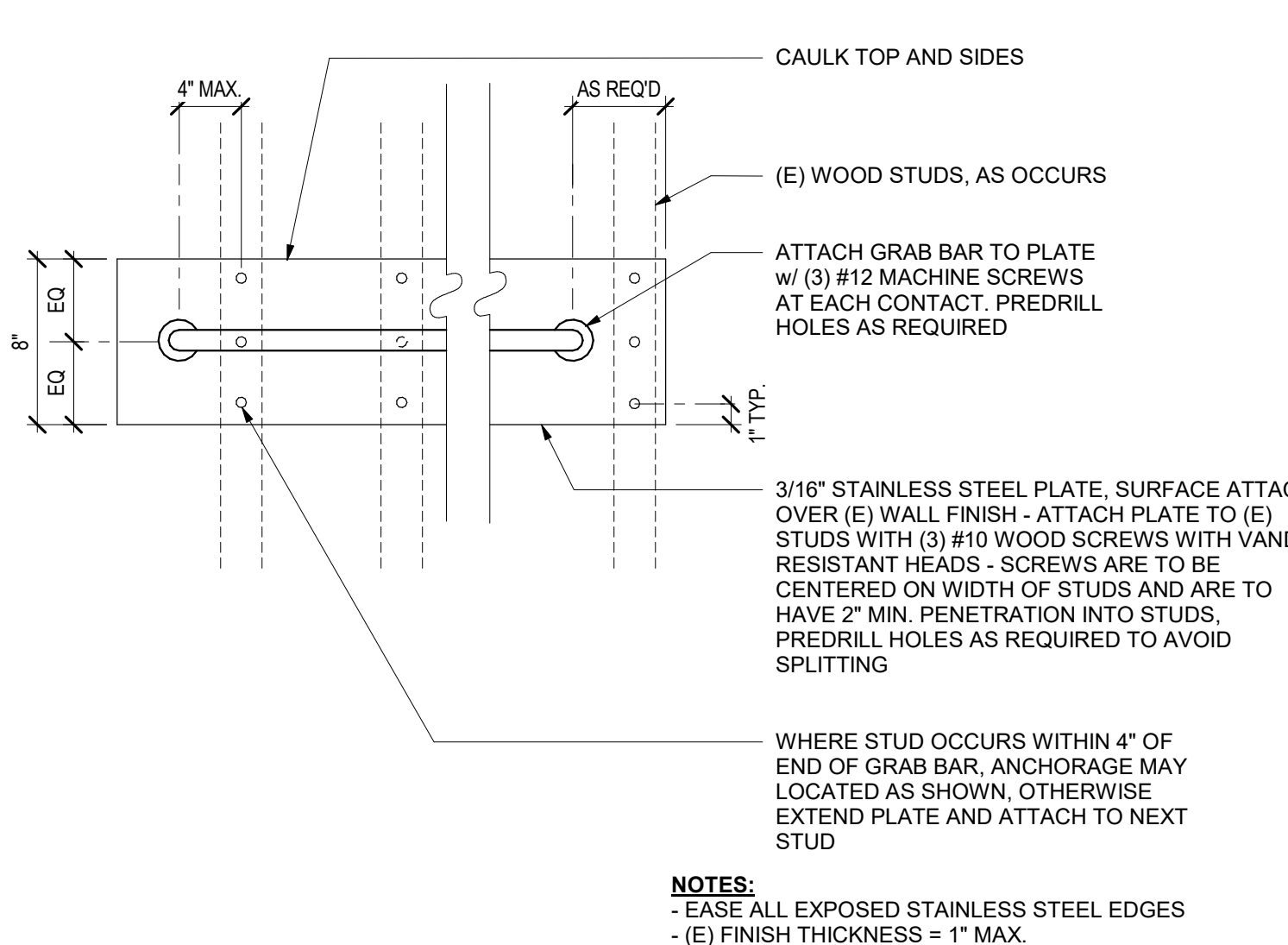
7 TOILET ROOM DOOR SYMBOLS
1 1/2" = 1'-0"



3 SYMBOL OF ACCESSIBILITY
NOT TO SCALE



8 IDENTIFICATION SIGNS
1 1/2" = 1'-0"



4 GRAB BAR - STAINLESS STEEL PLATE
1 1/2" = 1'-0"

GENERAL NOTES

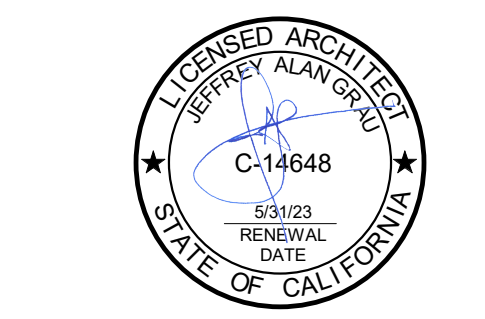
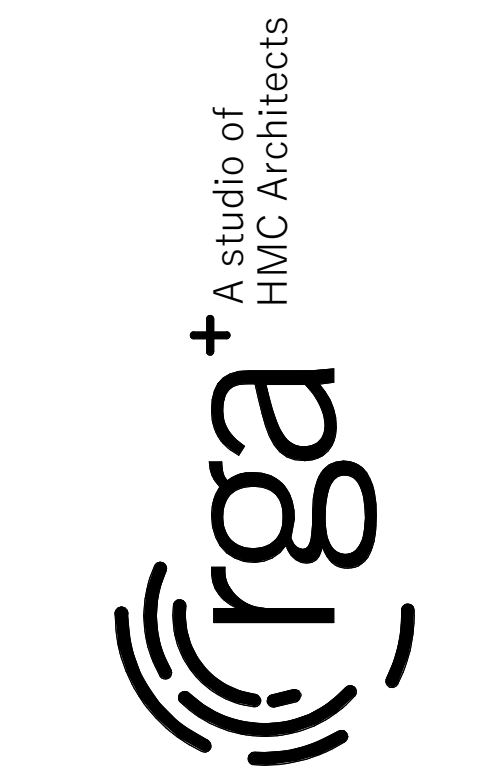
1. TYPICAL MOUNTING HEIGHTS AND DETAILS APPLY TO ENTIRE PROJECT, WHETHER REFERENCED OR NOT, UNLESS OTHERWISE NOTED.
2. ALL DISABLED ACCESSIBLE DIMENSIONS, ARE MAXIMUM DIMENSIONS UNLESS OTHERWISE NOTED.
3. HEIGHTS ARE MEASURED FROM FINISH FLOOR, UNLESS OTHERWISE NOTED.

SHEET NOTES

- SN.01 TO FACE OF FINISH
 SN.02 FACE OF OBJECTS OR WALLS
 SN.03 TOP OF GRAB BAR
 SN.04 AT ACCESSIBLE WATER CLOSETS, FLUSH CONTROL HANDLE SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET ENCLOSURE
 SN.05 FRONT EDGE OF WATER CLOSET.
 SN.06 TOP OF SEAT
 SN.07 MINIMUM KNEE CLEARANCE
 SN.08 MINIMUM APRON CLEARANCE
 SN.09 BOTTOM EDGE OF REFLECTIVE SURFACE
 SN.10 34" MAX. IF MIRROR IS NOT MOUNTED OVER A LAV. OR COUNTER; TOP OF MIRROR 74" MIN. FOR HIGH SCHOOL & ADULTS
 SN.11 PROVIDE AT ALL TOILET ROOM DOORS
 SN.12 CENTERLINE OF SYMBOL
 SN.13 CENTERLINE OF SIGN.

KEYNOTES

- 10.043 SIGNAGE: TOILET ROOM IDENTIFICATION
 10.051 SIGNAGE: TOILET ROOM DOOR SYMBOL
 10.122 TOILET ACCESSORY: GRAB BAR
 10.140 TOILET ACCESSORY: MIRROR
 22.040 WATER CLOSET



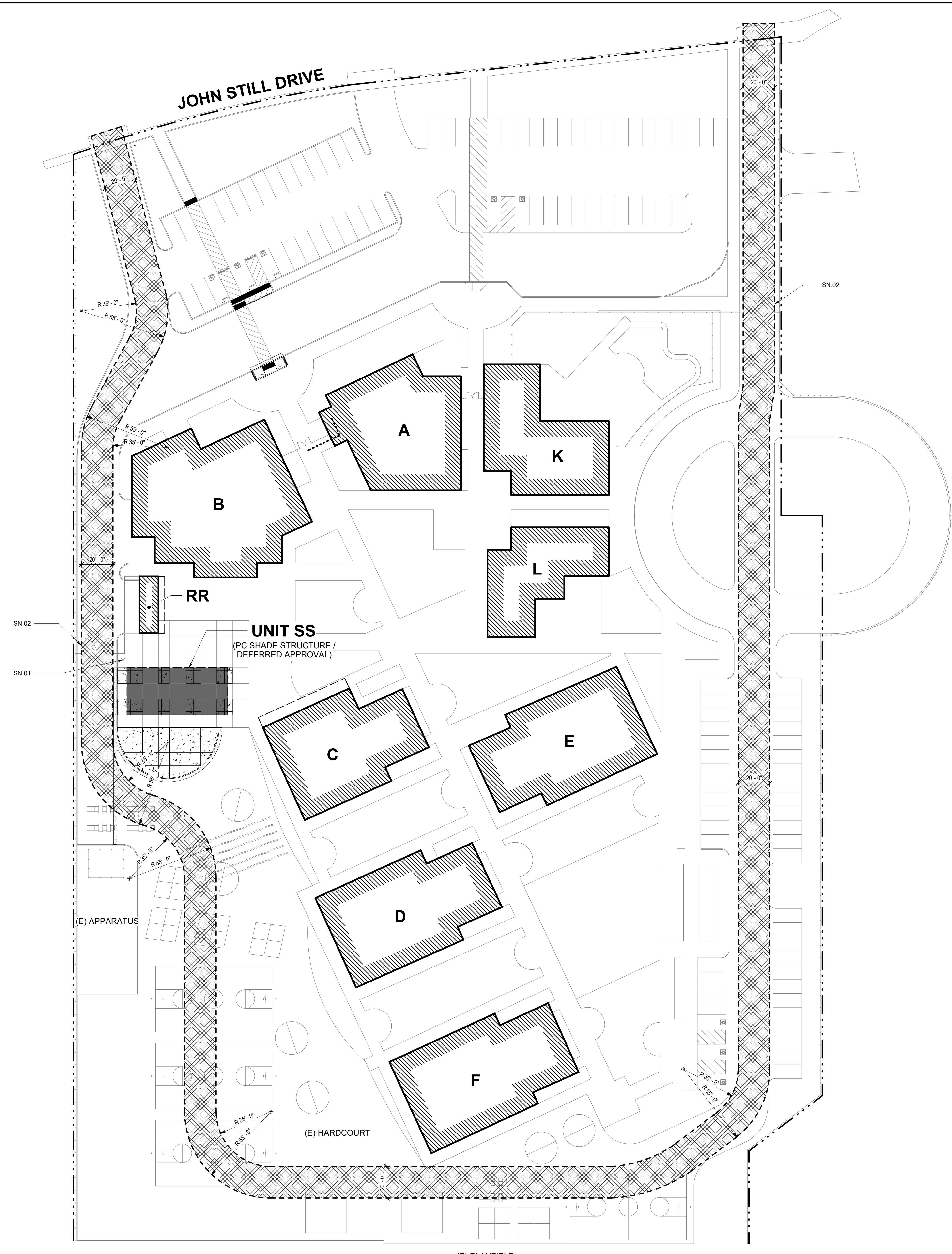
SHADE STRUCTURE AT JOHN STILL ELEMENTARY SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SCRAMENTO, CA

Revision

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TYPICAL MOUNTING HEIGHTS AND DETAILS

PROJECT NO. 1504.11
 DATE: 3/22/2022
 SHEET **A0.2**



DSA-810 FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

PROJECT INFORMATION
 School District: SACRAMENTO UNIFIED SCHOOL DISTRICT
 Project name / school: JOHN STILL SHADE STRUCTURE
 Project address: 2200 JOHN STILL DR, SACRAMENTO, CA 95832

FIRE & LIFE SAFETY INFORMATION

	ALTERNATE ACCEPTED
	Yes No N/A NIR
1. Has a fire hydrant flow test been performed within the past 12 months? (If yes, provide a copy of the test data)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
2. Was the fire hydrant water flow test performed as part of this LFA review? (If yes, provide a copy of the test data)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
3. Is the project located within a designated fire hazard severity zone as established by Cal-Fire? (If yes, indicate fire hazard zone classification below)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Refer to the following for fire hazard zone locations: www.fire.ca.gov/fire_prevention/fire_prevention_wildland_zones_maps Moderate <input type="checkbox"/> High <input type="checkbox"/> Very High <input type="checkbox"/> Wildland Interface Area (WIFA) <input type="checkbox"/> WIFA <input type="checkbox"/> (If any designations are checked, project design must meet the requirements of CBC Chapter 7A)	

CONDITION MEANS AND METHODS RESOLUTION

	ALTERNATE ACCEPTED
	Yes No N/A NIR
4. Emergency vehicle access roadways do not meet CFC requirements	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> NIR <input type="checkbox"/>
4a. Acceptable Alternative: Emergency vehicle and personal access as proposed by the architect is acceptable for providing fire suppression and protection of life and property	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> NIR <input type="checkbox"/>
5. Fire Hydrants: Number and spacing does not meet CFC requirements	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> NIR <input type="checkbox"/>
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	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> NIR <input type="checkbox"/>
6. Fire Hydrants: Water flow and pressure are less than CFC minimum.	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> NIR <input type="checkbox"/>
6a. Acceptable Alternative: The available flow and pressure is acceptable for providing fire suppression and protection of life and property.	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> NIR <input type="checkbox"/>
7. Location of fire department connection(s) serving fire sprinkler system or standpipe system does not meet CFC requirements.	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> NIR <input type="checkbox"/>
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.	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> NIR <input type="checkbox"/>

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

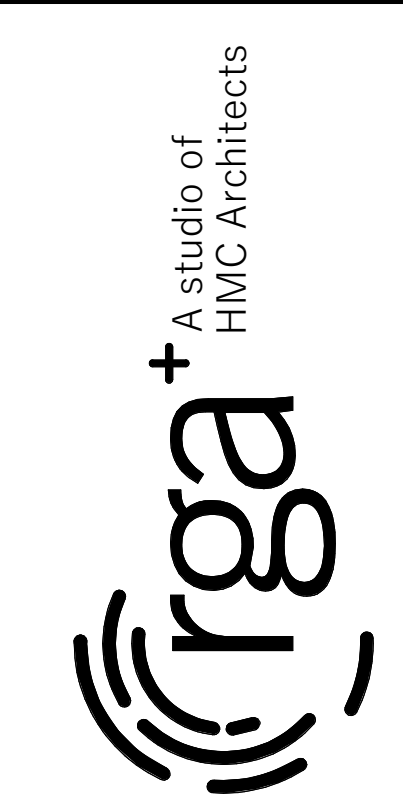
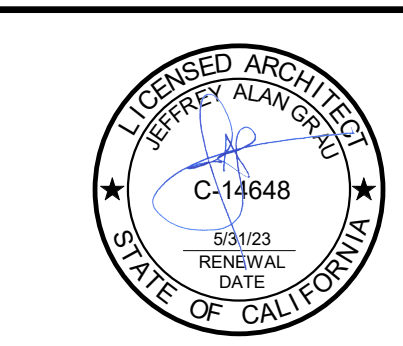
Accepted by: _____ Title: _____
 Signature: _____ Date: _____

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

- LEGEND**
- PROPERTY LINE
 - X UNIT DESIGNATION SHADE STRUCTURE
 - ▨ UNIT DESIGNATION EXISTING BUILDINGS
 - ▨ CONCRETE WALK / PAVING
 - ▨ ASPHALT CONCRETE PAVING
 - ▨ (E) EMERGENCY ACCESS LANE
 - ▨ (E) CHAIN LINK FENCE
 - ⊕ (E) FIRE HYDRANT (NTS)

- SHEET NOTES**
- SN.01 (E) FIRE HYDRANT
 - SN.02 (E) 20'-0" WIDE GATE WITH KNOX LOCK BOX

- BUILDING DESIGNATIONS**
- UNIT A - ADMINISTRATION
 - UNIT B - MULTIPURPOSE
 - UNIT C - CLASSROOMS
 - UNIT D - CLASSROOMS
 - UNIT E - CLASSROOMS
 - UNIT F - CLASSROOMS
 - UNIT K - CLASSROOMS
 - UNIT L - LIBRARY
 - UNIT RR - TOILET ROOMS

SHADE STRUCTURE AT JOHN STILL ELEMENTARY SCHOOL

**SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA**

Revision

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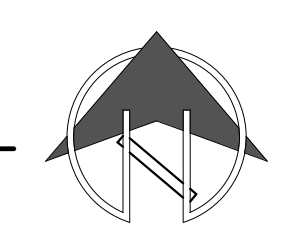
LOCAL FIRE AUTHORITY SITE PLAN

SEE OTHER SHEETS FOR CONSTRUCTION

THIS PLAN INCLUDES INFORMATION FOR LOCAL FIRE AUTHORITY APPROVAL ONLY. REFER TO OTHER SHEETS FOR SITE CONSTRUCTION DETAILS.

PROJECT NO.	1504.11
DATE:	3/22/2022
SHEET	A0.7

1 LOCAL FIRE AUTHORITY PLAN
 1" = 30'-0"



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EXISTING TOPOGRAPHY

- = PROPERTY LINE
- - - = CENTERLINE
- - - = EASEMENT
- ⊙ = PROPERTY CORNER FOUND AS NOTED
- ⊙ = PROPERTY CORNER NOTHING FOUND OR SET
- ⊙ = 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
- 99.99 = 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
- HDPE = 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

TBM LIST

NUMBER	DESCRIPTION	NORTHING	EASTING	ELEV
11	CPS CHISELED "+"	10163.27	9873.44	16.90
12	CPS CHISELED "+"	9863.38	9830.18	18.29
13	CPS CHISELED "+"	9998.29	9841.88	18.58
14	CPS CHISELED "+"	10383.07	9881.18	17.13
16	CPS CHISELED "+"	10171.85	9723.42	17.99
17	CPS CHISELED "+"	10183.21	9613.11	17.87
18	CPS CHISELED "+"	10189.59	9475.66	16.83
19	CPS CHISELED "+"	10360.14	9507.10	16.54

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 RELIEF VALVE
 - ASB AGGREGATE SUB-BASE
 - BO BLOW-OFF VALVE
 - BV BUTTERFLY VALVE
 - BW BACK OF WALK
 - C/L CENTERLINE
 - CB CATCH BASIN
 - CL CLASS
 - CM 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
 - DJ DROP INLET
 - DIA DIAMETER
 - DIP DUCTILE IRON PIPE
 - DWG DRAWING
 - EW EASEMENT
 - 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
 - GR GRATE ELEVATION
 - GRD GRADE ELEVATION
 - GV GATE VALVE
 - HB HOSE BIBB
 - HBD HEADER BOARD
 - HDPE HIGH DENSITY POLYETHYLENE PIPE
 - HP HIGH POINT
 - NW PIPE INVERT ELEVATION
 - JP JOINT UTILITY POLE
 - LF LINEAL FEET
 - LIP LIP OF GUTTER
 - LT LEFT
 - MS MOWSTRIP
 - NTS NOT TO SCALE
 - CH OVERHEAD
 - PCC PORTLAND CEMENT CONCRETE
 - PD PLANTER DRAIN
 - PV POST INDICATOR VALVE
 - PL 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
 - ST STANDARD
 - SCH SCHEDULE
 - SD STORM DRAIN
 - SDMH STORM DRAIN MANHOLE
 - SG SUBGRADE ELEVATION
 - SS SANITARY SEWER
 - SSMH SANITARY SEWER MANHOLE
 - STD STANDARD
 - S/W SIDEWALK
 - TELEPHONE 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
 - UJ UNDERGROUND 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)
 - STORM DRAIN CLEANOUT
 - 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:**
- 8" SS SANITARY SEWER LINE (SIZE AND FLOW SHOWN)
 - SANITARY SEWER MANHOLE (SSMH)
 - 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
 - WATER METER
 - FIRE HYDRANT ASSEMBLY
 - FIRE DEPARTMENT CONNECTION
 - DETECTOR CHECK VALVE
 - DOUBLE DETECTOR CHECK VALVE
 - REDUCED PRESSURE BACKFLOW PREVENTER
 - BUTTERFLY VALVE
 - AIR RELEASE VALVE + SIZE
 - BLOW-OFF VALVE + SIZE
 - POST INDICATOR VALVE

DEMOLITION GENERAL NOTES

- 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.
- NO BURNING OR BLASTING SHALL BE PERMITTED.
- ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.
- ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.
- ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.
- 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 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.
- 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 EXTENT.
- EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REPLACED WITH NEW BOX/COVER AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
- ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
- 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

- 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.
- WARREN CONSULTING ENGINEERS, INC. (WCE) ASSUMES NO RESPONSIBILITY FOR ERRORS IN PHYSICAL LOCATION OF IMPROVEMENTS, HORIZONTAL OR VERTICAL. 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.
- 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.
- 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.
- 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.
- 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 CONTRACTOR'S RESPONSIBILITY TO DETERMINE, AND INCLUDE IN HIS/HER CONTRACT, ALL MEANS AND METHODS NECESSARY TO PERFORM A COMPLETE AND ACCEPTABLE JOB.
- WHERE IMPROVEMENTS LIE WITHIN AN EXISTING DEVELOPED AREA, CONTRACTOR SHALL USE CAUTION WHEN ACCESSING THE SITE THROUGH THESE EXISTING IMPROVEMENTS. IT IS THE CONTRACTOR'S 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.
- 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.
- 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 CLEAR EDGE OR PATCH BAG, IF EDGE IS DAMAGED, A NEW SAW CUT WILL BE REQUIRED. THE EXPOSED EDGE SHALL BE "TACKED" WITH EMULSION PRIOR TO PAVING.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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 ALLOW FOR SUCH STRUCTURE. THAT REBAR ADJUSTMENT MAY NOT BE SPECIFICALLY SHOWN ON PLANS.
- 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.
- 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.
- 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.
- ANY SCORED BOARDS SET WITHIN CONCRETE SLABS SHALL BE AN "OVERHEAD SCREED" SO THERE IS NO INTERFERENCE WITH THE PLACEMENT AND ALIGNMENT OF SLAB REINFORCING.
- 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.
- 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.
- 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.
- 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:

- 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.
- 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

- C0.1 CIVIL GENERAL NOTES AND ABBREVIATIONS
- C1.1 DEMOLITION PLAN
- C2.1 GRADING AND PAVING PLAN



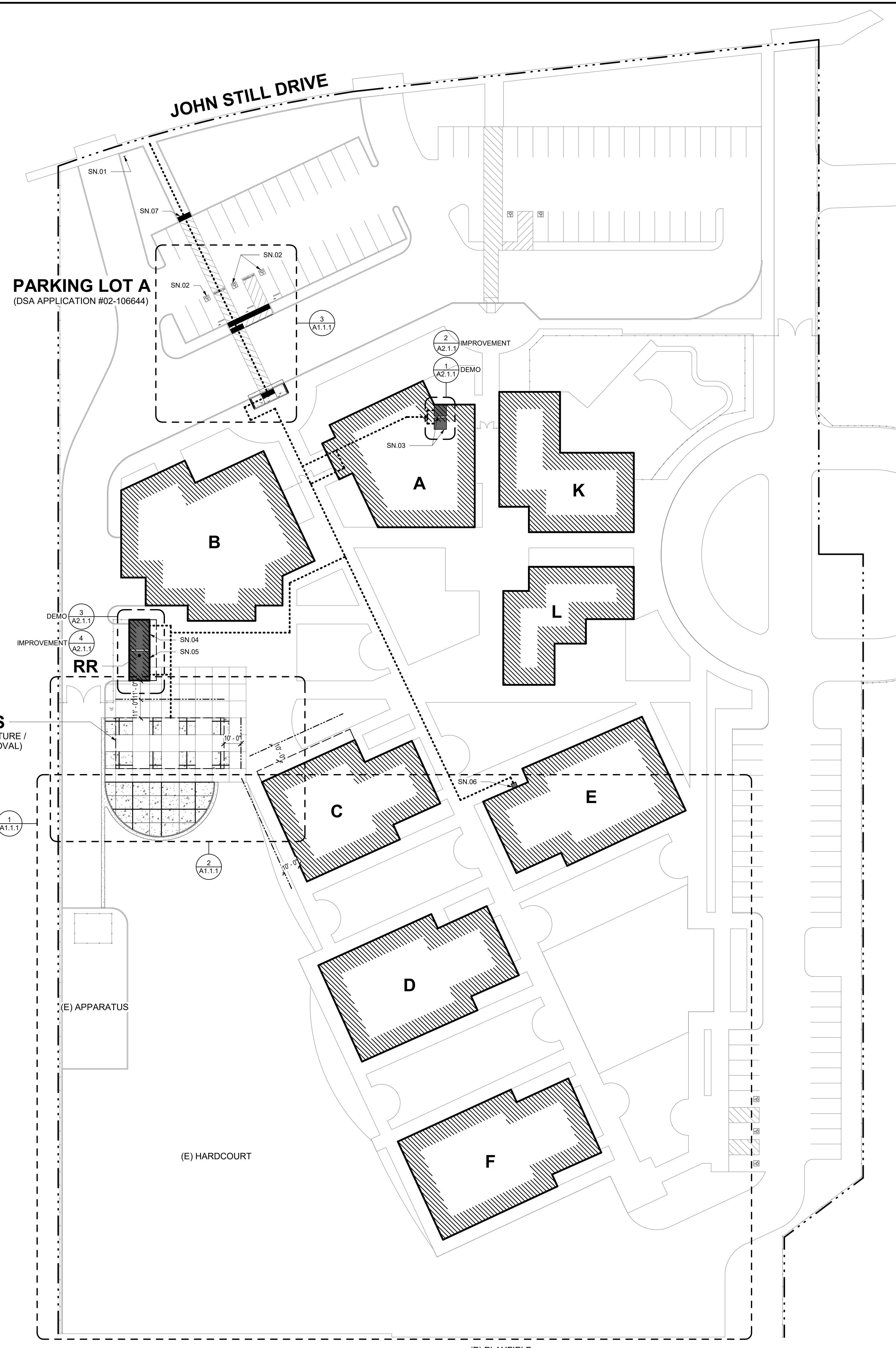
SHADE STRUCTURE AT JOHN STILL ELEMENTARY SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

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CIVIL GENERAL NOTES AND ABBREVIATIONS

PROJECT NO. 1504.11
 DATE: 3/21/2022
 SHEET

C0.1



PROPOSED SHADE STRUCTURE					
UNIT	DESCRIPTION	OCCUPANCY	CONSTRUCTION TYPE	ALLOWABLE AREA (TABLE 506.2)	OCCUPANCY CALCULATION
SS	SHADE STRUCTURE	A-3	V-B NON-SPRINKLERED	6,000 S.F.	1,920 S.F. / 15 NET = 128 OCC.

EXISTING BUILDING DESIGNATIONS				
UNIT	DESCRIPTION	DSA APPLICATION #	AREA (SF)	NOTES
A	ADMINISTRATION	02-106644, THIS APPLICATION	5,655	
B	MULTIPURPOSE	02-106644	8,163	
C	CLASSROOMS	02-106644	5,131	
D	CLASSROOMS	02-106644	6,046	
E	CLASSROOMS	02-106644	6,155	
F	CLASSROOMS	02-106644	6,276	
K	CLASSROOMS	02-106644	4,759	
L	LIBRARY	02-106644	3,612	
RR	TOILET ROOMS	02-106644, THIS APPLICATION	432	

EXISTING PATH OF TRAVEL (POT): ARCHITECT STATEMENT

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE IN CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION 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 POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT 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 PROJECTS WORK THROUGH DETAILS, DRAWINGS, AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS.

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

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NON-COMPLYING 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.

ACCESSIBLE PARKING STALL CALCULATION	
TOTAL PARKING STALL COUNT:	28 STALLS
ACCESSIBLE PARKING STALLS:	(TABLE 11B-208.2)
REQUIRED ACCESSIBLE STALLS:	2 (26-50 TOTAL STALLS)
REQUIRED VAN ACCESSIBLE STALLS:	1 (1-6 ACCESSIBLE STALLS)
ACCESSIBLE STALLS PROVIDED:	2 STANDARD & 1 VAN

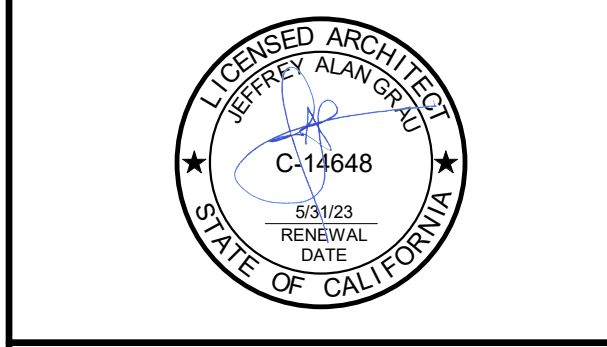
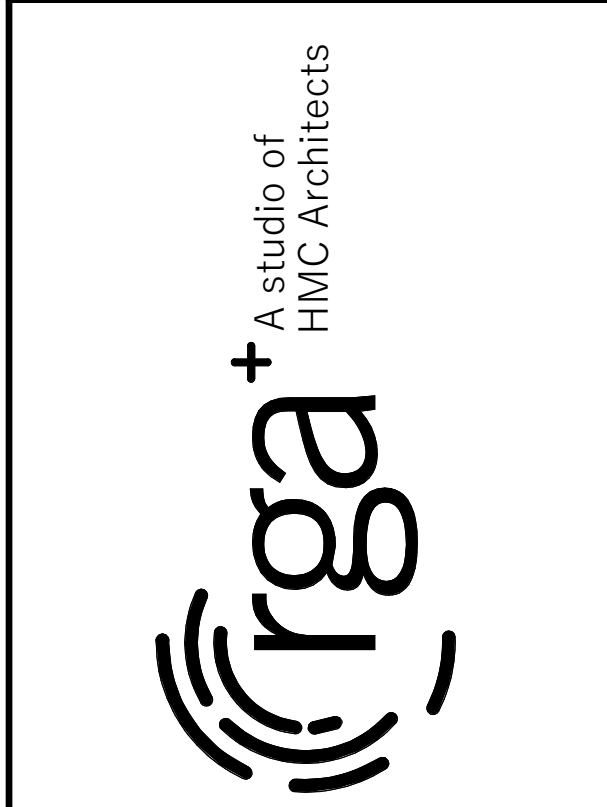
LEGEND

- PROPERTY LINE
- ASSUMED PROPERTY LINE
- UNIT DESIGNATION
- PC SHADE STRUCTURE / DEFERRED APPROVAL
- EXISTING BUILDINGS
- EXPANSION JOINT
- CONCRETE WALK / PAVING
- CONTROL JOINT
- ASPHALT CONCRETE PAVING
- ACCESSIBLE PATH OF TRAVEL

- SITE WALKWAYS SHALL PROVIDE A BARRIER-FREE P.O.T. ABRUPT CHANGES IN LEVEL ALONG ANY P.O.T. ARE ALLOWED UP TO 1/2" ONLY. ABRUPT CHANGES IN ELEVATION UP TO 1/4" ARE ALLOWED TO HAVE A VERTICAL TRANSITION. ABRUPT CHANGES IN ELEVATION BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:1. UNIT VERTICAL TO 2 UNITS HORIZONTAL.
- WALKWAYS SHALL BE FREE OF GRATINGS WHEREVER POSSIBLE. GRATINGS WHICH OCCUR WITHIN THE P.O.T. SHALL HAVE OPENINGS WHICH DO NOT EXCEED 1/2" IN THE DIRECTION OF TRAVEL PER CBC SECTION 11B-302.3.
- AN ABRUPT DROP-OFF CHANGE IN ELEVATION AT THE EDGE OF ANY WALK INTO AN ADJACENT PLANTER SHALL NOT EXCEED 4".
- SLOPES IN THE DIRECTION OF THE P.O.T. GREATER THAN 1:1 UNIT VERTICAL TO 20 UNITS HORIZONTAL SHALL BE CONSIDERED A RAMP AND WILL REQUIRE HANDRAILS ON BOTH SIDES PER CBC SECTION 11B-506. SLOPES IN THE DIRECTION OF THE P.O.T. ALONG WALKWAYS SHALL NOT EXCEED 5%. CROSS SLOPES IN THE P.O.T. ALONG WALKWAYS SHALL NOT EXCEED 2%.
- ALL WALKWAYS WITHIN THE P.O.T. SHALL BE A MINIMUM OF 48" IN WIDTH. SURFACES WITH A SLOPE OF 5% OR LESS SHALL BE AT LEAST AS SLIP-RESISTANT AS THAT PROVIDED BY A LIGHT BROOM FINISH. SURFACES WITH A SLOPE OF MORE THAN 5% SHALL BE AT LEAST AS SLIP-RESISTANT AS THAT PROVIDED BY A MEDIUM BROOM FINISH.
- OBJECTS PROTRUDING INTO THE P.O.T. SHALL NOT REDUCE THE CLEAR WIDTH OR MANEUVERING SPACE WITHIN THE P.O.T. PER CBC SECTION 11B-307.
- PASSING SPACES (11B-403.5.3) OF 60" X 60" MIN. ARE LOCATED NOT MORE THAN 200' APART. WALKS WITH CONTINUOUS GRADIENTS SHALL HAVE 60" IN LENGTH LEVEL RESTING AREAS (11B-403.7) NOT MORE THAN 400' APART. P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MIN (11B-307.4) AND FREE OF PROTRUDING OBJECTS (11B-307) GREATER THAN 4" PROJECTION FROM WALL ABOVE 27" AND LESS THAN 80". OBJECTS PROTRUDING INTO THE P.O.T. SHALL NOT REDUCE THE CLEAR WIDTH OR MANEUVERING SPACE REQUIRED FOR ACCESSIBLE ROUTES (11B-307.5).

- SHEET NOTES**
- SN.01 PARKING LOT ENTRANCE SIGN PER THIS APPLICATION. SEE 12 A1.1.1
 - SN.02 (E) ACCESSIBLE PARKING STALLS PER DSA APPLICATION #02-106644
 - SN.03 (E) ACCESSIBLE STAFF TOILET ROOM UPGRADED PER THIS APPLICATION
 - SN.04 (E) ACCESSIBLE GIRL'S TOILET ROOM UPGRADED PER THIS APPLICATION
 - SN.05 (E) ACCESSIBLE BOY'S TOILET ROOM UPGRADED PER THIS APPLICATION
 - SN.06 (E) ACCESSIBLE DRINKING FOUNTAIN PER DSA APPLICATION #02-106644
 - SN.07 TRUNCATED DOMES, PER CIVIL

1 SITE PLAN
1" = 30'-0"



SHADE STRUCTURE AT JOHN STILL ELEMENTARY SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision

SITE PLAN AND CODE INFORMATION

PROJECT NO. 1504.11
DATE: 3/22/2022
SHEET 1504.11

C:\Users\m\Documents\1504.11_SitePlan\Drawings\sheet1504.11.dwg

ABBREVIATION LIST

A AMPERE
 AC ALTERNATING CURRENT
 A/C AIR CONDITIONING
 AER ARC ENERGY REDUCTION
 AF AMP FRAME
 AFF ABOVE FINISHED FLOOR
 AIC AMPERES INTERRUPTING CAPACITY
 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
 ENT ELECTRICAL METALLIC TUBING
 EQ END OF LINE DEVICE
 EQUIP EQUIPMENT
 (ER) EXISTING RELOCATED
 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
 FLR FLOOR
 FT FOOT
 GA GAUGE
 GFCI GROUND FAULT CIRCUIT INTERRUPT
 GLZ GENERAL LIGHTING ZONE
 GND GROUND
 GP GAS PIPE
 GYP GYPSUM
 HID HIGH INTENSITY DISCHARGE
 HT HORSE POWER
 HT HEIGHT
 HERTZ
 IMC INTERMEDIATE METALLIC CONDUIT
 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
 MPEE 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
 ON CENTER
 OC, OFCI OWNER FURNISHED, CONTRRACTOR 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) RELOCATE / 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
 TMB TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
 TTB TELEPHONE TERMINAL BOARD
 TYP TYPICAL
 UC UNDERGROUND
 UNLESS OTHERWISE NOTED
 V VOLTS
 WP WEATHERPROOF
 W WEIGHT
 W WATT
 W/ WITH
 XFRM TRANSFORMER
 & AND

GENERAL NOTES

- 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.
- ALL WORK SHALL BE DONE AT SUCH TIME AND IN SUCH MANNER AS PRESCRIBED BY THE SCHOOL'S REPRESENTATIVE.
- PROTECT EXISTING EQUIPMENT AND FURNISHINGS FROM ANY DAMAGE DUE TO DUST, MOISTURE OR CONTACT WITH WORK CREW OR MATERIALS.
- 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.
- 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.
- CORE BORE SHALL BE 1" DIAMETER LARGER THAN EACH CONDUIT. SPACE CONDUIT HOLES 3" APART. SEAL AROUND CONDUIT WITH NON-SHRINK, NON-METALLIC GROUT.
- ALL CONDUCTORS INSTALLED IN PANELBOARDS SHALL BE TRAINED, LACED, AND INSTALLED WITH PHASE TAPE ON ALL CONDUCTORS.
- LABEL DEVICES (I.E. RECEPTACLES, ETC.) ON EACH COVER PLATE IDENTIFYING CIRCUIT AND PANEL DEVICE IS CONNECTED TO.
- 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.
- FIELD COORDINATE DEVICE LOCATIONS PRIOR TO ROUGH-IN.
- 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 LABELS BY BRADY, MODEL NO. 101517, OR EQUAL, ON ALL EQUIPMENT.
- 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.
- SUPPORT ENCLOSURES, BOXES AND CONDUIT INSTALLATIONS PER CEC 314.23 (A) THROUGH (H).
- 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.
- 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.
- 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-ZN 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.
- 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.
 17.1. 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.
- COORDINATE EQUIPMENT LOCATIONS, CONTROL AND POWER WIRING REQUIREMENTS AND CONNECT POINTS WITH ALL APPLICABLE DISCIPLINES.
- PROVIDE AND INSTALL FUSES PER UNIT NAMEPLATE DATA ON THE EQUIPMENT PROVIDED.
- A LAMINATED COPY OF THE FINAL RECORD ONE LINE DIAGRAM SHALL BE PLACED IN ELEC ROOM.
- PROVIDE WRING DEVICES AND COVER PLATES IN COLOR(S) SELECTED BY ARCHITECT. THE COLOR OF THE WRING DEVICE AND COVER PLATE SHALL BE THE SAME UNLESS SPECIFICALLY NOTED OTHERWISE.
- RECEPTACLE WEATHERPROOF COVERS SHALL BE LISTED "EXTRA DUTY", LOCKABLE, METAL, IN-USE TYPE.
- 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.
- FOR ROOF PENETRATIONS, REFER TO ARCHITECTURAL PLANS FOR INSTALLATION REQUIREMENTS.
- FOR WALL PENETRATION INSTALLATIONS, REFER TO ARCHITECTURAL PLANS FOR REQUIREMENTS.
- PROVIDE "LOOK-ON" DEVICE FOR ALL CIRCUIT BREAKERS ON EMERGENCY DEDICATED CIRCUITS.
- 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.
- MAINTAIN A MINIMUM OF 12" SEPARATION BETWEEN ANY CONDUIT AND (E) UTILITY CONDUIT.
- 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 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30:

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 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.
- 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:

- 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.
- 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 2019 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., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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 OSHPD PRE-APPROVAL (OPM #) #_____

SYMBOLS LIST

- FUSED DISCONNECT SWITCH
- DUPLEX CONVENIENCE OUTLET
- DOUBLE DUPLEX CONVENIENCE OUTLET
- GROUND FAULT CIRCUIT INTERRUPTER DUPLEX OUTLET
- GROUND FAULT CIRCUIT INTERRUPTER 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
- TERMINAL CABINET, RECESSED MOUNTED
- TERMINAL CABINET, SURFACE MOUNTED
- 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.
- SYMBOLS REFERRING TO KEYED NOTES ON SAME SHEET
- MECHANICAL EQUIPMENT BY OTHERS, CONNECTED BY ELECTRICAL CONTRACTOR
- DETAIL DESIGNATION, "A"-1 SIGNIFIES DETAIL, "E"-1 SIGNIFIES SHEET NUMBER
- (1)1-1/2" ← INDICATES SIZE OF CONDUIT = ONE AND ONE HALF INCH CONDUIT
- ← NUMBER WITHIN PARENTHESIS INDICATES QUANTITY OF CONDUITS

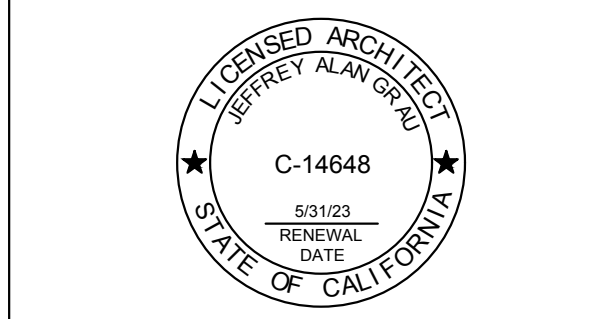
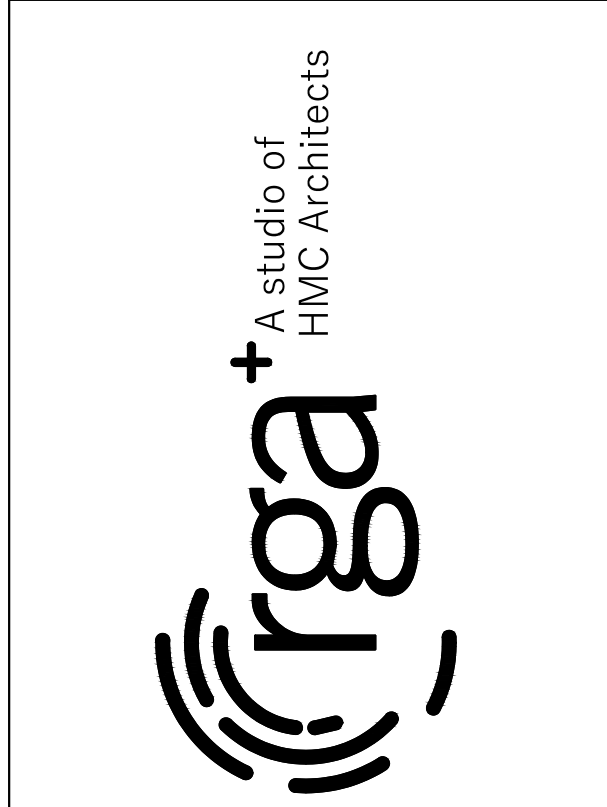
SYMBOLS LIST NOTES:

- MOUNT SWITCH BOXES AT +48" TO TOP OF BOX UNLESS OTHERWISE NOTED.
- MOUNT OUTLET BOXES AT +15" TO BOTTOM OF BOX UNLESS OTHERWISE NOTED.
- "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:
 - +48" MAX TO TOP OF BOX WHERE BOX IS INSTALLED OVER BASE CABINET.
 - +44" MAX TO TOP OF BOX WITH OPEN COUNTERS WITH FORWARD APPROACH.
- OUTLET BOXES SHALL BE:
 - WALL MOUNTED - 4" SQ. x 2-1/8" DEEP MINIMUM
 - CEILING MOUNTED - 4" SQ. OR 4" OCT. x 2-1/8" DEEP MINIMUM
- OUTLET BOXES REQUIRING 1-1/4", 1-1/2" OR 2" CONDUITS SHALL BE 4-11/16" x 3-1/4" DEEP MINIMUM.
- FLUSH MOUNTED OUTLET BOXES SHALL UTILIZE TRIM RINGS. COORDINATE TRIM RING DEPTH WITH WALL FINISH PRIOR TO ROUGH-IN.
- NO CROSSBARS ON CONDUIT RUN INDICATES MINIMUM 1" CONDUIT. TWO #10 CU CONDUCTORS PLUS #10 CU GND. CROSSBARS INDICATE NUMBER OF #10 CU CONDUCTORS IN CONDUIT. CONDUCTOR SIZES OTHER THAN #10 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.
- 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.
- INSTALL CU GROUND CONDUCTOR IN ALL BRANCH CIRCUITS FOR LIGHT FIXTURES AND POWER DEVICES.

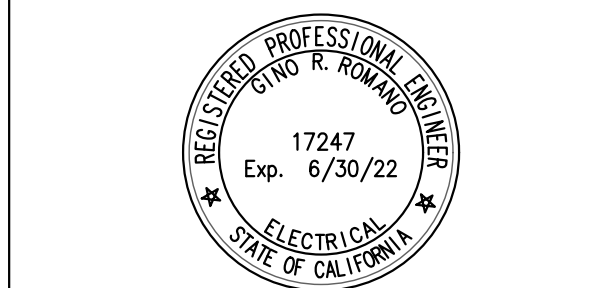
120V BRANCH CIRCUIT VOLT DROP CONDUCTOR LENGTH CHART

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

- NOTES
- THIS CHART IS FOR COPPER CONDUCTORS ONLY.
 - THIS CHART ASSUMES AN 80% POWER FACTOR AND STEEL RACEWAYS.
 - 2019 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.
 - USE WIRE SIZE FROM THIS CHART UNLESS LARGER CONDUCTOR SIZES ARE NOTED ON THE DRAWINGS.
 - FOR VA VALUES NOT SHOWN USE NEXT HIGHEST VALUE FROM THE CHART



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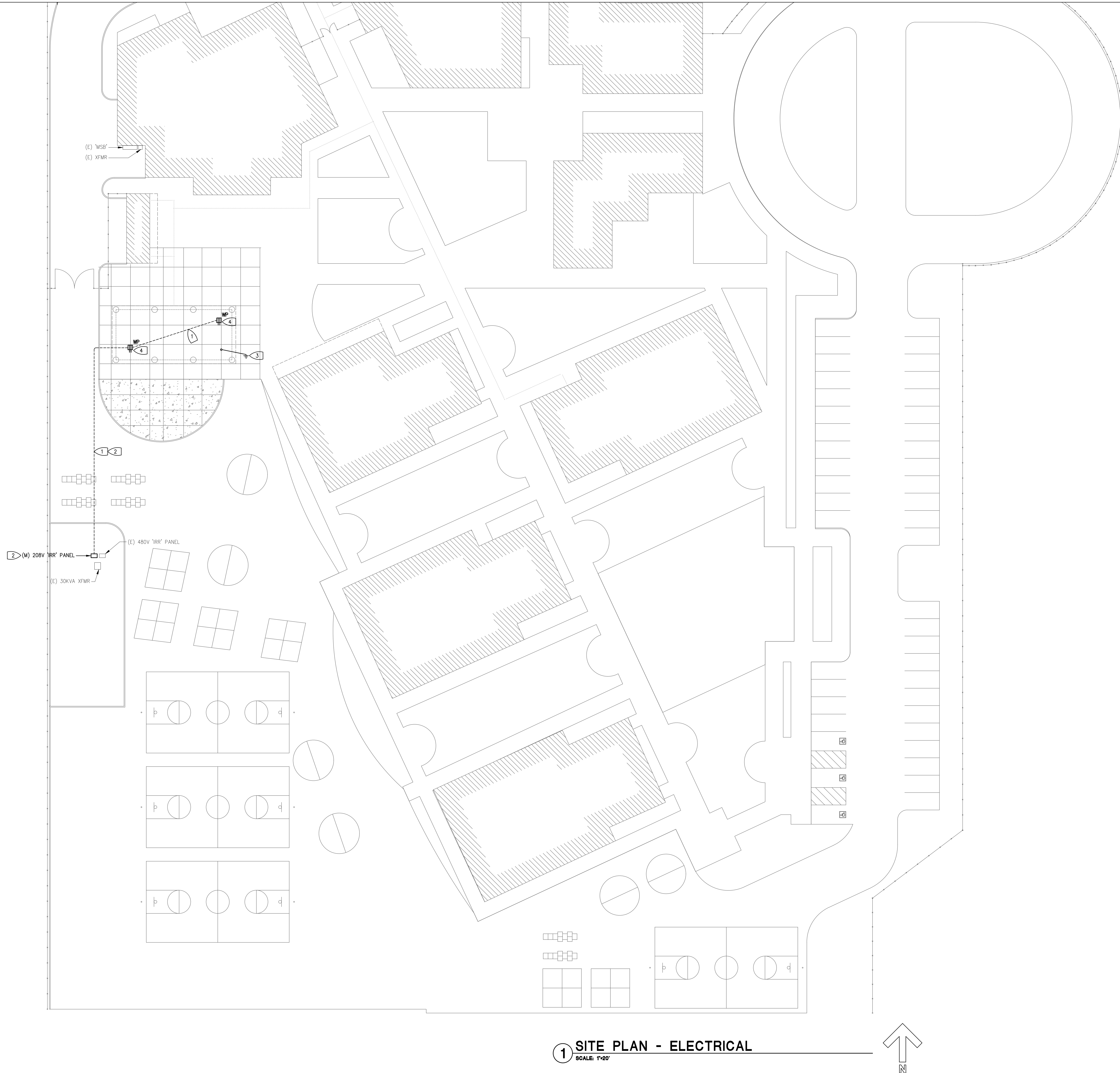
SHADE STRUCTURE AT JOHN STILL ELEMENTARY SCHOOL
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
 SACRAMENTO, CA

Revision

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SYMBOLS, NOTES

PROJECT NO. 1504.11
 DATE: 3/21/2022
 SHEET

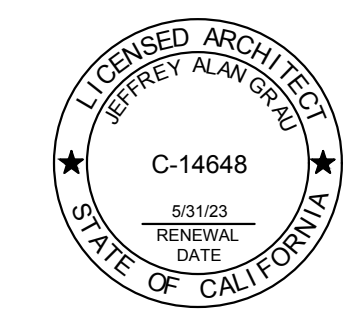


SHEET NOTES:

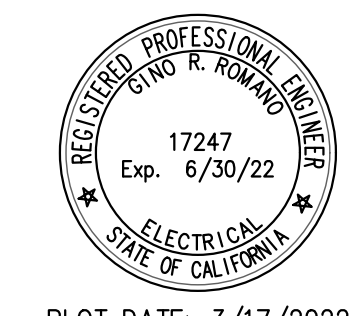
1. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DRAWINGS AND LIMITED SITE SURVEYS, AND SHOWN FOR CLARITY ONLY. SEE ONE LINE DIAGRAM AND PANEL SCHEDULE ON SHEET **E2.1** FOR REFERENCE.

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) CONCRETE/ASPHALT. PROVIDE SAND TO COVER CONDUIT TO SIX(6) INCHES, THEN ADD TRACER TAPE. COMPLETE BACKFILL TO GRADE WITH NATIVE SOIL. COMPACT IN SIX(6) LIFTS. FINISH TO MATCH EXISTING. SEE DETAIL **3/E3.1**.
2. SUPPORT CONDUIT WITH (E) UNISTRUT STRUCTURE AND DROP CONDUIT TO BELOW CONCRETE/ASPHALT. PROVIDE CHRISTY NO PULL BOX WITH FIVE(5) FT OF SHADE STRUCTURE. TRENCH TO SHADE LOCATION, INTERCEPTING THE CHRISTY BOX ALONG THE WAY. CHRISTY BOX TO HAVE HOLD DOWN BOLTS AND BE LABELED FOR POWER. PAINT EXPOSED CONDUIT TO MATCH (E) FINISH.
3. PROVIDE AT MINIMUM TWO(2) GROUND RODS, EACH 5/8" BY TEN(10) FEET LONG, CU, AT LEAST TEN(10) FEET APART. BOND TO METAL OF SHADE STRUCTURE. SEE DETAIL **5/E3.1**.
4. LOCKABLE, WEATHERPROOF RECEPTACLE TO HAVE A TWO-GANG BACK BOX WITH 1" THREADED PORT. MOUNT RECEPTACLES 36" ABOVE GRADE UNLESS SPECIFIED OTHERWISE. SEE DETAIL **4/E3.1**.



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**SHADE STRUCTURE AT JOHN STILL
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 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
 SACRAMENTO, CA

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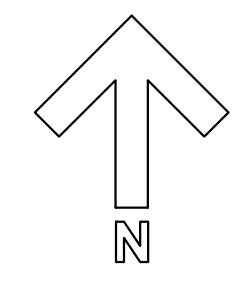
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**SITE PLAN -
 ELECTRICAL**

PROJECT NO. 1504.11
 DATE: 3/21/2022
 SHEET

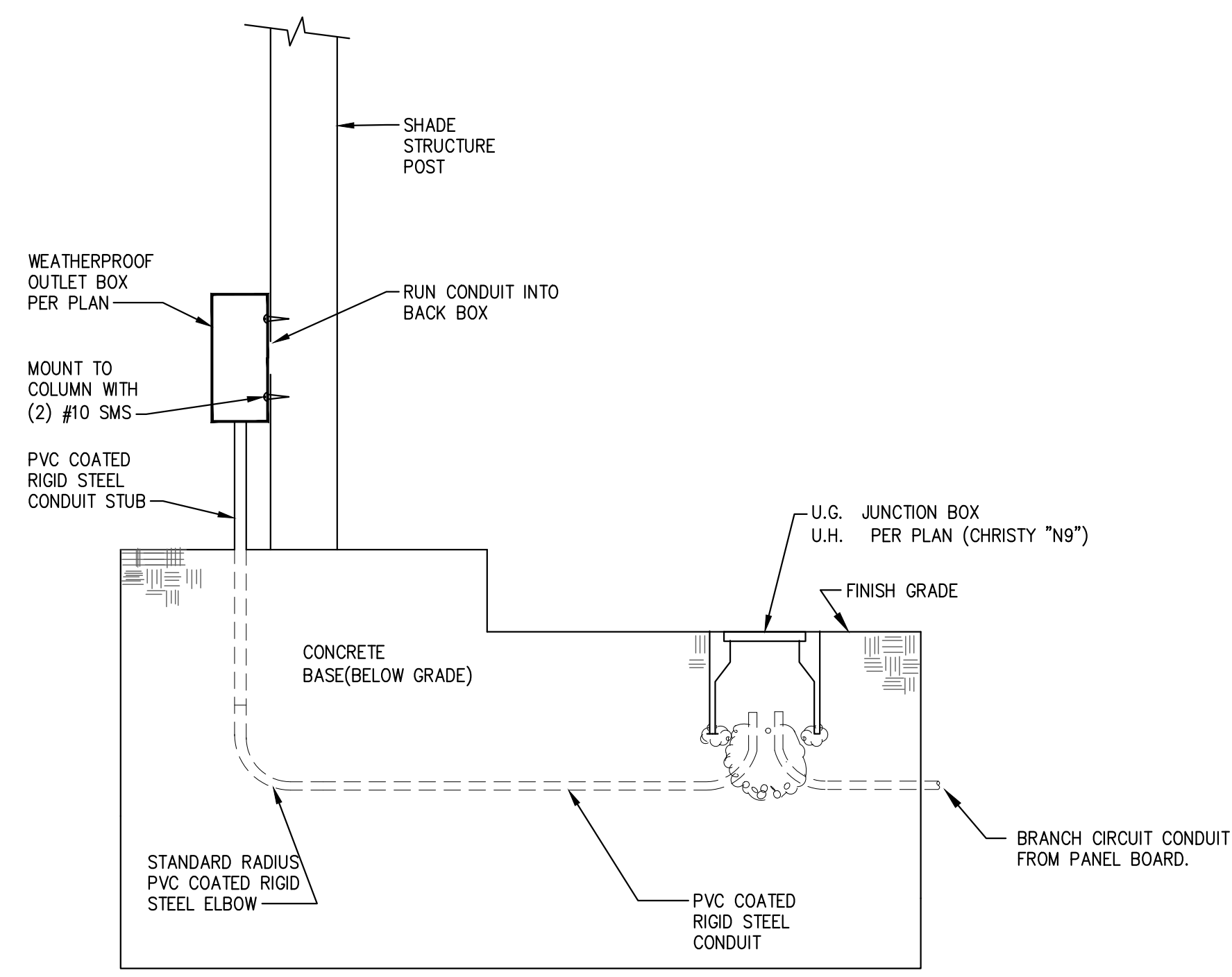
E1.1

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

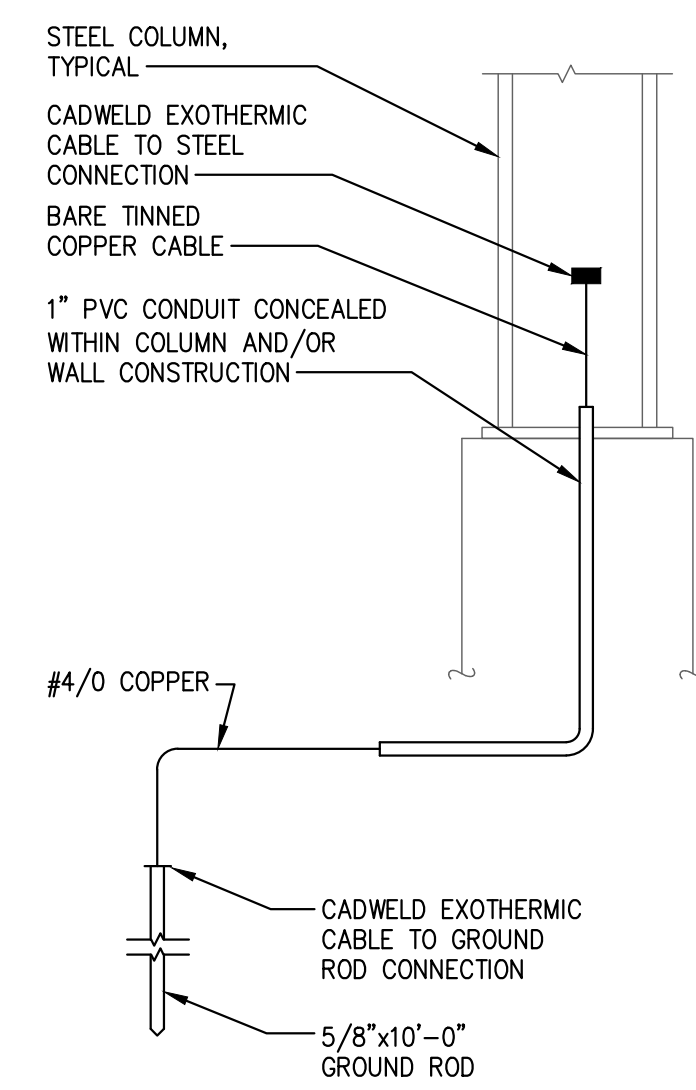


MODIFIED

PANEL:	MANF: EATON / CH	MAIN: MLO	SERVICE: 125 AMP	MOUNTING: 120 / 208 VOLT	ENCLOSURE: 10K AIC
IRRIGATION TYPE:	FEEDER RATING: 100 AMP	BUSS: 100 AMP	3 Ø, 4W	UNISTRUT MOUNTED	100% NEUT.
AØ	BØ	CØ	DIRECTORY		
LUGS - DO NOT REMOVE KO			BRKR	CKT	BRKR
LUGS - DO NOT REMOVE KO			1	2	
LUGS - DO NOT REMOVE KO			3	4	
LUGS - DO NOT REMOVE KO			5	6	
1500	1500	NOT LISTED	20/1	7	8
NOT LISTED			20/1	9	10
NOT LISTED			20/1	11	12
3Ø	RECEPTS - SHADE STRUCT. [F]		20/1	13	14
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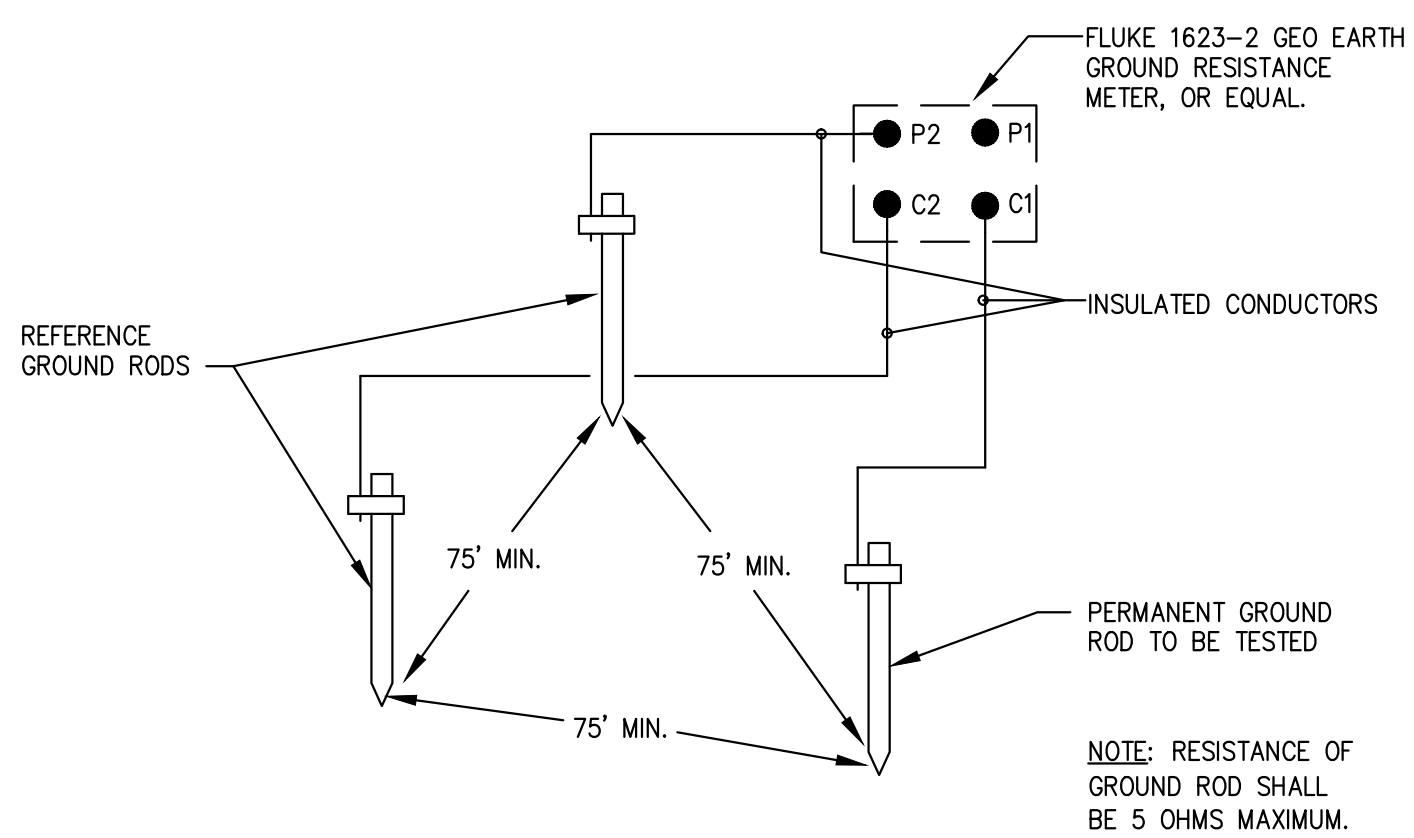


4 CONDUIT STUB IN POST DETAIL
SCALE: NONE



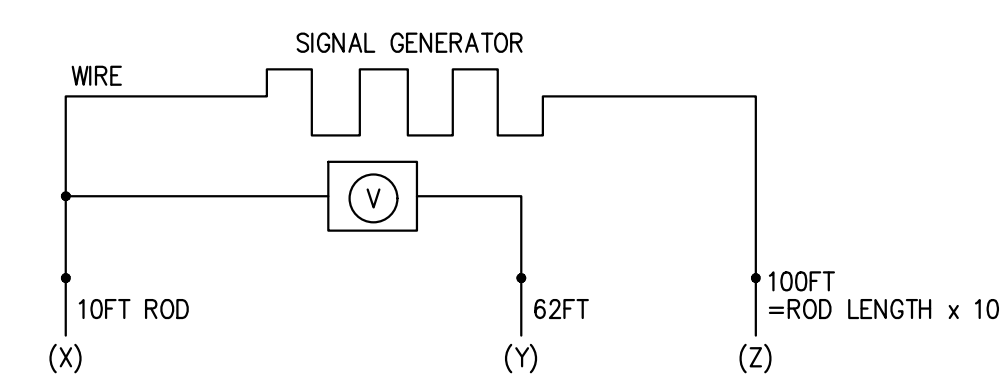
- NOTES:
1. ALL GROUNDING CONNECTIONS SHALL BE IN CONFORMANCE WITH N.E.C. ARTICLE 250.
 2. FOR ALL ADDITIONAL REQUIREMENTS REFER TO SPEC SECTIONS 26 05 26.

5 TYPICAL STEEL COLUMN & REBAR GROUNDING DETAIL
SCALE: NONE



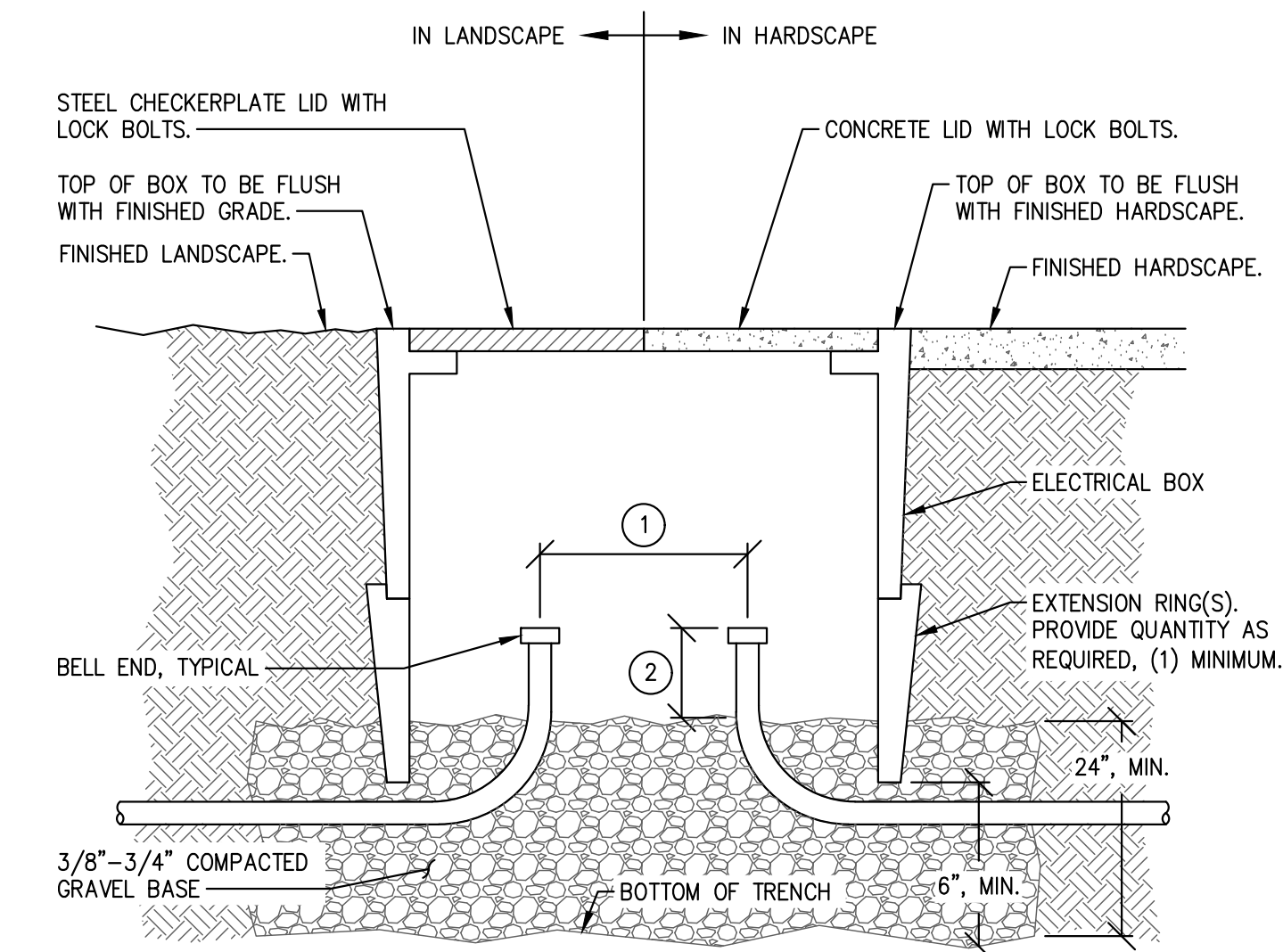
- FALL OF POTENTIAL TEST METHOD NOTES:
1. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY OF 500KVA OR LESS: 10 OHMS.
 2. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY OF 500 TO 1000KVA: 5 OHMS.
 3. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY GREATER THAN 1000KVA: 3 OHMS.
 4. POWER DISTRIBUTION UNITS OR PANELBOARDS 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\"/>



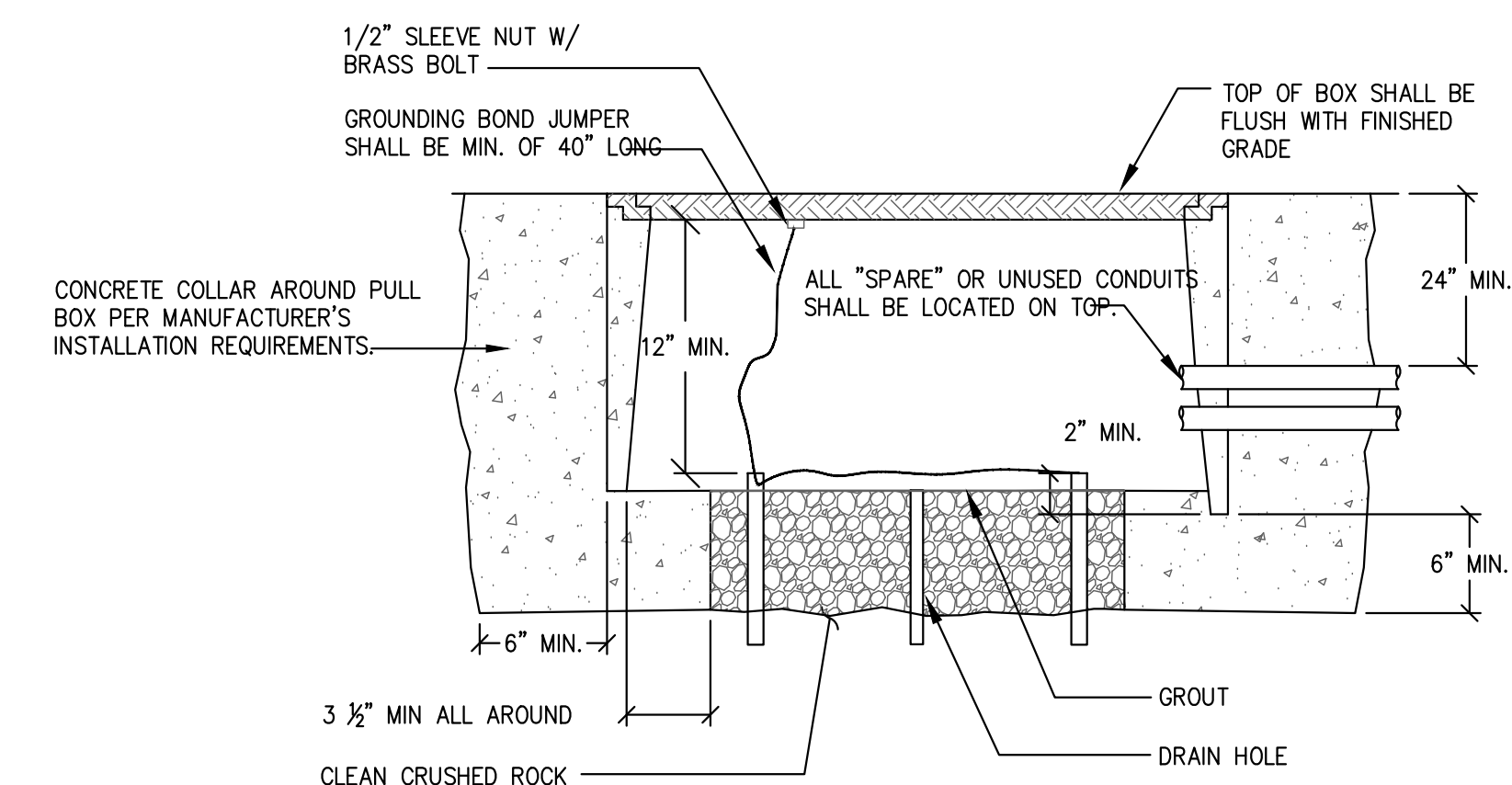
AT THIS POINT, A KNOWN CURRENT IS APPLIED ACROSS X & Z, WHILE THE RESULTING VOLTAGE IS MEASURED ACROSS X & Y. OHMS LAW APPLIED $R=V/I$. THEN (Y) MOVED TO 2 TIMES THE DIAGONAL LENGTH, THEN MOVE OUT TO 3 TIMES(3X), 4X, 9X THE DIAGONAL LENGTH TO COMPLETE THE 3 POINT TEST WITH A TOTAL OF NINE RESISTANCE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

6 METHOD OF TESTING GROUND RODS DETAIL
SCALE: NONE



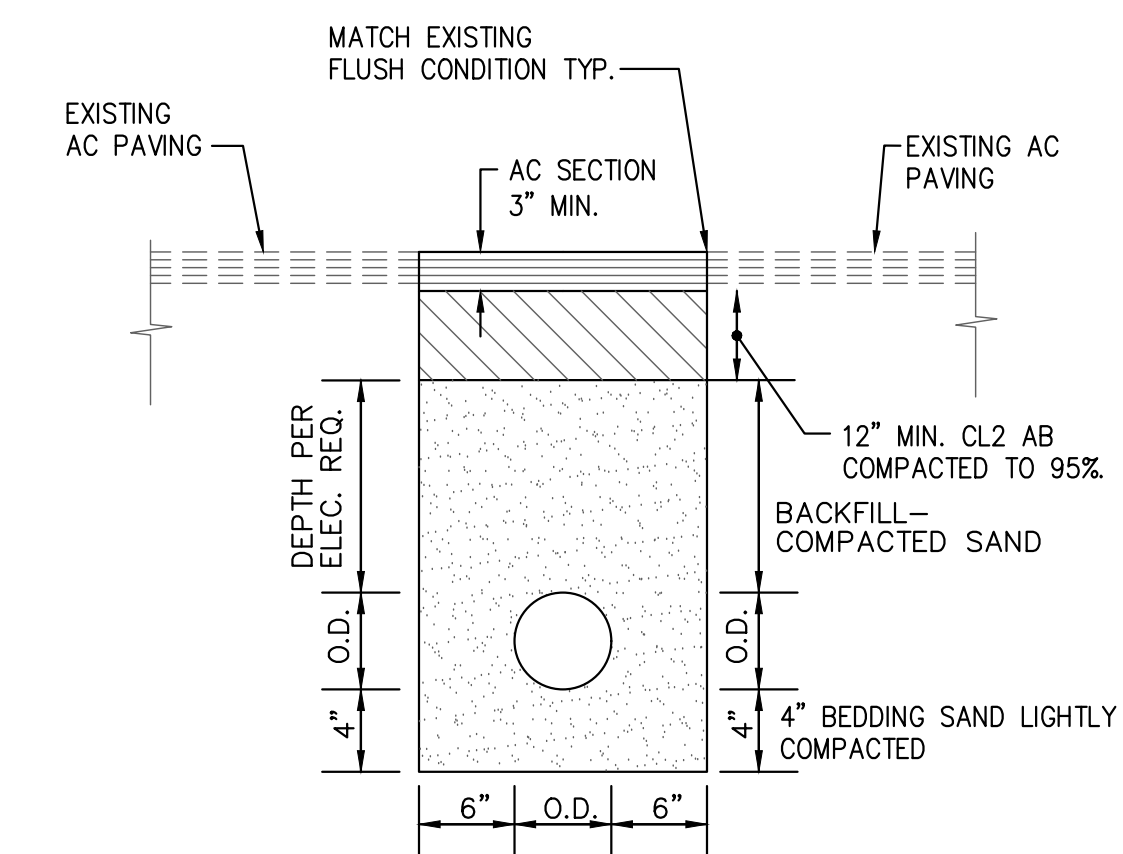
- KEY NOTES:
1. WHERE CONDUITS SERVE INCOMING AND OUTGOING CIRCUITS KEEP RISERS SEPARATED INSIDE PULLBOX TO ALLOW FOR SLACK CONDUCTORS.
 2. TOPS OF CONDUITS MUST NOT EXTEND INTO PULLBOX MORE THAN 1/3 OF THE TOTAL AVAILABLE INSIDE BOX HEIGHT, IN ORDER TO ALLOW ADEQUATE SPACE FOR CABLE SLACK.

1 NON-TRAFFIC RATED PULL BOX
SCALE: NONE



- NOTES:
1. HANDHOLES SHALL BE PROVIDED WITH A MINIMUM OF (4) GALVANIZED PULLING PLATES IN BOTTOM OF PULLBOX.
 2. PULLBOXES SHALL BE PROVIDED WITH CAST IN PLACE VERTICAL CABLE RACKS. ALL CABLES SHALL BE NEATLY BUNDLED, ORGANIZED AND SUPPORTED BY CABLE RACKS.
 3. WHERE ADDITIONAL CONDUIT ENTRIES ARE REQUIRED BEYOND QUANTITY OF TERMINATORS SHOWN, CONTRACTOR SHALL FIELD CORE DRILL AS REQUIRED, WHERE 4\"/>
 - 4. FOR ALTERNATE STYLE PULLBOXES CONTRACTOR SHALL FIELD CORE DRILL ALL CONDUIT ENTRIES 2\"/>
 - 5. CONTRACTOR SHALL PROVIDE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR TRAFFIC RATING REQUIREMENTS AS PART OF THE SUBMITTALS.

2 TRAFFIC RATED PULL BOX
SCALE: NONE



3 TYPICAL TRENCH DETAIL
SCALE: NONE

DESIGN CRITERIA	
DESCRIPTION	DESIGN VALUES
DEAD AND LIVE LOADS	
ROOF LIVE LOAD	20 PSF
ROOF DEAD LOAD (SUPERIMPOSED ON FRAME)	5 PSF MAX
ROOF PANEL DEAD LOAD	M=1.1 PSF, G=1.2 PSF, S=1.3 PSF
COLLATERAL DEAD LOAD	M=3.9 PSF, G=3.8 PSF, S=3.7 PSF
ROOF SNOW LOAD	
GROUND SNOW LOAD, P _s	20 PSF
RISK CATEGORY	I
ROOF SNOW LOAD: SLOPED, P _s	20 PSF
SITE APPLICATION DSA REVIEWER SHALL VERIFY THE STRUCTURE BE LOCATED AT LEAST 20 FEET FROM ADJACENT STRUCTURE	
SNOW LOAD SLOPE FACTOR, C _s	1.0
SNOW EXPOSURE FACTOR, C _e	1.0
SNOW LOAD IMPORTANCE FACTOR, I _s	1.0
THERMAL FACTOR, C _t	1.2
WIND DESIGN	
BASIC WIND SPEED (3 SECOND GUST), V _{ult}	100 MPH
RISK CATEGORY	I
EXPOSURE CATEGORY	C
FACTORS: K _d , K _e , K _z	0.85, 1.0, 0.85
Z ₀ = 0.00256 K _d K _e K _z V ² FOR ALL EAVE HEIGHTS (8', 10' & 12')	18.50 PSF
C _{mf} PER ASCE FIGURE 27-4-5 ROOF ANGLE 18.43° - CLEAR / OBSTRUCTED	CASE A (1.1 / -1.2) CASE B (0.01 / -0.09)
C _{mf} PER ASCE FIGURE 27-4-5 ROOF ANGLE 18.43° - CLEAR / OBSTRUCTED	CASE A (-0.17 / -1.09) CASE B (-0.96 / -1.65)
C _{mf} PER ASCE FIGURE 27-4-7 PARALLEL TO RIDGE - CLEAR / OBSTRUCTED	CASE A (-0.6 / -0.9) CASE B (-0.5 / -0.5)
COMPONENTS & CLADDING - C _u (PRESSURE/SUCTION) CLEAR / OBSTRUCTED	ZONE 3 - (2.29 / -2.11) / (1.0 / -3.0) ZONE 2 - (1.77 / -1.63) / (0.8 / -2.3) ZONE 1 - (1.15 / -1.05) / (0.5 / -1.5)
SEISMIC DESIGN	
LATERAL FORCE RESISTING SYSTEM	STEEL - ORDINARY CANTILEVER COLUMN
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
SEISMIC IMPORTANCE FACTOR, I _e	1.0
SEISMIC SITE CLASS	D
MCE _{EL} SPECTRAL RESPONSE ACCELERATION @ 0.2 s, S _s	0.6
MCE _{EL} SPECTRAL RESPONSE ACCELERATION @ 0.2 s, S ₁	0.90
SHORT PERIOD SITE COEFFICIENT, F _a	1.20
LONG PERIOD COEFFICIENT, F _v	1.70
FUNDAMENTAL PERIOD OF THE STRUCTURE, T	0.152 s
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, S _{DS}	2.08
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, S _{DS} - USED TO DETERMINE C _s (WITH CAP PER ASCE-7 12.8.1.3)	2.08 * 0.70 = 1.456
DESIGN SPECTRAL RESPONSE ACCELERATION AT 1-4 PERIODS, S _{D1}	1.02
SEISMIC DESIGN CATEGORY	E
RESPONSE MODIFICATION FACTOR, R	1.25
OVERSTRENGTH FACTOR, Ω	1.25
REUNDANCY FACTOR, ρ	1.0
HORIZONTAL OR VERTICAL IRREGULARITIES	NONE
SEISMIC RESPONSE COEFFICIENT, C _s (20' WIDE, 30' WIDE, 40' WIDE)	1.16
DESIGN BASE SHEAR, V (20' WIDE, 30' WIDE, 40' WIDE)	12.73 PSF, 13.41 PSF, 14.65 PSF
ALLOWABLE SOIL BEARING FOR FOUNDATIONS	VARIES - SEE FOUNDATION CHARTS
FLOOD DESIGN - DESIGN IS ASSUMED TO NOT BE IN FLOOD HAZARD AREA	
IF PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED & SIGNED FROM A SOILS ENGINEER IS REQUIRED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED.	

GENERAL:

- 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.
- 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.
- 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.
- 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.
- 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 VISIT 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.
- ASTM DESIGNATIONS AND ALL STANDARDS REFER TO THE LATEST AMENDMENTS.
- 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.
- 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.
- 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.
- THE SCHOOL DISTRICT INSPECTOR ON RECORD SHALL INSPECT AND APPROVE THE ERCTED FRAME PRIOR TO ROOF INSTALLATION.
- 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 REQUIREMENTS.
- 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.
- VEWS AND DETAILS ARE NOT DRAWN TO SCALE (UNLESS NOTED OTHERWISE). DO NOT SCALE THESE DRAWINGS.

STRUCTURAL AND MISCELLANEOUS STEEL:

- ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERCTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION MANUAL REFERENCED BY THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE.
- PIPE SECTIONS SHALL CONFORM TO ASTM A53, F_y = 35 KSI, GRADE B OR A501 UNLESS NOTED OTHERWISE.
- STRUCTURAL TUBING (HSS SHAPES) SHALL CONFORM TO ASTM A-500, GRADE B (OR C), F_y = 46 KSI (MIN).
- IF MATERIAL AVAILABILITY IS LIMITED, MEMBER THICKNESS CAN BE INCREASED ABOVE WHAT IS SHOWN IN THESE DRAWINGS (MAXIMUM INCREASE OF 1/8").
- ALL CHANNELS, ANGLES, AND MISC. STEEL SHALL CONFORM TO ASTM A-36, F_y = 36 KSI.
- ALL PLATE STEEL SHALL CONFORM TO ASTM A-572, F_y = 50 KSI.
- ALL COLD FORM STEEL SHALL CONFORM TO ASTM A-653, C_s = TYPE B, F_y = 50 KSI.
- STRUCTURAL STEEL AND DECK SHALL BE IDENTIFIED FOR CONFORMITY PER CBC 2202A.1.
- ALL ROOF DECKS SHALL HAVE KYNAR 500 METAL COATING.
- ALL ROOF DECKS SHALL CONFORM TO ASTM A-36, F_y = 50 KSI.

WELDING:

- 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 AS REQUIRED BY DSA.
- 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 @ (0° F).
- ALL WELDING SHALL BE DONE IN THE SHOP WITH REQUIRED INSPECTION, PRE-APPROVED BY DSA, TO ENSURE WELDER MATERIAL ID AND WELDING.
- WELD FILLER METAL MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION OF COMPLIANCE WITH CODE AND SPECIFICATIONS.

BOLTING:

- ALL BOLTS SHOWN ON THESE DRAWINGS ARE ASTM F3125 GRADE A325 HIGH STRENGTH BOLTS (UNO), WITH THE NUTS CONFORMING TO ASTM A-563.
- HIGH STRENGTH BOLTS SHALL BE VERIFIED AND INSPECTED PER CBC 1705A2.1.
- BEFORE ERCTING 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.
- HARDENED STEEL WASHERS SHALL CONFORM TO ASTM F-436.
- 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 ERCTING 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.

APRENTENSIONED JOINTS MUST BE INSTALLED AND INSPECTED TO MEET ONE OF THE FOLLOWING REQUIREMENTS:

- TURN-OFF-NUT PRETENSIONING
- CALIBRATED WRENCH PRETENSIONING
- DIRECT-TENSION-INDICATOR PRETENSIONING (CONTRACTOR RESPONSIBLE FOR PURCHASE OF REQUIRED WASHERS)

FOUNDATIONS:

- ALLOWABLE SOIL PRESSURES ASSUME CLASS 5 SOIL CLASSIFICATION PER CBC TABLE 1806A, UNLESS NOTED OTHERWISE.
- PER CBC SECTION 1803A.2, GEOTECHNICAL REPORTS ARE NOT REQUIRED FOR ONE-STORY LIGHT-STEEL FRAME BUILDINGS OF TYPE II CONSTRUCTION AND 4,000 SQUARE FOOT OR LESS IN FLOOR AREA AND NOT LOCATED WITHIN EARTHQUAKE FAULT ZONOR SEISMIC HAZARD ZONES AS SHOWN ON THE MOST RECENT MAPS PUBLISHED BY THE CGS. ALLOWABLE FOUNDATION AND LATERAL SOIL PRESSURE VALUES MAY BE DETERMINED FROM TABLE 1806A.2.
- FILL AND BACKFILL SHALL BE COMPACTED TO 95% OF MAX. DENSITY IN ACCORDANCE WITH ASTM TEST METHOD D-1557 OR AS RECOMMENDED BY THE GEO-TECH ENGINEER. FLOODING NOT PERMITTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, ETC. NECESSARY TO SUPPORT CUT AND/OR FILL BANKS DURING EXCAVATION, AND FORMING AND PLACEMENT OF CONCRETE.
- MINIMUM SETBACK FROM TOE OF SLOPE ON AN ASCENDING SLOPE SHALL BE 15 FEET AND MINIMUM SETBACK FROM TOE OF SLOPE ON A DESCENDING SLOPE SHALL BE 40 FEET.
- PER CBC SECTION 1803A.6, GEHAZARD REPORTS ARE NOT REQUIRED FOR ONE-STORY LIGHT-STEEL FRAME BUILDINGS OF TYPE II CONSTRUCTION AND 4,000 SQUARE FOOT OR LESS IN FLOOR AREA AND NOT LOCATED WITHIN EARTHQUAKE FAULT ZONOR SEISMIC HAZARD ZONES AS SHOWN ON THE MOST RECENT MAPS PUBLISHED BY THE CGS.
- GEHAZARD REPORTS ARE TO COMPLY WITH DSA IR A-4 PER IR-7 SECTION 1.8
- SITE SPECIFIC GEOTECHNICAL REPORT IS REQUIRED AT THE TIME OF SITE APPLICATION IS USING OTHER THAN CLASS 5 SOIL, PER DSA IR PC-7
- LATERAL BEARING HAS BEEN INCREASED PER CBC 1806A.3.4 & HAS BEEN DESIGNED FOR P-DELTA EFFECTS

CONCRETE:

- MIX DESIGN REQUIREMENTS: (NORMAL WEIGHT CONCRETE)

STRENGTH F _c (28 DAYS)	W/C RATIO (NON-AIR ENTRAINED)	W/C RATIO (AIR ENTRAINED)	SUMP (in')	UNIT WEIGHT (NORMAL WEIGHT)
4500 PSI	0.44	0.35	3'	150 PCF
- CONCRETE MIX DESIGN PARAMETERS ARE GOOD FOR EXPOSURE CATEGORIES F0, F1 & F2. THE AIR ENTRAINMENT FOR THESE CATEGORIES SHALL BE AS FOLLOWS: F0-0, F1-4.5, F2-6
- AGGREGATES SHALL CONFORM TO THE ASTM C-33 WITH PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN 0.05% MAX AGGREGATE SIZE = 1".
- CEMENT SHALL CONFORM TO ASTM C-150 (TYPE V) UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- 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.
- CONCRETE SHALL NOT FREE FALL MORE THAN FIVE FEET.
- CONCRETE DURABILITY SHALL BE PER CBC 190A.1 & ACI 318-14 CHAPTER 19.
- CONCRETE SHALL BE TESTED PER CBC 1903A, TABLE 1705A.3. AND ACI 318-14 SECTION 26.12.

STEP 10: IDENTIFY PROJECT NAME AND SCHOOL DISTRICT

PROJECT NAME:	SCHOOL DISTRICT:

STEP 1	FRAME DIMENSIONS	
	SUGGESTED	OTHER
FRAME WIDTH	[] 20' [X] 30' [] 40'	[] (40' MAX)
FRAME LENGTH	[] 44' [X] 64' [] 84' [] 104'	[] (NO MAX)

STEP 2	ROOF PANEL	
	ROOF PANEL TYPE	DESIGN OPTIONS
	[X] M [] G [] S	

STEP 3	PROJECT SITE - S _s ACCELERATION (g)	
	S _s REGION	MAX DEAD LOAD
	0 < S _s <= 2.14	5 PSF
	2.14 < S _s <= 2.50	5 PSF
	2.50 < S _s <= 2.75	5 PSF
	2.75 < S _s <= 3.00	4 PSF
	S _s > 3.73 MAX	3 PSF

STEP 4	S _s REGION	
	DESCRIPTION	EXAMPLES
	X	
	2.14 < S _s <= 2.50	5 PSF
	2.50 < S _s <= 2.75	5 PSF
	2.75 < S _s <= 3.00	4 PSF
	S _s > 3.73 MAX	3 PSF

STEP 5	TOTAL ROOF DEAD LOAD	
	DEAD LOAD	EXAMPLES
	1.1 PSF	M=1.1PSF, G=1.2PSF, S=1.3PSF (SEE STEP 2)
	0 PSF	LIGHTING, ETC
	1.1 PSF	ADD ROOF DECK AND COLLATERAL LOADS (MAX 5 PSF)

NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEERING RESPONSIBILITY

- PER TITLE 24, PART 1, SECTION 4-316(e) OF THE CALIFORNIA CODE OF REGULATIONS, THIS NOTICE SHALL BE GIVEN TO DSA PRIOR TO THE APPROVAL OF PLANS AND SPECIFICATIONS.
- FOR THE SITE SPECIFIC PROJECT, J. R. MILLER & ASSOCIATES IS NOT THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE.
- FOR THE SITE SPECIFIC PROJECT, J. R. MILLER & ASSOCIATES' RESPONSIBILITY IS LIMITED TO THE PREPARATION OF THE PLANS AND SPECIFICATIONS FOR THE SHELTERS OF THIS PC ONLY.
- STRUCTURAL OBSERVATION OF CONSTRUCTION IS SPECIFICALLY EXCLUDED FROM J.R. MILLER & ASSOCIATES' RESPONSIBILITY FOR THE SITE SPECIFIC PROJECT.
- ALL CONSTRUCTION ACTIVITIES RELATED TO STRUCTURAL ENGINEERING SHALL 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 OBSERVATION OF CONSTRUCTION, REVIEW OF INSPECTION REPORTS, AND SIGNING OFF OF THE VERIFIED REPORT FOR COMPLETED WORK.
- J.R. MILLER & ASSOCIATES WILL BE RESPONSIBLE FOR RESPONDING TO QUESTIONS PERTAINING TO THE PLANS AND SPECIFICATIONS FOR THE SHELTERS OF THIS PC WHICH ARISE DURING PLAN REVIEW AND CONSTRUCTION.

CONSTRUCTION NOTES

- A DSA-CERTIFIED CLASS 3 PROJECT INSPECTOR IS REQUIRED FOR THIS PROJECT.
- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
- A "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.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS ARE THAT ALL THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR, SHOULD ANY EXISTING CONDITIONS SUCH AS TERRORISM OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE 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)
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES

REINFORCING STEEL:

- REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A-615, AS FOLLOWS:
GR 60: (#4 BARS AND LARGER)
GR 40: (#3 BARS)
- DETAILING, FABRICATION, AND ERECTION OF REINFORCING BARS SHALL CONFORM TO THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES."
- MIN. COVER FOR CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:
A. CAST AGAINST EARTH3"
B. CAST AGAINST FORM BELOW GRADE2"
C. FORMED SLABS (#1 BAR & SMALLER)3/4"
D. SLABS ON GRADE (FROM TOP OF SLAB)1"
- BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND. BENDS SHALL BE MADE COLD.
- REINFORCING SHALL BE LAP SPICED PER ACI 318-14 SECTION 25.5.
- PRIOR TO PLACING OF CONCRETE, REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE WELL SECURED IN POSITION.
- WELDING OF REINFORCING IS NOT ALLOWED.
- REINFORCING STEEL SHALL BE INSPECTED PER CBC 1705A.3.

POWDER-COAT FINISH SYSTEM:

- ALL BUILDINGS THAT HAVE A POWDER-COATED FINISH SHALL MEET THE FOLLOWING SPECIFICATIONS:
- THE STEEL FRAME SHALL BE SHOT-BLASTED TO A NEAR WHITE CONDITION PER SSPC-10 SPECIFICATIONS.
 - THE STEEL SHALL BE WASHED IN A ZINC PHOSPHATE IN AN ANTIMINE EIGHT STAGE ELECTRO DEPOSITION PRE-TREATMENT PROCESS.
 - IMMEDIATELY FOLLOWING PRE-TREATMENT THE STEEL SHALL BE TOTALLY IMMERSED IN A LIQUID EPOXY PRIMER-E-COAT AND COATED TO A UNIFORM THICKNESS OF A MINIMUM OF 0.7 TO 0.9 MILS. THE E-COATING SHALL PROVIDE A MINIMUM OF 1000 HOURS OF SALT SPRAY CORROSION PROTECTION TO THE STEEL.
 - THE STEEL SHALL THEN HAVE A TIGC POLYESTER COLOR COAT APPLIED OVER THE E-COATING SURFACE.
 - THE COLOR COAT SHALL THEN HAVE A CLEAR TIGC COATING APPLIED TO SEAL IN THE COLOR COAT AND RESIST ULTRAVIOLET LIGHT, TO HELP PREVENT FADING.
 - THE FINISH THICKNESS OF THESE THREE APPLICATIONS SHALL BE A MINIMUM OF 8 TO 12 MILS.
 - ALL CARBON STEEL MEMBERS (COLUMNS, BEAMS, PLATES, ETC.) NOT POWDER-COATED SHALL BE PAINTED WITH PRIME COAT PER THE "AISC CODE OF STANDARD PRACTICE" AND THE "AISC SPECIFICATION SECTION M3(UNLESS NOTED OTHERWISE).

ABBREVIATIONS:

ACI	AMERICAN CONCRETE INSTITUTE	MPH	MILES PER HOUR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	M	MULTI-RIB ROOF PANEL (MCELROY)
ASM	ASSEMBLY (INTERNAL REFERENCE)	NTS	NOT TO SCALE
ASTM	AMERICAN SOCIETY FOR TESTING AND MAT'LS	NO	NUMBER
AWS	AMERICAN WELDING SOCIETY	OC	ON CENTER
CBC	CALIFORNIA BUILDING CODE	OSHA	OCCUPATIONAL HEALTH AND SAFETY ADMIN
C/P	COMPLETE JOINT PENETRATION	PCF	POUNDS PER CUBIC FOOT
CLR	CLEAR	PJ	PRETENSIONED JOINT
DEG	DEGREE	PLCS	PLACES
DIA	DIAMETER	PLT	PLATE
DM	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	SS	SQUARE
IN	INCHES	SQ	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

APPROVED
DIV. OF THE STATE ARCHITECT
APP:04-120013 PC
REVIEWED FOR
SS [X] FLS [X] ACS [X] CG [X]
DATE: 08/06/2021

STRUCTURAL SEPARATION		DEFLECTIONS ARE FOR (1) STRUCTURE	
ALL DEFLECTIONS SHOWN ALSO INCLUDE THE P-DELTA ROTATION PER IR PC-7		SOIL CLASS PER TABLE 1806A.2	
MAXIMUM DRIFT	Δ _{max}	Side Columns	Corner Columns
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.40	2.55
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.25	2.45
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.20	2.35
MINIMUM SEPARATION (S _u = C _s Δ _{max})	C _s = 1.25	3.00	3.19
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	3.00	3.19
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.81	2.94
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.75	2.81
MAXIMUM DRIFT	Δ _{max}	End Columns	Corner Columns
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.20	2.30
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.30	2.45
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.40	2.55
MINIMUM SEPARATION (S _u = C _s Δ _{max})	C _s = 1.25	2.75	2.88
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.75	2.88
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.88	3.06
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	3.00	3.19
MAXIMUM DRIFT	Δ _{max}	End Columns	Corner Columns
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	1.80	1.70
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.00	2.45
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.00	2.30
MINIMUM SEPARATION (S _u = C _s Δ _{max})	C _s = 1.25	2.50	2.13
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.50	2.06
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	3.13	2.88
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	3.13	3.50

ARCHITECTURAL REQUIREMENTS		
DESCRIPTION	DESIGN VAULES	
TYPE OF CONSTRUCTION	II-B	
OCCUPANCY CLASSIFICATION	A-3	
NUMBER OF STORES	1	
FIRE SPRINKLER SYSTEM	NOT BY CON/WEIGHT NOT INCLUDED IN DESIGN	

RELATED BUILDING CODES AND STANDARDS

- TITLE 24 CODES:
- 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC).....(PART 1, TITLE 24, CCR)
 - 2019 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1, AND 2.(PART 2, TITLE 24, CCR)
 - 2019 CALIFORNIA ELECTRICAL CODE.....(PART 3, TITLE 24, CCR)
 - 2019 CALIFORNIA MECHANICAL CODE (CMC).....(PART 4, TITLE 24, CCR)
 - 2019 CALIFORNIA PLUMBING CODE (CPC).....(PART 5, TITLE 24, CCR)
 - 2019 CALIFORNIA ENERGY CODE.....(PART 6, TITLE 24, CCR)
 - 2019 CALIFORNIA FIRE CODE (CFC)(PART 9, TITLE 24, CCR)
 - 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE.....(PART 11, TITLE 24, CCR)
 - 2019 CALIFORN

2019 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 (2019 CBC).

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

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required	CE – 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.
Periodic – Indicates that a periodic special inspection is required	
Test – Indicates that a test is required	

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

7. CAST-IN-PLACE CONCRETE	Type	Performed By	Code References and Notes
Material Verification and Testing:			
<input type="checkbox"/> a. Verify use of required design mix.	Periodic	SI	Table 1705A.3 Item 5, 1910A.1.
<input checked="" type="checkbox"/> b. Identify, sample, and test reinforcing steel.	Test	LOR	1910A.2; ACI 318-14 Section 26.6.1.2; DSA IR 17-10. (See Appendix for exemptions.)
<input checked="" type="checkbox"/> 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 318-14 Sections 26.5 & 26.12.
<input checked="" type="checkbox"/> d. Test concrete (f _c).	Test	LOR	1905A.1.15; ACI 318-14 Section 26.12.
Inspection:			
<input type="checkbox"/> e. Batch plant 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 1705A.3.3.1, or eliminated per 1705A.3.3.2. (See Appendix for exemptions.)
<input type="checkbox"/> f. Welding of reinforcing steel.	Provide special inspection per STEEL, Category 19.1(d) & (e) and/or 19.2(g) & (h) below.		

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

23. ANCHOR BOLTS AND ANCHOR RODS:			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> 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.
<input type="checkbox"/> b. Threaded rod not used for foundation anchorage.	Test	LOR	Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

Geotechnical Reports: Project has a geotechnical report, or CDs indicate soils special inspection is required by CE

1. GENERAL:			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> 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.	Periodic	CE*	*By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)

2. SOIL COMPACTION AND FILL:			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/> a. Perform classification and testing of fill materials.	Test	LOR*	*Under the supervision of the geotechnical engineer.
<input type="checkbox"/> b. Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.	Continuous	CE*	*By geotechnical engineer or his or her qualified representative. (Refer to specific items identified in the Appendix for exemptions where soils SI and testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR Form DSA 291 shall satisfy the soil SI and test reporting requirements for the exempt items.)

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

17. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSE			
Material Verification and Testing:			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> 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	SI	Table 1705A.2.1 Item 3a-3c; 2202A.1; AISI 100-16 Section A3.1 & A3.2; AISI 500-15 Section A3.8 & A4; AISI 500-15 Section A4.8 & A.6; *By special inspector or qualified technician when performed off-site.
<input checked="" type="checkbox"/> b. Test unidentified materials.	Test	LOR	2202A.1.
<input checked="" type="checkbox"/> c. Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.
Inspection:			
<input checked="" type="checkbox"/> 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).

18. HIGH-STRENGTH BOLTS: RCSC 2			
Material Verification and Testing of High-Strength Bolts, Nuts and Washers:			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Verify identification markings and manufacturer's certificate 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 1.5.8 & 2.1; DSA IR 17-8 & DSA IR 17-9.

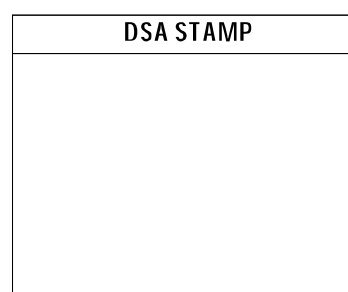
DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SIGNATURE), 2019 CBC

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 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

<input type="checkbox"/> c. Compaction testing.	Test	LOR*	* Under the supervision of the geotechnical engineer. (Refer to specific items identified in the Appendix for exemptions where soils testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR Form DSA 291 shall satisfy the soil test reporting requirements for the exempt items.)
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4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Inspect drilling operations and maintain complete and accurate records for each pier.	Continuous	CE*	* By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
<input type="checkbox"/> b. Verify pier locations, diameters, plumbness, bell diameters (if applicable), lengths and embedment into bedrock (if applicable), record concrete or grout volumes.	Continuous	CE*	* By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
<input type="checkbox"/> c. Confirm adequate end strat bearing capacity.	Continuous	CE*	* By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
<input checked="" type="checkbox"/> d. Concrete piers.	Provide tests and inspections per CONCRETE section below.		

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

<input checked="" type="checkbox"/> 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.
Inspection of High-Strength Bolt Installation:			
<input type="checkbox"/> 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.
<input checked="" type="checkbox"/> d. Pretensioned and slip-critical connections.	Periodic	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.

19. WELDI			
Verification of Materials, Equipment, Welders, etc.:			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	Periodic	SI	DSA IR 17-3.
<input checked="" type="checkbox"/> b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.
<input checked="" type="checkbox"/> c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.

DSA 103-19: LIST OF REQUIRED VERIFIED REPORTS, CBC 2019

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

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

5. RETAINING WALLS:			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/> a. Placement, compaction and inspection of backfill.	Continuous	CE*	1705A.8.1. * By geotechnical engineer or his or her qualified representative. (See Section 2 above).
<input type="checkbox"/> b. Placement of soil reinforcement and/or drainage devices.	Continuous	CE*	* By geotechnical engineer or his or her qualified representative.
<input type="checkbox"/> c. Segmental retaining walls, inspect placement of units, dowels, connectors, etc.	Continuous	CE*	* By geotechnical engineer or his or her qualified representative. See DSA IR 16-3.
<input type="checkbox"/> d. Concrete retaining walls.	Provide tests and inspections per CONCRETE section below.		
<input type="checkbox"/> e. Masonry retaining walls.	Provide tests and inspections per MASONRY section below.		

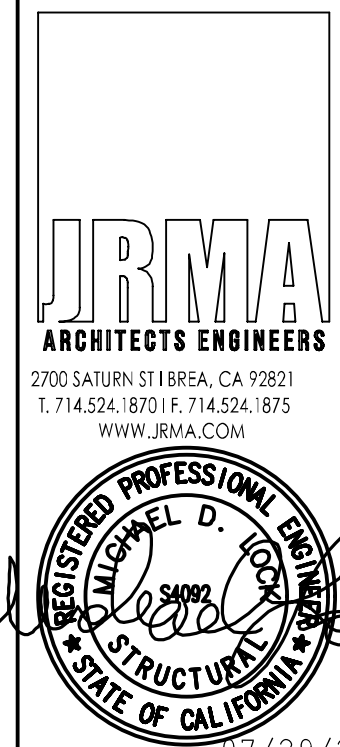
6. OTHER SOIL			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/> a. Soil Improvements	Test	CE*	Submit a comprehensive report documenting final soil improvements constructed, construction observation and the results of the confirmation testing and analysis to CCS for final acceptance. * By geotechnical engineer or his or her qualified representative.
<input type="checkbox"/> b. Inspection of Soil Improvements	Continuous	CE*	* By geotechnical engineer or his or her qualified representative.
<input type="checkbox"/> c.			

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

19.1 SHOP WELDING:			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> 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.
<input checked="" type="checkbox"/> 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.
<input type="checkbox"/> c. Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.1; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.
<input type="checkbox"/> d. Verification of reinforcing steel weldability other than ASTM A706.	Periodic	SI	1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
<input type="checkbox"/> e. Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.

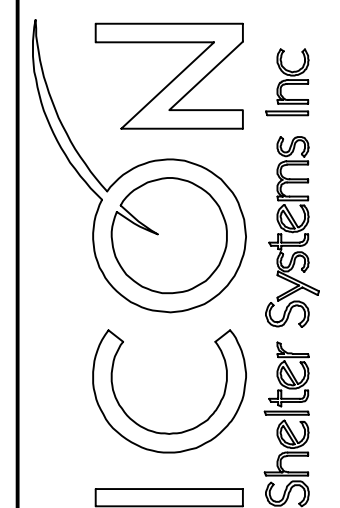
23. ANCHOR BOLTS AND ANCHOR RODS:			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/> a. Anchor Bolts and Anchor Rods	Test	LOR	Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11.
<input type="checkbox"/> b. Threaded rod not used for foundation anchorage.	Test	LOR	Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11.

ICON STD	RH/DSA-PC
DRAWN BY	ANGEL
DATE	4/2/2021
REV	
REV DATE	



APPROVED
 DIV. OF THE STATE ARCHITECT
 APP: 04-120013 PC
 REVIEWED FOR
 SS FLS ACS CG
 DATE: 08/06/2021

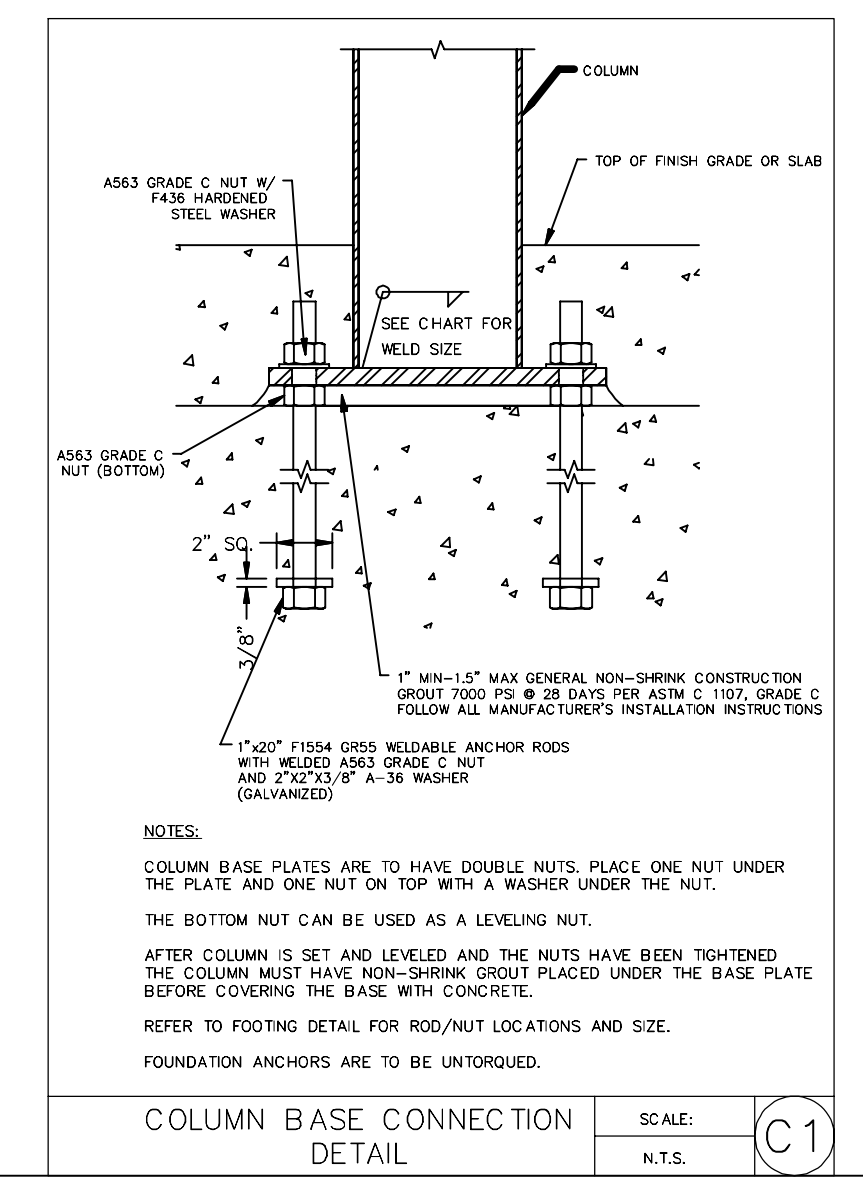
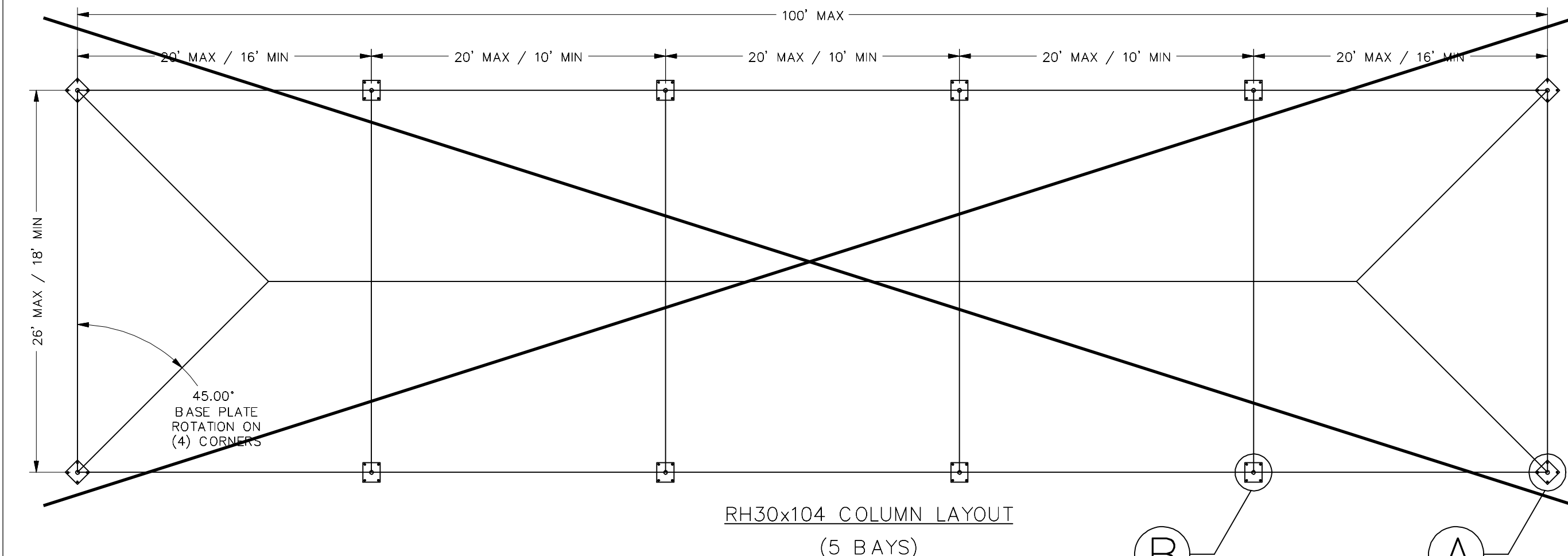
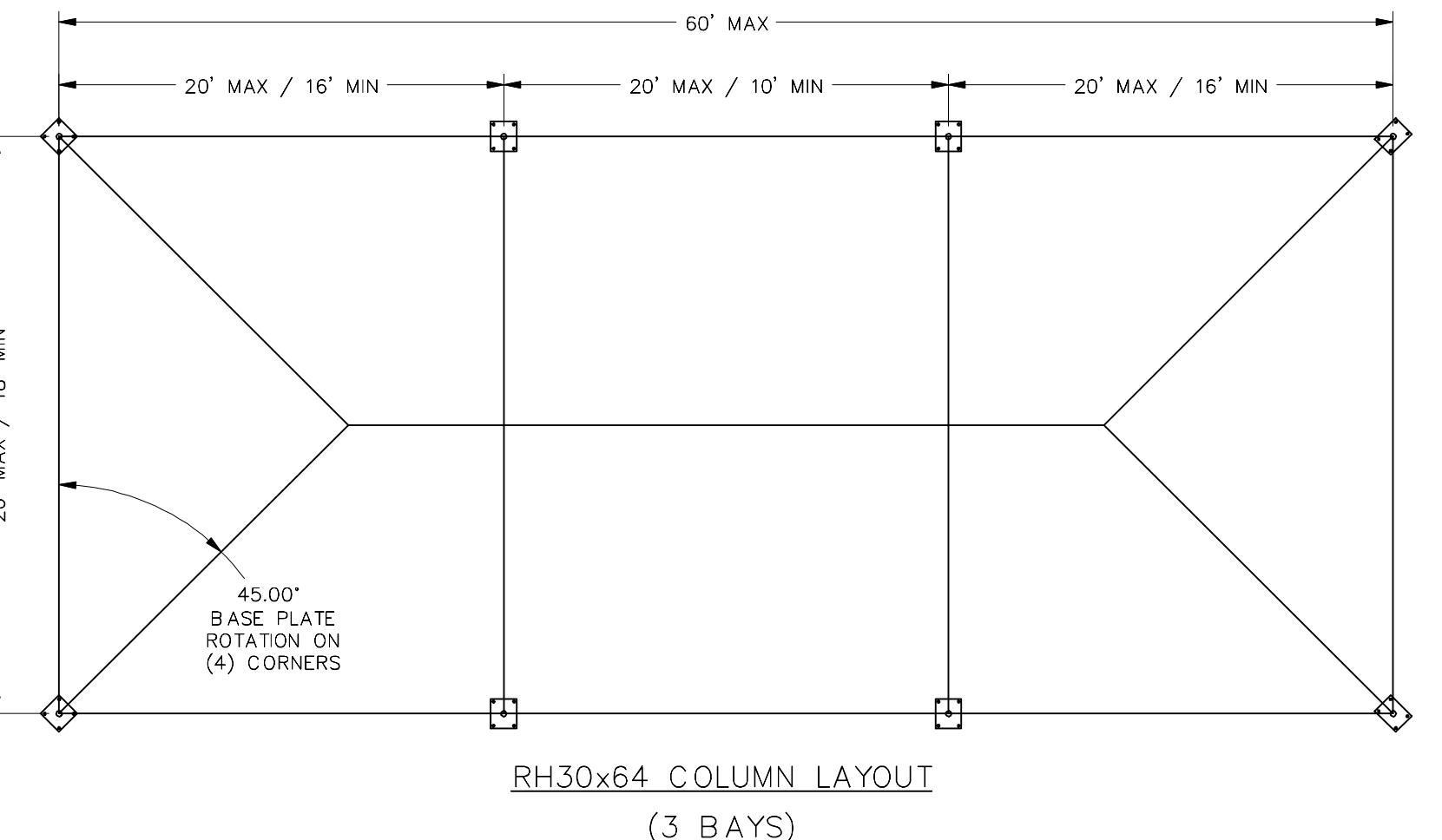
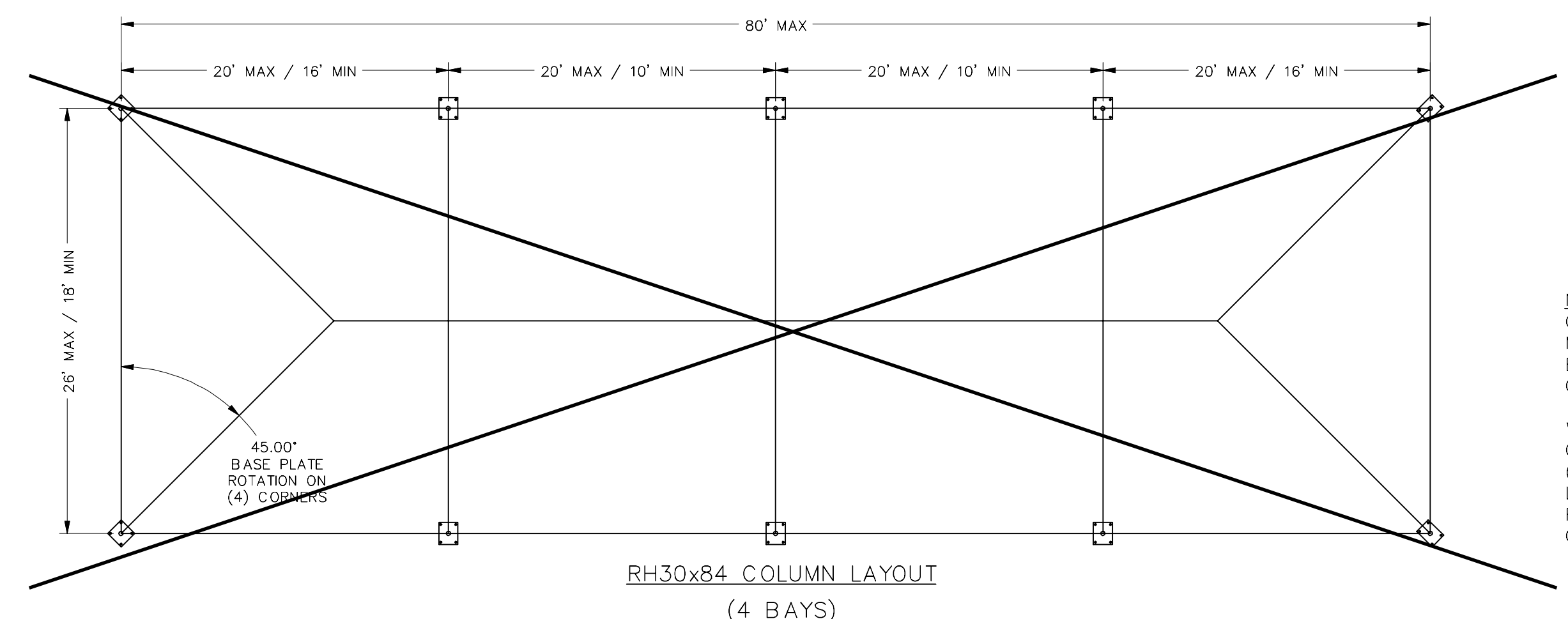
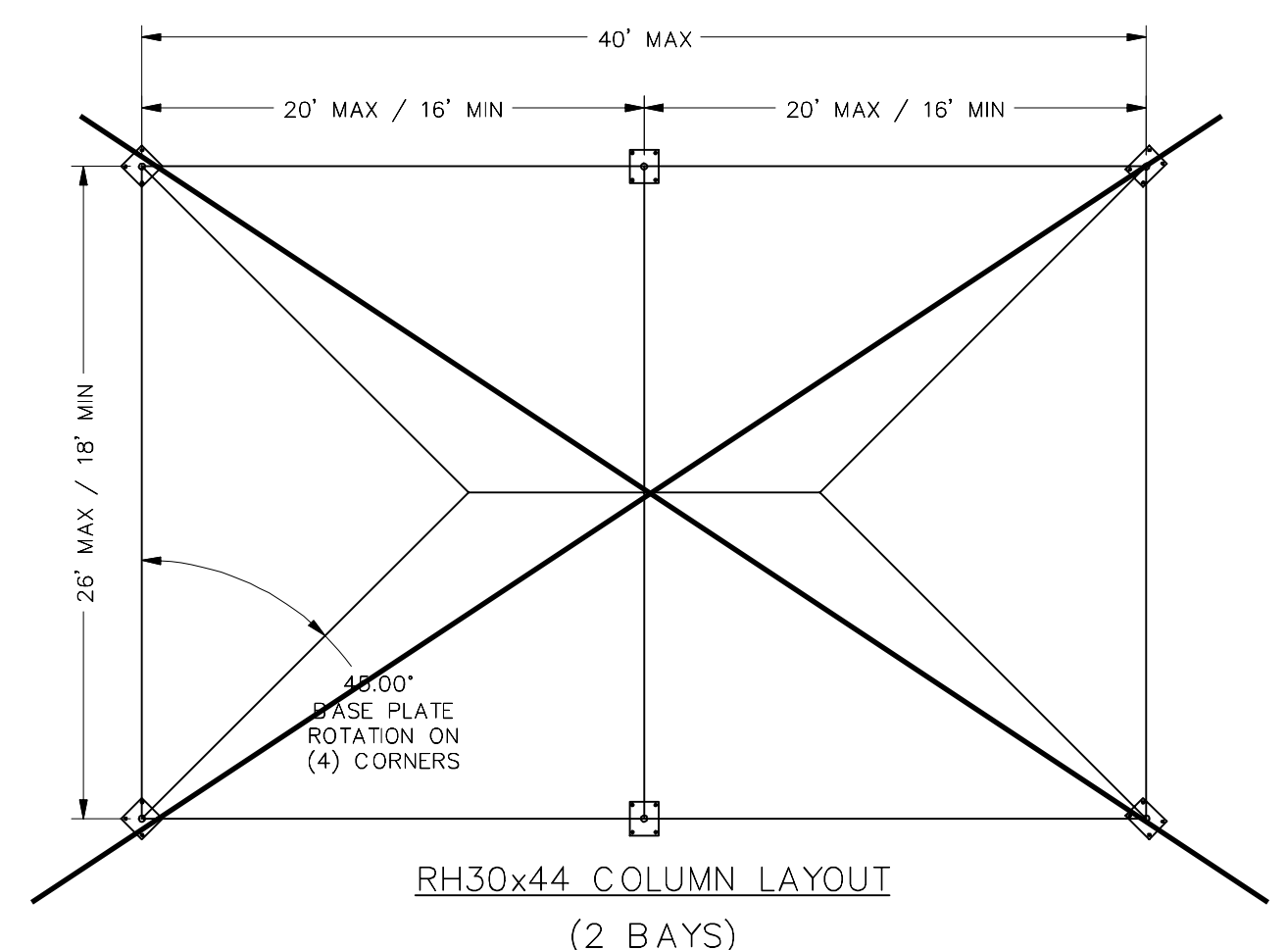
DSA 103



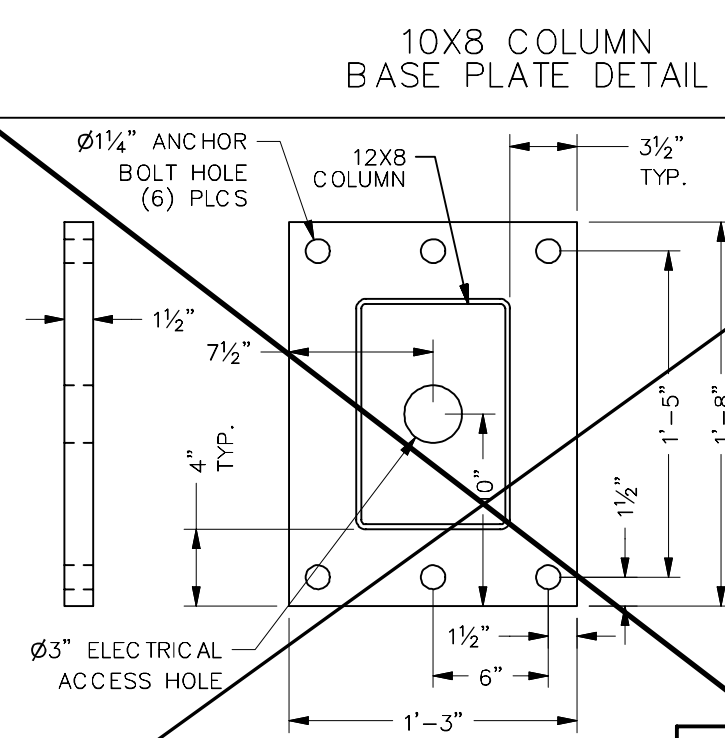
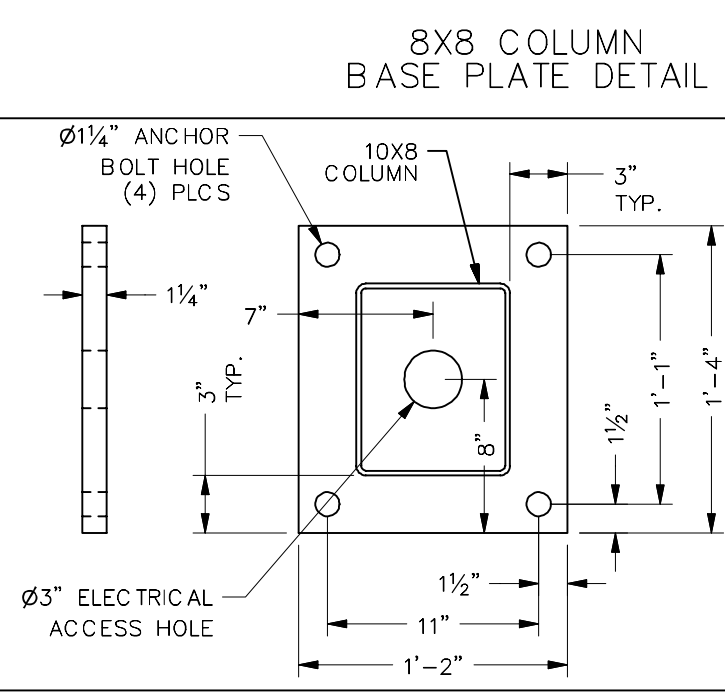
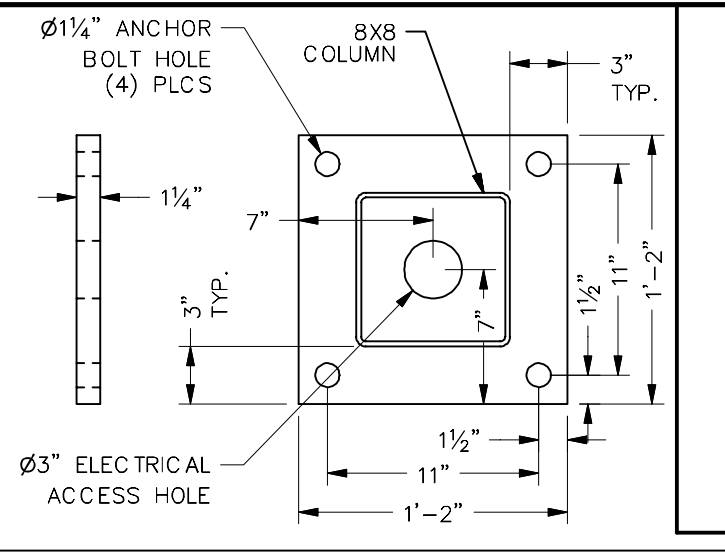
1455 LINCOLN AVE
 HOLLAND MI, 49423
 616.396.0919
 800.748.0985
 616.396.0944 FX

LS1.1

PRE-CHECK (PC) DOCUMENT
 Code: 2019 CBC
 A separate project application for construction is required.



BASE PLATE LOCATION	
DETAIL A	DETAIL B
8'	BP1
10'	BP1
12'	BP2



NOTES:
 COLUMN SIZE AND LOCATION WILL VARY DEPENDING ON MODEL TYPE ORDERED, PLEASE REFER TO JOB SPECIFIC BILL OF MATERIALS AND INSTALLATION MANUAL FOR CORRECT PLACEMENT AND SIZE.
 WHERE CONCRETE SLAB SPECIFIED PORTLAND CEMENT CONCRETE PAVING SHALL HAVE A MEDIUM SALTED (MEDIUM BROOM) FINISH ON ALL SURFACES SLOPED LESS THAN 6% AND SLIP RESISTANT (HEAVY BROOM FINISH) ON ALL SURFACES SLOPED GREATER THAN 6% CBC SECTION 1133B.7.1

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 DATE 4/2/2021
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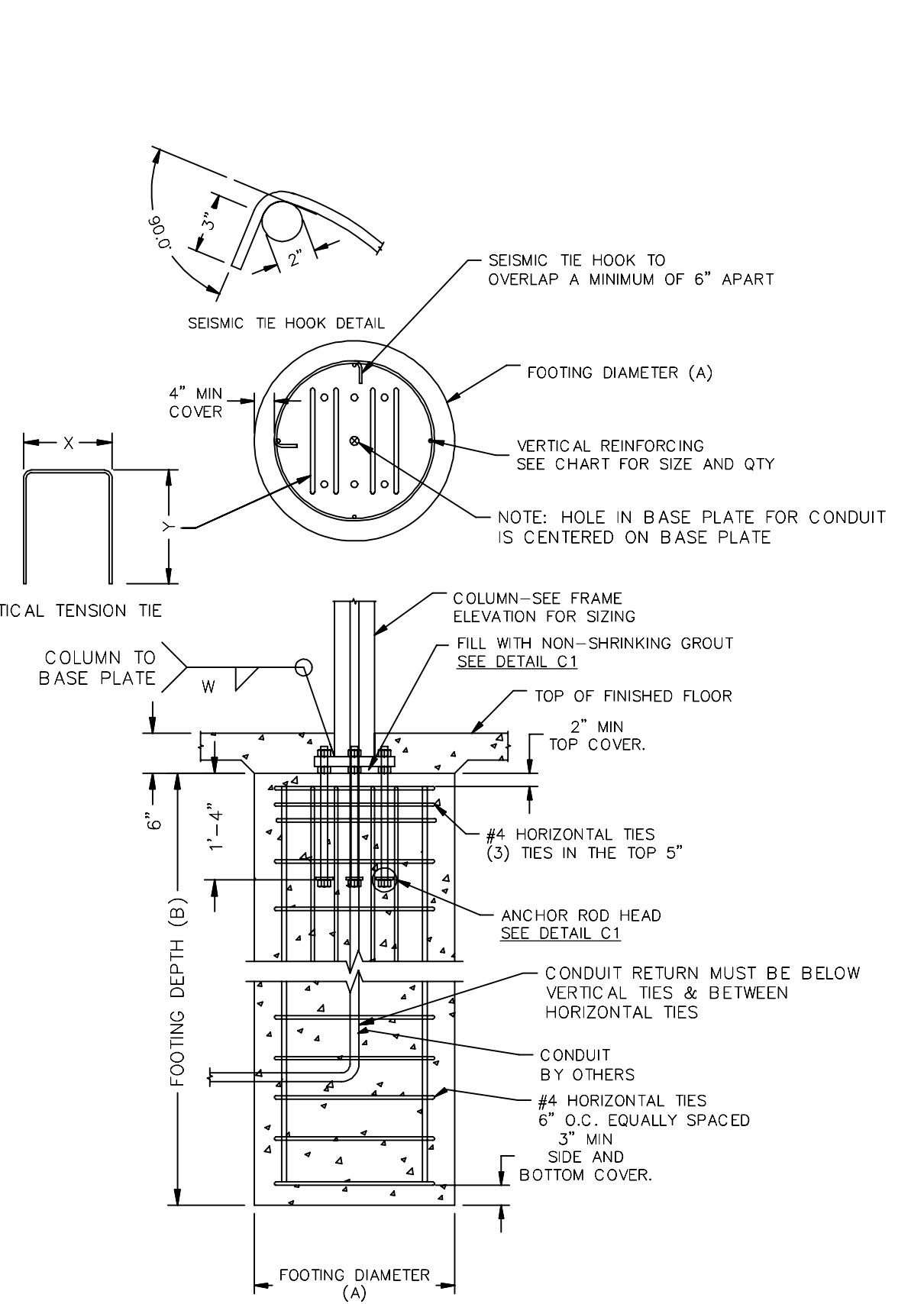
JRMA
 ARCHITECTS ENGINEERS
 2700 SATURN ST IRRGA, CA 92621
 T. 714.524.1870 F. 714.524.1875
 WWW.JRMA.COM

REGISTERED PROFESSIONAL ENGINEER
 ANGELO D. FORNARI
 STATE OF CALIFORNIA
 17/29/2021

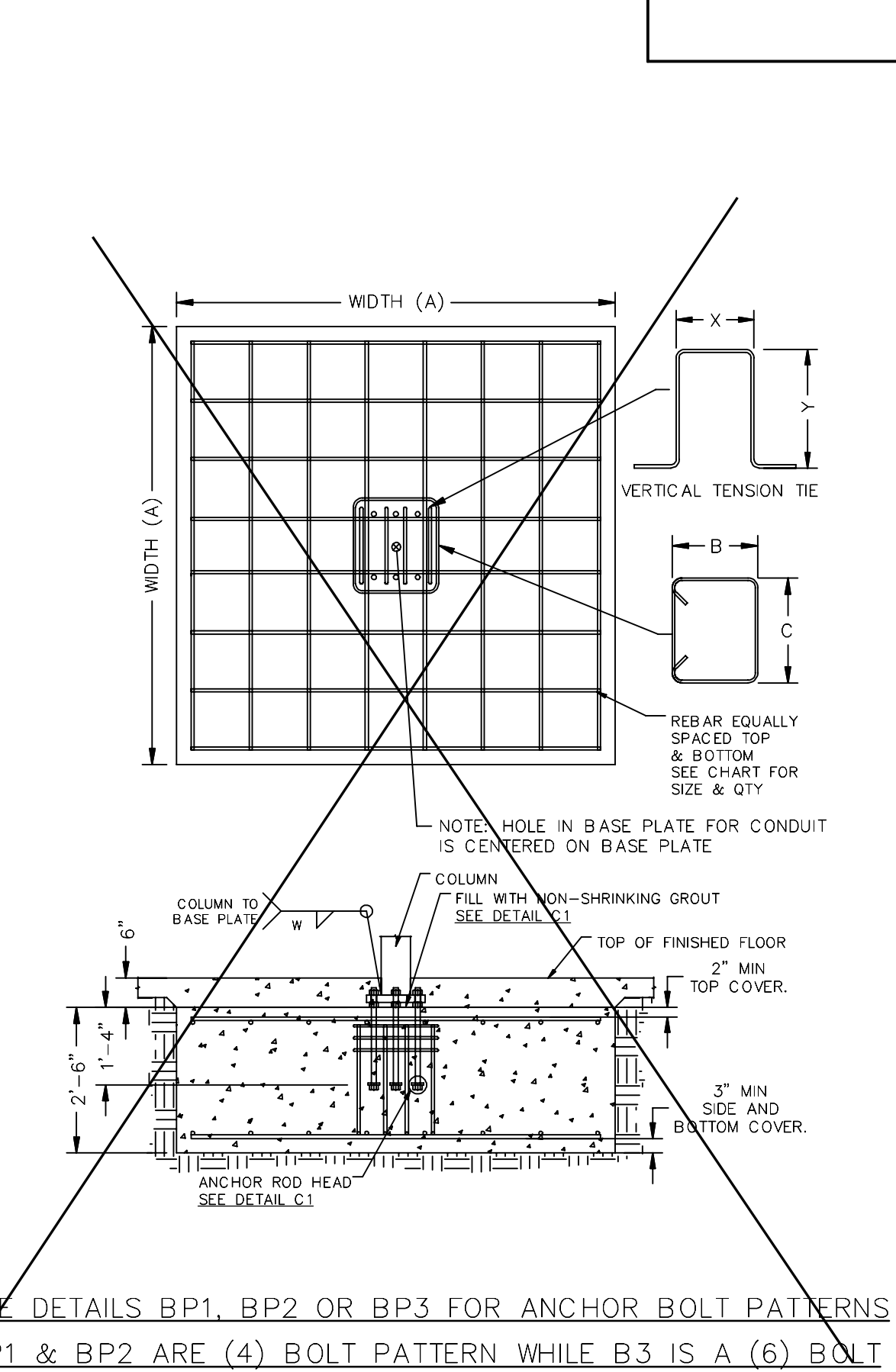
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 DIV. OF THE STATE ARCHITECT
 APP-04-120013 PC
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 SS FLS ACS CG
 DATE: 08/06/2021

30' WIDE RECTANGULAR HIP

RH30 - PIER				
8' height - Corner Columns				
Soil Class	Vertical Rebar Qty	Vertical Rebar Size	Rebar Size	Weld
Soil Class 5 - 1500 psf Bearing	24	114	6	6
Soil Class 4 - 2000 psf Bearing	24	98	6	6
Soil Class 3 - 3000 psf Bearing	24	92	6	6
8' height - Side Columns				
Soil Class 5 - 1500 psf Bearing	36	144	12	6
Soil Class 4 - 2000 psf Bearing	30	132	8	6
Soil Class 3 - 3000 psf Bearing	30	118	8	6
10' height - Corner Columns				
Soil Class 5 - 1500 psf Bearing	24	120	6	6
Soil Class 4 - 2000 psf Bearing	24	102	6	6
Soil Class 3 - 3000 psf Bearing	24	92	6	6
10' height - Side Columns				
Soil Class 5 - 1500 psf Bearing	36	136	12	6
Soil Class 4 - 2000 psf Bearing	30	124	8	6
Soil Class 3 - 3000 psf Bearing	30	112	8	6
12' height - Corner Columns				
Soil Class 5 - 1500 psf Bearing	30	132	8	6
Soil Class 4 - 2000 psf Bearing	30	112	8	6
Soil Class 3 - 3000 psf Bearing	30	102	8	6
12' height - Side Columns				
Soil Class 5 - 1500 psf Bearing	36	140	12	6
Soil Class 4 - 2000 psf Bearing	36	120	12	6
Soil Class 3 - 3000 psf Bearing	36	108	12	6



RH30 - SPREAD												
8' height - Corner Columns												
Soil Class	Depth (in)	T&B Qty	Rebar Size	Rebar Size	Weld	8' Corner Columns						
Soil Class 5 - 1500 psf Bearing	60	30	4	6	6	X (in)	Y (in)	B (in)	C (in)	Rebar Size	Fillet Weld "W"	
Soil Class 4 - 2000 psf Bearing	56	30	4	6	6	14	20	15.9	17.3	5	1/4	
Soil Class 3 - 3000 psf Bearing	54	30	4	6	6	14	20	15.9	17.3	5	1/4	
8' height - Side Columns												
Soil Class 5 - 1500 psf Bearing	80	30	5	6	6	X (in)	Y (in)	B (in)	C (in)	Rebar Size	Fillet Weld "W"	
Soil Class 4 - 2000 psf Bearing	72	30	5	6	6	16	20	15.6	19.3	5	1/4	
Soil Class 3 - 3000 psf Bearing	68	30	5	6	6	16	20	15.6	19.3	5	1/4	
10' height - Corner Columns												
Soil Class 5 - 1500 psf Bearing	66	30	5	6	6	X (in)	Y (in)	B (in)	C (in)	Rebar Size	Fillet Weld "W"	
Soil Class 4 - 2000 psf Bearing	60	30	4	6	6	14	20	15.9	17.3	5	1/4	
Soil Class 3 - 3000 psf Bearing	57	30	4	6	6	14	20	15.9	17.3	5	1/4	
10' height - Side Columns												
Soil Class 5 - 1500 psf Bearing	81	30	5	6	6	X (in)	Y (in)	B (in)	C (in)	Rebar Size	Fillet Weld "W"	
Soil Class 4 - 2000 psf Bearing	72	30	5	6	6	16	20	15.6	19.3	5	1/4	
Soil Class 3 - 3000 psf Bearing	69	30	5	6	6	16	20	15.6	19.3	5	1/4	
12' height - Corner Columns												
Soil Class 5 - 1500 psf Bearing	78	30	5	6	6	X (in)	Y (in)	B (in)	C (in)	Rebar Size	Fillet Weld "W"	
Soil Class 4 - 2000 psf Bearing	72	30	5	6	6	16	20	15.6	19.3	5	5/16	
Soil Class 3 - 3000 psf Bearing	72	30	5	6	6	16	20	15.6	19.3	5	5/16	
12' height - Side Columns												
Soil Class 5 - 1500 psf Bearing	84	30	6	6	6	X (in)	Y (in)	B (in)	C (in)	Rebar Size	Fillet Weld "W"	
Soil Class 4 - 2000 psf Bearing	75	30	5	6	6	20	20	16.6	21.3	5	1/4	
Soil Class 3 - 3000 psf Bearing	75	30	5	6	6	20	20	16.6	21.3	5	1/4	



SEE DETAILS BP1, BP2 OR BP3 FOR ANCHOR BOLT PATTERNS
 BP1 & BP2 ARE (4) BOLT PATTERN WHILE BP3 IS A (6) BOLT

SEE DETAILS BP1, BP2 OR BP3 FOR ANCHOR BOLT PATTERNS
 BP1 & BP2 ARE (4) BOLT PATTERN WHILE BP3 IS A (6) BOLT

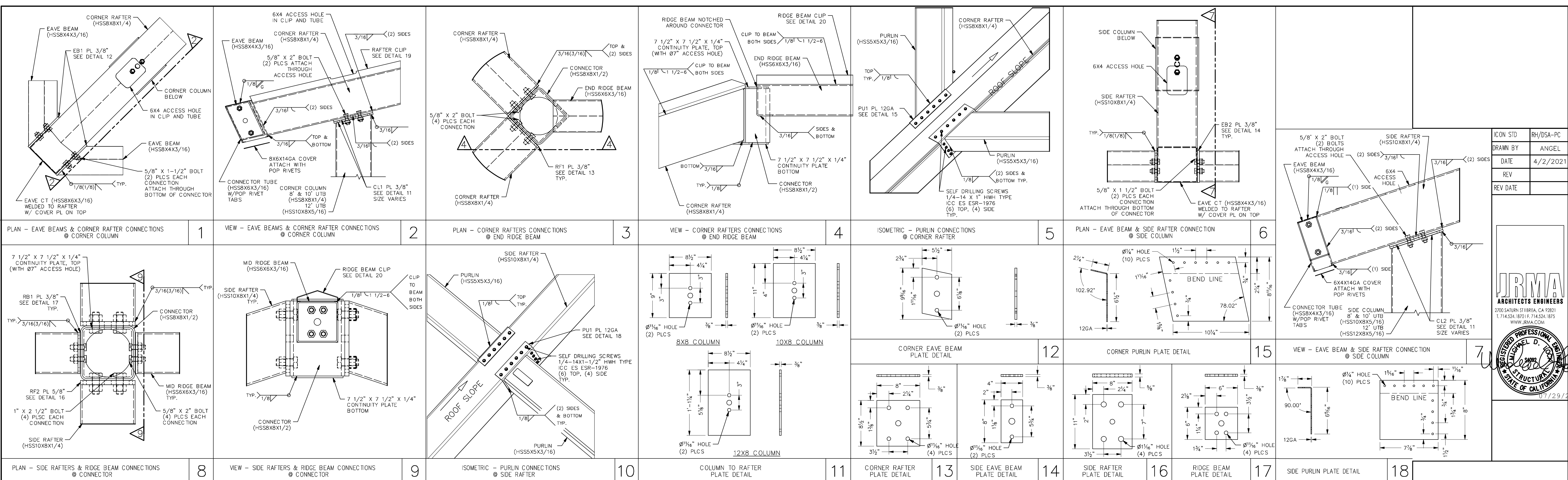
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 Code: 2019 CBC
 A separate project application for construction is required.

30' WIDE
 RECTANGULAR HIP
 FOUNDATION PLAN

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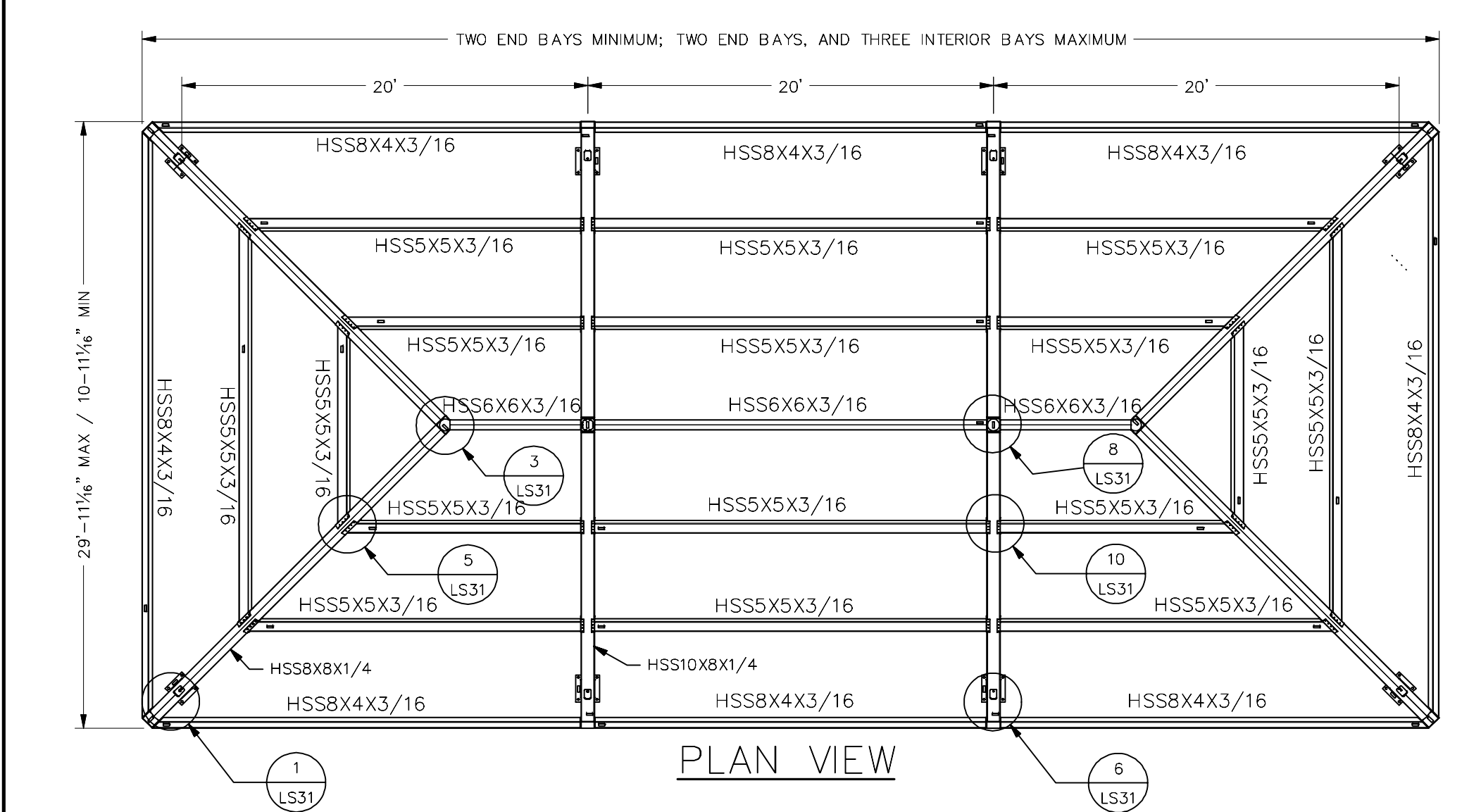
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REGISTERED PROFESSIONAL ENGINEER
 ANGELO D. JOHNSON
 LICENSE NO. 44890
 STATE OF CALIFORNIA



MODEL DESIGNATION

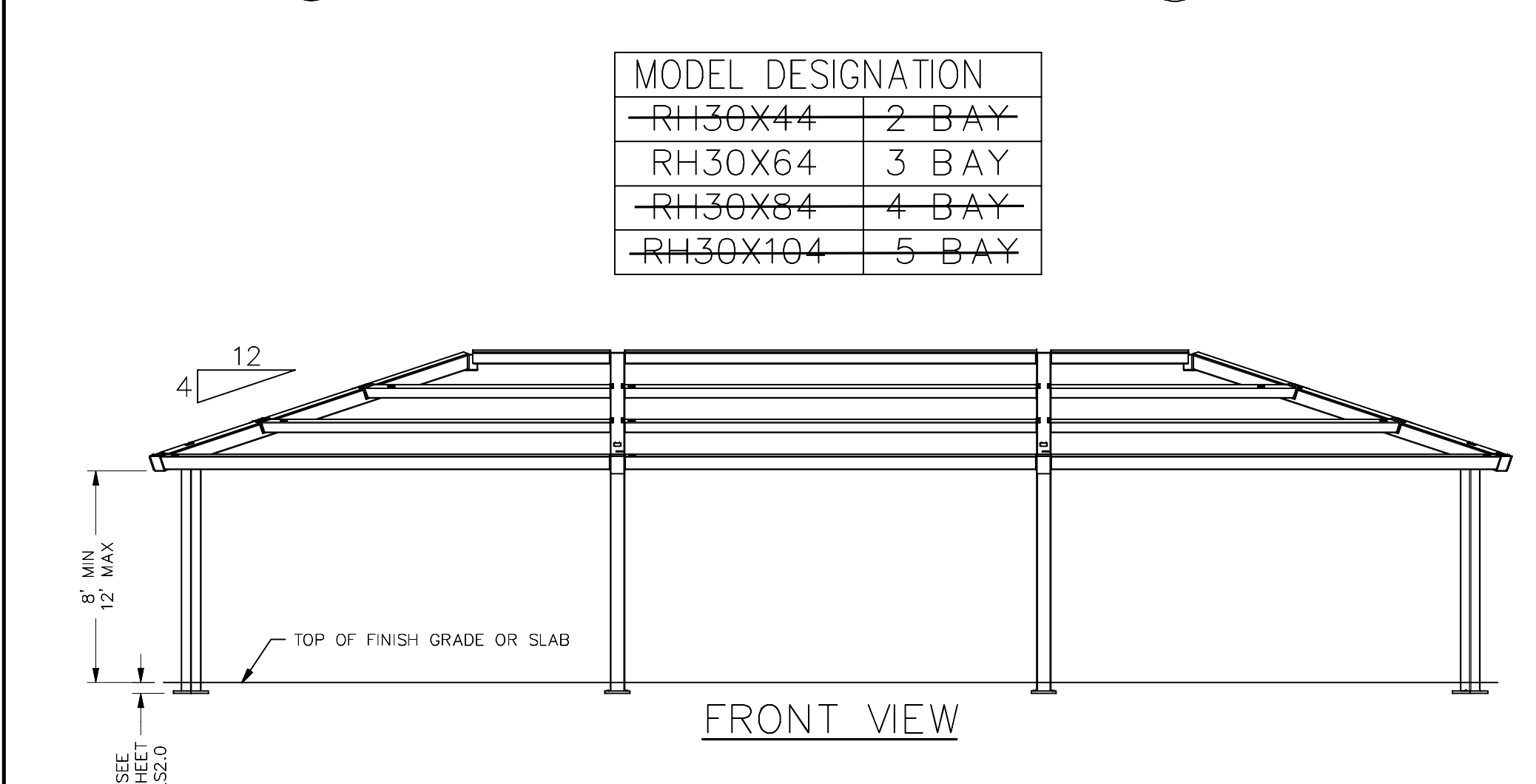
RH30X44	2 BAY
RH30X64	3 BAY
RH30X84	4 BAY
RH30X104	5 BAY

*NOTE: QUANTITIES WILL VARY DEPENDING ON SHELTER SIZE ORDERED, PLEASE REFER TO JOB SPECIFIC BILL OF MATERIALS AND INSTALLATION MANUAL.

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	LENGTH	UNIT WEIGHT
1	4		CORNER COLUMN	**SEE NOTE BELOW		353 lbmass
2	*		SIDE COLUMN	**SEE NOTE BELOW		399 lbmass
3	2		LH SIDE EAVE BEAM	HSS8X4X3/16		311 lbmass
4	2		RH SIDE EAVE BEAM	HSS8X4X3/16		311 lbmass
5	2		END EAVE BEAM	HSS8X4X3/16		422 lbmass
6	*		SIDE EAVE BEAM	HSS8X4X3/16		287 lbmass
7	4		CORNER RAFTER	HSS8X8X1/4		607 lbmass
8	*		SIDE RAFTER	HSS10X8X1/4		474 lbmass
9	2		END RIDGE BEAM	HSS6X6X3/16		149 lbmass
10	*		MID RIDGE BEAM	HSS6X6X3/16		329 lbmass
11	*		CONNECTOR	HSS8X8X1/2		48 lbmass
12	2		LH SIDE PURLIN 1	HSS5X5X3/16		238 lbmass
13	2		RH SIDE PURLIN 1	HSS5X5X3/16		238 lbmass
14	2		END PURLIN 1	HSS5X5X3/16		278 lbmass
15	2		LH SIDE PURLIN 2	HSS5X5X3/16		167 lbmass
16	2		RH SIDE PURLIN 2	HSS5X5X3/16		167 lbmass
17	2		END PURLIN 2	HSS5X5X3/16		137 lbmass
18	*		MID PURLIN	HSS5X5X3/16		284 lbmass

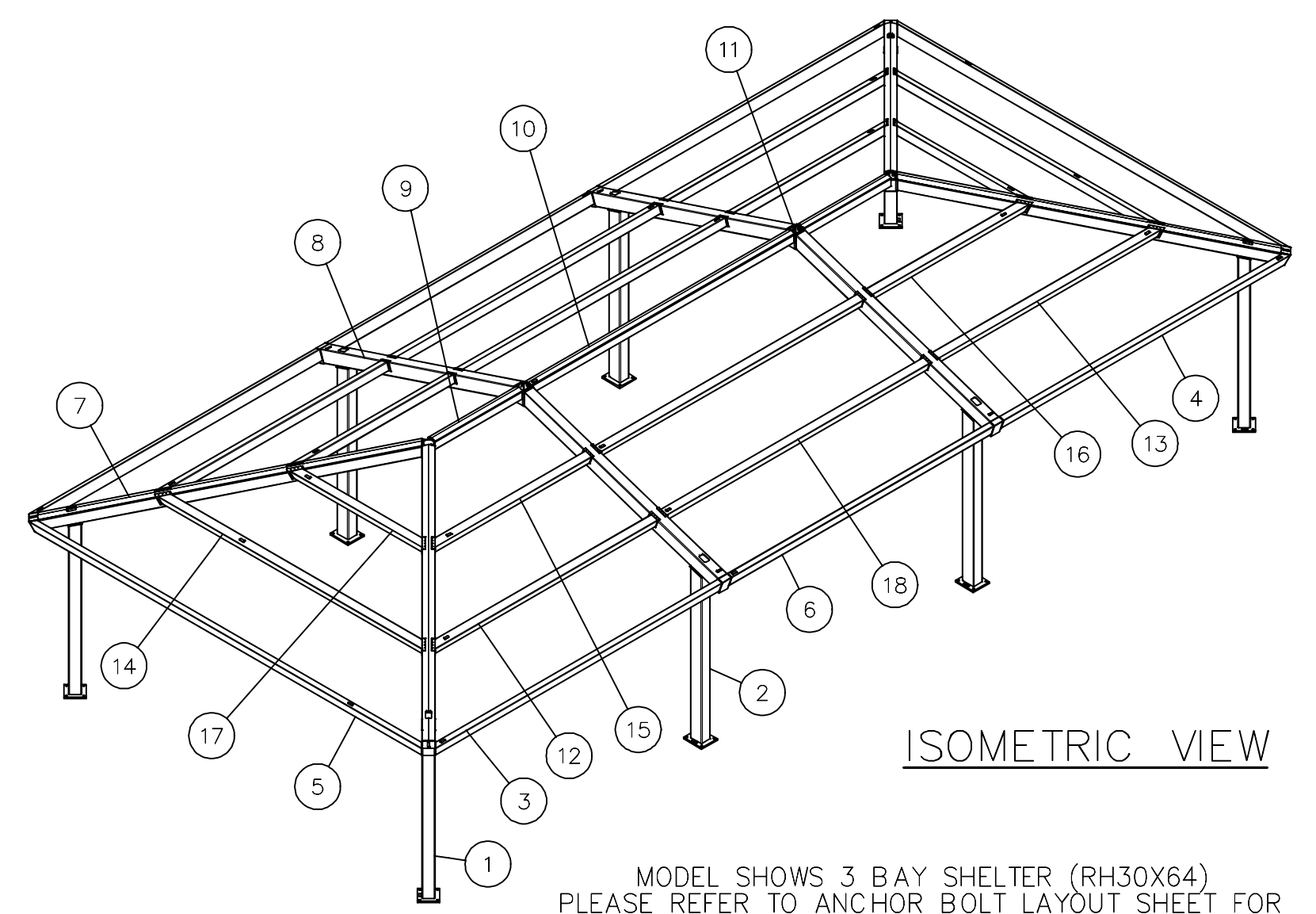
**NOTE: MATERIAL WILL VARY DEPENDING ON SHELTER SIZE ORDERED.

- CORNER COLUMN 8' UTB - (HSS8X8X1/4)
- SIDE COLUMN 8' UTB - (HSS10X8X5/16)
- CORNER COLUMN 10' UTB - (HSS8X8X1/4)
- SIDE COLUMN 10' UTB - (HSS10X8X5/16)
- CORNER COLUMN 12' UTB - (HSS10X8X5/16)
- SIDE COLUMN 12' UTB - (HSS12X8X5/16)

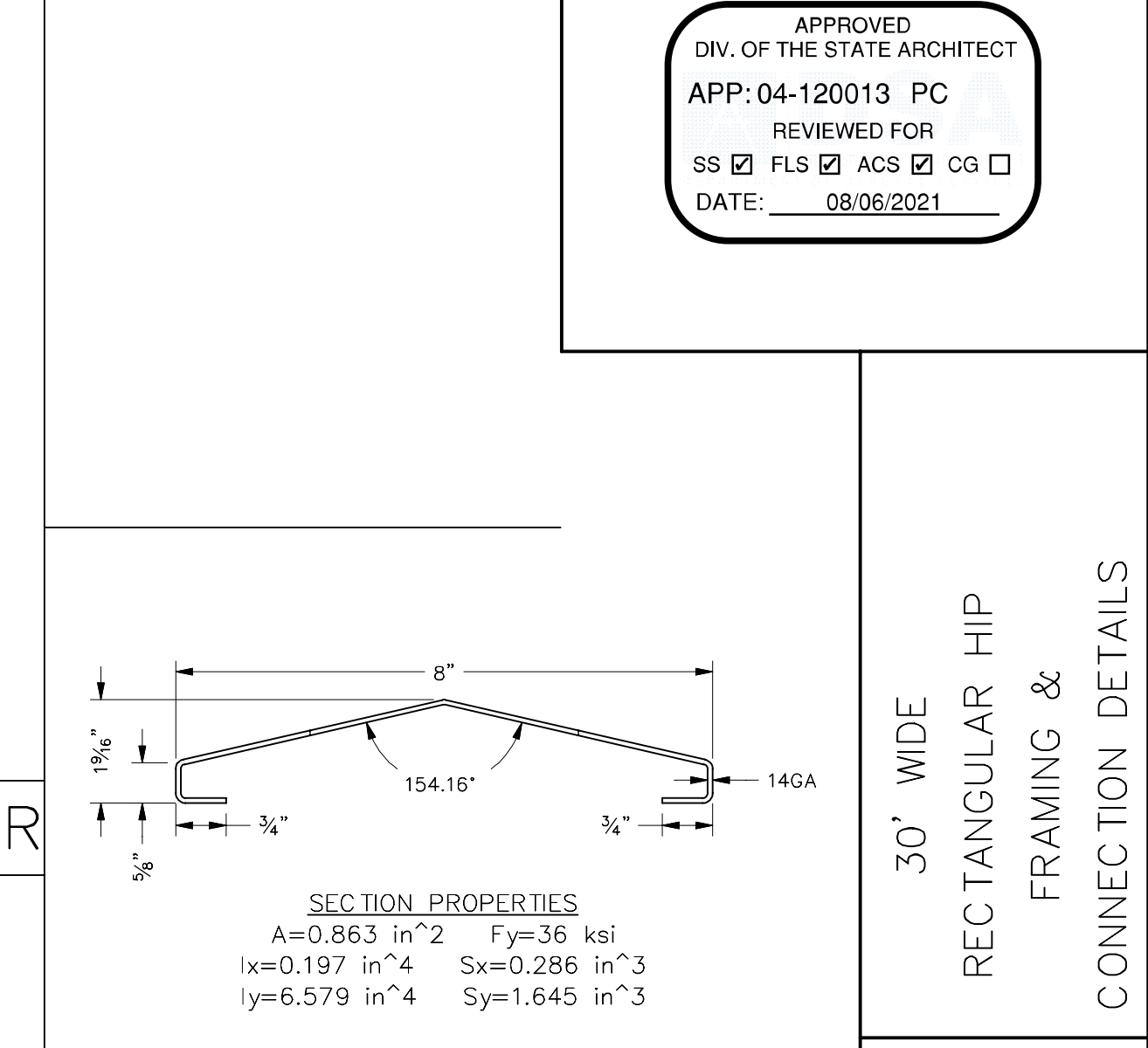
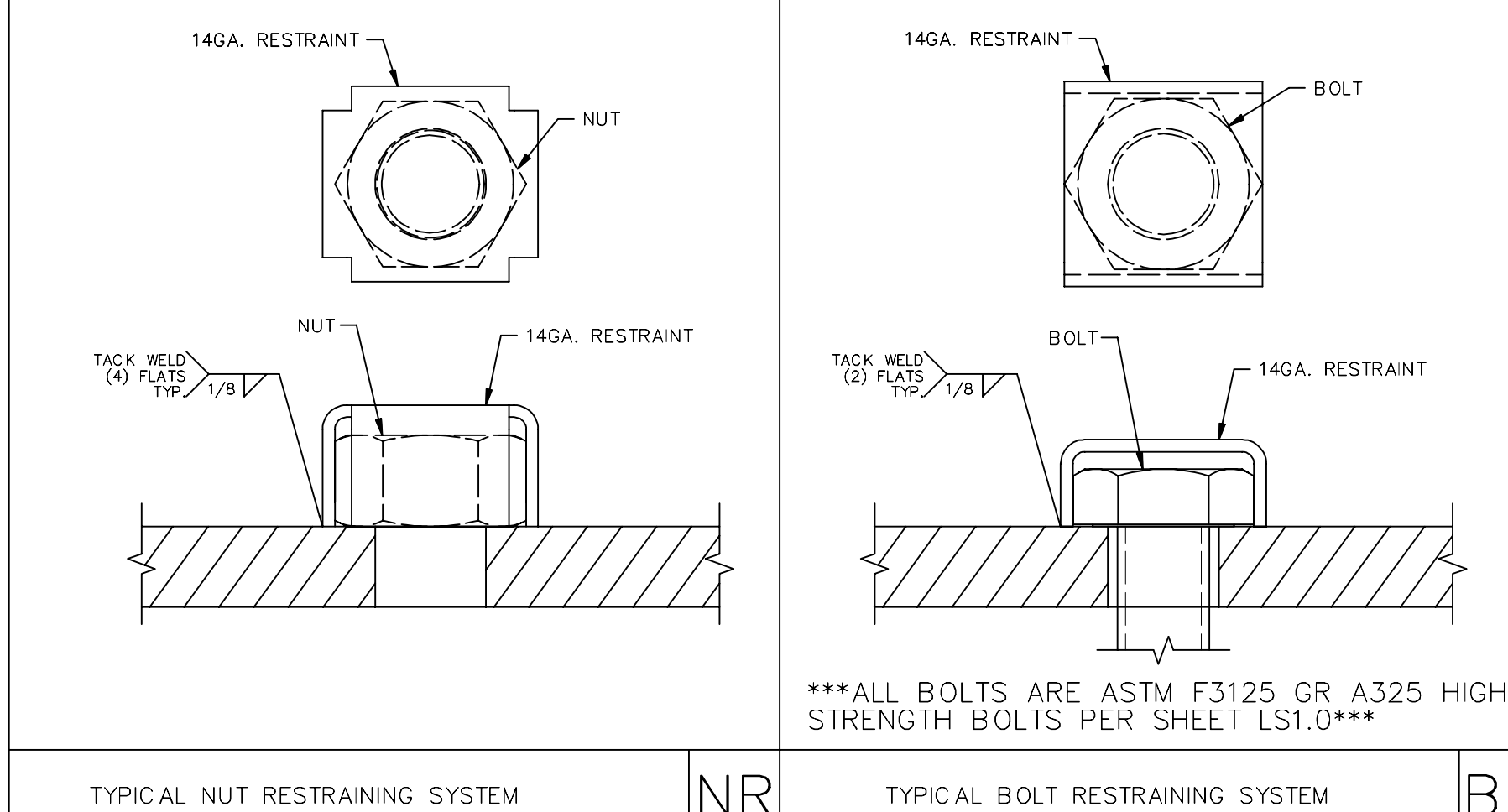


96" MIN IF USED OVER ACCESSIBLE PARKING OR ACCESS AISLES

114" MIN IF LOCATED OVER ACCESSIBLE PASSENGER LOADING ZONES



MODEL SHOWS 3 BAY SHELTER (RH30X64)
 PLEASE REFER TO ANCHOR BOLT LAYOUT SHEET FOR CORRECT COLUMN PLACEMENT BASED ON SIZE ORDERED



APPROVED
 DIV. OF THE STATE ARCHITECT
 APP-04-120013 PC
 REVIEWED FOR
 SS FLS ACS CG
 DATE: 08/06/2021

30' WIDE RECTANGULAR HIP FRAMING & CONNECTION DETAILS

ICON
 Shelter Systems Inc

DISTINCTIVE STEEL SHELTERS
 WWW.ICONSHELTERS.COM
 COPYRIGHT 2004, ICON SHELTER SYSTEMS, INC.
 1455 LINCOLN AVE
 HOLLAND MI, 49423

616.396.0919
 800.748.0985
 616.396.0944 FX

PRE-CHECK (PC) DOCUMENT
 Code: 2019 CBC
 A separate project application for construction is required.

LS3.1

ELECTRICAL INFORMATION - RECTANGULAR HIP

ICON'S STANDARD ELECTRICAL IS DESIGNED TO ACCOMMODATE Ø1/2" CONDUIT WITH A Ø3" INLET HOLE ON THE BOTTOM OF EACH COLUMN. THE CONDUIT PATHWAY RUNS THROUGH THE COLUMN, RAFTER, AND RIDGE BEAM THROUGH ALL BOLTED CONNECTIONS AS SHOWN. IF YOU HAVE SPECIAL ELECTRICAL REQUIREMENTS, PLEASE OUTLINE ANY CHANGES BELOW AS DESCRIBED.

PLEASE NOTE: DESIGN LIMITATIONS ON HOLE/CUTOUT SIZES MAY APPLY. ICON WILL REACH OUT TO DISCUSS ANY SUCH LIMITATIONS AS NEEDED.

NOTE: ICON SHELTER FRAME IS NOT UL LISTED TO ACT AS A CONDUIT FOR ELECTRICAL WIRING. CONSULT LOCAL BUILDING CODES WHEN PLANNING YOUR ELECTRICAL SYSTEM.

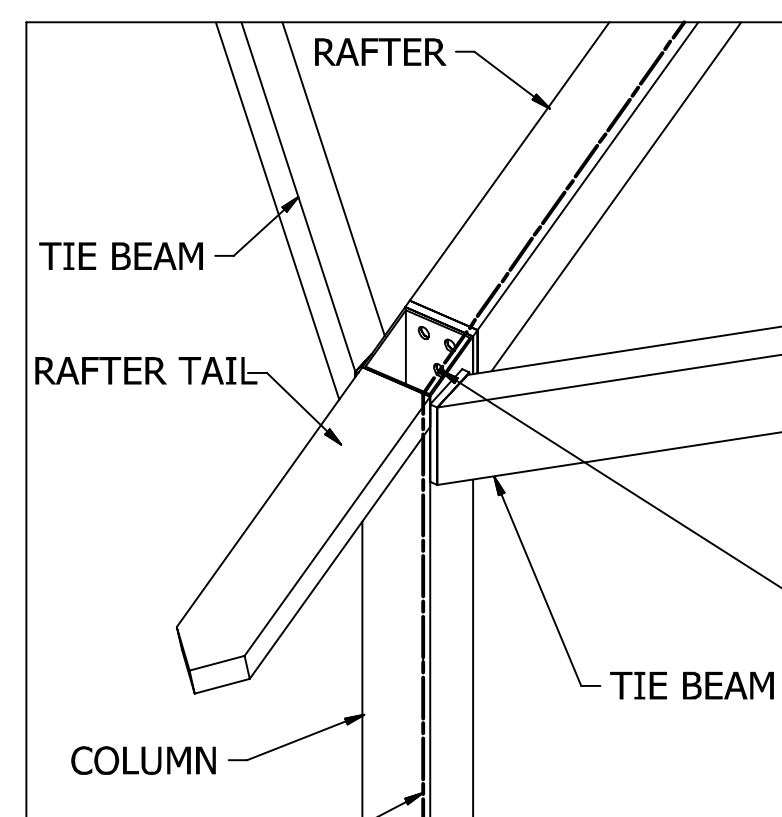
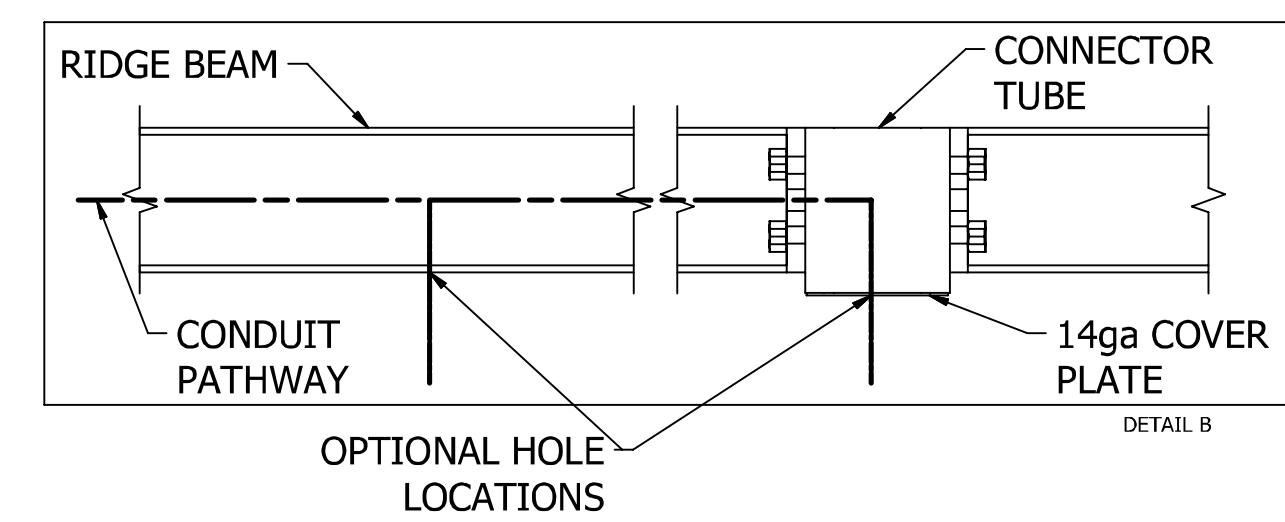
PRELIMINARY: NOT FOR CONSTRUCTION

STEPS:

1. CONDUIT HOLE SIZE (DETAIL A)
2. ELECTRICAL EXIT HOLES (DETAIL B)
3. ELECTRICAL ACCESS & COVER PLATES (DETAIL C)
4. ELECTRICAL CONDUIT PATHWAY (DETAIL D)

OPTIONAL EXIT HOLES

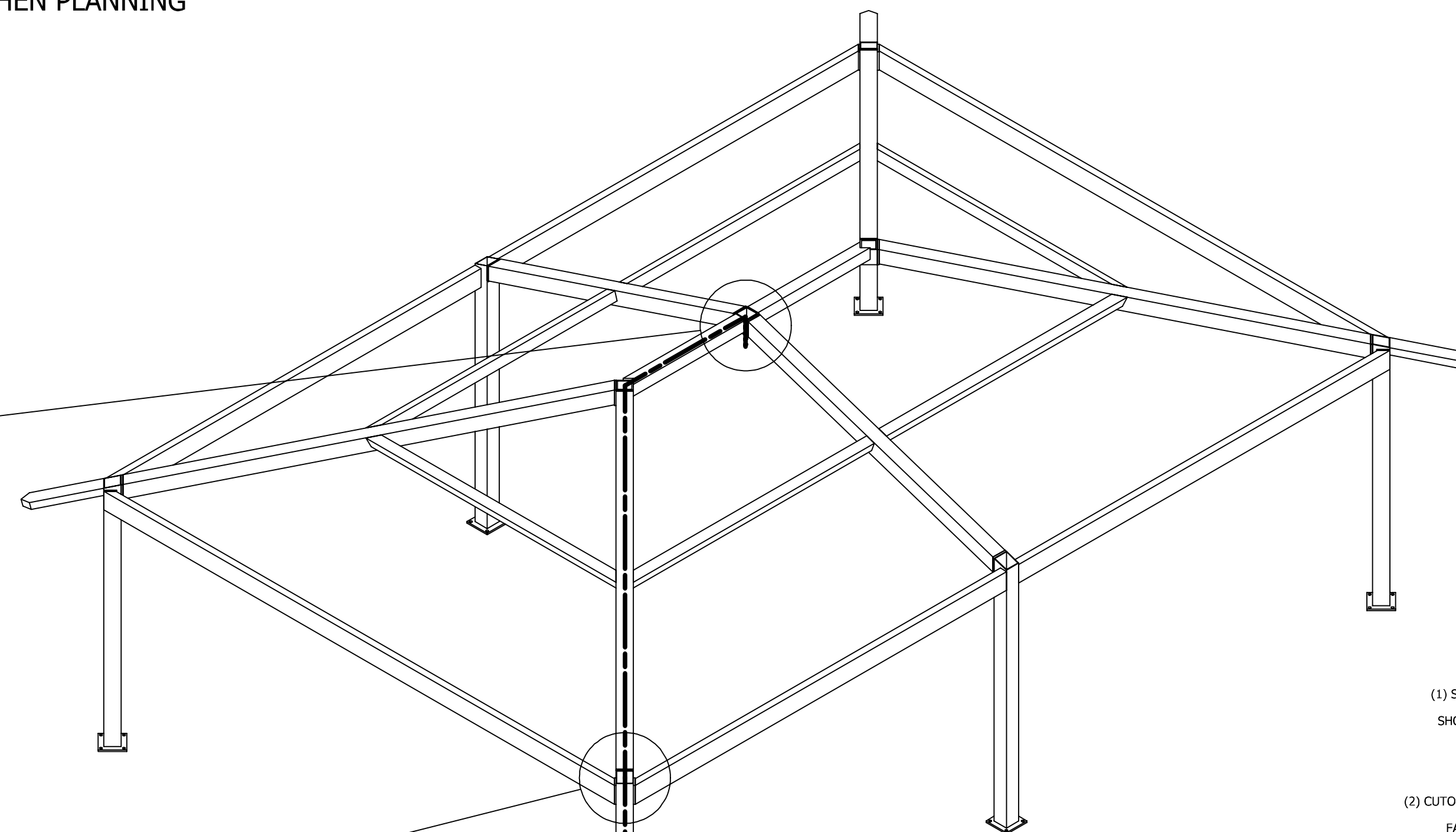
IF REQUIRED, EXIT HOLES FOR LIGHTING, ETC. CAN BE PLACED IN THE RIDGE BEAM AND/OR CONNECTOR TUBE WITH 14ga COVER PLATE AS SHOWN (CHARGES APPLY). USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED EXIT HOLE LOCATIONS AND SIZE.



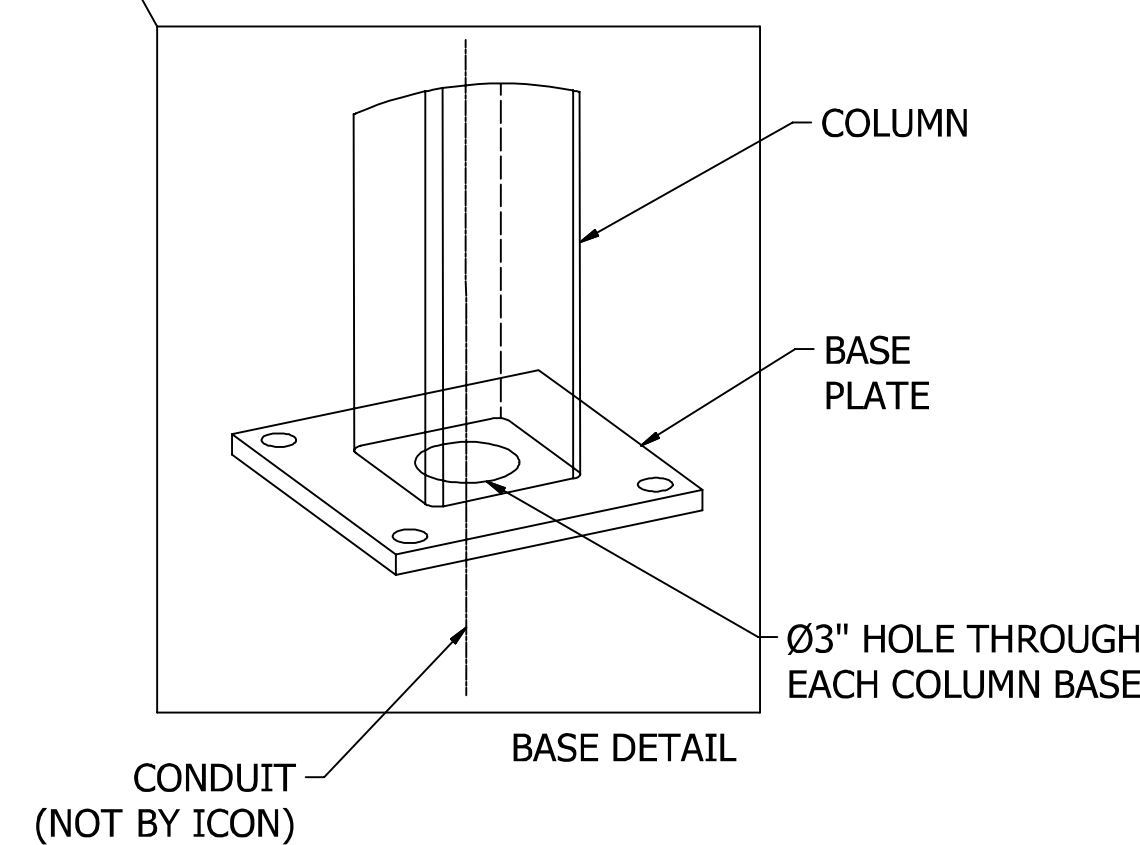
ICON PROVIDES A MINIMUM OF (1) 3/4" HOLE AT EACH CONNECTION FOR 1/2" CONDUIT. IF APPLICABLE, PLEASE SPECIFY REQUIRED CONDUIT SIZE: (CHARGES APPLY)

- 3/4" CONDUIT (1" HOLES)
- 1" CONDUIT (1 1/4" HOLES)
- OTHER (PLEASE SPECIFY)

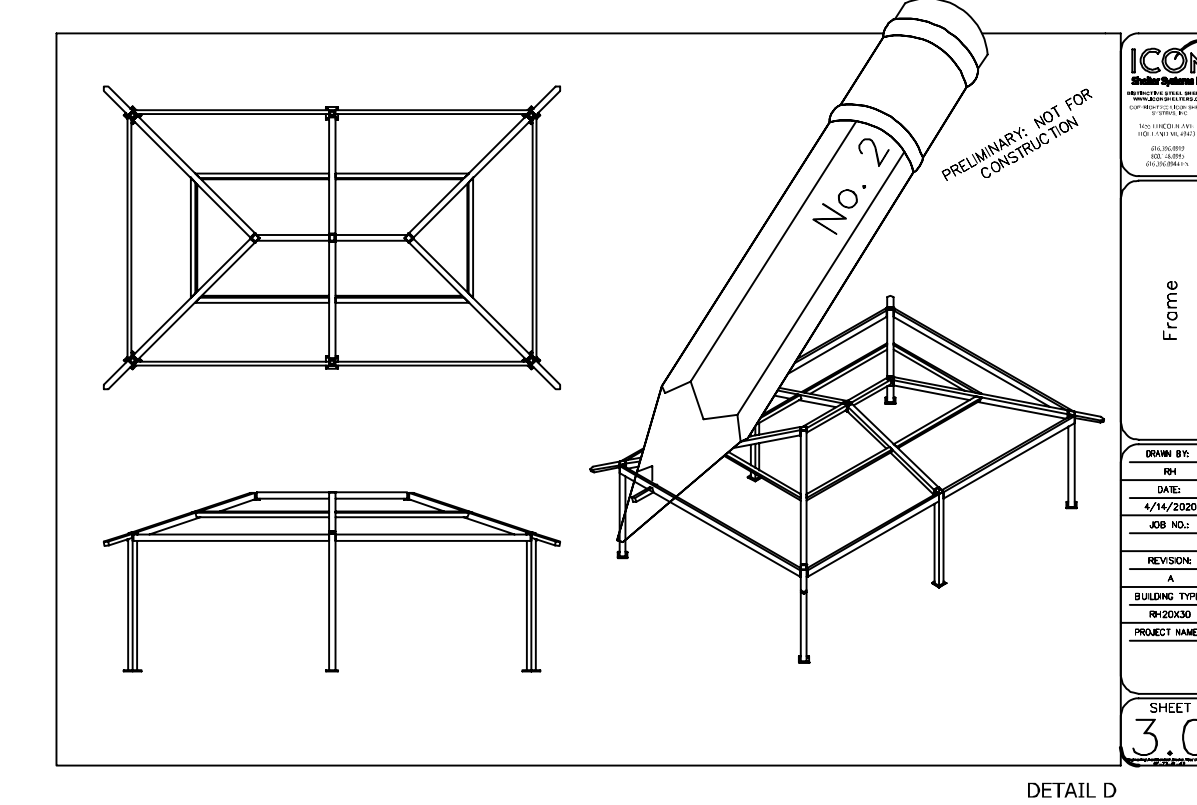
NOTE: BUILDING DEPICTED ON THIS SHEET FOR ILLUSTRATION PURPOSES ONLY. ACTUAL LAYOUT AND FRAME MEMBER QUANTITIES VARY BY DESIGN. PLEASE REFER TO ELEVATION AND FRAME SHEETS IN THIS PRELIMINARY FOR ORDER-SPECIFIC CONFIGURATION.



CONDUIT PATHWAY PROVIDED FOR EACH COLUMN.

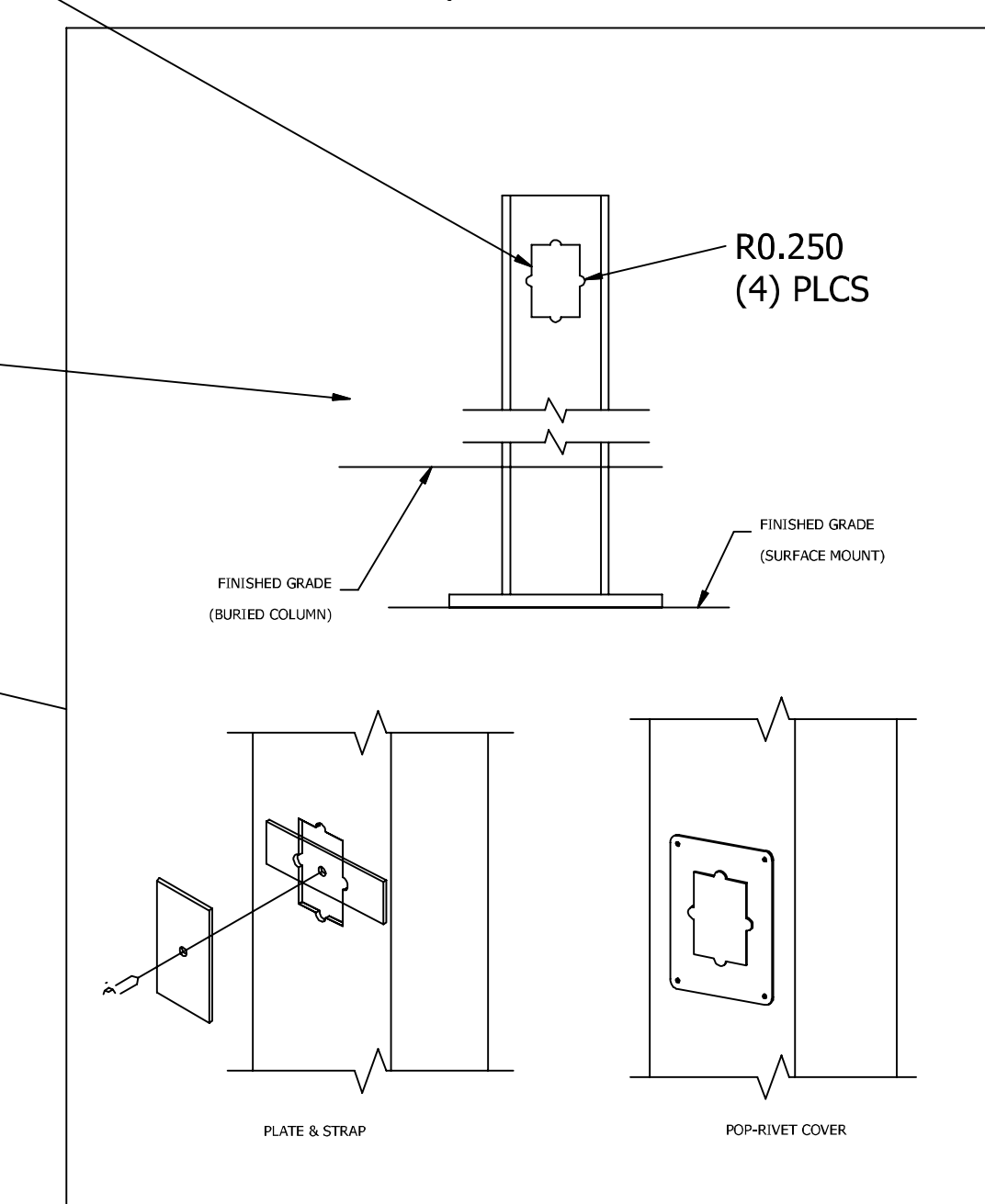


IF REQUIRED, PLEASE DRAW THE NECESSARY ELECTRICAL CONDUIT PATHWAY ON THE FRAME SHEET OF THIS PRELIMINARY.



OPTIONAL CUTOUTS
USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED CUTOUT LOCATIONS (CHARGES APPLY). SEE REQUIRED INFO BELOW.

- (1) STANDARD CUTOUT SIZE SHOWN. SPECIFY IF OTHER SIZE REQUIRED.
- (2) CUTOUTS WILL BE ON INSIDE FACE OF COLUMN UNLESS OTHERWISE INDICATED ON FRAME SHEET.
- (3) SPECIFY HEIGHT ABOVE FINISHED GRADE FOR EACH CUTOUT AS SHOWN



- (4) COVER PLATES PROVIDED UPON REQUEST (CHARGES APPLY)
PLEASE SPECIFY TYPE AND QUANTITY REQUIRED:
- PLATE & STRAP
 - POP-RIVET COVER PLATE
- HOW MANY REQUIRED? _____

ICON STD	RH/DSA-PC
DRAWN BY	ANGEL
DATE	4/2/2021
REV	
REV DATE	

JRMA
ARCHITECTS ENGINEERS
2700 SATURN ST 1885A, CA 92821
T. 714.524.1870 F. 714.524.1875
WWW.JRMA.COM

REGISTERED PROFESSIONAL ENGINEER
ANGEL D. JOY
NO. 50892
EXPIRES 12/31/2021
STATE OF CALIFORNIA

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-120013 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 08/06/2021

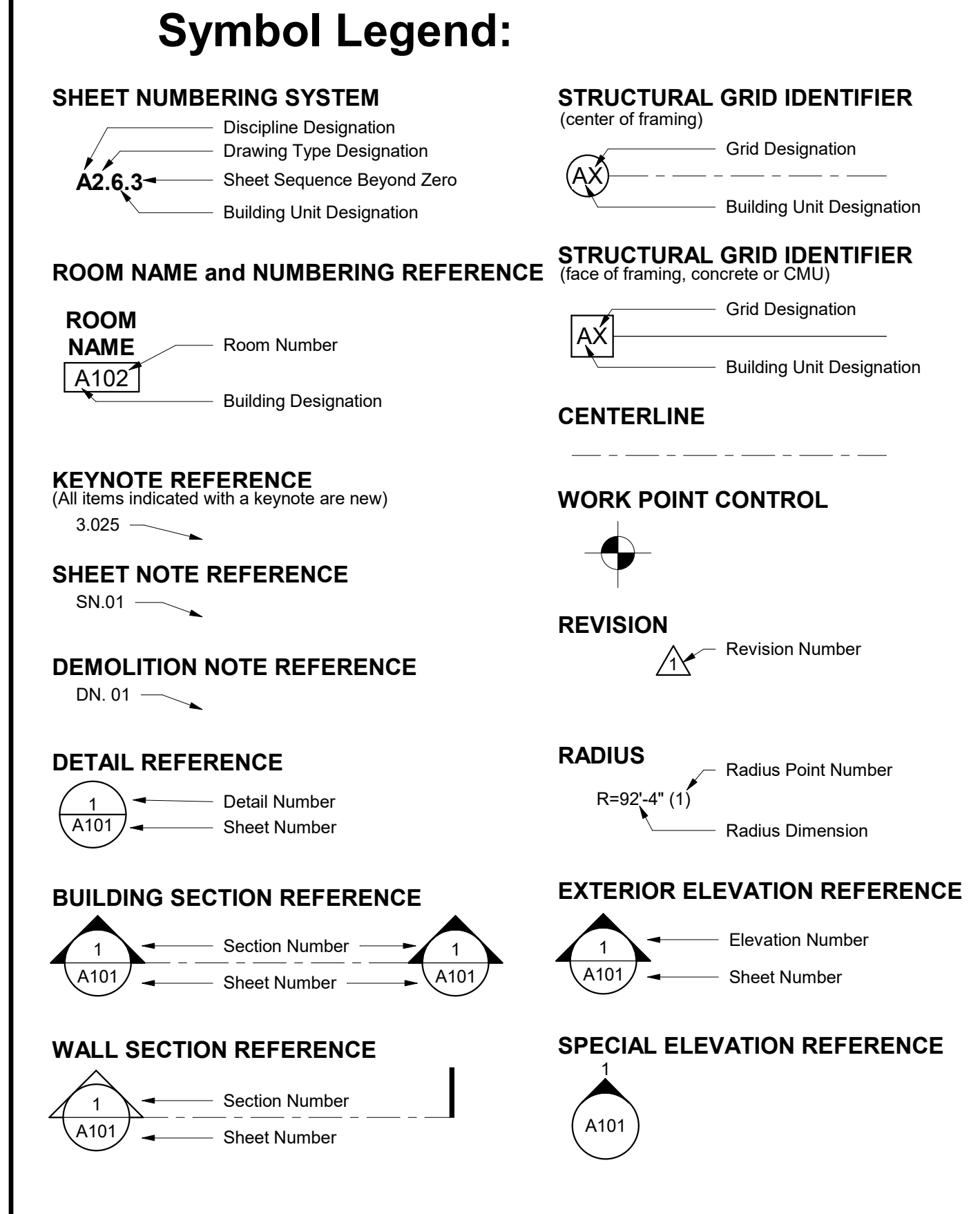
ELECTRICAL ACCESS

ICON Shelter Systems Inc
DISTINCTIVE STEEL SHELTERS
WWW.ICONSHelters.COM
COPYRIGHT 2004, ICON SHELTER SYSTEMS, INC.
1455 LINCOLN AVE
HOLLAND MI, 49423
616.396.0919
800.748.0985
616.396.0944 FX

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

LS5.0

Abbreviations:		
A	Angle	F.R.P.
ACOUS.	Acoustical	FLASH
AD	Area Drain	FT
A.V.	Audio Visual	FTQ
AUTO.	Automatic	FND
BM	Beam	FURR
BLK	Block	GALV.
BLKG.	Blocking	G.I.
BO.	Board	G.S.M.
BOT	Bottom	G.W.H.
BULDG.	Building	GA
CAB.	Cabinet	GLU/LAM./G.L.B.
CATV	Cable T.V.	GR.
C.I.	Cast Iron	GYP.
CLKB.	Catch Basin	GYP.BD.
CLKG.	Caulking	HDWR
CNTR./CTR.	Center	HDWD.
CER.	Ceramic	HDR.
CHALKB.	Chalkboard	HVAC
CL.	Clear	H.J.T.
CLR.	Clear	H.M.
C.W.	Cold Water	HORIZ.
COL.	Column	H.B.
CONC.	Concrete	HR.
C.M.U.	Concrete Masonry Unit	IN.
CONN.	Connection	INFO.
CONSTR.	Construction	INSUL.
C.J.	Construction Joint	INT.
CONT.	Continuous	INT.
CONTR.	Contractor	INV.
CORR.	Corrosion	JAN.
C.M.P.	Corrugated Metal Pipe	J.O.
C.U.	Custodian	JST.
D.	Deep/Depth	KP.
DET / DTL	Detail	KIT.
DIAG.	Diagonal	LAM.
DIA / Ø	Diameter	LAV.
DIM.	Dimension	L.T.
DIM PT.	Dimension Point	L.T.WT.
DRAWG.	Drawing	M.B.
D.W.	Dishwasher	M.H.
DR.	Door	MFR.
DBL.	Double	M.O.D.
DN.	Down	MATL.
DN.	Down	M.A.X.
D.I.	Drain Inlet	M.E.C.
D.W.G.	Drinking Fountain	M.E.M.B.
D.F.	Each	M.T.B.
E.	East	MEZZ.
E.C.	Electrical	MIN.
E.W.C.	Electric Water Cooler	MISC.
E.W.H.	Electric Water Heater	M.P.
EL./ELEV.	Elevation	(N)
EMER.	Emergency	NOM.
ENC.	Enclosure	N.
EQ.	Equal	N.I.C.
EXHAUST	Exhaust Fan	N.T.S.
(E)EXIST.	Existing	NO.#
EXP.	Expansion	W.D.W.
E.J.	Expansion Joint	W.G.
EXT.	Exterior	W.I.
F.O.C.	Face of Concrete/Curb	W/O
F.O.F.	Face of Finish	W/D.
F.O.S.	Face of Studs	O.C.
FB.	Fiberglass	OPP.
F.R.L.	Fiberglass Reinforced Laminate	O.H.
		O.H.W.S.
		OA.
		Overall
		P.D.F.
		PT.
		PR.
		PTN./PART.
		PEN.
		PERF.
		P.LAM.
		PL.
		P.V.
		PLYWD.
		PS.
		PREFAB.
		P.M.F.
		P.T./T.D.F.
		R.W.L.
		RDWD.
		REF.
		REINF.
		REQD.
		RET.
		R.D.
		RM.
		R.O.G.
		R.H.W.S.
		R.B.
		R.B.
		Rubber Base
		SECT.
		S.S.K.
		SHT.
		S.M.
		S.M.S.
		S.V.
		SHR./SHWR.
		S.
		S.C.
		Spec.
		SQ.
		SST./S.S.
		STD./STND.
		STL.
		STOR.
		S.
		Storm Drain
		S.D.S.T.
		S.F.
		STRUC.
		SUSP.
		SYM.
		TB.
		TEL./TELE.
		T.V.
		T.CLR.
		T.L.T.
		THK.
		THRES.
		THRU.
		T.O.
		T.O.C.
		T.O.P.
		T.O.W.
		T.S.
		TYP.
		U.O.N.
		Unless Otherwise Noted
		VERT.
		V.G.D.F.
		V.V.C.
		W.SCT.
		W.C.
		W.C.
		W.H.
		WT.
		W.W.M.
		W.
		W.D.W.
		W.G.
		W.I.
		W/O
		W/D.
		W.D.
		YD.
		Y.D.
		Yard Drain



SHADE STRUCTURE AT LEONARDO DA VINCI K-8 SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT SACRAMENTO, CA

Architect:
Rainforth Grau Architects
 2101 Capitol Avenue, Suite 100
 Sacramento, CA 95816
 916.368.7990

Owner:
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
 5737 47TH AVENUE
 SACRAMENTO, CA 95824
 916.643.7400

Contact: VIPUL SAFI

Consultants:

CIVIL ENGINEER: WARREN CONSULTING ENGINEERS 1117 WINDFIELD WAY, SUITE 110 EL DORADO HILLS, CA 95762 916.985.1870 ATTN: ANTHONY TASSANO	ELECTRICAL ENGINEER: PETERS ENGINEERING 7750 COLLEGE TOWN DRIVE, SUITE 101 SACRAMENTO, CA 95826 916.447.2841 ATTN: GINO ROMANO
--	--

Contact: MIKE TAXARA

Project Information:

SITE LOCATION
 4701 JOAQUIN WAY
 SACRAMENTO, CA 95822

Project Scope:

INSTALLATION OF (1) 30' X 64' PC SHADE STRUCTURE AND RELATED CONCRETE PAD, UPGRADES TO ACCESSIBLE PATH OF TRAVEL, PARKING AND RESTROOMS, RELATED SITE AND ELECTRICAL WORK.

SCHEDULE OF ALTERNATES:

ALTERNATE NO. 1: CRACK REPAIR, SEAL COAT AND RESTRIPIING
 A. The contractor is responsible for determining the extent of crack repair at (e) hardcourt. Place 2 coats of seal coat on existing paving. Seal coat to be provided over entirety of (e) hardcourt. The contractor is responsible for verifying (e) striping condition and verifying exact layout to be restriped with District.

FIRE SAFETY: THE CONTRACTOR SHALL COMPLY WITH CFC CH 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.

Sheet Index

GENERAL	
A0.1	COVER SHEET
A0.2	TYPICAL MOUNTING HEIGHTS AND DETAILS
A0.7	LOCAL FIRE AUTHORITY SITE PLAN
CIVIL	
C0.1	CIVIL GENERAL NOTES AND ABBREVIATIONS
C1.1	DEMOLITION PLAN
C2.1	GRADING AND PAVING PLAN
ARCHITECTURAL	
A1.1.0	SITE PLAN AND CODE INFORMATION
A1.1.1	PARTIAL SITE PLANS AND DETAILS
A2.1.1	TOILET ROOM DEMOLITION AND IMPROVEMENT PLANS AND INTERIOR ELEVATIONS
ELECTRICAL	
EO.1	SYMBOLS, NOTES
E1.1	SITE PLAN - ELECTRICAL
E2.1	ONE LINE DIAGRAM
E3.1	DETAILS
TOTAL SHEET COUNT: 13	

Applicable Codes:

CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING CODES AND STANDARDS:

TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
 TITLE 24, CCR, PART 1, 2019 CALIFORNIA ADMINISTRATIVE CODE
 TITLE 24, CCR, PART 2, 2019 CALIFORNIA BUILDING CODE, VOL. 1 & 2
 TITLE 24, CCR, PART 3, 2019 CALIFORNIA ELECTRICAL CODE
 TITLE 24, CCR, PART 4, 2019 CALIFORNIA MECHANICAL CODE
 TITLE 24, CCR, PART 5, 2019 CALIFORNIA PLUMBING CODE
 TITLE 24, CCR, PART 6, 2019 CALIFORNIA ENERGY CODE
 TITLE 24, CCR, PART 9, 2019 CALIFORNIA FIRE CODE
 TITLE 24, CCR, PART 10, 2019 CALIFORNIA EXISTING BUILDING CODE
 TITLE 24, CCR, PART 11, 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
 TITLE 24, CCR, PART 12, 2019 CALIFORNIA REFERENCED STANDARDS CODE

NFPA 13, 2016 EDITION, INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDMENTS)
 NFPA 72, 2016 EDITION, NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDMENTS)

UL 464, 2003 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES

UL 521, 7TH EDITION, 1999 HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS

THE CONTRACTOR SHALL KEEP TITLE 24, CCR, PARTS 1-15 ON THE BUILDING SITE AT ALL TIMES.

DSA Procedures:

- ADDENDA MUST BE STAMPED AND SIGNED BY THE ARCHITECT OF RECORD AND APPROVED BY DSA IN ACCORDANCE WITH CCR TITLE 24, PART 1.
- THE CONTRACTOR SHALL BE FAMILIAR WITH AND PERFORM THE DUTIES IN ACCORDANCE WITH DSA PROCEDURE 13-01, CONSTRUCTION OVERSIGHT PROCESS.
- CHANGES TO THE STRUCTURAL, ACCESSIBILITY, OR FIRE AND LIFE-SAFETY PORTIONS OF THE APPROVED PLANS AND SPECIFICATIONS AFTER THE WORK HAS BEEN LET SHALL BE MADE BY A CONSTRUCTION CHANGE DOCUMENT AS REQUIRED IN TITLE 24, PART 1, 4-338 AND CONSTRUCTION CHANGE DOCUMENTS AND SUBMITTED TO DSA IN ACCORDANCE WITH DSA IR A-6.
- SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS WILL BE CONSIDERED AS CHANGES TO THE APPROVED PLANS AND SPECIFICATIONS. THEY ARE TO BE TREATED AS CONSTRUCTION CHANGE DOCUMENTS AND WILL REQUIRE DSA'S APPROVAL PRIOR TO FABRICATION AND INSTALLATION IN ACCORDANCE WITH TITLE 24, PART 1, 4-338 AND DSA IR A-6.
- THE CLASS 2 PROJECT INSPECTOR MUST BE EMPLOYED BY THE OWNER AND APPROVED BY THE ARCHITECT, STRUCTURAL ENGINEER, AND DSA IN ACCORDANCE WITH TITLE 24, PART 1, 4-341.
- SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED DOCUMENTS WHERIN THE REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK.
- 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.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- 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 CONTRACT DOCUMENTS WHERIN 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).
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

Deferred Approval:

- PC SHADE STRUCTURES

Statement of General Conformance

THE FOLLOWING DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET 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:

- DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
- 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)).

SIGNATURE _____ DATE _____

ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE
 Jeffrey Grau

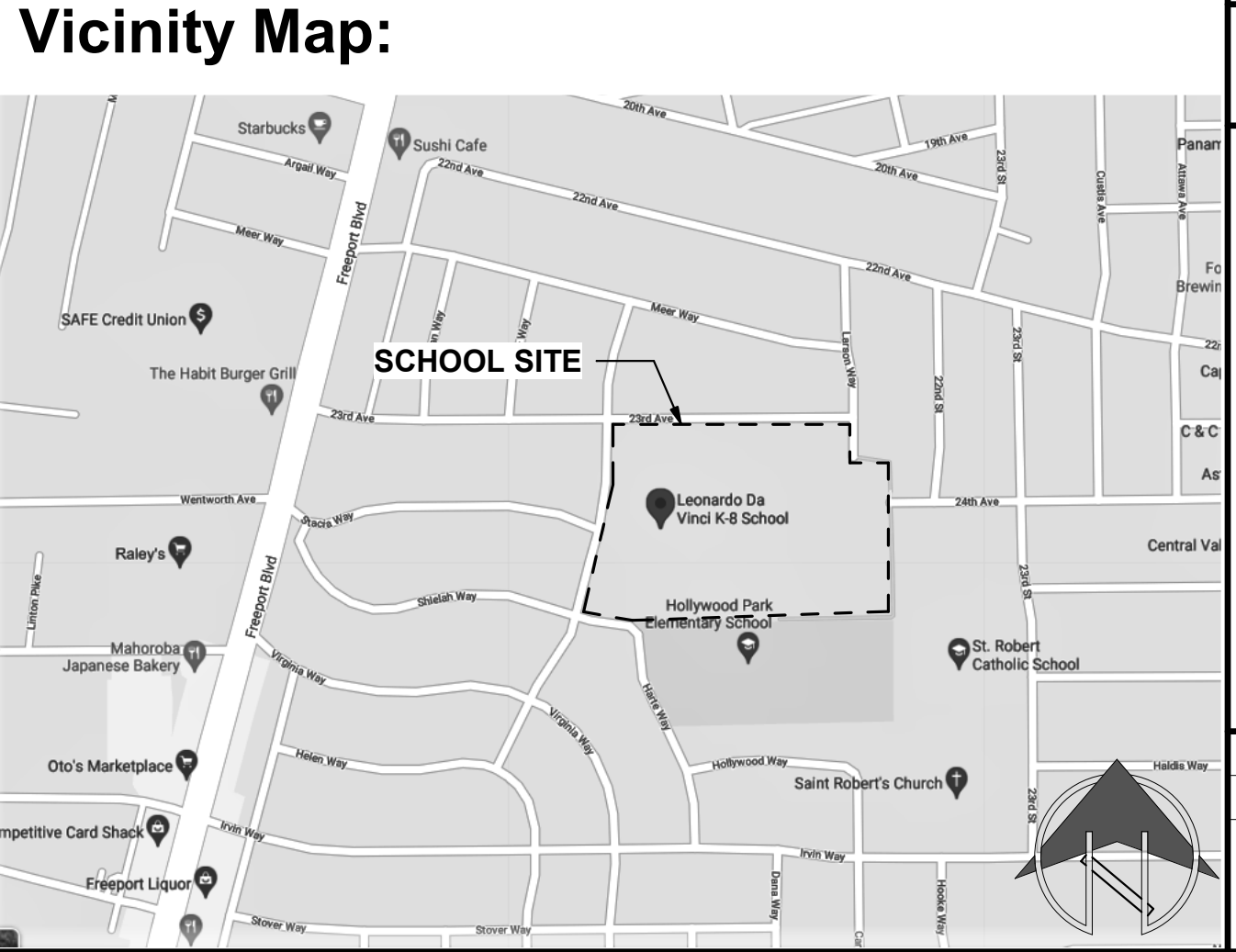
PRINT NAME _____

C-14648 05/31/23

LICENSE NUMBER _____ EXPIRATION DATE _____

LIST COMPLETELY, ITEMS REVIEWED AND ACCEPTED:

CIVIL, ELECTRICAL



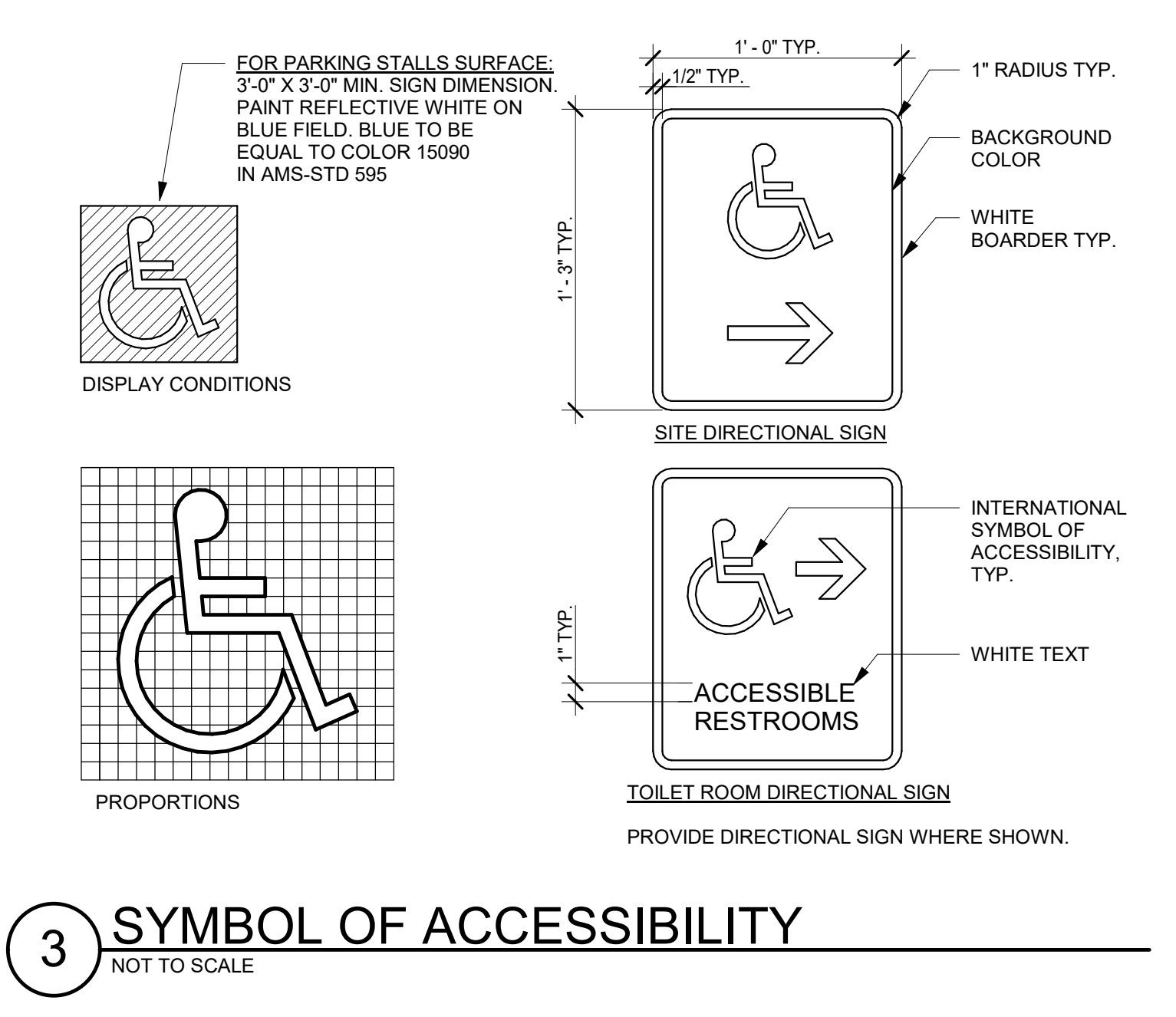
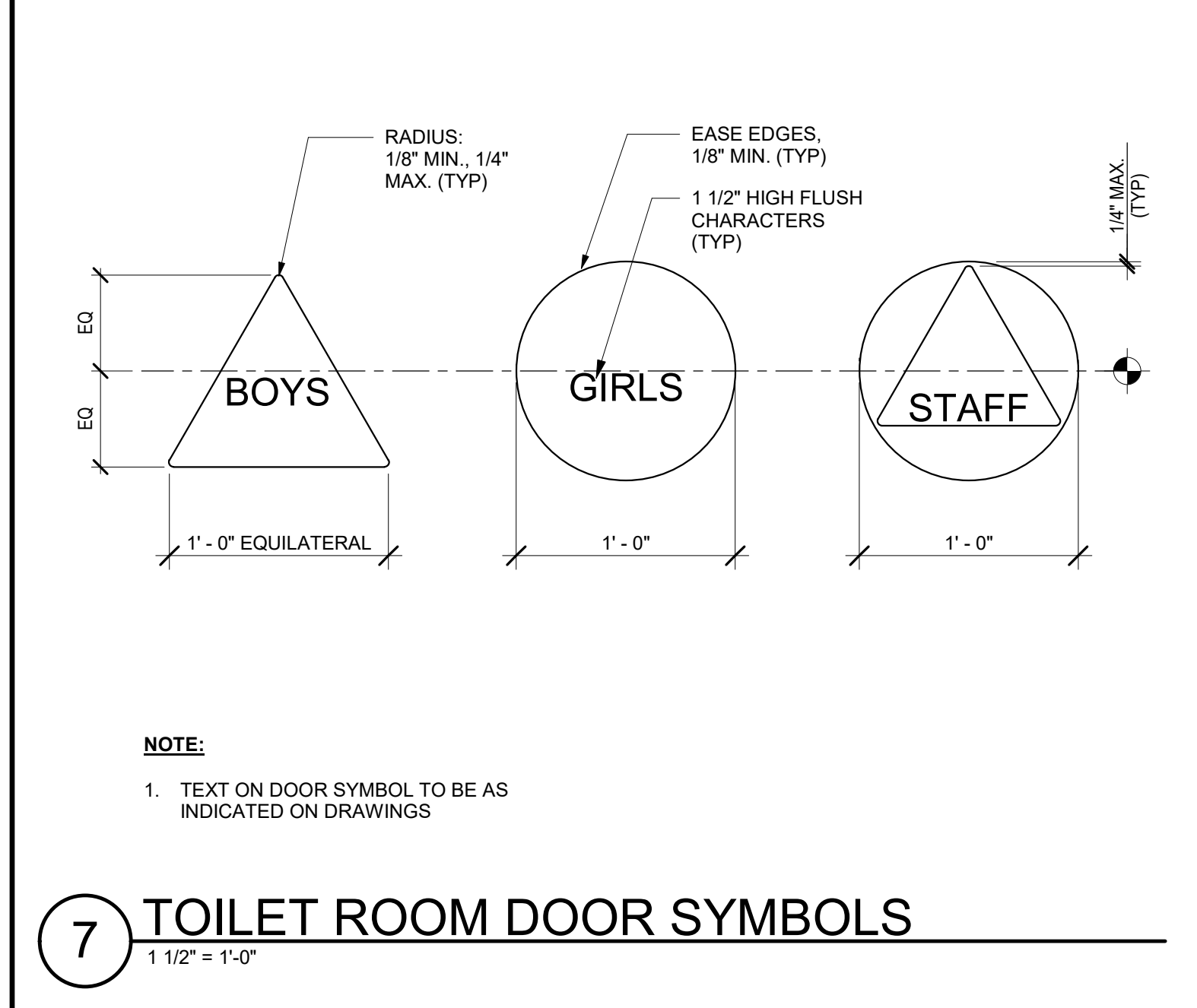
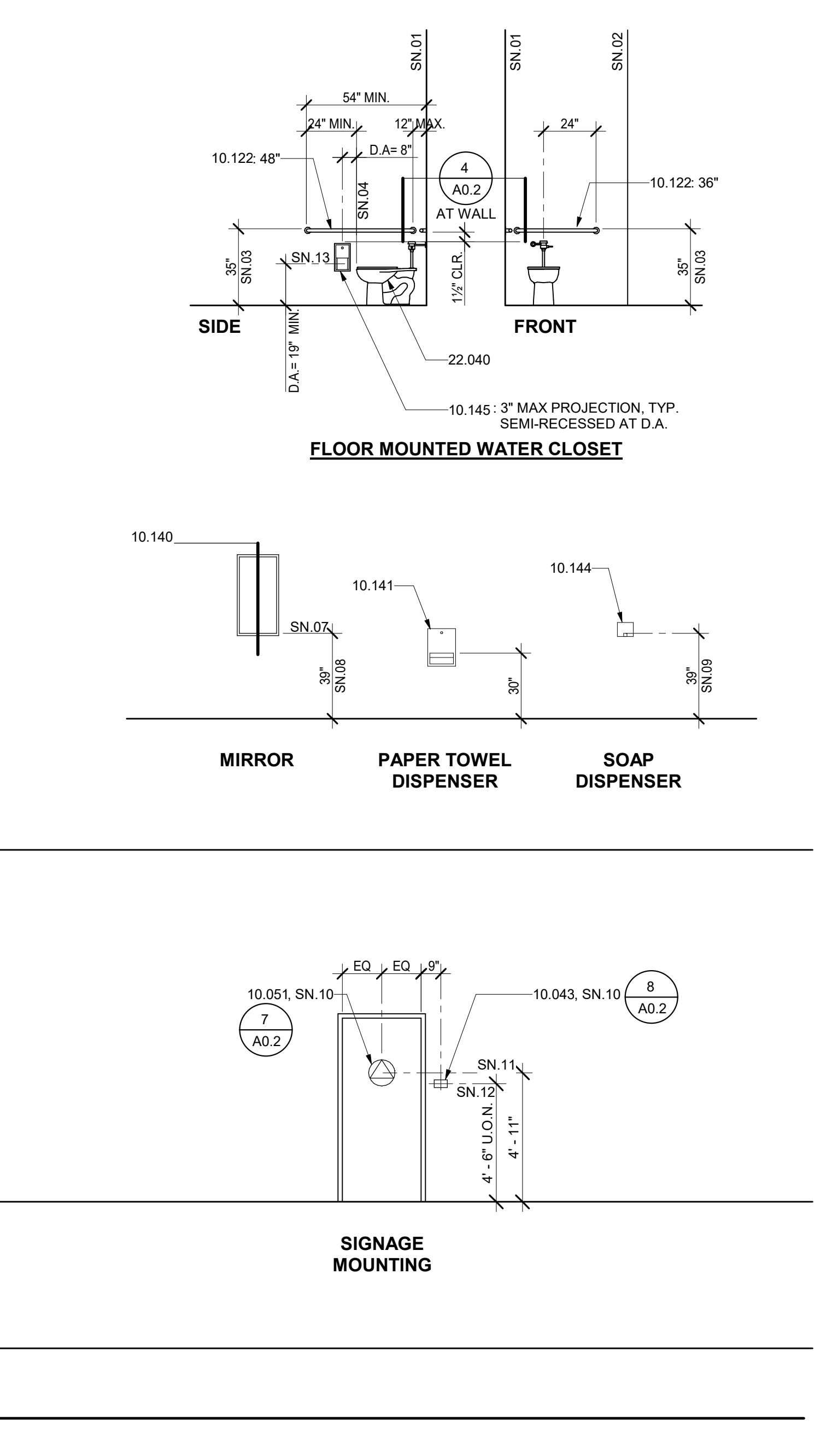
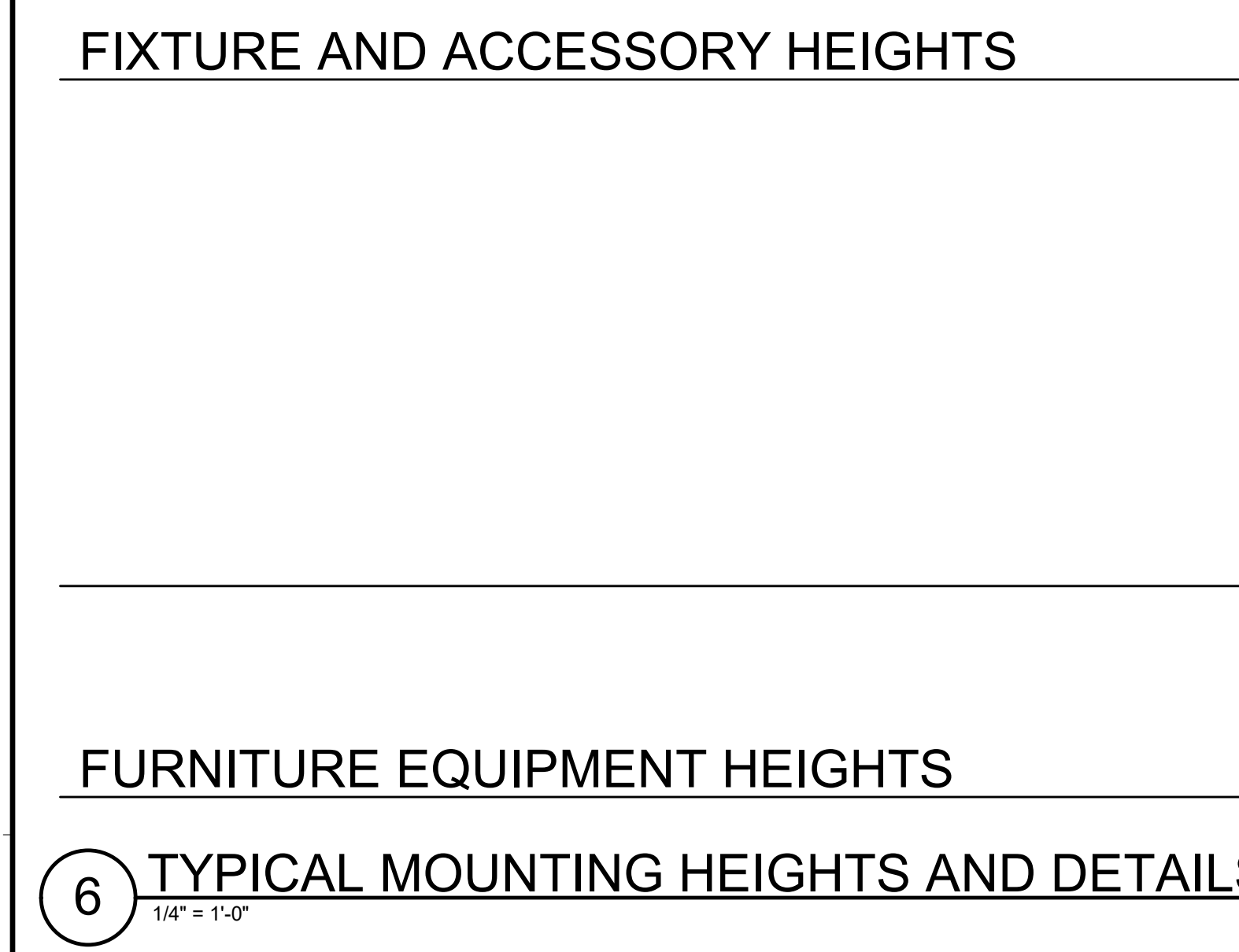
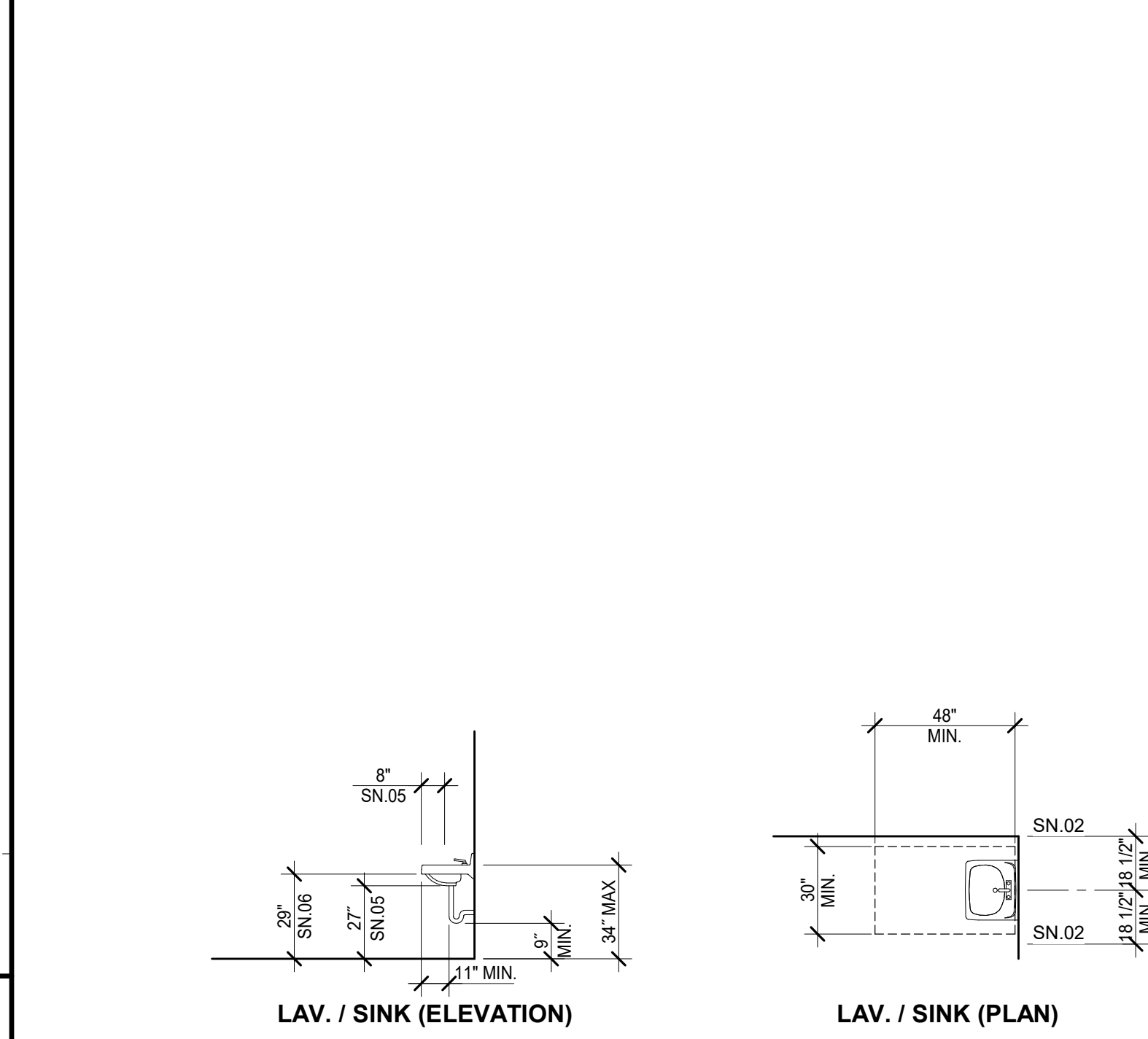
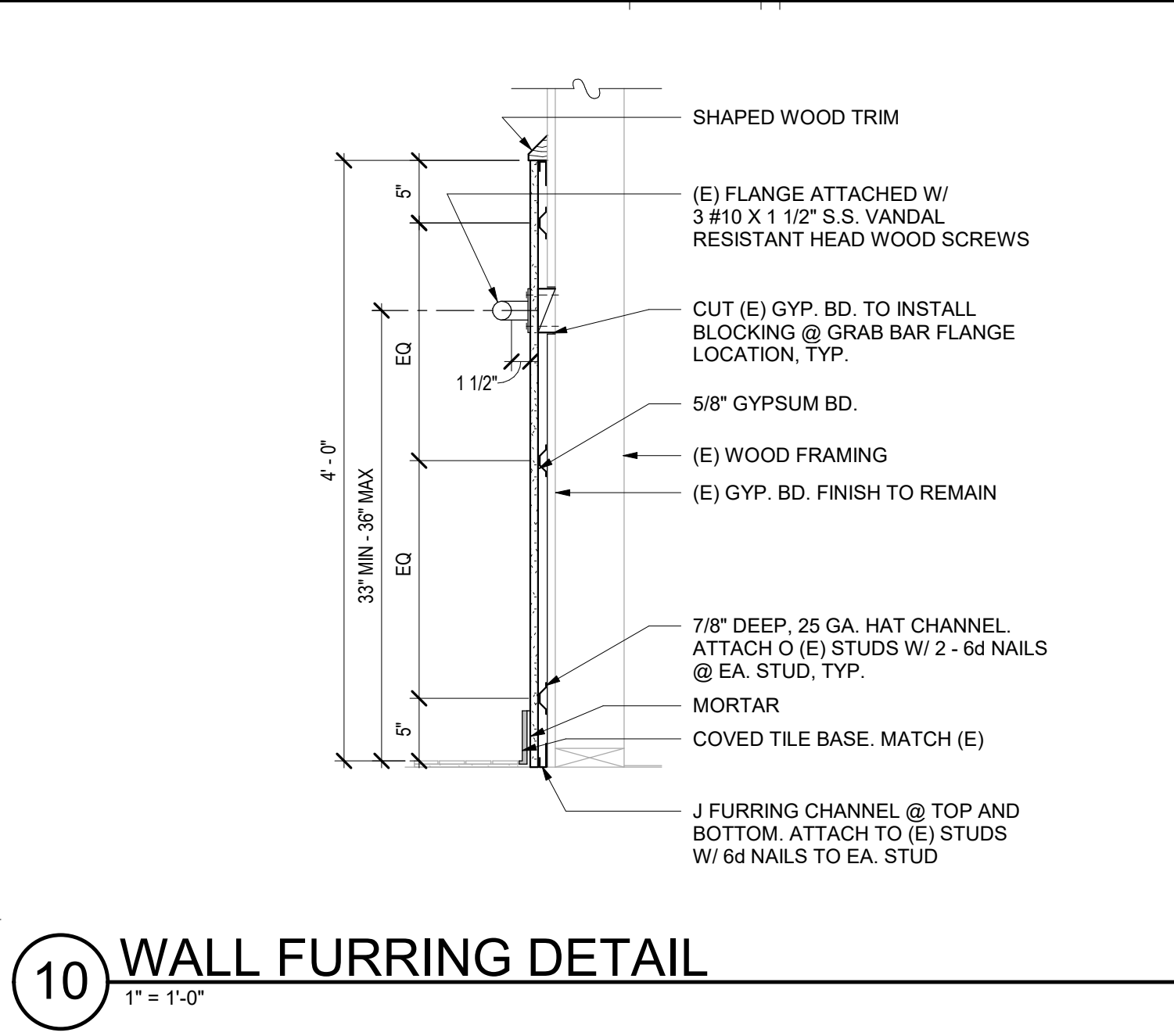
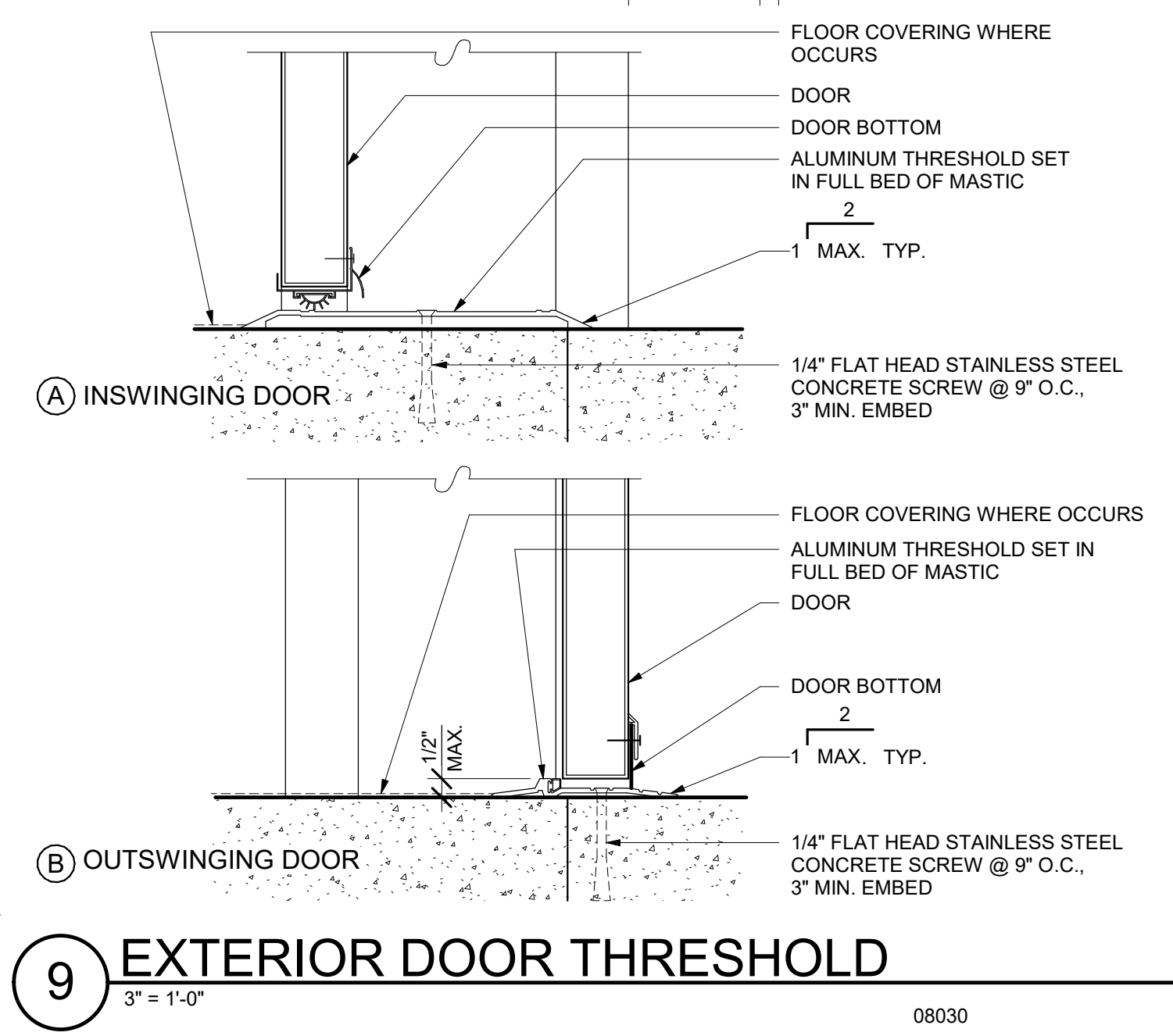
SHADE STRUCTURE AT LEONARDO DA VINCI K-8 SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

A studio of HMC Architects

REGISTERED ARCHITECT
C-14648
RENEWAL DATE: 05/31/23
STATE OF CALIFORNIA

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GENERAL NOTES

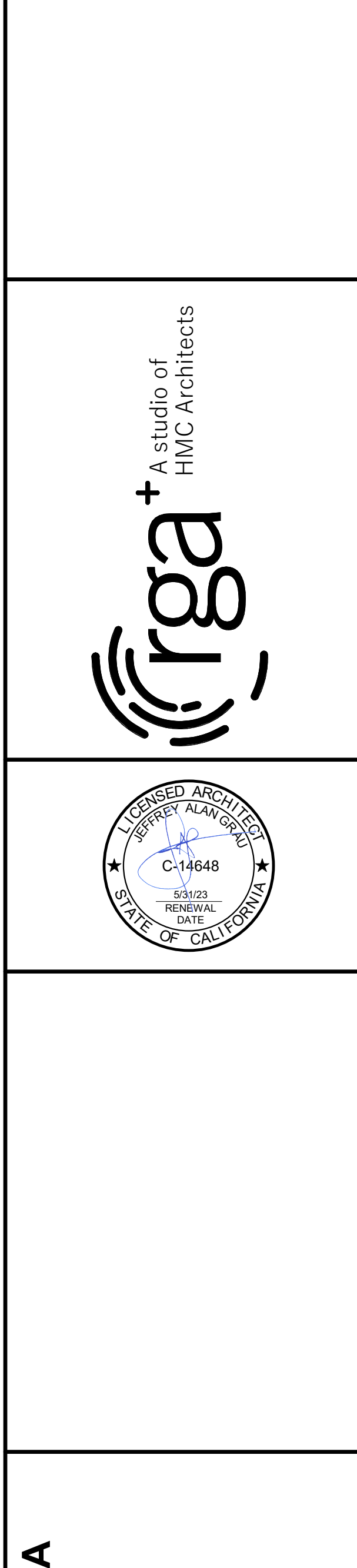
1. TYPICAL MOUNTING HEIGHTS AND DETAILS APPLY TO ENTIRE PROJECT, WHETHER REFERENCED OR NOT, UNLESS OTHERWISE NOTED.
2. ALL DISABLED ACCESSIBLE DIMENSIONS, ARE MAXIMUM DIMENSIONS UNLESS OTHERWISE NOTED.
3. HEIGHTS ARE MEASURED FROM FINISH FLOOR, UNLESS OTHERWISE NOTED.

SHEET NOTES

SN.01 TO FACE OF FINISH
 SN.02 FACE OF OBJECT'S OR WALLS
 SN.03 TOP OF GRAB BAR
 SN.04 FRONT EDGE OF WATER CLOSET
 SN.05 MINIMUM KNEE CLEARANCE
 SN.06 MINIMUM APRON CLEARANCE
 SN.07 BOTTOM EDGE OF REFLECTIVE SURFACE
 SN.08 34\"/>

KEYNOTES

10.043 SIGNAGE: TOILET ROOM IDENTIFICATION
 10.051 SIGNAGE: TOILET ROOM DOOR SYMBOL
 10.122 TOILET ACCESSORY: GRAB BAR
 10.140 TOILET ACCESSORY: MIRROR
 10.141 TOILET ACCESSORY: PAPER TOWEL DISPENSER
 10.144 TOILET ACCESSORY: SOAP DISPENSER
 10.145 TOILET ACCESSORY: TOILET PAPER DISPENSER
 22.040 WATER CLOSET



C:\projects\1504\Drawings\1504_08_1504\1504_08_1504.dwg, Leonardo Da Vinci, Central, 3/22/2022

SHADE STRUCTURE AT LEONARDO DA VINCI K-8 SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision

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TYPICAL MOUNTING HEIGHTS AND DETAILS

PROJECT NO. 1504.09
 DATE: 3/22/2022
 SHEET **A0.2**

DSA-810 FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

PROJECT INFORMATION
 School District: SACRAMENTO UNIFIED SCHOOL DISTRICT
 Project name / school: LEONARDO DA VINCI SHADE STRUCTURE
 Project address: 4701 JOAQUIN WAY, SACRAMENTO, CA 95822

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

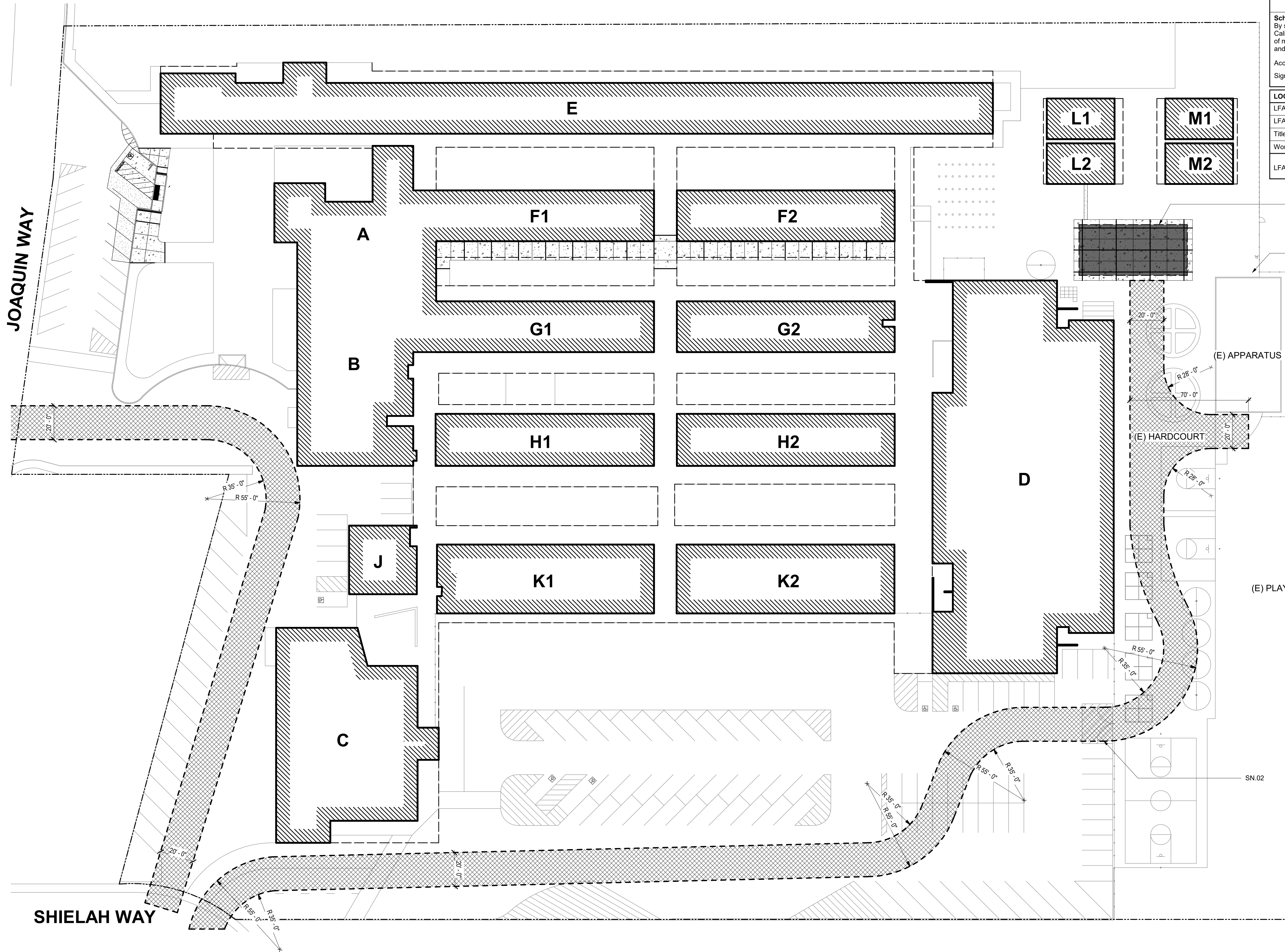
CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED	
4.	Emergency vehicle access roadways do not meet CFC requirements	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
4a.	Acceptable Alternative: Emergency vehicle and personal access as proposed by the architect is acceptable for providing fire suppression and protection of life and property		
5.	Fire Hydrants: Number and spacing does not meet CFC requirements	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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: _____

UNIT SS
 (PC SHADE STRUCTURE / DEFERRED APPROVAL)
 SN.01



LEGEND

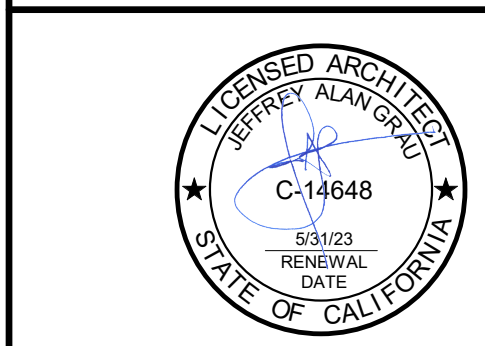
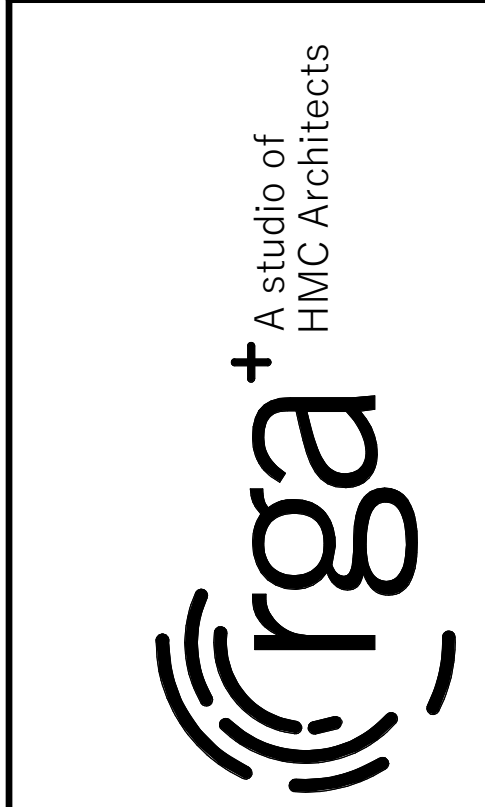
- - - - - PROPERTY LINE
- [X] UNIT DESIGNATION SHADE STRUCTURE
- [Hatched] UNIT DESIGNATION EXISTING BUILDINGS
- [Dotted] CONCRETE WALK / PAVING
- [Stippled] ASPHALT CONCRETE PAVING
- [Cross-hatched] (E) EMERGENCY ACCESS LANE
- [Dashed] (E) CHAIN LINK FENCE
- [Symbol] (E) FIRE HYDRANT (NTS)

SHEET NOTES

- SN.01 (E) FIRE HYDRANT
- SN.02 (E) 10'-0" WIDE GATES WITH KNOX LOCK BOX

BUILDING DESIGNATIONS

- UNIT A - ADMINISTRATION
- UNIT B - AUDITORIUM
- UNIT C - CAFETERIA
- UNIT D - GYMNASIUM
- UNIT E - CLASSROOMS AND MUSIC ROOM
- UNITS - CLASSROOMS F1-F2
- UNITS - CLASSROOMS G1-G2
- UNITS - CLASSROOMS H1-H2
- UNIT J - CLASSROOMS
- UNITS - CLASSROOMS K1-K2
- UNITS - CLASSROOMS L1-L2
- UNITS - CLASSROOMS M1-M2



SHADE STRUCTURE AT LEONARDO DA VINCI K-8 SCHOOL
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
 SACRAMENTO, CA

Revision

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LOCAL FIRE AUTHORITY SITE PLAN

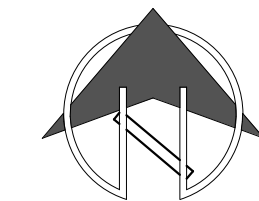
SEE OTHER SHEETS FOR CONSTRUCTION

THIS PLAN INCLUDES INFORMATION FOR LOCAL FIRE AUTHORITY APPROVAL ONLY. REFER TO OTHER SHEETS FOR SITE CONSTRUCTION DETAILS.

PROJECT NO. 1504.09
 DATE: 3/22/2022
 SHEET

A0.7

1 LOCAL FIRE AUTHORITY SITE PLAN
 1" = 30'-0"



C:\Users\m\Documents\1504.09_Leonardo Da Vinci_K-8_School\Drawings\A0.7.dwg

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
- 99.99 = 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
- = 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

TBM LIST

NUMBER	DESCRIPTION	NORTHING	EASTING	ELEV
1	CPS CHISELED "+"	10000.00	10000.00	100.00
2	CPS CHISELED "+"	10449.85	10000.00	101.78
3	CPS CHISELED "+"	10385.60	10000.16	101.73
4	CPS CHISELED "+"	10360.84	10000.68	101.80
5	CPS CHISELED "+"	10320.43	10000.40	101.79
6	CPS CHISELED "+"	10252.60	10000.00	101.72
7	CPS CHISELED "+"	10139.64	10003.40	101.48
8	CPS CHISELED "+"	9997.43	9884.27	100.45
9	CPS CHISELED "+"	10039.69	9689.47	100.39
10	CPS CHISELED "+"	10042.57	9632.03	100.38
11	CPS CHISELED "+"	9997.47	10183.02	101.22
12	CPS CHISELED "+"	9875.63	9884.69	100.58
13	CPS CHISELED "+"	9835.26	9921.65	100.49
14	CPS CHISELED "+"	9772.12	9917.58	100.52
15	CPS CHISELED "+"	9662.87	9998.30	99.96
16	CPS CHISELED "+"	9700.06	10208.26	100.83
17	CPS CHISELED "+"	9859.61	10180.56	101.13
18	CPS CHISELED "+"	9662.02	9894.88	100.04
19	CPS CHISELED "+"	9661.09	9768.56	99.64
21	CPS CHISELED "+"	10350.17	9595.37	100.80
22	CPS CHISELED "+"	10449.78	9579.15	100.32
23	CPS CHISELED "+"	10368.99	9860.38	101.68
20	CPS PK+WASHER	10245.12	9618.28	99.34

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 RIGHT VALVE
 - ASB AGGREGATE SUB-BASE
 - BO BLOW-OFF VALVE
 - BV BUTTERFLY VALVE
 - BW BACK OF WALK
 - C/L CENTERLINE
 - CB CATCH BASIN
 - CL CLASS
 - CM CORRUGATED METAL PIPE
 - CA 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
 - DOWN DOWNHOUT
 - E ELECTRIC
 - EP EDGE OF PAVEMENT
 - EASEMENT EASEMENT
 - 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
 - GR GRATE ELEVATION
 - GRD GRATE ELEVATION
 - GV GATE VALVE
 - HB HOSE BIBB
 - HBD HEADER BOARD
 - HDPE HIGH DENSITY POLYETHYLENE PIPE
 - HP HIGH POINT
 - HW PIPE INVERT ELEVATION
 - JP JOINT UTILITY POLE
 - LF LINEAL FEET
 - LIP LIP OF GUTTER
 - LT LEFT
 - MS MOWSTRIP
 - NTS NOT TO SCALE
 - OH OVERHEAD
 - PC PORTLAND CEMENT CONCRETE
 - PD PLANTER DRAIN
 - PV POST INDICATOR VALVE
 - PL PROPERTY LINE
 - PP POWER POLE
 - PUE PUBLIC UTILITY EASEMENT
 - PVC POLYVINYL CHLORIDE
 - RCP REINFORCED CONCRETE PIPE
 - R RADIUS
 - MANHOLE RIM ELEVATION (SOLID COVER)
 - RP REDUCED PRESSURE BACKFLOW PREVENTER
 - STD STANDARD
 - SCH SCHEDULE
 - SD STORM DRAIN
 - SDMH STORM DRAIN MANHOLE
 - SG SUBGRADE ELEVATION
 - SS SANITARY SEWER
 - SSMH SANITARY SEWER MANHOLE
 - STD STANDARD
 - S/W SIDEWALK
 - TELEPHONE 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
 - UN UNDERGROUND
 - 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)
 - STORM DRAIN CLEANOUT
 - 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:**
- 8" SS SANITARY SEWER LINE (SIZE AND FLOW SHOWN)
 - SANITARY SEWER MANHOLE (SSMH)
 - 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
 - WATER METER
 - FIRE HYDRANT ASSEMBLY
 - FIRE DEPARTMENT CONNECTION
 - DETECTOR CHECK VALVE
 - REDUCED PRESSURE BACKFLOW PREVENTER
 - BUTTERFLY VALVE
 - AIR RELEASE VALVE + SIZE
 - BLOW-OFF VALVE + SIZE
 - POST INDICATOR VALVE

DEMOLITION GENERAL NOTES

- 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.
- NO BURNING OR BLASTING SHALL BE PERMITTED.
- ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.
- ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.
- ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.
- 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 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.
- 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 EXTENT.
- EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REPLACED WITH NEW BOX/COVER AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
- ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
- 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

- 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.
- WARREN CONSULTING ENGINEERS, INC. (WCE) ASSUMES NO RESPONSIBILITY FOR ERRORS IN PHYSICAL LOCATION OF IMPROVEMENTS, HORIZONTAL OR VERTICAL. 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.
- 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.
- 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.
- 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.
- 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 CONTRACTOR'S RESPONSIBILITY TO DETERMINE, AND INCLUDE IN HIS/HER CONTRACT, ALL MEANS AND METHODS NECESSARY TO PERFORM A COMPLETE AND ACCEPTABLE JOB.
- WHERE IMPROVEMENTS LIE WITHIN AN EXISTING DEVELOPED AREA, CONTRACTOR SHALL USE CAUTION WHEN ACCESSING THE SITE THROUGH THESE EXISTING IMPROVEMENTS. IT IS THE CONTRACTOR'S 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.
- 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.
- 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 CLEAR EDGE OR PATCH BAG IS DAMAGED, A NEW SAW CUT WILL BE REQUIRED. THE EXPOSED EDGE SHALL BE "TACKED" WITH EMULSION PRIOR TO PAVING.
- 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.
- 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.
- ON NEW WATER SYSTEMS, SERVICE LATERALS SHALL BE MADE USING APPROPRIATE "TTEE" AND "WYE" FITTINGS. SADDLE TAPS WILL ONLY BE ALLOWED WHEN MAKING CONNECTIONS TO EXISTING WATER MAINS.
- 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.
- 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 SCREED 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.
- 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 SCREED OR EXPANSION JOINTS TO ALLOW FOR SUCH STRUCTURE. THAT REBAR ADJUSTMENT MAY NOT BE SPECIFICALLY SHOWN ON PLANS.
- 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.
- 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.
- 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.
- 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.
- 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 CONSTRUCTION.
- 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.
- 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.
- 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:

- 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.
- 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

- C0.1 CIVIL GENERAL NOTES AND ABBREVIATIONS
- C1.1 DEMOLITION PLAN
- C2.1 GRADING AND PAVING PLAN

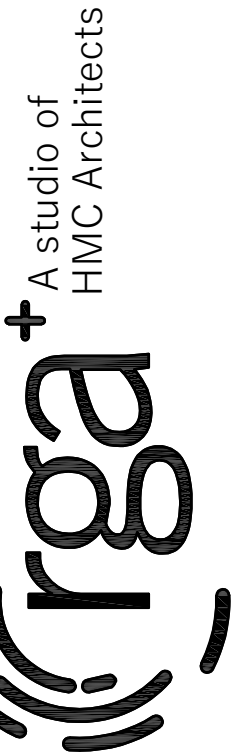
SHADE STRUCTURE AT LEONARDO DA VINCI K-8 SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

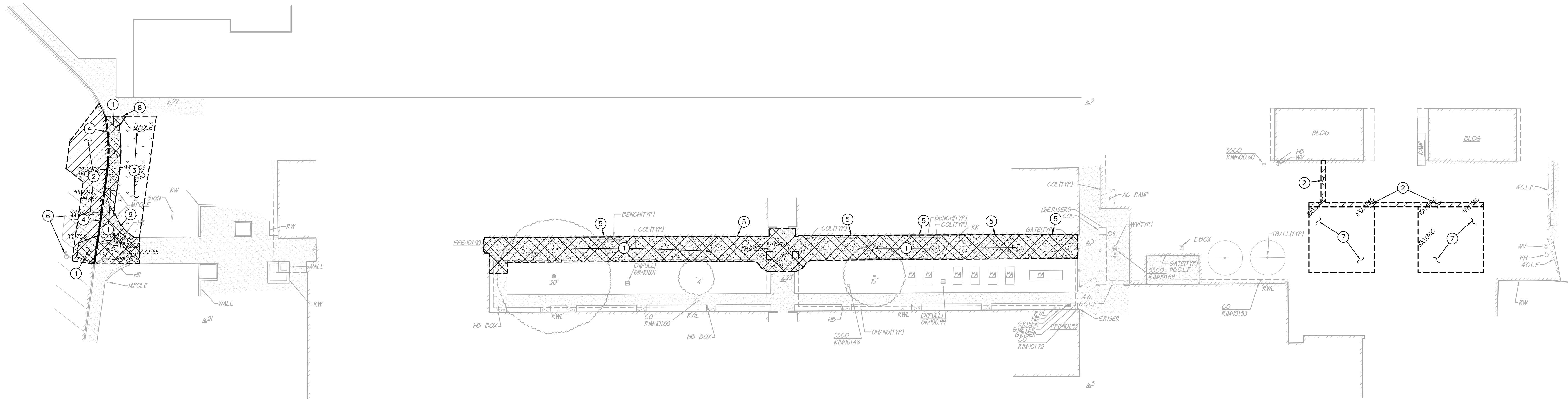
CIVIL GENERAL NOTES AND ABBREVIATIONS

PROJECT NO. 1504.09
DATE: 3/21/2022
SHEET

C0.1



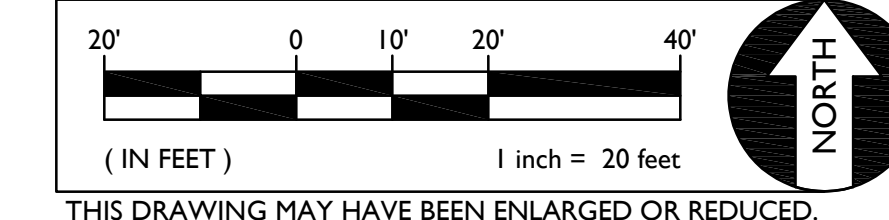
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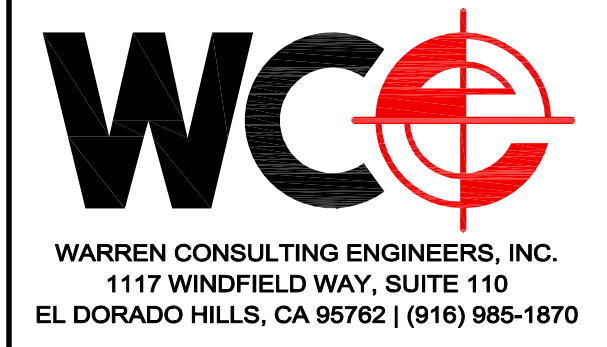
DEMOLITION NOTES

- 1. SAWCUT, REMOVE AND DISPOSE OF EXISTING CONCRETE PAVING AND ASSOCIATED AGGREGATE BASE. SAWCUT SHALL BE A NEAT STRAIGHT LINE, MAINTAIN CLEAN, STRAIGHT CUT EDGE UNTIL NEW PAVING IS PLACED.
- 2. 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.
- 3. 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.
- 4. REMOVE AND DISPOSE OF EXISTING CONCRETE CURB.
- 5. REMOVE/SALVAGE EXISTING BENCH DURING DEMOLITION ACTIVITIES AND PLACE BACK IN SAME LOCATION.
- 6. BLACK OUT EXISTING STRIPING.
- 7. REMOVE ASPHALT PAVING AS REQUIRED AT PROPOSED SHADE STRUCTURE FOOTING LOCATIONS TO ALLOW FOR INSTALLATION.
- 8. REMOVE AND DISPOSE OF EXISTING POLE AND FOOTING.
- 9. REMOVE AND DISPOSE OF EXISTING METAL RAILING AND FOOTINGS.

GRAPHIC SCALE



THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.



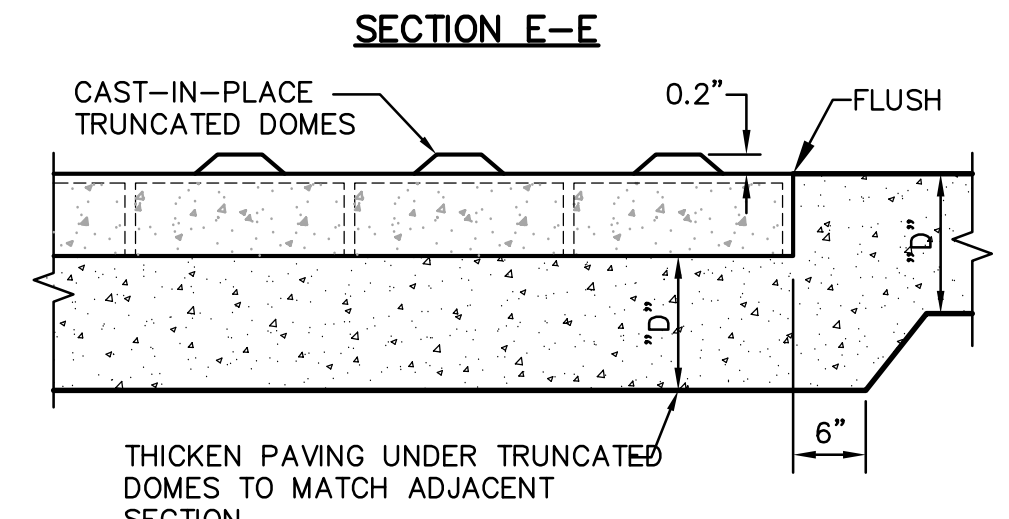
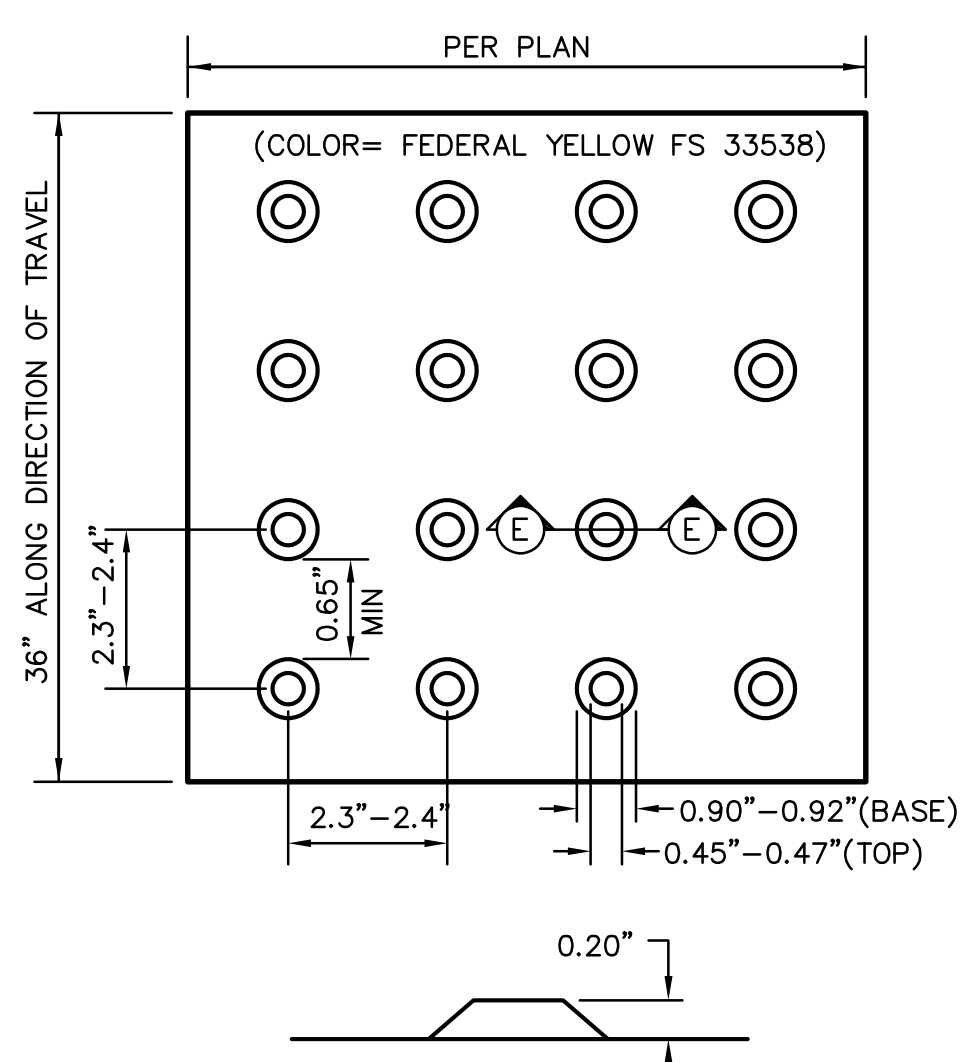
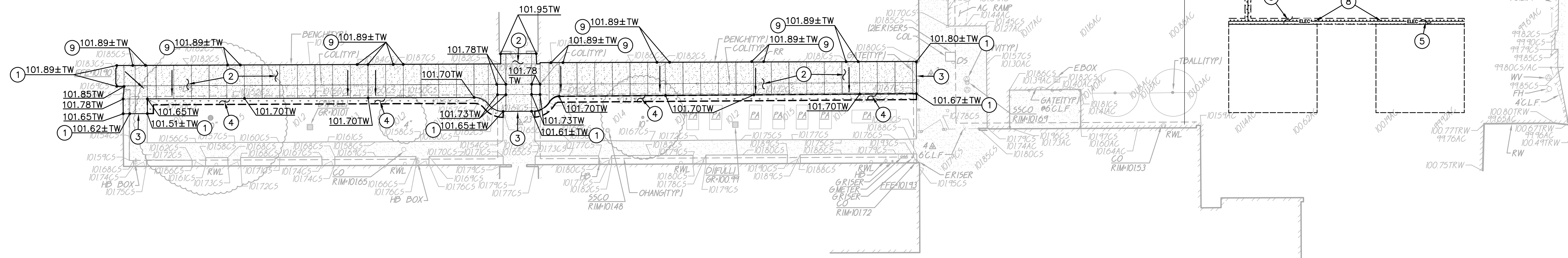
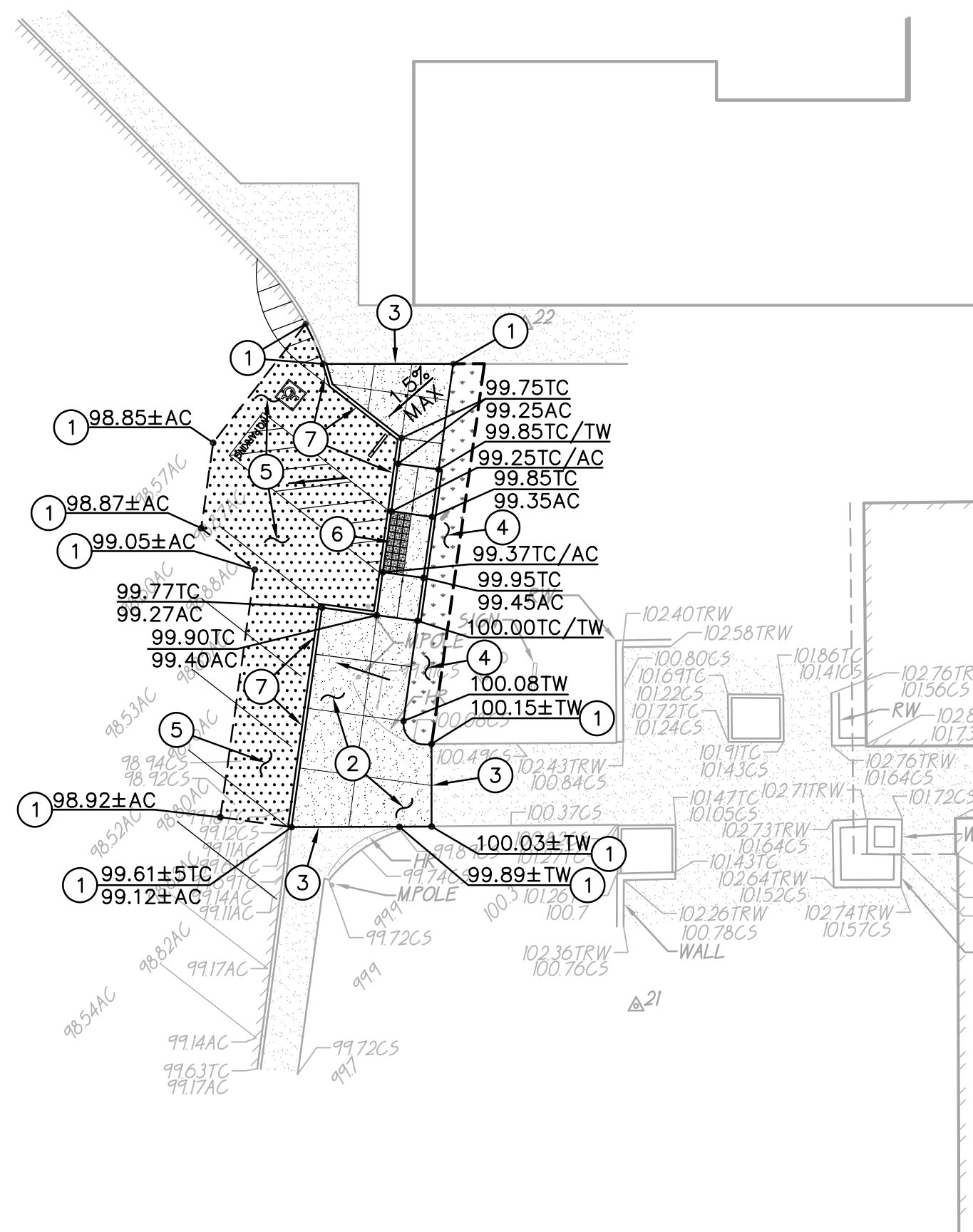
SHADE STRUCTURE AT LEONARDO DA VINCI K-8 SCHOOL
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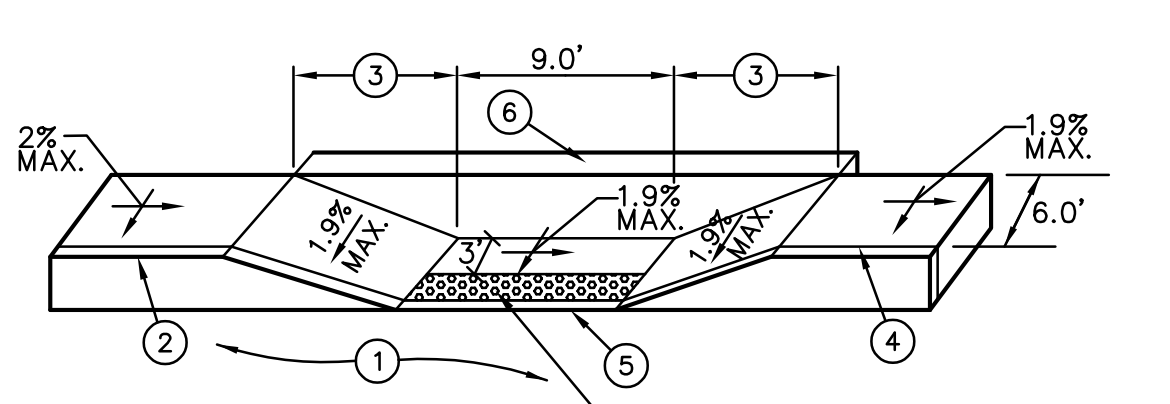
DEMOLITION PLAN

PROJECT NO. 1504.09
 DATE: 3/21/2022
 SHEET

C1.1

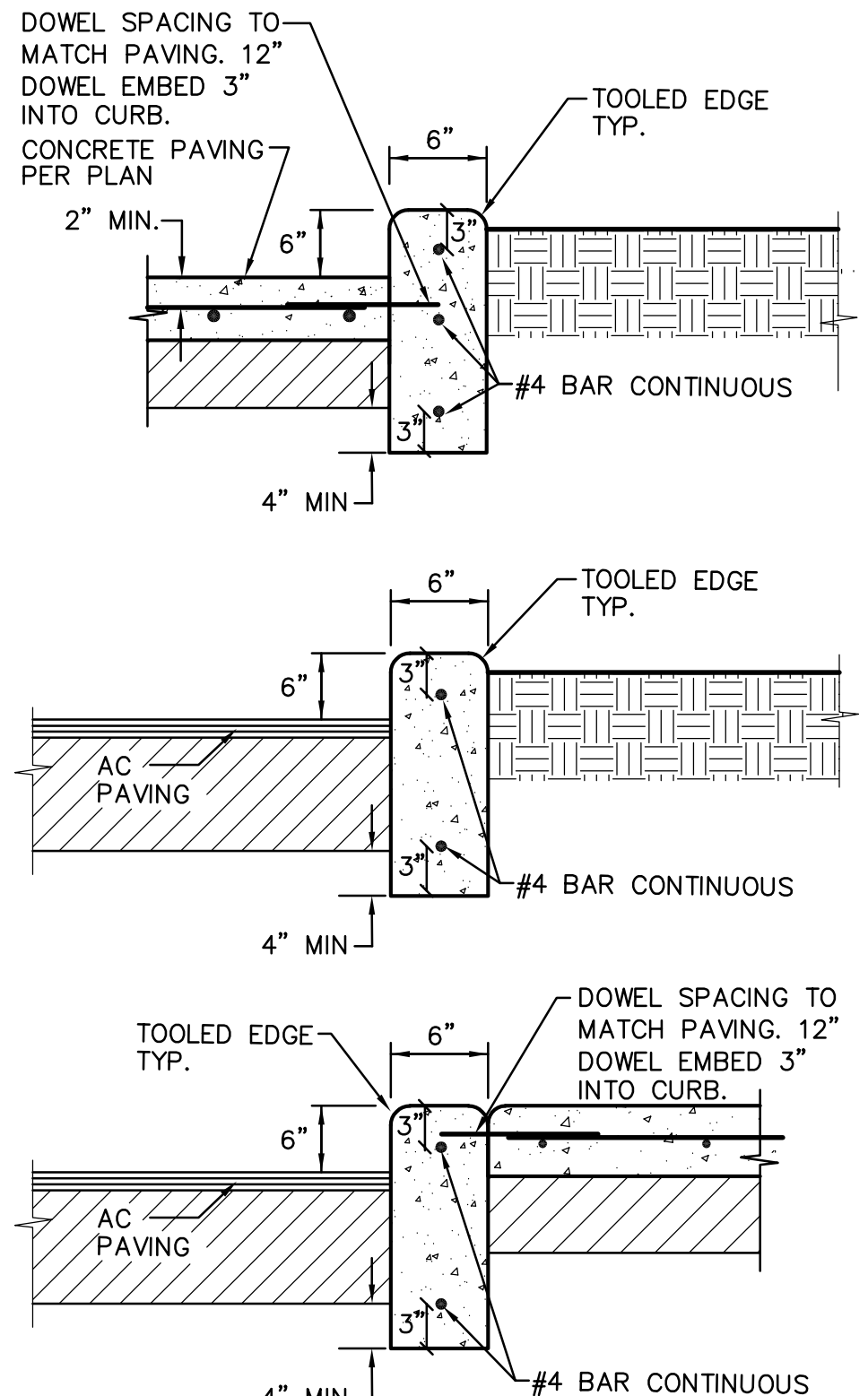


4 TRUNCATED DOMES
C2.1 NO SCALE



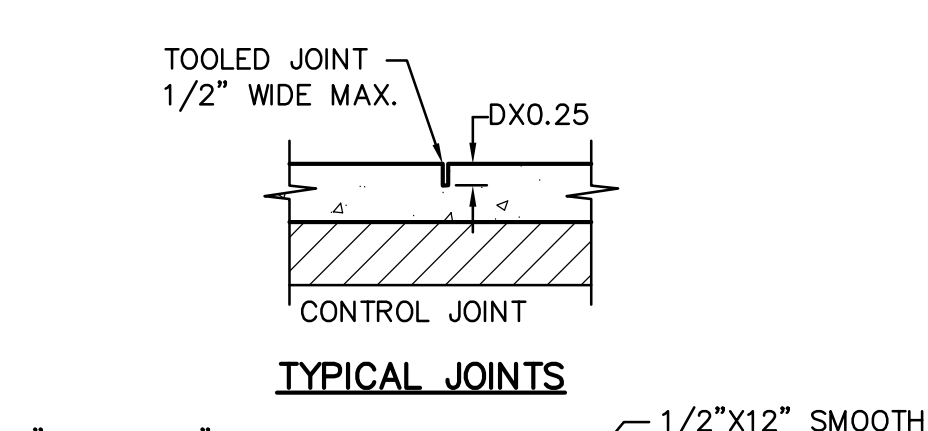
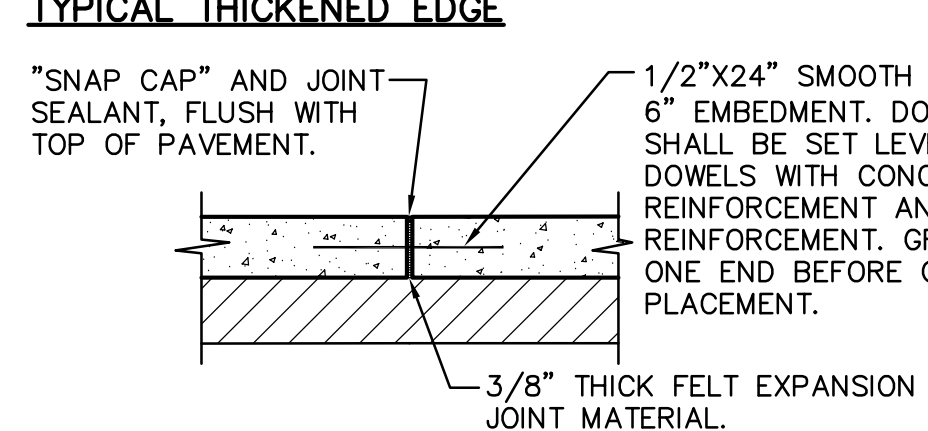
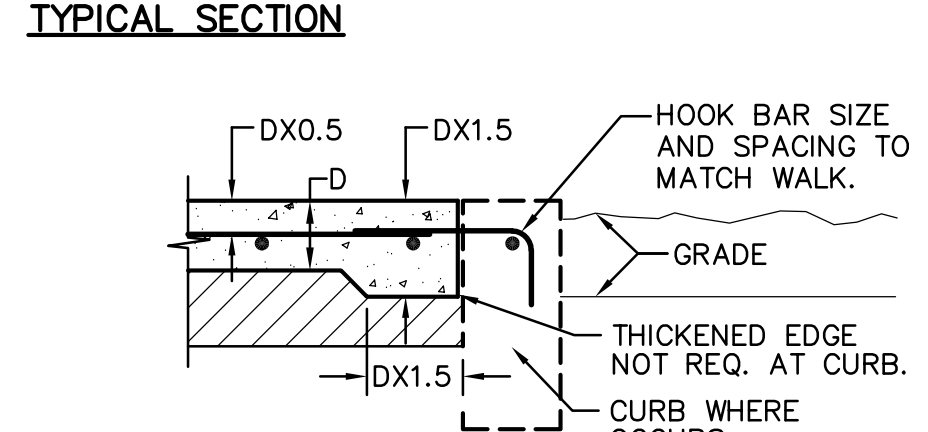
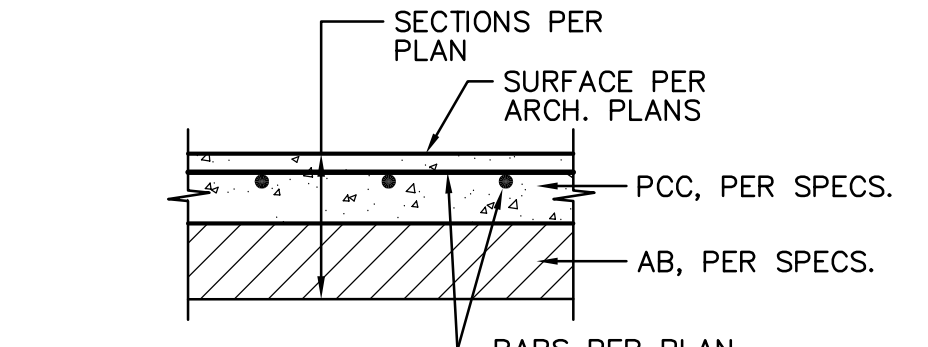
- LEGEND**
- PAVEMENT.
 - TOP FACE OF CURB, STANDARD 6" HIGH.
 - 8.3% (1:12) MAXIMUM SLOPE, 2% MAX CROSS SLOPE.
 - SCORE MARK, 6" BACK OF CURB.
 - TRANSITION SHALL BE FLUSH AND FREE OF ABRUPT CHANGE PER CALIFORNIA BUILDING CODE, TITLE 24, SECTION 11B-406.5.8.
 - 6" WIDE RETAINING CURB, HEIGHT TO BE DETERMINED BY PROJECTED BACK OF WALK GRADE AT EACH END OF CURB RETURN AND BACK OF LANDING SURFACE.
 - PLACE 36" WIDE PREFABRICATED CAST IN PLACE DETECTABLE WARNING TILE BY ARMOR-TILE OR APPROVED EQUAL. DETECTABLE WARNINGS SHALL EXTEND THE FULL WIDTH OF THE TURNING SPACE AT THE FLUSH TRANSITION BETWEEN THE STREET AND THE SIDEWALK LESS 2 INCHES MAXIMUM ON EACH SIDE PER 11B-705.1.2.2.

3 ACCESSIBLE CURB RAMP
C2.1 NO SCALE



- NOTES:**
- PROVIDE FELT EXPANSION JOINTS (E.J.) AT 60 FEET O.C. MAXIMUM PROVIDE CONTROL JOINTS AT 10 FEET O.C. MAXIMUM, EXCEPT WHEN PLACING ADJACENT TO CONCRETE WALKS THE EXPANSION JOINTS SHALL ALIGN WITH THE EXPANSION JOINTS SHOWN FOR THE CONCRETE WALKS.
 - AT E.J. USE 1/2"x24" SMOOTH DOWELS, ALIGN WITH REBAR, GREASE 1/2 THE LENGTH BEFORE CONCRETE PLACEMENT.

2 CONCRETE CURB
C2.1 NO SCALE



- NOTES:**
- PROVIDE FELT EXPANSION JOINTS AT 20 FEET O.C. MAX.
 - PROVIDE CONTROL JOINTS AT 10 FEET O.C. MAX.
 - EXPANSION OR CONTROL JOINTS SHALL NOT EXCEED 1/2" IN SURFACE WIDTH.

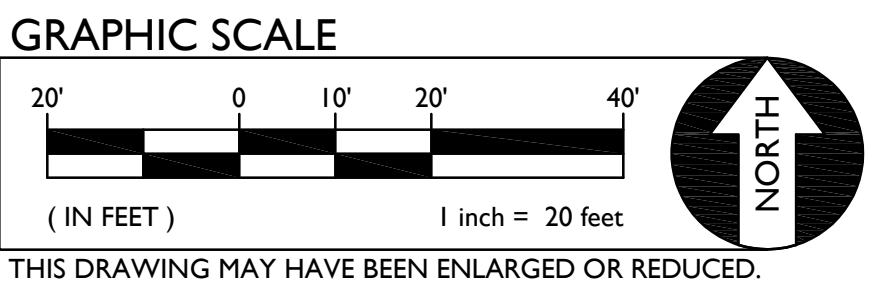
1 CONCRETE SIDEWALK
C2.1 NO SCALE

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 NOTES

- MATCH EXISTING GRADE/ELEVATION.
- 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.
- DOWEL INTO EXISTING CONCRETE PER (1) C2.1
- PLACE SOG 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.
- PLACE 3" AC OVER 12" AB ON COMPACTED SUBGRADE.
- CONSTRUCT ACCESSIBLE CURB RAMP PER (3) C2.1
- CONSTRUCT CONCRETE CURB PER (2) C2.1
- REFER TO ELECTRICAL PLANS FOR CONDUIT PLACEMENT AND DETAILING.
- PROPOSED SIDEWALK ELEVATION SHALL MEET FLUSH WITH EXISTING FINISH FLOOR.



SHADE STRUCTURE AT LEONARDO DA VINCI K-8 SCHOOL
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
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GRADING AND PAVING PLAN

PROJECT NO. 1504.09
 DATE: 3/21/2022
 SHEET

C2.1

EXISTING PATH OF TRAVEL (POT): ARCHITECT STATEMENT

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE IN CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION 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 POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT 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 POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NON-COMPLYING 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.

ACCESSIBLE PARKING STALL CALCULATION

TOTAL PARKING STALL COUNT: 19 STALLS
 ACCESSIBLE PARKING STALLS: (TABLE 11B-208.2)
 REQUIRED ACCESSIBLE STALLS: 1 (1-25 TOTAL STALLS)
 REQUIRED VAN ACCESSIBLE STALLS: 1 (1-8 ACCESSIBLE STALLS)
 ACCESSIBLE STALLS PROVIDED: 1 VAN



2 (E) DRINKING FOUNTAIN
 NOT TO SCALE

PROPOSED SHADE STRUCTURE						
UNIT	DESCRIPTION	OCCUPANCY	CONSTRUCTION TYPE	ALLOWABLE AREA (TABLE 506.2)	ACTUAL AREA	OCCUPANCY CALCULATION
SS	SHADE STRUCTURE	A-3	V-B NON-SPRINKLERED	6,000 S.F.	1,920 S.F.	1,920 S.F. / 15 NET = 128 OCC.

EXISTING BUILDING DESIGNATIONS				
UNIT	DESCRIPTION	DSA APPLICATION #	AREA (SF)	NOTES
A-B-F1-G1	ADMIN., AUDITORIUM, CLASSROOMS	8389, 16110	21,040	
C	CAFETERIA	14811	9,440	
D	GYMNASIUM	14811	22,085	
E	CLASSROOMS	8389, 14811, THIS APPLICATION	15,303	
F2	CLASSROOMS	8389	3,860	
G2	CLASSROOMS	8389	3,830	
H1-H2	CLASSROOMS	8389, 14811	7,900	
J	CLASSROOMS	8389	1,576	
K1-K2	CLASSROOMS	14811	10,430	
L1-L2	RELOCATABLE CLASSROOMS	02-114973	960 EACH	
M1-M2	RELOCATABLE CLASSROOMS	02-114973	960 EACH	

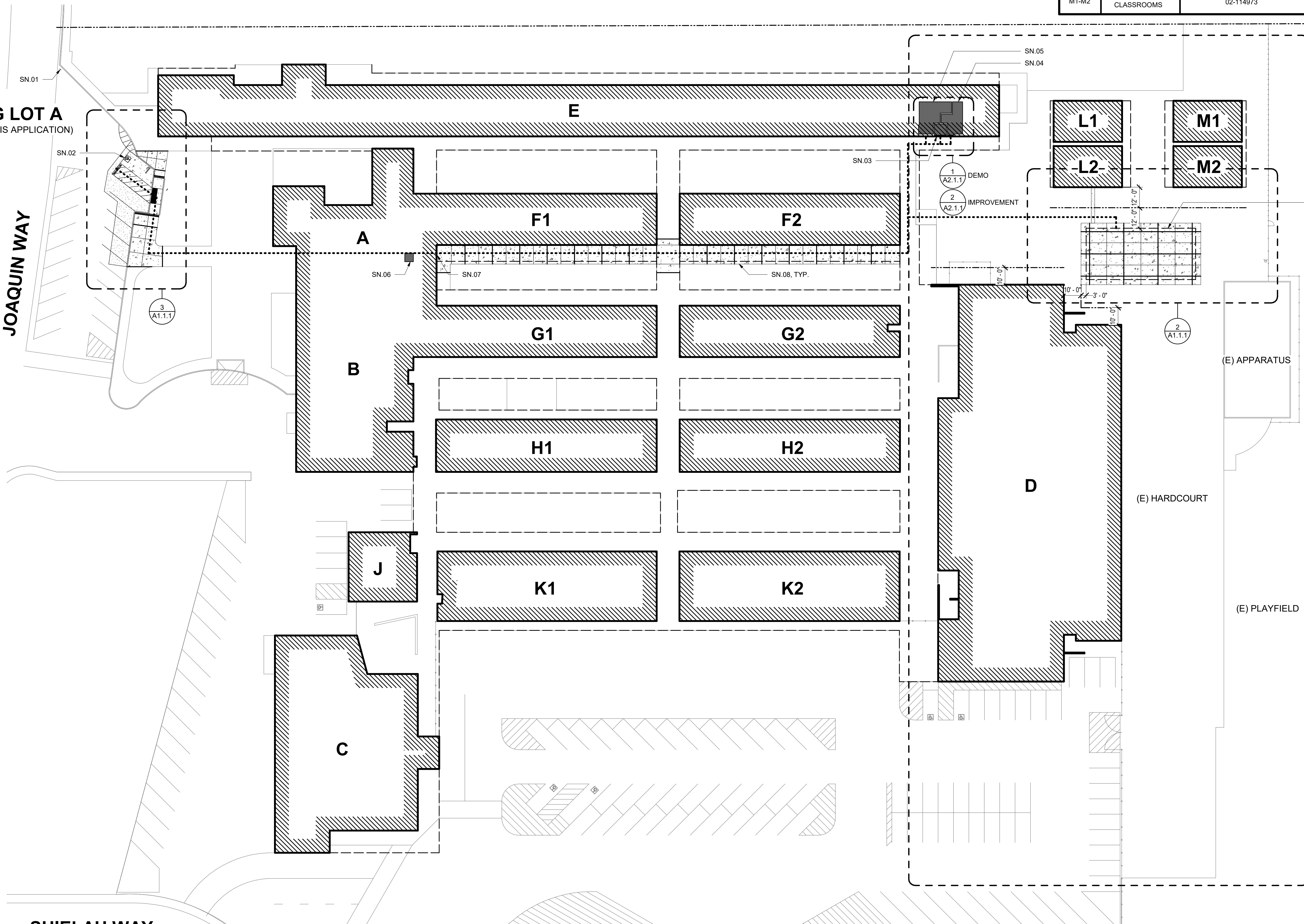
LEGEND

- PROPERTY LINE
- ASSUMED PROPERTY LINE
- [Symbol] UNIT DESIGNATION
- [Symbol] PC SHADE STRUCTURE / DEFERRED APPROVAL
- [Symbol] UNIT DESIGNATION
- [Symbol] EXISTING BUILDINGS
- [Symbol] EXPANSION JOINT
- [Symbol] CONCRETE WALK / PAVING
- [Symbol] CONTROL JOINT
- [Symbol] ASPHALT CONCRETE PAVING
- ACCESSIBLE PATH OF TRAVEL

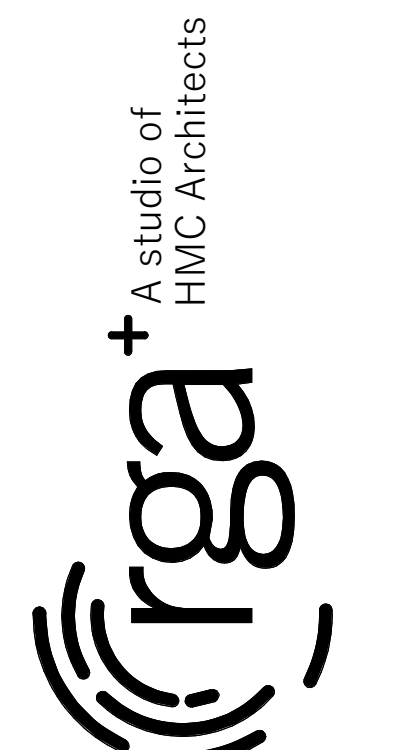
1. SITE WALKWAYS SHALL PROVIDE A BARRIER-FREE P.O.T. ABRUPT CHANGES IN LEVEL ALONG ANY P.O.T. ARE ALLOWED UP TO 1/2" ONLY. ABRUPT CHANGES IN ELEVATION UP TO 1/4" ARE ALLOWED TO HAVE A VERTICAL TRANSITION. ABRUPT CHANGES IN ELEVATION BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:1. UNIT VERTICAL TO 2 UNITS HORIZONTAL.
2. WALKWAYS SHALL BE FREE OF GRATINGS WHEREVER POSSIBLE. GRATINGS WHICH OCCUR WITHIN THE P.O.T. SHALL HAVE OPENINGS WHICH DO NOT EXCEED 1/2" IN THE DIRECTION OF TRAVEL PER CBC SECTION 11B-302.3.
3. AN ABRUPT DROP-OFF CHANGE IN ELEVATION AT THE EDGE OF ANY WALK INTO AN ADJACENT PLANTER SHALL NOT EXCEED 4".
4. SLOPES IN THE DIRECTION OF THE P.O.T. GREATER THAN 1:1 UNIT VERTICAL TO 20 UNITS HORIZONTAL SHALL BE CONSIDERED A RAMP AND WILL REQUIRE HANDRAILS ON BOTH SIDES PER CBC SECTION 11B-506. SLOPES IN THE DIRECTION OF THE P.O.T. ALONG WALKWAYS SHALL NOT EXCEED 5%. CROSS SLOPES IN THE P.O.T. ALONG WALKWAYS SHALL NOT EXCEED 2%.
5. ALL WALKWAYS WITHIN THE P.O.T. SHALL BE A MINIMUM OF 48" IN WIDTH. SURFACES WITH A SLOPE OF 5% OR LESS SHALL BE AT LEAST AS SLIP-RESISTANT AS THAT PROVIDED BY A LIGHT BROOM FINISH. SURFACES WITH A SLOPE OF MORE THAN 5% SHALL BE AT LEAST AS SLIP-RESISTANT AS THAT PROVIDED BY A MEDIUM BROOM FINISH.
6. OBJECTS PROTRUDING INTO THE P.O.T. SHALL NOT REDUCE THE CLEAR WIDTH OR MANEUVERING SPACE WITHIN THE P.O.T. PER CBC SECTION 11B-307.
7. PASSING SPACES (11B-403.5.3) OF 60" X 60" MIN. ARE LOCATED NOT MORE THAN 200' APART. WALKS WITH CONTINUOUS GRADIENTS SHALL HAVE 60" IN LENGTH LEVEL RESTING AREAS (11B-403.7) NOT MORE THAN 400' APART. P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MIN (11B-307.4) AND FREE OF PROTRUDING OBJECTS (11B-307) GREATER THAN 4" PROJECTION FROM WALL ABOVE 27" AND LESS THAN 80". OBJECTS PROTRUDING INTO THE P.O.T. SHALL NOT REDUCE THE CLEAR WIDTH OR MANEUVERING SPACE REQUIRED FOR ACCESSIBLE ROUTES (11B-307.5).

SHEET NOTES

- SN 01 (E) PARKING LOT ENTRANCE SIGN REVIEWED AND VERIFIED PER THIS APPLICATION.
- SN 02 ACCESSIBLE PARKING STALLS PER THIS APPLICATION.
- SN 03 (E) ACCESSIBLE STAFF TOILET ROOM UPGRADED PER THIS APPLICATION.
- SN 04 (E) ACCESSIBLE GIRL'S TOILET ROOM UPGRADED PER THIS APPLICATION.
- SN 05 (E) ACCESSIBLE BOYS TOILET ROOM UPGRADED PER THIS APPLICATION.
- SN 06 (E) ACCESSIBLE DRINKING FOUNTAIN REVIEWED AND VERIFIED PER THIS APPLICATION. SEE 2/1-1.0.
- SN 07 REMOVE (E) DOOR THRESHOLD. INSTALL NEW DOOR THRESHOLD PER 9 A0.2.
- SN 08 CONTRACTOR TO VERIFY (E) COLUMN LOCATIONS AND FOOTING CONDITIONS ALONG (E) WALKWAY WHERE WORK IS TO BE DONE WITH INVESTIGATIVE DEMOLITION. PRIOR TO FULL DEMOLITION, CONTRACTOR TO REPORT (E) FOOTING CONDITION INVESTIGATIVE FINDINGS TO DESIGN PROFESSIONAL PRIOR TO FULL DEMOLITION.



1 SITE PLAN
 1" = 30'-0"



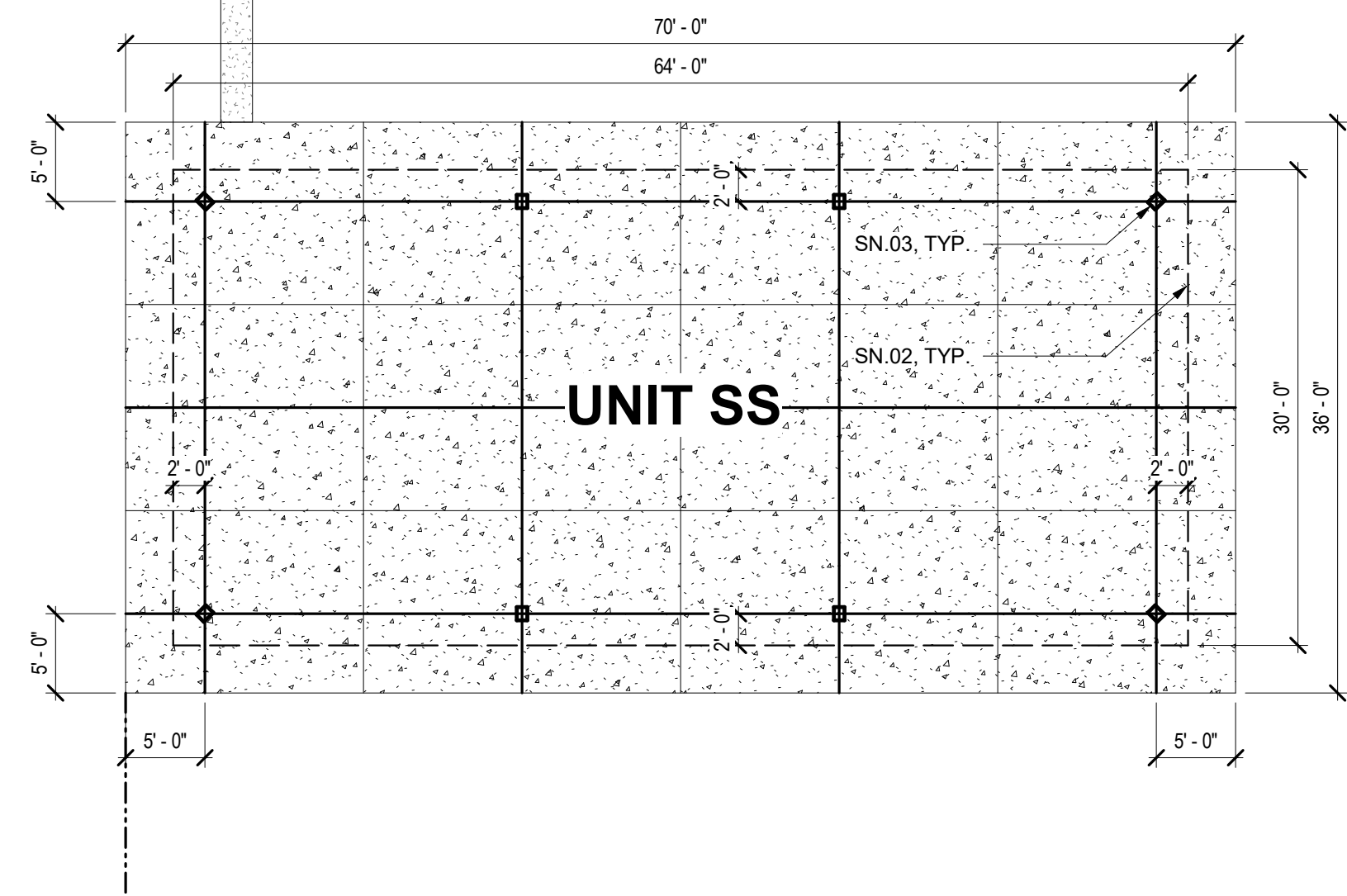
SHADE STRUCTURE AT LEONARDO DA VINCI K-8 SCHOOL
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
 SACRAMENTO, CA

Revision

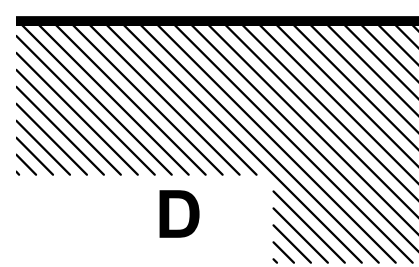
SITE PLAN AND CODE INFORMATION

PROJECT NO. 1504.09
 DATE: 3/22/2022
 SHEET **A11.0**

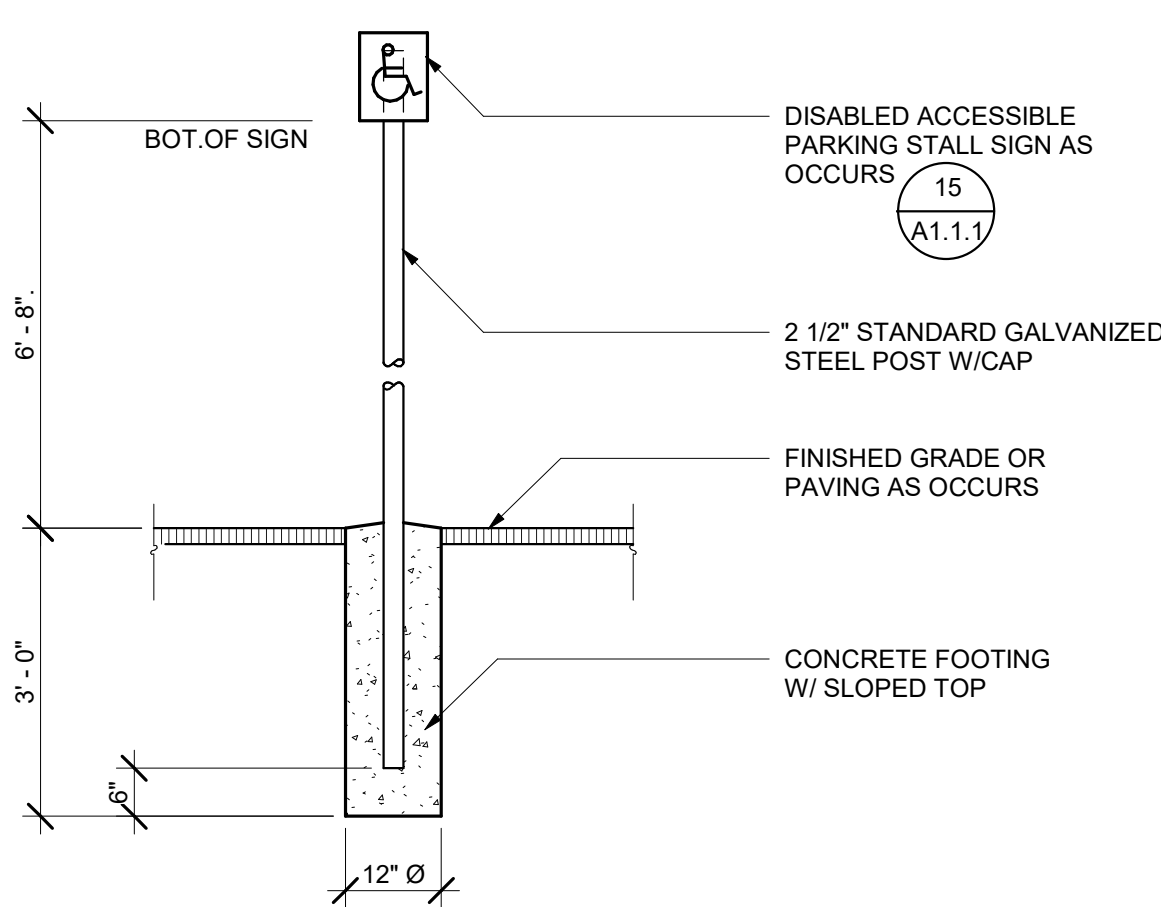
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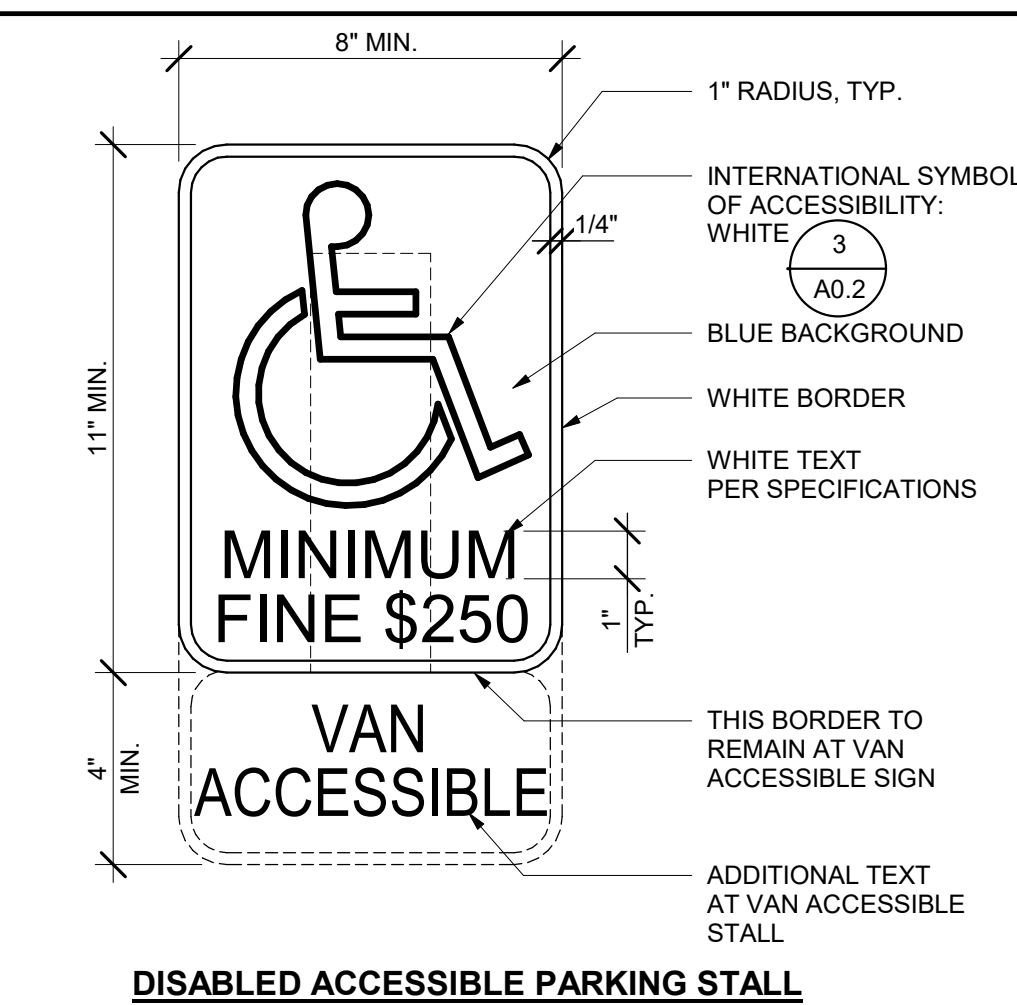
***NOTE:**
THIS SHADE STRUCTURE PLAN IS CORRECT. AFTER SUBMITTAL TO DSA WE HAVE CHANGED THE SIZE AND QUANTITY TO NOW SHOW (1) 30 X 64 SHADE STRUCTURE IN LIEU OF (2) 30 X 30 SHADE STRUCTURES. THIS CHANGE HAS ONLY BEEN MADE ON ARCHITECTURAL DRAWINGS AT THIS POINT. CIVIL AND ELECTRICAL DRAWINGS WILL BE UPDATED IN AN ADDENDUM



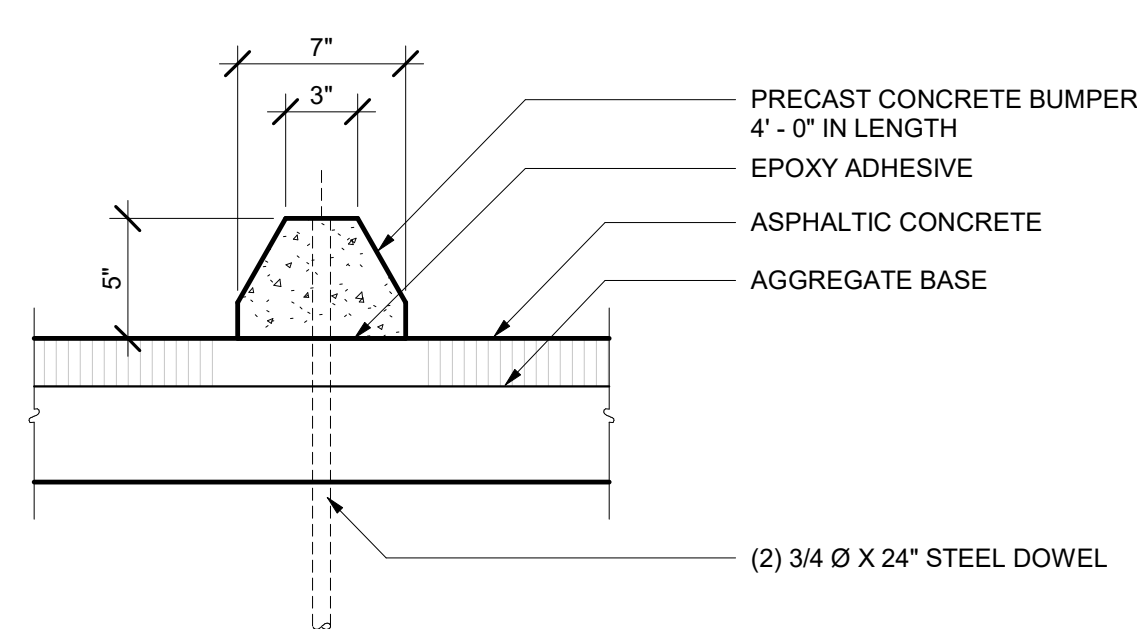
2 ENLARGED PLAN - SHADE STRUCTURES
1" = 10'-0"



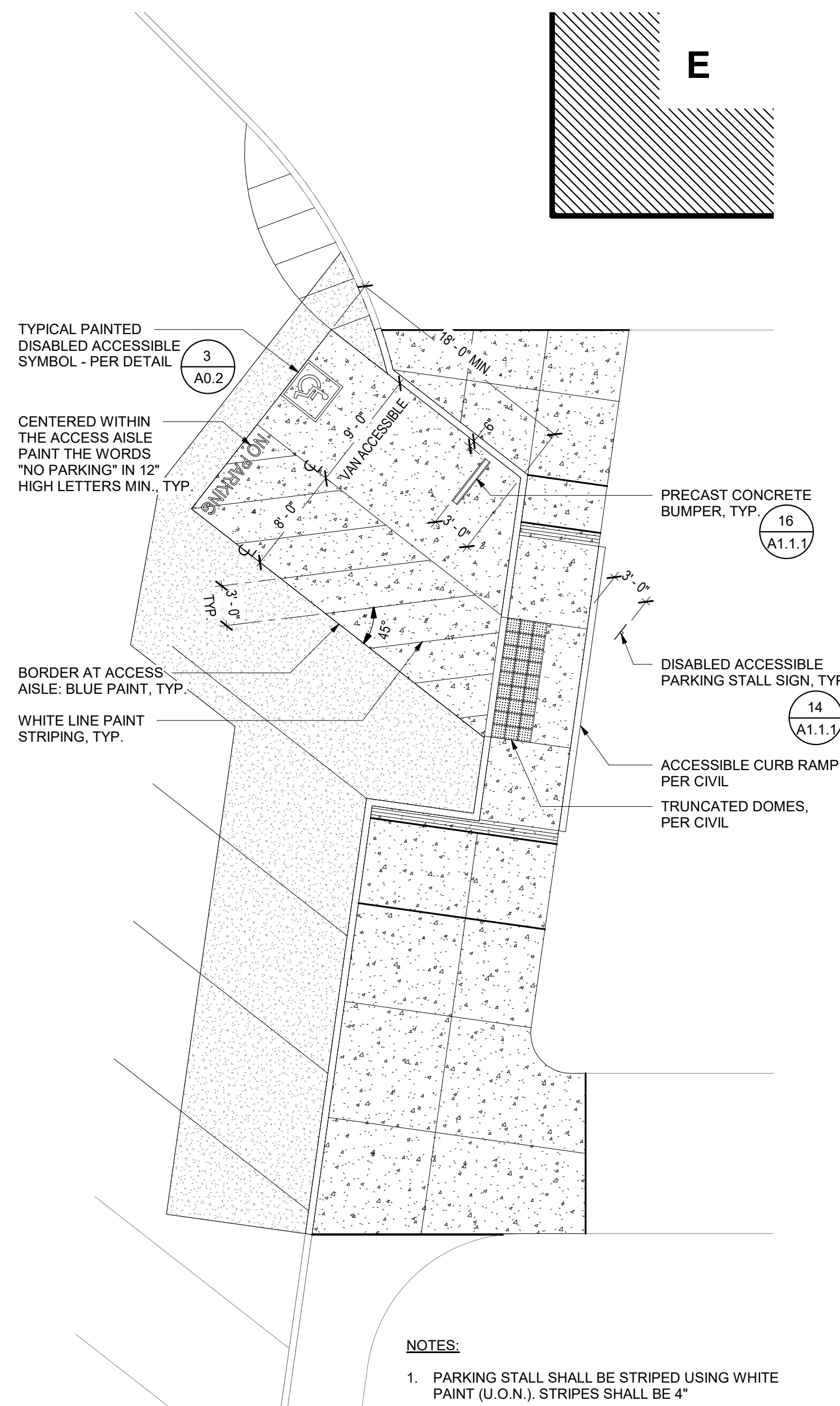
14 METAL SIGNS
1/2" = 1'-0"



15 PARKING SIGNAGE
3" = 1'-0"

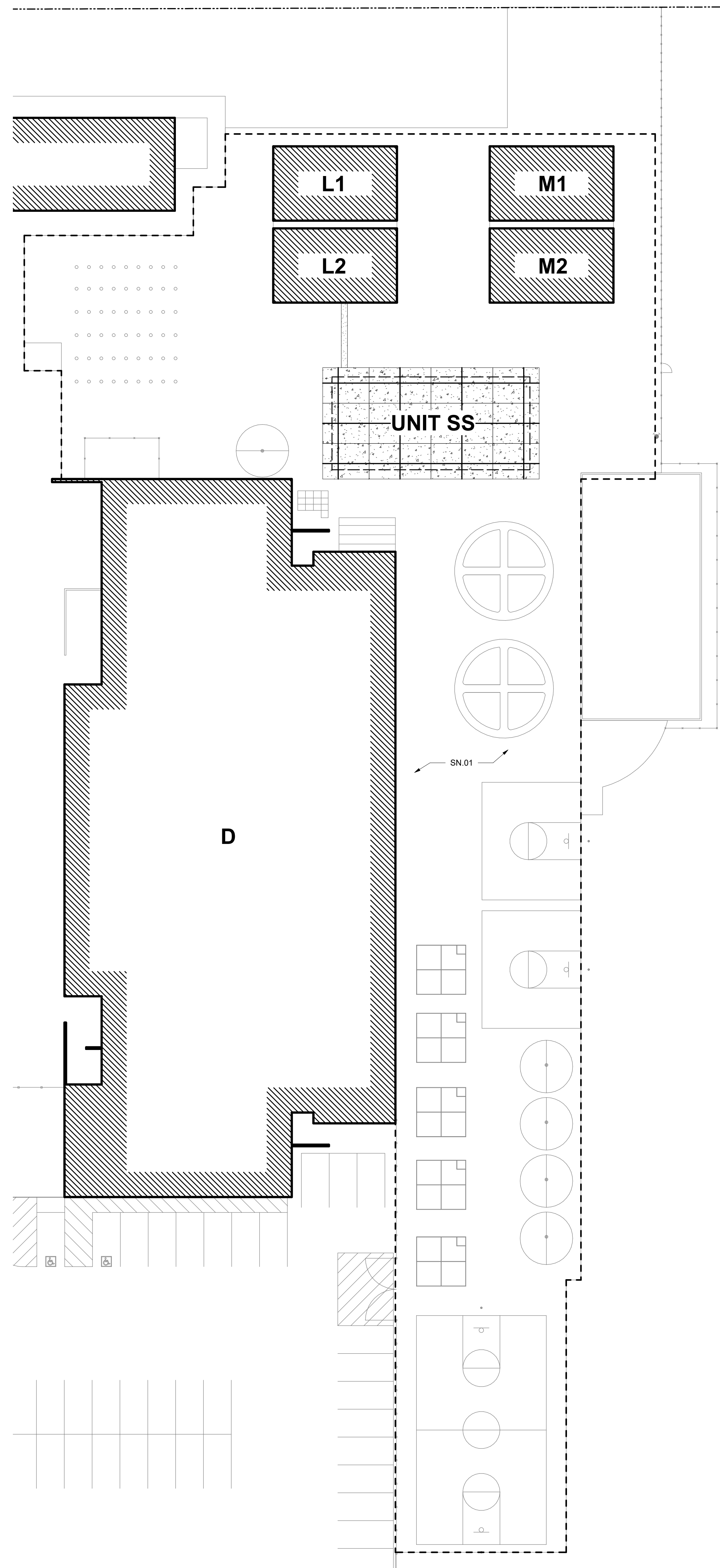


16 PRECAST CONCRETE BUMPER
1 1/2" = 1'-0"



3 ENLARGED PLAN - PARKING
1/8" = 1'-0"

NOTES:
1. PARKING STALL SHALL BE STRIPED USING WHITE PAINT (U.O.N.). STRIPES SHALL BE 4"



1 ENLARGED PLAN - STRIPING
1" = 20'-0"

LEGEND

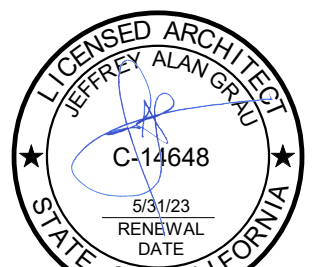
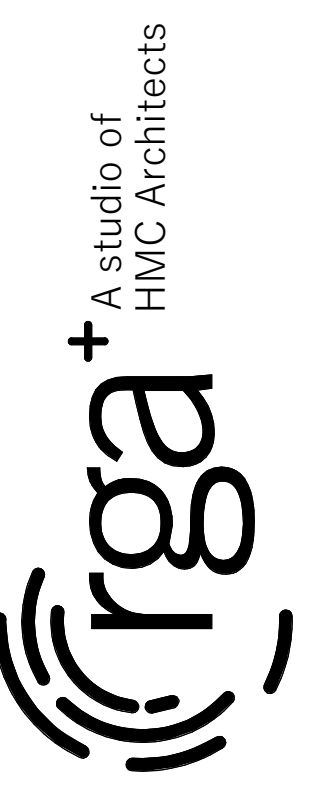
- PROPERTY LINE
- - - ASSUMED PROPERTY LINE
- [Symbol] UNIT DESIGNATION
PC SHADE STRUCTURE / DEFERRED APPROVAL
- [Symbol] UNIT DESIGNATION
EXISTING BUILDINGS
- [Symbol] EXPANSION JOINT
- [Symbol] CONCRETE WALK / PAVING
- [Symbol] CONTROL JOINT
- [Symbol] ASPHALT CONCRETE PAVING

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXTENT OF CRACK REPAIR AT (E) HARDCOURT.
2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING (E) STRIPING CONDITIONS AND VERIFYING EXACT LAYOUT TO BE RESTRIPE WITH DISTRICT.

SHEET NOTES

- SN 01 ALTERNATE 1: (E) HARDCOURT SHALL RECEIVE CRACK REPAIRS AND 2 COATS OF SEAL COAT. (E) STRIPING IS TO BE RESTRIPE OVER SEAL COAT. EXTENTS SHOWN DASHED
- SN 02 ROOF OVERHANG ABOVE, PER PC SHADE STRUCTURE / DEFERRED APPROVAL. CONTRACTOR IS RESPONSIBLE FOR FIELD CUTTING METAL ROOF PANELS FOR INSTALLATION.
- SN 03 HSS COLUMN AND FOOTING, PER PC SHADE STRUCTURE / DEFERRED APPROVAL.



SHADE STRUCTURE AT LEONARDO DA VINCI K-8 SCHOOL

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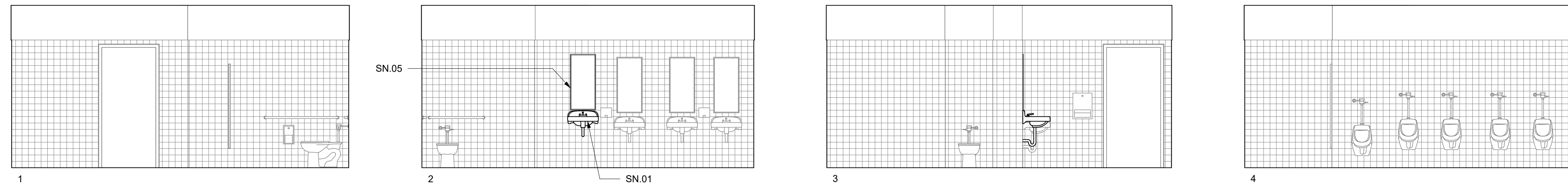
Revision

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PARTIAL SITE PLANS AND DETAILS

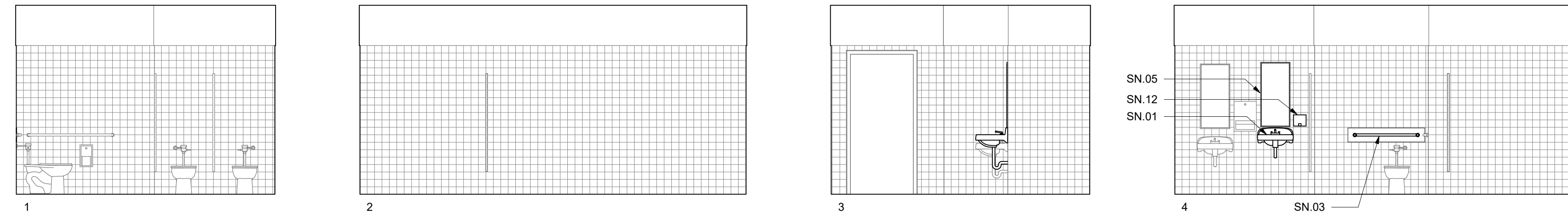
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A1.1.1



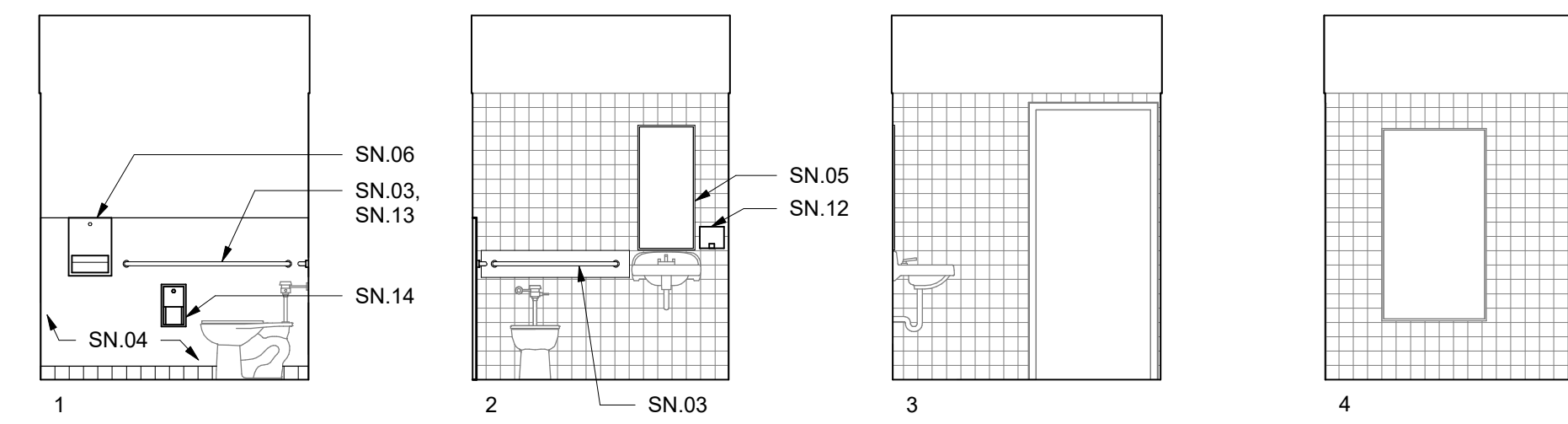
E101 - BOYS
1/4" = 1'-0"

ADULT HEIGHT



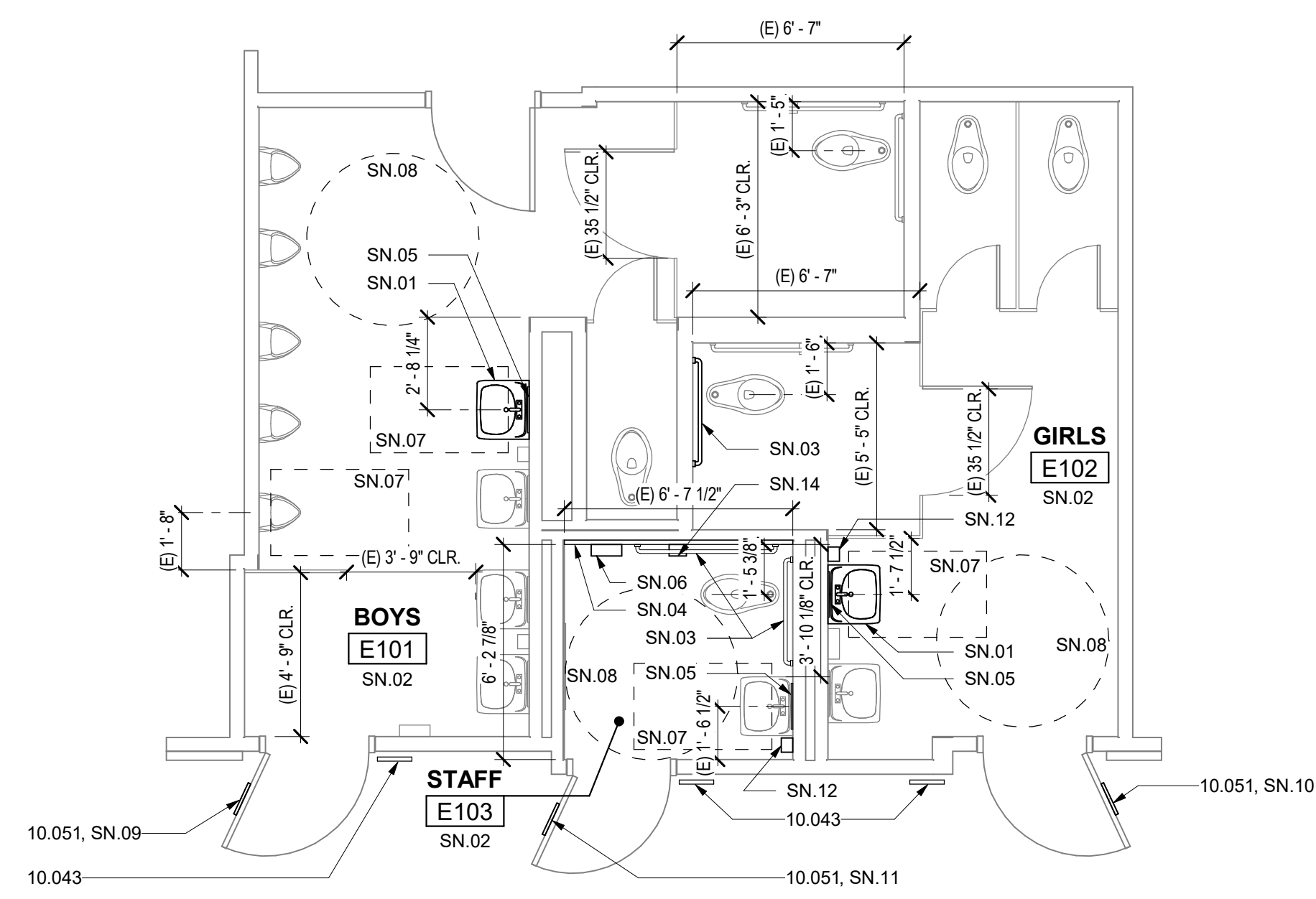
E102 - GIRLS
1/4" = 1'-0"

ADULT HEIGHT



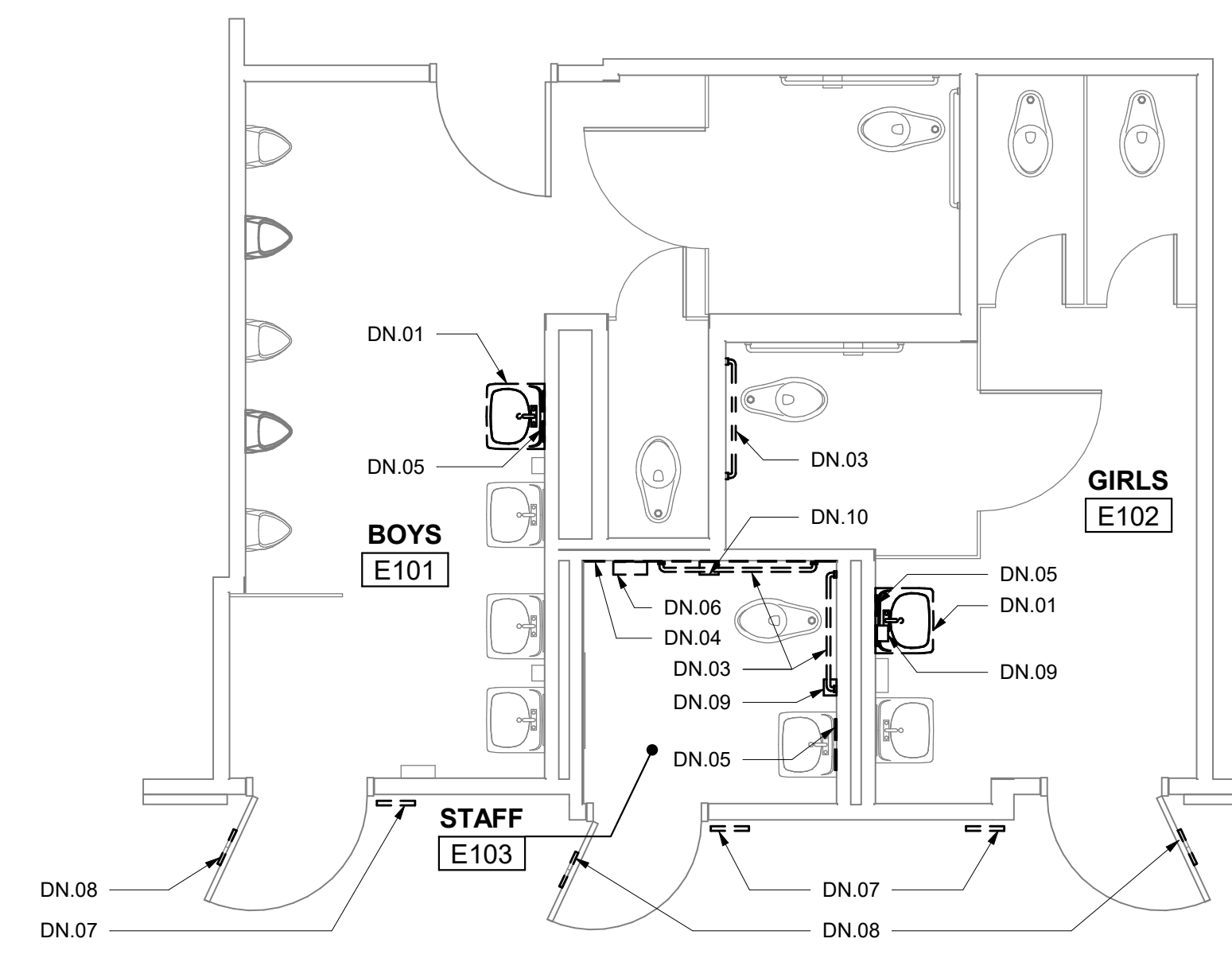
E103 - STAFF
1/4" = 1'-0"

ADULT HEIGHT



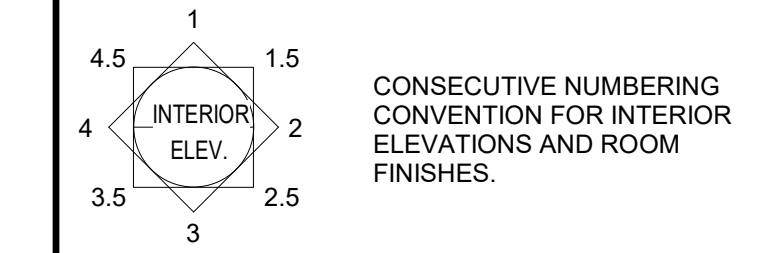
2 TOILET ROOMS - IMPROVEMENT
1/4" = 1'-0"

ADULT HEIGHT



1 TOILET ROOMS - DEMOLITION
1/4" = 1'-0"

LEGEND



GENERAL NOTES

- FOR MOUNTING HEIGHTS, LOCATIONS, AND DETAILS, INCLUDING THOSE FOR DISABLED ACCESSIBILITY, REFER TO SHEET A0.2
- PROTECT ALL ADJACENT SURFACES, ITEMS AND FINISHES NOT NOTED TO BE DEMOLISHED.
- 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.
- REMOVE ALL ITEMS SCHEDULED TO BE REMOVED, INCLUDING MOUNTING HARDWARE.
- DEMO AND REPAIR WALL FINISH AS NECESSARY TO PERFORM FIXTURE AND EQUIPMENT WORK AS NOTED. ADJACENT FINISHES TO BE VERIFIED BY CONTRACTOR.

DEMOLITION NOTES

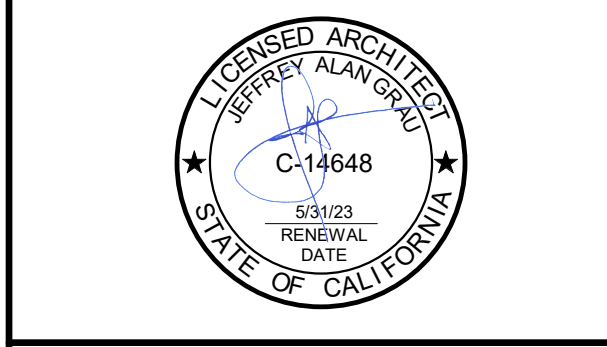
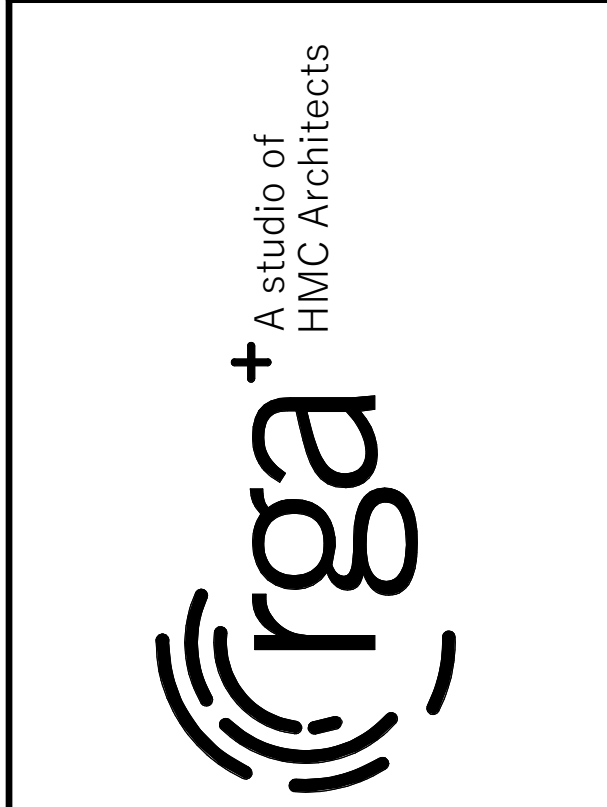
- DN.01 REMOVE (E) LAVATORY AND SALVAGE FOR REINSTALLATION
- DN.02 NOT USED
- DN.03 REMOVE (E) GRAB BAR AND SALVAGE FOR REINSTALLATION
- DN.04 REMOVE (E) TILE FINISH FROM THIS WALL ONLY
- DN.05 REMOVE (E) MIRROR AND SALVAGE FOR REINSTALLATION
- DN.06 REMOVE (E) PAPER TOWEL DISPENSER AND SALVAGE FOR REINSTALLATION
- DN.07 REMOVE (E) TOILET ROOM I.D. SIGN
- DN.08 REMOVE (E) TOILET ROOM DOOR SYMBOL
- DN.09 REMOVE (E) SOAP DISPENSER AND SALVAGE FOR REINSTALLATION
- DN.10 REMOVE (E) TOILET PAPER DISPENSER AND SALVAGE FOR REINSTALLATION

SHEET NOTES

- SN.01 REINSTALL (E) SALVAGED LAVATORY TO COMPLY WITH A0.2. ADJUST (E) WATER CARRIER AS REQUIRED FOR RECONNECTION TO LAVATORY. RECONNECT TO (E) WATER LINE, WASTE LINE AND VENT.
- SN.02 WRAP ALL EXPOSED PIPES WITH INSULATION AT LAVATORIES
- SN.03 REINSTALL (E) SALVAGED GRAB BARS TO COMPLY WITH A0.2
- SN.04 FURRED WALL PER 10 A0.2
- SN.05 REINSTALL (E) SALVAGED MIRROR TO COMPLY WITH A0.2
- SN.06 REINSTALL (E) SALVAGED PAPER TOWEL DISPENSER TO COMPLY WITH A0.2
- SN.07 30" X 48" CLEAR SPACE
- SN.08 80" DIA. TURNING CIRCLE
- SN.09 SIGN TO READ "BOYS"
- SN.10 SIGN TO READ "GIRLS"
- SN.11 SIGN TO READ "STAFF"
- SN.12 REINSTALL (E) SALVAGED SOAP DISPENSER TO COMPLY WITH A0.2
- SN.13 REINSTALL (E) SALVAGED GRAB BAR TO COMPLY WITH A0.2 AND PER 10 A0.2
- SN.14 REINSTALL (E) SALVAGED TOILET PAPER DISPENSER TO COMPLY WITH A0.2

KEYNOTES

- 10.043 SIGNAGE: TOILET ROOM IDENTIFICATION
- 10.051 SIGNAGE: TOILET ROOM DOOR SYMBOL



SHADE STRUCTURE AT LEONARDO DA VINCI K-8 SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision

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TOILET ROOM DEMOLITION AND IMPROVEMENT PLANS AND INTERIOR ELEVATIONS

UNIT E
 PROJECT NO. 1504.09
 DATE: 3/22/2022
 SHEET

A2.1.1

C:\Users\m\OneDrive\Documents\105106_Leonardo Da Vinci_School_Rev01.dwg

ABBREVIATION LIST

@ AT
 A AMPERE
 AC ALTERNATING CURRENT
 A/C AIR CONDITIONING
 AER ARC ENERGY REDUCTION
 AF AMP FRAME
 AFF ABOVE FINISHED FLOOR
 AIC AMPERES INTERRUPTING CAPACITY
 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
 ENT ELECTRICAL METALLIC TUBING
 EQ END OF LINE DEVICE
 EQUIP EQUIPMENT
 (ER) EXISTING RELOCATED
 EWH ELECTRICAL WATER COOLER
 EWH ELECTRICAL WATER HEATER
 (F) FUTURE
 FAOP FIRE ALARM CONTROL PANEL
 FAEP FIRE ALARM EXTENDER PANEL
 FATC FIRE ALARM TERMINAL CABINET
 FBO FURNISHED BY OTHERS
 FLUOR FLUORESCENT
 FLUR FOOT
 GA GAUGE
 GFCI GROUND FAULT CIRCUIT INTERRUPT
 GLZ GENERAL LIGHTING ZONE
 GND GROUND
 GP GAS PIPE
 GYP GYPSUM
 HID HIGH INTENSITY DISCHARGE
 HT HORSE POWER
 HT HEIGHT
 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
 MPEE 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) RELOCATE / 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
 TELEPHONE TERMINAL BOARD
 TTIB TELEPHONE TERMINAL BOARD
 TYP TYPICAL
 UC UNDERGROUND
 UNLESS OTHERWISE NOTED
 UON UNLESS OTHERWISE NOTED
 V VOLTS
 WP WEATHERPROOF
 W WEIGHT
 W WATT
 W/ WITH
 W/ TRANSFORMER
 & AND

GENERAL NOTES

- 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.
- ALL WORK SHALL BE DONE AT SUCH TIME AND IN SUCH MANNER AS PRESCRIBED BY THE SCHOOL'S REPRESENTATIVE.
- PROTECT EXISTING EQUIPMENT AND FURNISHINGS FROM ANY DAMAGE DUE TO DUST, MOISTURE OR CONTACT WITH WORK CREW OR MATERIALS.
- 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.
- 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.
- CORE BORE SHALL BE 1" DIAMETER LARGER THAN EACH CONDUIT. SPACE CONDUIT HOLES 3" APART. SEAL AROUND CONDUIT WITH NON-SHRINK, NON-METALLIC GROUT.
- ALL CONDUCTORS INSTALLED IN PANELBOARDS SHALL BE TRAINED, LACED, AND INSTALLED WITH PHASE TAPE ON ALL CONDUCTORS.
- LABEL DEVICES (I.E. RECEPTACLES, ETC.) ON EACH COVER PLATE IDENTIFYING CIRCUIT AND PANEL DEVICE IS CONNECTED TO.
- 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.
- FIELD COORDINATE DEVICE LOCATIONS PRIOR TO ROUGH-IN.
- 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 LABELS BY BRADY, MODEL NO. 101517, OR EQUAL, ON ALL EQUIPMENT.
- 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.
- SUPPORT ENCLOSURES, BOXES AND CONDUIT INSTALLATIONS PER CEC 314.23 (A) THROUGH (H).
- SEAL CONDUIT OPENINGS THROUGH WALLS AND CEILINGS. INSTALL ESCUTCHEON PLATES AT BUILDING INTERIOR. WHEN 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.
- 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.
- 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-ZN 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.
- 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.
- 17.1. 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.
- COORDINATE EQUIPMENT LOCATIONS, CONTROL AND POWER WIRING REQUIREMENTS AND CONNECT POINTS WITH ALL APPLICABLE DISCIPLINES.
- PROVIDE AND INSTALL FUSES PER UNIT NAMEPLATE DATA ON THE EQUIPMENT PROVIDED.
- A LAMINATED COPY OF THE FINAL RECORD ONE LINE DIAGRAM SHALL BE PLACED IN ELEC ROOM.
- PROVIDE WRING DEVICES AND COVER PLATES IN COLOR(S) SELECTED BY ARCHITECT. THE COLOR OF THE WRING DEVICE AND COVER PLATE SHALL BE THE SAME UNLESS SPECIFICALLY NOTED OTHERWISE.
- RECEPTACLE WEATHERPROOF COVERS SHALL BE LISTED "EXTRA DUTY", LOCKABLE, METAL, IN-USE TYPE.
- 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.
- FOR ROOF PENETRATIONS, REFER TO ARCHITECTURAL PLANS FOR INSTALLATION REQUIREMENTS.
- FOR WALL PENETRATION INSTALLATIONS, REFER TO ARCHITECTURAL PLANS FOR REQUIREMENTS.
- PROVIDE "LOOK-ON" DEVICE FOR ALL CIRCUIT BREAKERS ON EMERGENCY DEDICATED CIRCUITS.
- 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.
- MAINTAIN A MINIMUM OF 12" SEPARATION BETWEEN ANY CONDUIT AND (E) UTILITY CONDUIT.
- 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 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30:

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 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.
- 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:

- 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.
- 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 2019 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., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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 OSHPD PRE-APPROVAL (OPM #) #_____

SYMBOLS LIST

- FUSED DISCONNECT SWITCH
- DUPLEX CONVENIENCE OUTLET
- DOUBLE DUPLEX CONVENIENCE OUTLET
- GROUND FAULT CIRCUIT INTERRUPTER DUPLEX OUTLET
- GROUND FAULT CIRCUIT INTERRUPTER 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
- TERMINAL CABINET, RECESSED MOUNTED
- TERMINAL CABINET, SURFACE MOUNTED
- 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.
- SYMBOLS REFERRING TO KEYED NOTES ON SAME SHEET
- MECHANICAL EQUIPMENT BY OTHERS, CONNECTED BY ELECTRICAL CONTRACTOR
- DETAIL DESIGNATION, "A" SIGNIFIES DETAIL, "E-1" SIGNIFIES SHEET NUMBER
- (1)1-1/2" ← INDICATES SIZE OF CONDUIT = ONE AND ONE HALF INCH CONDUIT
↑ NUMBER WITHIN PARENTHESIS INDICATES QUANTITY OF CONDUITS

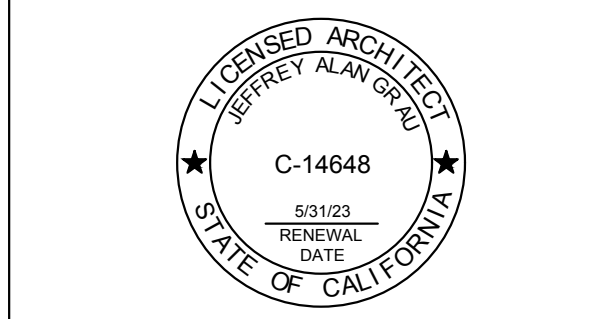
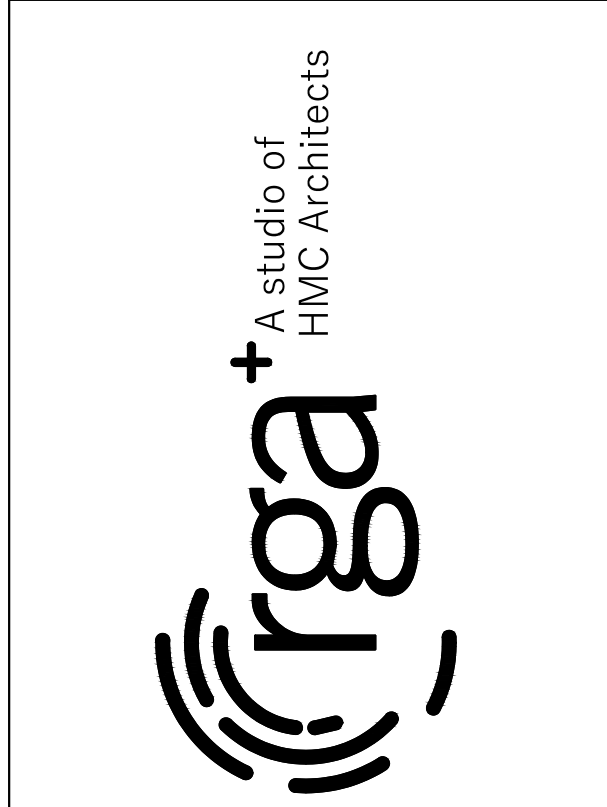
SYMBOLS LIST NOTES:

- MOUNT SWITCH BOXES AT +48" TO TOP OF BOX UNLESS OTHERWISE NOTED.
- MOUNT OUTLET BOXES AT +15" TO BOTTOM OF BOX UNLESS OTHERWISE NOTED.
- "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:
 - +48" MAX TO TOP OF BOX WHERE BOX IS INSTALLED OVER BASE CABINET.
 - +44" MAX TO TOP OF BOX WITH OPEN COUNTERS WITH FORWARD APPROACH.
- OUTLET BOXES SHALL BE:
 - WALL MOUNTED - 4" SQ. x 2-1/8" DEEP MINIMUM
 - CEILING MOUNTED - 4" SQ. OR 4" OCT. x 2-1/8" DEEP MINIMUM
- OUTLET BOXES REQUIRING 1-1/4", 1-1/2" OR 2" CONDUITS SHALL BE 4-11/16" x 3-1/4" DEEP MINIMUM.
- FLUSH MOUNTED OUTLET BOXES SHALL UTILIZE TRIM RINGS. COORDINATE TRIM RING DEPTH WITH WALL FINISH PRIOR TO ROUGH-IN.
- NO CROSSBARS ON CONDUIT RUN INDICATES MINIMUM 1" CONDUIT. TWO #10 CU CONDUCTORS PLUS #10 CU GND. CROSSBARS INDICATE NUMBER OF #10 CU CONDUCTORS IN CONDUIT. CONDUCTOR SIZES OTHER THAN #10 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.
- 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.
- INSTALL CU GROUND CONDUCTOR IN ALL BRANCH CIRCUITS FOR LIGHT FIXTURES AND POWER DEVICES.

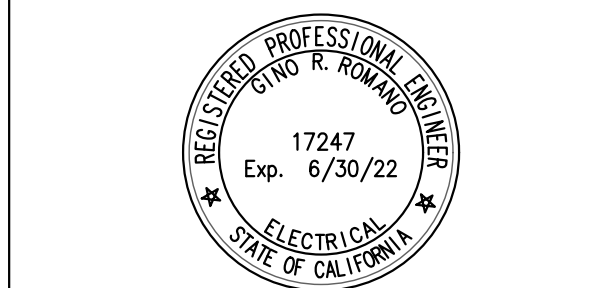
120V BRANCH CIRCUIT VOLT DROP CONDUCTOR LENGTH CHART

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

- NOTES
- THIS CHART IS FOR COPPER CONDUCTORS ONLY.
 - THIS CHART ASSUMES AN 80% POWER FACTOR AND STEEL RACEWAYS.
 - 2019 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.
 - USE WIRE SIZE FROM THIS CHART UNLESS LARGER CONDUCTOR SIZES ARE NOTED ON THE DRAWINGS.
 - FOR VA VALUES NOT SHOWN USE NEXT HIGHEST VALUE FROM THE CHART



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 consulting mechanical and electrical engineers



PLOT DATE: 3/17/2022

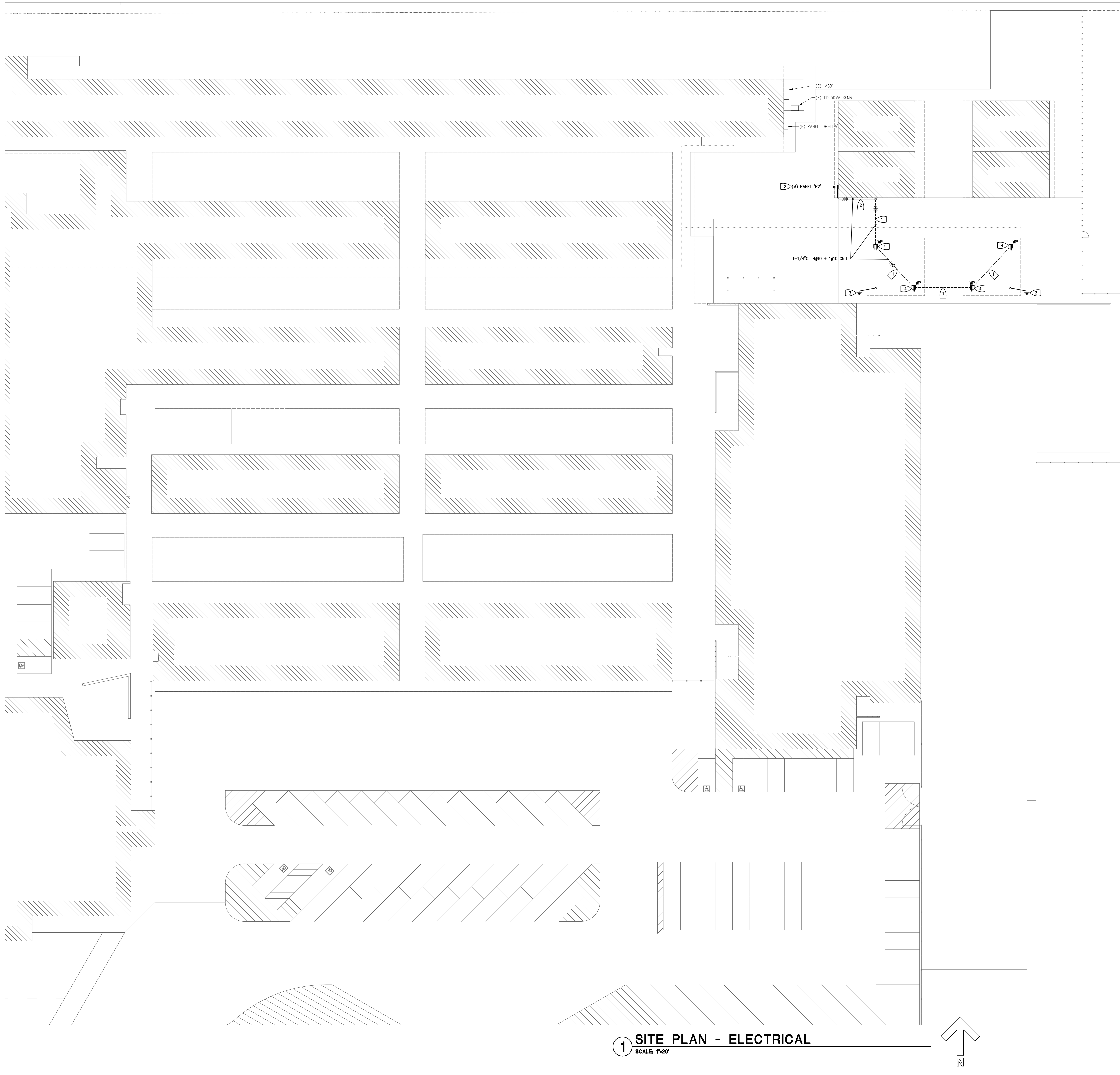
SHADE STRUCTURE AT LEONARDO DA VINCI K-8 SCHOOL
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
 SACRAMENTO, CA

Revision

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SYMBOLS, NOTES

PROJECT NO. 1504.09
 DATE: 3/21/2022
 SHEET

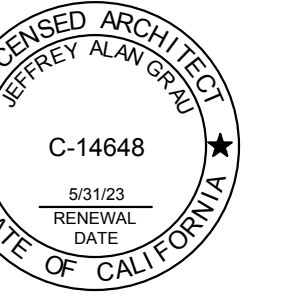
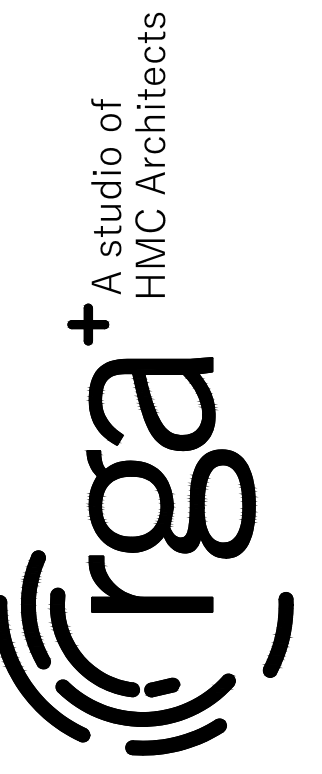


SHEET NOTES:

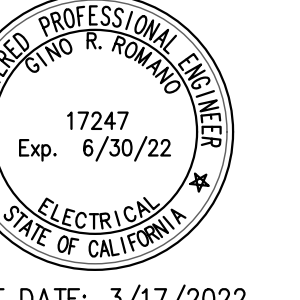
1. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DRAWINGS AND LIMITED SITE SURVEYS, AND SHOWN FOR CLARITY ONLY.
2. SEE ONE LINE DIAGRAM AND PANEL SCHEDULE ON SHEET **E2.1** FOR REFERENCE.

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 WITH NATIVE SOIL. COMPACT IN SIX(6) LIFTS. FINISH TO MATCH EXISTING. SEE DETAIL **3/E3.1**.
- 2 PROVIDE J-BOX HIGH ON WALL. RUN CONDUIT HIGH ON WALL AS CLOSE TO EAVE AS POSSIBLE TO WRAP AROUND BUILDING, AND DROP CONDUIT TO BELOW ASPHALT. PROVIDE CHRISTY N9 PULL BOX WITHIN FIVE(5) FT OF NEAREST SHADE STRUCTURE. TRENCH TO SHADE LOCATION, INTERCEPTING THE CHRISTY BOX ALONG THE WAY. CHRISTY BOX TO HAVE HOLD DOWN BOLTS AND BE LABELED FOR POWER. PAINT EXPOSED CONDUIT TO MATCH (E) FINISH.
- 3 PROVIDE AT MINIMUM TWO(2) GROUND RODS, EACH 5/8" BY TEN(10) FEET LONG, CU, AT LEAST TEN(10) FEET APART. BOND TO METAL OF SHADE STRUCTURE. SEE DETAIL **3/E3.1**.
- 4 LOCKABLE, WEATHERPROOF RECEPTACLE TO HAVE A TWO-GANG BACK BOX WITH 1" THREADED PORT. MOUNT RECEPTACLES 36" ABOVE GRADE UNLESS SPECIFIED OTHERWISE. SEE DETAIL **3/E3.1**.



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PLOT DATE: 3/17/2022

SHADE STRUCTURE AT LEONARDO DA VINCI K-8 SCHOOL

**SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA**

Revision

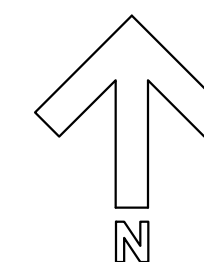
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SITE PLAN - ELECTRICAL

PROJECT NO. 1504.09
DATE: 3/21/2022
SHEET

E1.1

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



MODIFIED

PANEL:	MANF: SQUARE-D	MAIN: 125/2	SERVICE: 120 /208 VOLT	MOUNTING: SURFACE	ENCLOSURE: WIDTH: 14" DEPTH: 4.25"	10K AIG 100% NEUT.
P2	TYPE: HOMELINE LC	BUSS: 125 AMP	120 /208 VOLT	1 Ø, 3W		
AØ	BØ	DIRECTORY	BRKR	CKT	CKT	BØ
		MAIN	100/2			
5404	5404	HVAC	45/2	1	2	20/1
				3	4	20/1
1200	1200	RECEPTS	20/1	5	6	20/1
		RECEPTS	20/1	7	8	20/1
		LIGHTS	20/1	9	10	20/1
		RECEPTS - SHADE STRUCT. [5]	20/1	11	12	PFB SPACE
720						1500
		NEW LOAD				
		TOTAL PANEL VA	AMPS	AMPS @125%	AMPS	VA
AØ =		10504 VA	87.5	4.1	5.1	11118 VA
BØ =		10024 VA	83.5	2.9	3.8	87.2 A
						10459 VA
						82.7 AMPS

NOTES:

- FEEDER CONDUCTORS CONSIST OF 3#1 + #6 GND CU
- BRANCH BREAKERS ARE SQUARE-D TYPE HOM
- PROVIDE TYPE-WRITTEN PANEL DIRECTORY
- ALL NEW BREAKERS TO MATCH EXISTING TYPES
- PROVIDE NEW TWIN, 20A BREAKER

SHEET NOTES:

- 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:

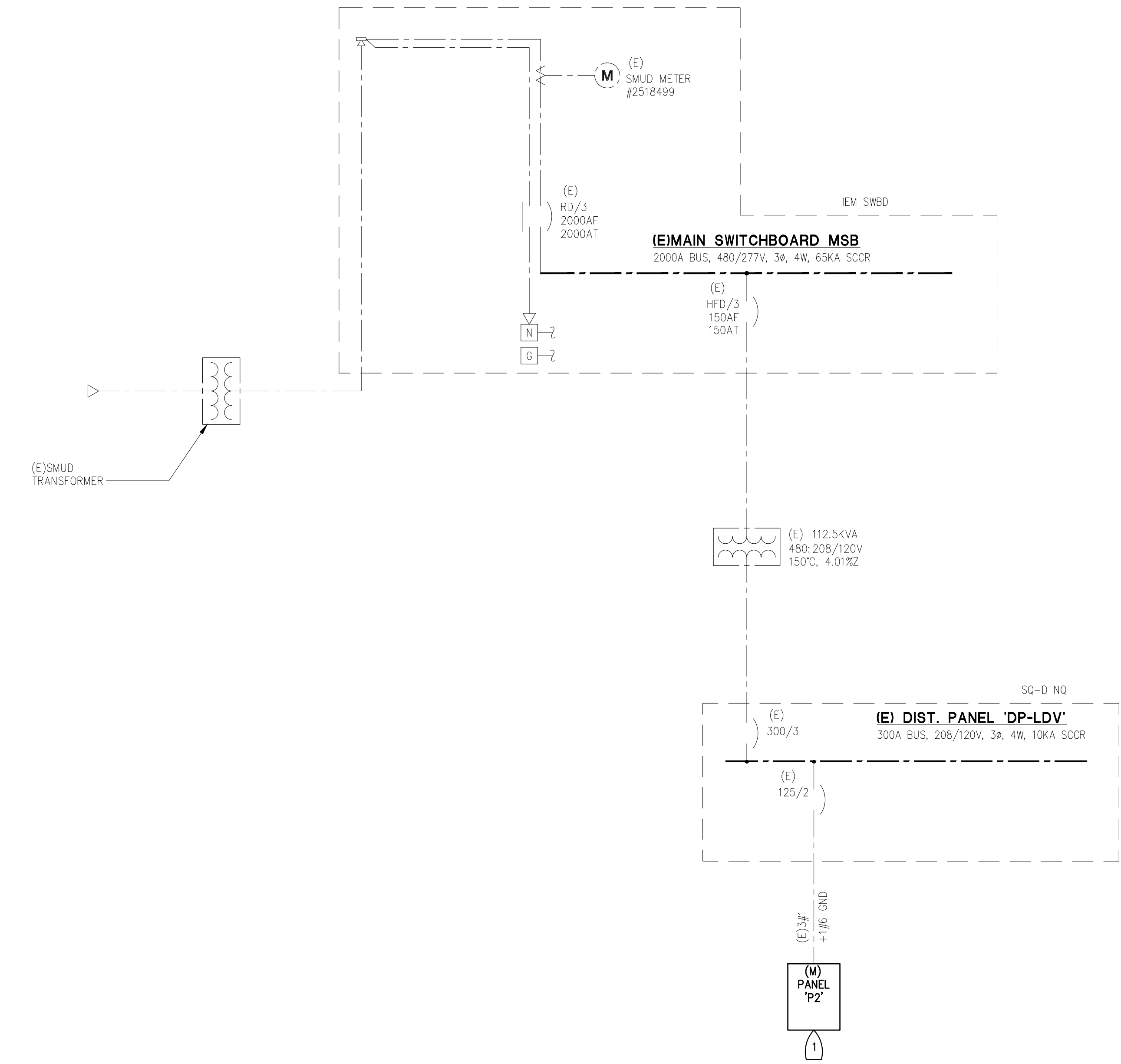
- MODIFIED PANEL SERVES EQUIPMENT BEING ADDED IN THIS PROJECT. SEE PANEL SCHEDULE ON THIS SHEET FOR REFERENCE.

Voltage Drop Calculations Copper

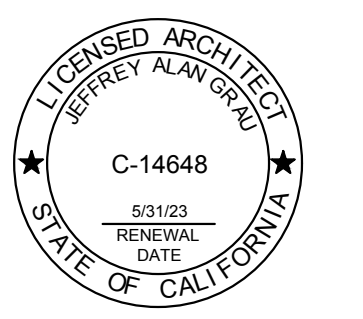
Job Name: Leonardo Da Vinci Elementary School - Shade Structure Job #: 22.020
Date: 3/10/2022

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	6.0	0.7	118.93	89	89	1	6.00	10	1995	1.07	0.89%
RECEPT-2	4.5	0.5	118.59	38	127	1	4.50	10	1995	1.41	1.17%
RECEPT-3	3.0	0.4	118.37	38	165	1	3.00	10	1995	1.63	1.36%
RECEPT-4	1.5	0.2	118.25	38	203	1	1.50	10	1995	1.75	1.46%



1 ONE LINE DIAGRAM
SCALE: NONE



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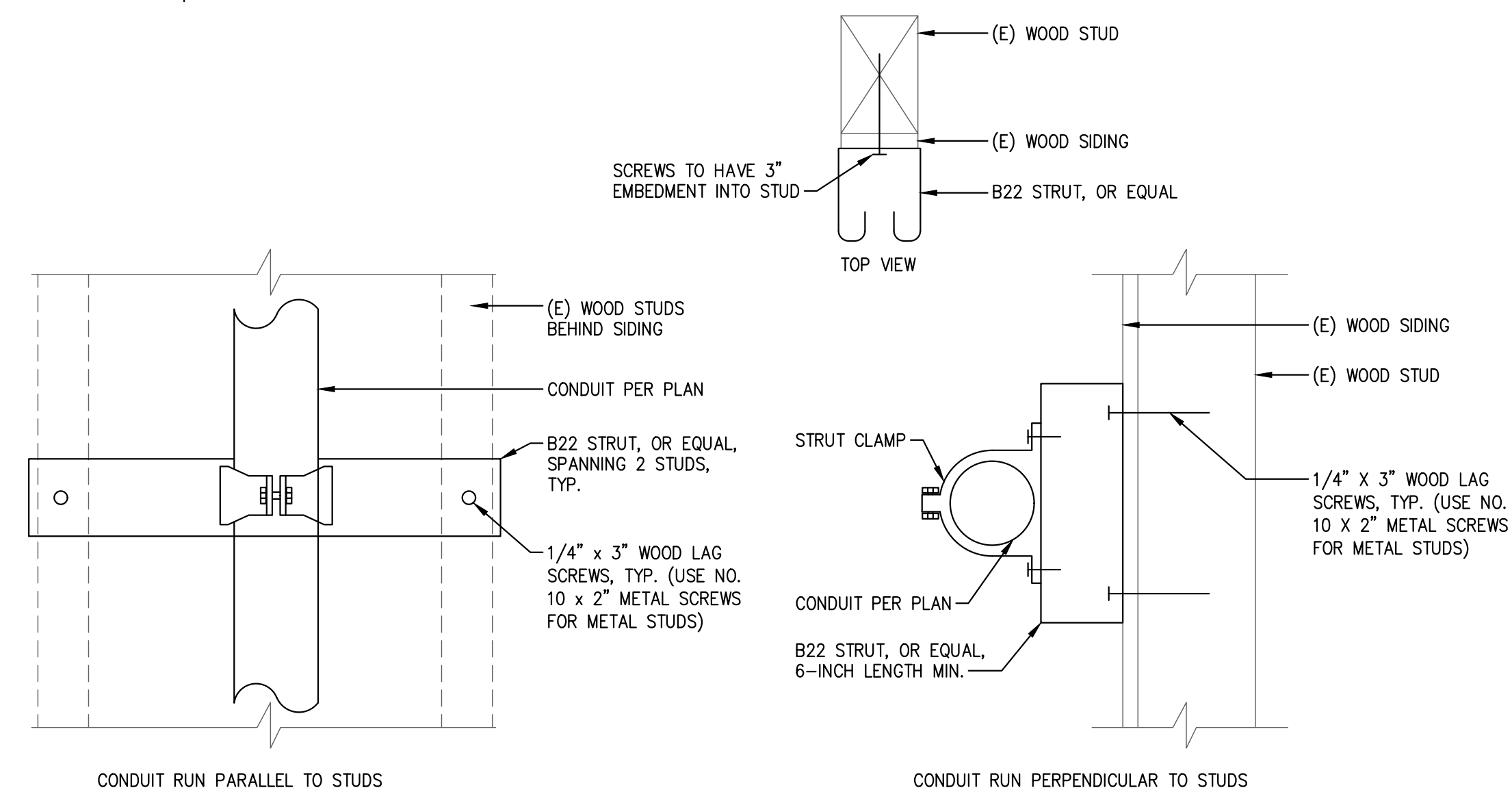
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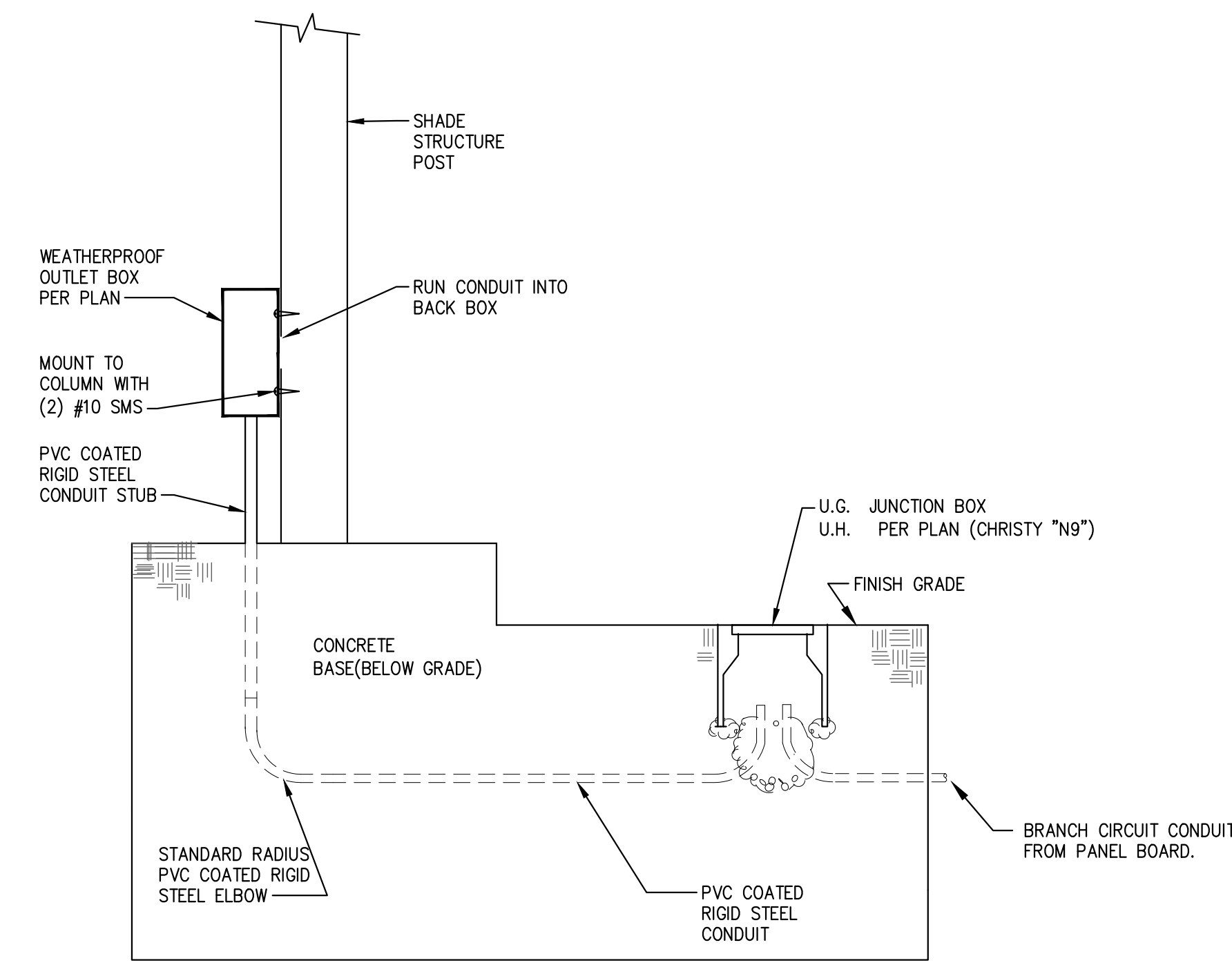
ONE LINE DIAGRAM

PROJECT NO. 1504.09
DATE: 3/21/2022
SHEET

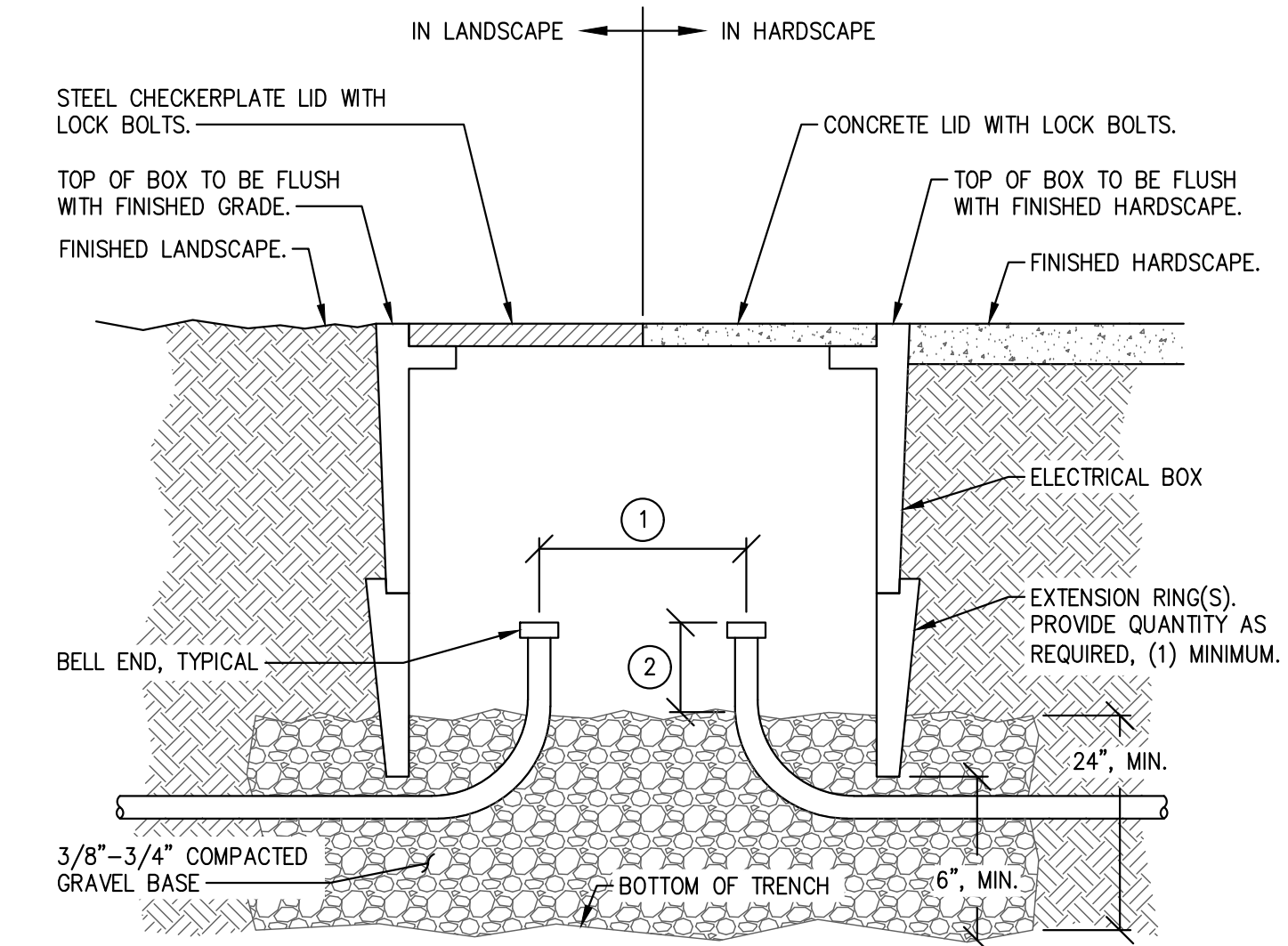


- NOTES:
1. CONDUIT SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING TEN(10) FEET AND NOT MORE THAN THREE(3) FEET FROM THE OUTLET AND AT ANY POINT WHERE IT CHANGES DIRECTION.
 2. PERFORATED STRAP AND PLUMBER'S TAPE SHALL NOT BE PERMITTED.
 3. MAXIMUM CONDUIT AND CONDUCTOR WEIGHT IS 1.83LBS PER LINEAR FOOT.

7 CONDUIT MOUNTING DETAIL - STUD WALLS
SCALE: NONE

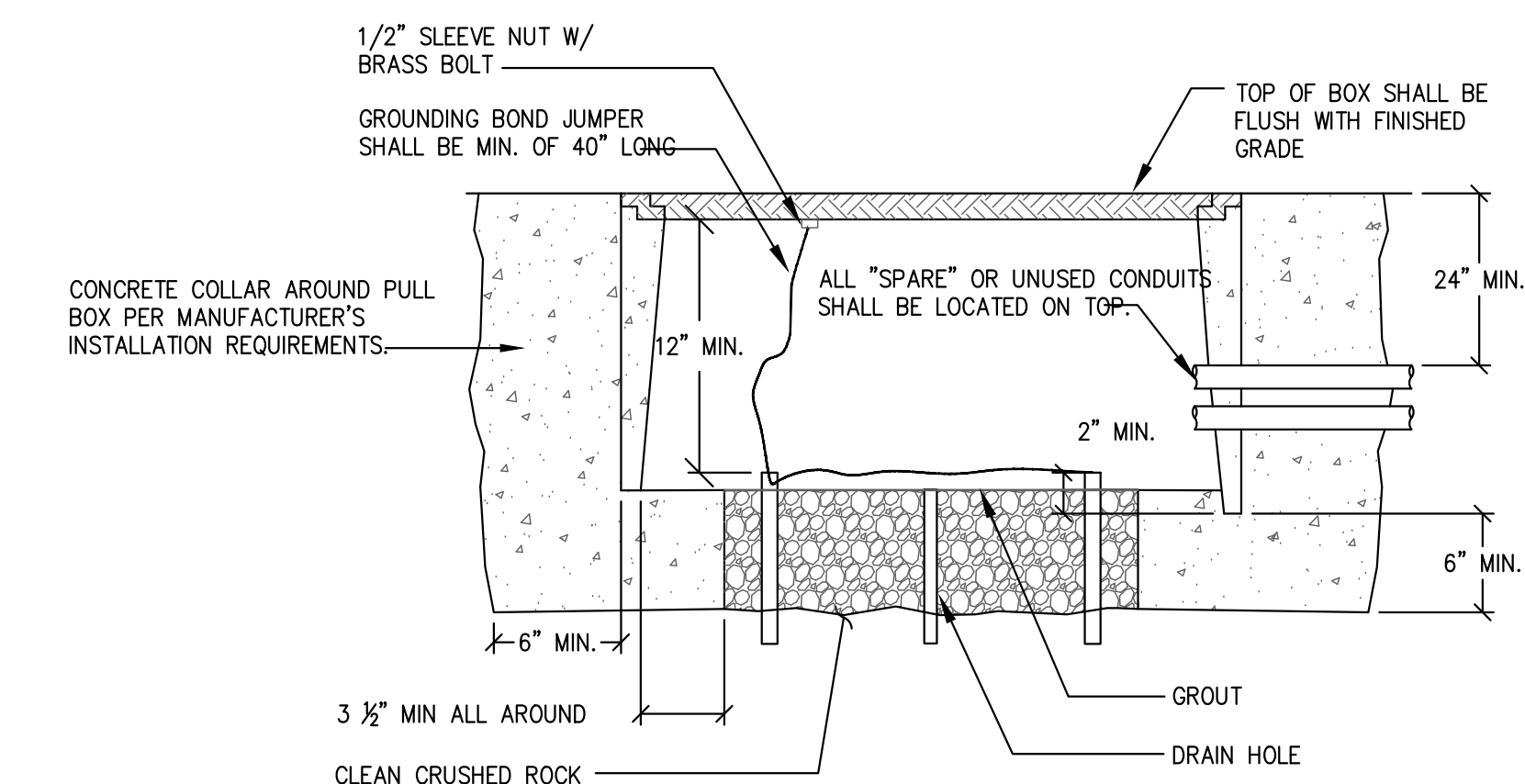


4 CONDUIT STUB IN POST DETAIL
SCALE: NONE



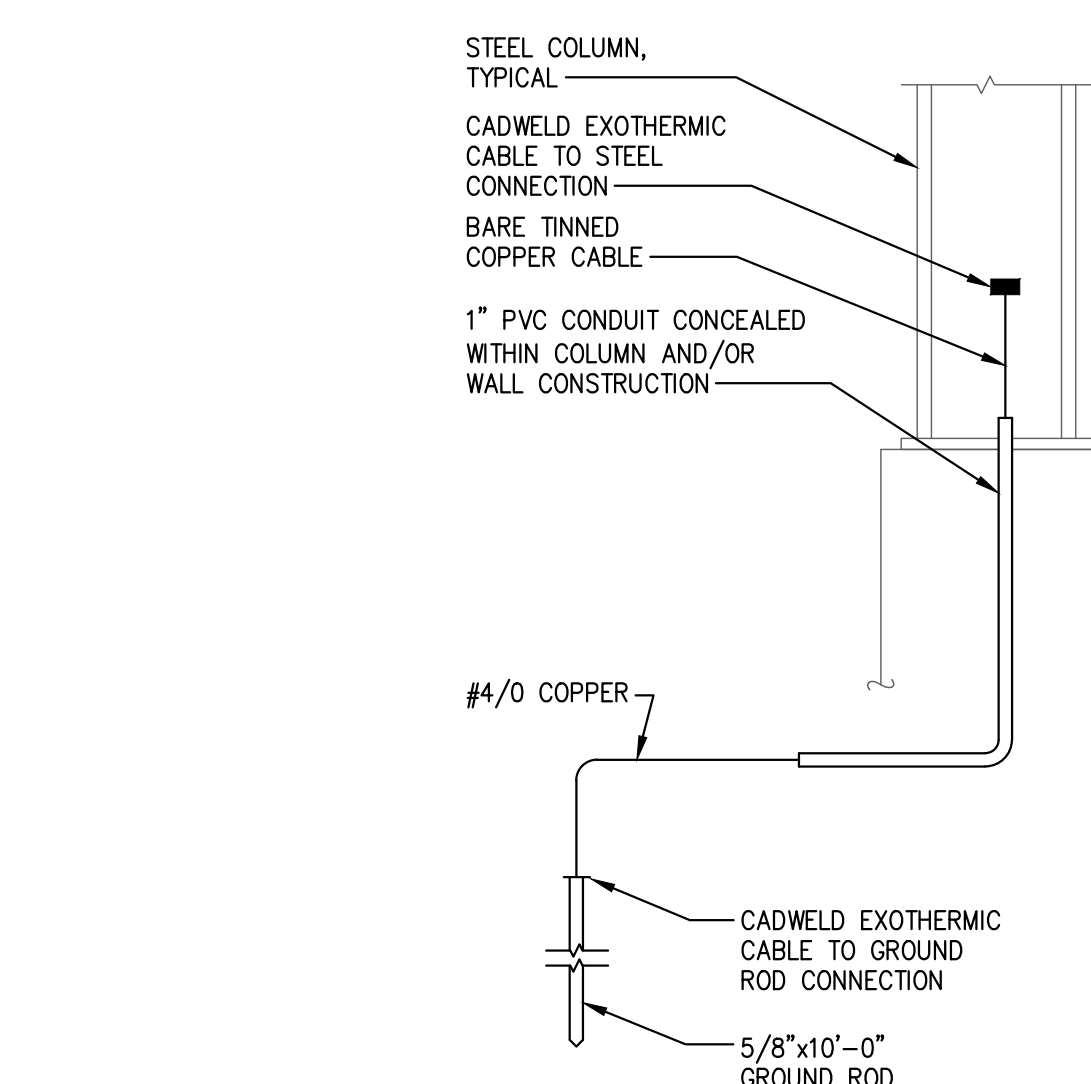
- KEY NOTES:
1. WHERE CONDUITS SERVE INCOMING AND OUTGOING CIRCUITS KEEP RISERS SEPARATED INSIDE PULLBOX TO ALLOW FOR SLACK CONDUCTORS.
 2. TOPS OF CONDUITS MUST NOT EXTEND INTO PULLBOX MORE THAN 1/3 OF THE TOTAL AVAILABLE INSIDE BOX HEIGHT, IN ORDER TO ALLOW ADEQUATE SPACE FOR CABLE SLACK.

1 NON-TRAFFIC RATED PULL BOX
SCALE: NONE



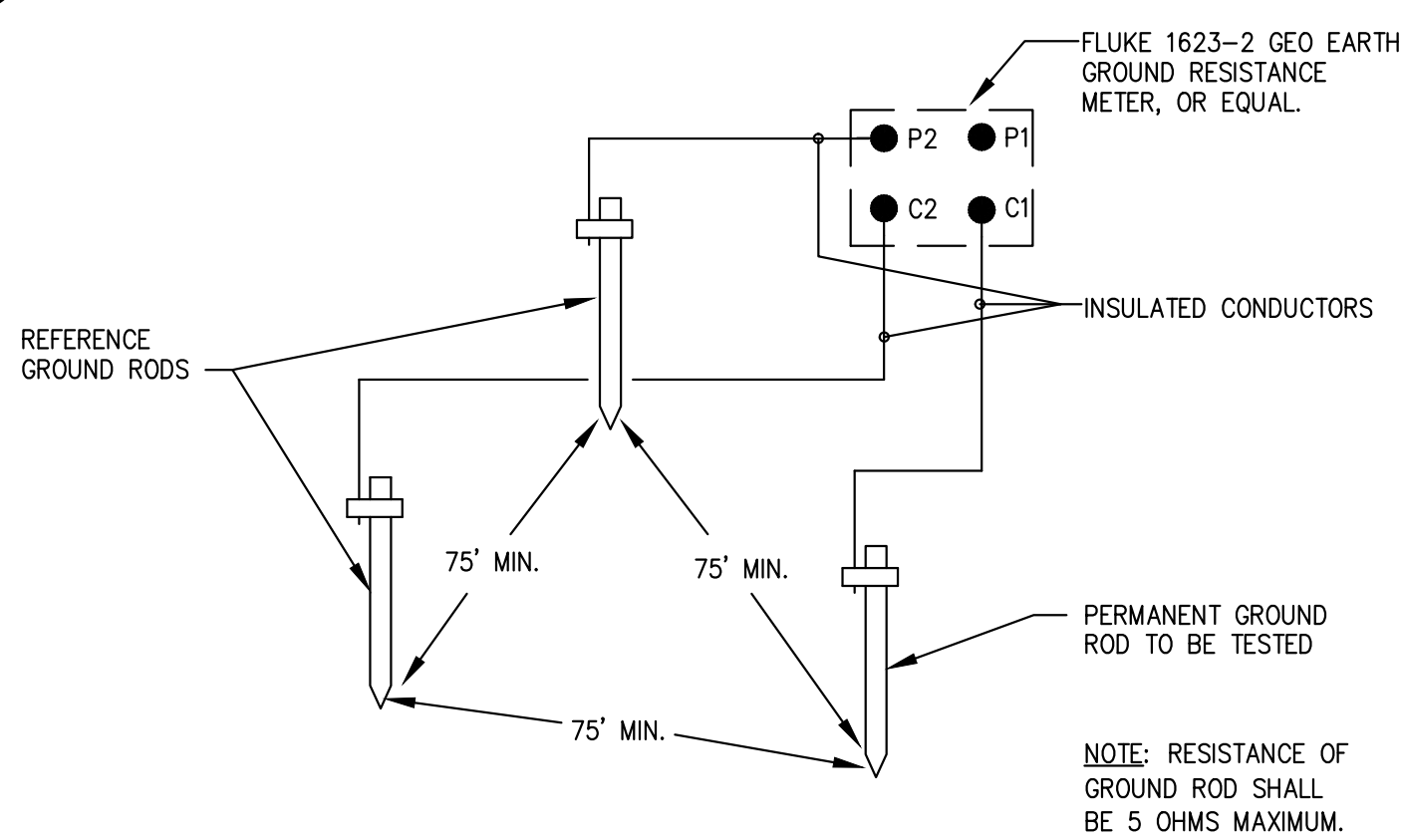
- NOTES:
1. HANDHOLES SHALL BE PROVIDED WITH A MINIMUM OF (4) GALVANIZED PULLING PLATES IN BOTTOM OF PULLBOX.
 2. PULLBOXES SHALL BE PROVIDED WITH CAST IN PLACE VERTICAL CABLE RACKS. ALL CABLES SHALL BE NEATLY BUNDLED, ORGANIZED AND SUPPORTED BY CABLE RACKS.
 3. WHERE ADDITIONAL CONDUIT ENTRIES ARE REQUIRED BEYOND QUANTITY OF TERMINATORS SHOWN, CONTRACTOR SHALL FIELD CORE DRILL AS REQUIRED, WHERE 4\"/>

2 TRAFFIC RATED PULL BOX
SCALE: NONE

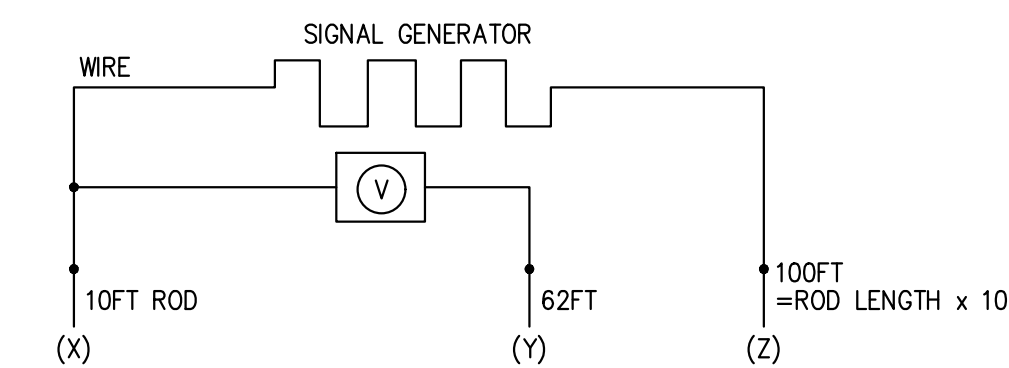


- NOTES:
1. ALL GROUNDING CONNECTIONS SHALL BE IN CONFORMANCE WITH N.E.C. ARTICLE 250.
 2. FOR ALL ADDITIONAL REQUIREMENTS REFER TO SPEC SECTIONS 26 05 26.

5 TYPICAL STEEL COLUMN & REBAR GROUNDING DETAIL
SCALE: NONE

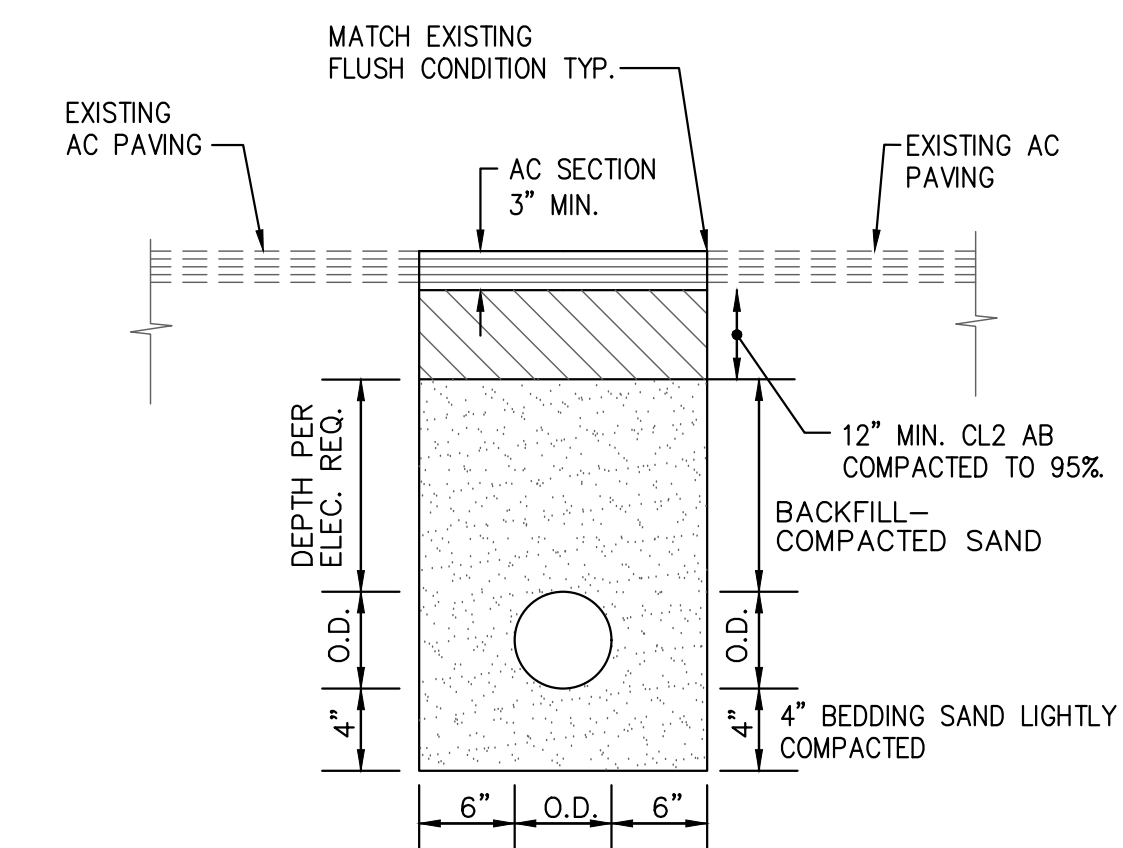


- FALL OF POTENTIAL TEST METHOD NOTES:
1. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY OF 500KVA OR LESS: 10 OHMS.
 2. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY OF 500 TO 1000KVA: 5 OHMS.
 3. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY GREATER THAN 1000KVA: 3 OHMS.
 4. POWER DISTRIBUTION UNITS OR PANELBOARDS 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\"/>

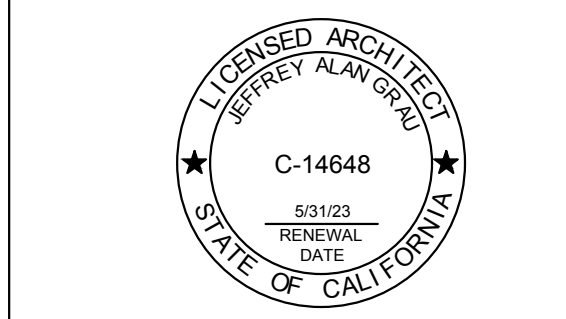
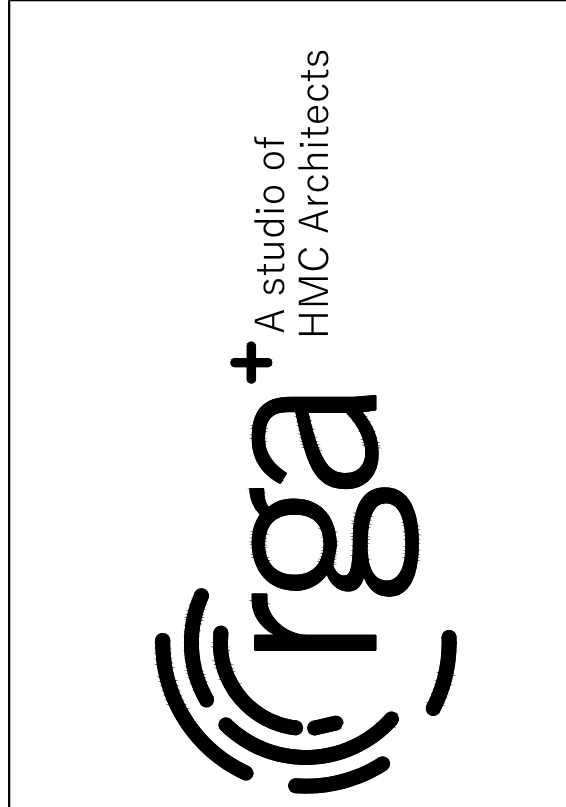


AT THIS POINT, A KNOWN CURRENT IS APPLIED ACROSS X & Z, WHILE THE RESULTING VOLTAGE IS MEASURED ACROSS X & Y. OHMS LAW APPLIED $R=V/I$. THEN (Y) MOVED TO 2 TIMES THE DIAGONAL LENGTH, THEN MOVE OUT TO 3 TIMES(3X), 4X, ... 9X THE DIAGONAL LENGTH TO COMPLETE THE 3 POINT TEST WITH A TOTAL OF NINE RESISTANCE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

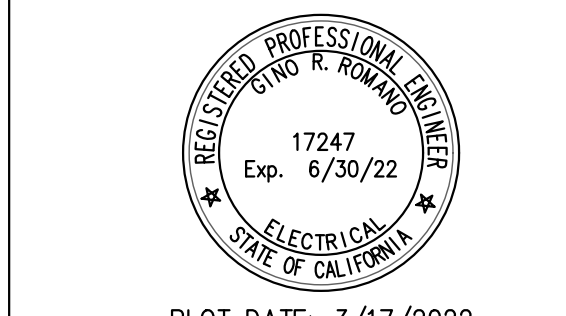
6 METHOD OF TESTING GROUND RODS DETAIL
SCALE: NONE



3 TYPICAL TRENCH DETAIL
SCALE: NONE



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DETAILS

PROJECT NO. 1504.09
DATE: 3/21/2022
SHEET E3.1

DESIGN CRITERIA	
DESCRIPTION	DESIGN VALUES
DEAD AND LIVE LOADS	
ROOF LIVE LOAD	20 PSF
ROOF DEAD LOAD (SUPERIMPOSED ON FRAME)	5 PSF MAX
ROOF PANEL DEAD LOAD	M=1.1 PSF, G = 1.2 PSF, S = 1.3 PSF
COLLATERAL DEAD LOAD	M = 3.9 PSF, G = 3.8 PSF, S = 3.7 PSF
ROOF SNOW LOAD	
GROUND SNOW LOAD, P _s	20 PSF
RISK CATEGORY	II
ROOF SNOW LOAD: SLOPED, P _s	20 PSF
SITE APPLICATION DSA REVIEWER SHALL VERIFY THE STRUCTURE BE LOCATED AT LEAST 20 FEET FROM ADJACENT STRUCTURE	
SNOW LOAD SLOPE FACTOR, C _s	1.0
SNOW EXPOSURE FACTOR, C _e	1.0
SNOW LOAD IMPORTANCE FACTOR, I _s	1.0
THERMAL FACTOR, C _t	1.2
WIND DESIGN	
BASIC WIND SPEED (3 SECOND GUST), V _m	100 MPH
RISK CATEGORY	II
EXPOSURE CATEGORY	C
FACTORS: K _d , K _e , K _z	0.85, 1.0, 0.85
I _h = 0.00256 K _d K _e K _z V ² FOR ALL EAVE HEIGHTS (8', 10' & 12')	18.50 PSF
C _{mf} PER ASCE FIGURE 27-4-5 ROOF ANGLE 18.43° - CLEAR / OBSTRUCTED	CASE A (1.1 / -1.2) CASE B (0.01 / -0.09)
C _{mf} PER ASCE FIGURE 27-4-5 ROOF ANGLE 18.43° - CLEAR / OBSTRUCTED	CASE A (-0.17 / -1.09) CASE B (-0.96 / -1.65)
C _{mf} PER ASCE FIGURE 27-4-7 PARALLEL TO RIDGE - CLEAR / OBSTRUCTED	CASE A (-0.6 / -0.9) CASE B (-0.5 / -0.5)
COMPONENTS & CLADDING - C _u (PRESSURE/SUCTION) CLEAR / OBSTRUCTED	ZONE 3 - (2.29 / -2.11) / (1.0 / -3.0) ZONE 2 - (1.77 / -1.63) / (0.8 / -2.3) ZONE 1 - (1.15 / -1.05) / (0.5 / -1.5)
SEISMIC DESIGN	
LATERAL FORCE RESISTING SYSTEM	STEEL - ORDINARY CANTILEVER COLUMN
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
SEISMIC IMPORTANCE FACTOR, I _e	1.0
SEISMIC SITE CLASS	D
MCE _s SPECTRAL RESPONSE ACCELERATION @ 0.2 s, S _s	0.6
MCE _s SPECTRAL RESPONSE ACCELERATION @ 0.2 s, S ₁	0.90
SHORT PERIOD SITE COEFFICIENT, F _a	1.20
LONG PERIOD COEFFICIENT, F _v	1.70
FUNDAMENTAL PERIOD OF THE STRUCTURE, T	0.152 s
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, S _{DS}	2.08
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, S _{DS} - USED TO DETERMINE C _s (WITH CAP PER ASCE-7 12.8.1.3)	2.08 * 0.70 = 1.456
DESIGN SPECTRAL RESPONSE ACCELERATION AT 1-4 PERIODS, S _{D1}	1.02
SEISMIC DESIGN CATEGORY	E
RESPONSE MODIFICATION FACTOR, R	1.25
OVERSTRENGTH FACTOR, Q	1.25
REUNDANCY FACTOR, ρ	1.0
HORIZONTAL OR VERTICAL IRREGULARITIES	NONE
SEISMIC RESPONSE COEFFICIENT, C _s (20' WIDE, 30' WIDE, 40' WIDE)	1.16
DESIGN BASE SHEAR, V (20' WIDE, 30' WIDE, 40' WIDE)	12.73 PSF, 13.41 PSF, 14.65 PSF
ALLOWABLE SOIL BEARING FOR FOUNDATIONS	VARIES - SEE FOUNDATION CHARTS
FLOOD DESIGN - DESIGN IS ASSUMED TO NOT BE IN FLOOD HAZARD AREA	
IF PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED & SIGNED FROM A SOILS ENGINEER IS REQUIRED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED.	

GENERAL:

- 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.
- 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.
- 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.
- 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.
- 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 VISIT 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.
- ASTM DESIGNATIONS AND ALL STANDARDS REFER TO THE LATEST AMENDMENTS.
- 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.
- 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.
- 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.
- THE SCHOOL DISTRICT INSPECTOR ON RECORD SHALL INSPECT AND APPROVE THE ERCTED FRAME PRIOR TO ROOF INSTALLATION.
- SEE REQUIREMENTS FOR LOCATION IN ANY FIRE HAZARD SEVERITY ZONE FOR WIDLAND 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 REQUIREMENTS.
- 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.
- VIEWS AND DETAILS ARE NOT DRAWN TO SCALE (UNLESS NOTED OTHERWISE). DO NOT SCALE THESE DRAWINGS.

STRUCTURAL AND MISCELLANEOUS STEEL:

- ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERCTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION MANUAL REFERENCED BY THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE.
- PIPE SECTIONS SHALL CONFORM TO ASTM A53, F_y = 35 KSI, GRADE B OR A501 UNLESS NOTED OTHERWISE.
- STRUCTURAL TUBING (HSS SHAPES) SHALL CONFORM TO ASTM A-500, GRADE B (OR C), F_y = 46 KSI (MIN).
- IF MATERIAL AVAILABILITY IS LIMITED, MEMBER THICKNESS CAN BE INCREASED ABOVE WHAT IS SHOWN IN THESE DRAWINGS (MAXIMUM INCREASE OF 1/8").
- ALL CHANNELS, ANGLES, AND MISC. STEEL SHALL CONFORM TO ASTM A-36, F_y = 36 KSI.
- ALL PLATE STEEL SHALL CONFORM TO ASTM A-572, F_y = 50 KSI.
- ALL COLD FORM STEEL SHALL CONFORM TO ASTM A-653, C_s = TYPE B, F_y = 50 KSI.
- STRUCTURAL STEEL AND DECK SHALL BE IDENTIFIED FOR CONFORMITY PER CBC 2202A.1.
- ALL ROOF DECK SHALL HAVE KYNAR 500 METAL COATING.
- ALL ROOF DECK SHALL CONFORM TO ASTM A-36, F_y = 50 KSI.

STRUCTURAL SEPARATION

ALL DEFLECTIONS SHOWN ALSO INCLUDE THE P-Delta ROTATION PER IRC PC-7		DEFLECTIONS ARE FOR (1) STRUCTURE SOIL CLASS PER TABLE 1806A.2		
MAXIMUM DRIFT	Δ _{max}	Soil Class 5	Soil Class 4	Soil Class 3
SIDE COLUMNS				
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.40	2.55	2.65
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.25	2.35	2.45
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.20	2.25	2.30
MINIMUM SEPARATION (S _u = C _s Δ _{max})	C _s = 1.25			
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	3.00	3.19	3.31
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.81	2.94	3.06
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.75	2.81	2.75
CORNER COLUMNS				
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.30	2.30	2.40
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.30	2.45	2.50
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.40	2.55	2.65
MINIMUM SEPARATION (S _u = C _s Δ _{max})	C _s = 1.25			
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.75	2.88	3.00
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.68	3.06	3.13
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	3.00	3.19	3.31
END COLUMNS				
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	1.80	1.70	1.75
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.00	2.45	2.25
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.00	2.30	2.80
MINIMUM SEPARATION (S _u = C _s Δ _{max})	C _s = 1.25			
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.00	2.13	2.19
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	2.50	3.06	2.81
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	3.13	2.88	3.50

ARCHITECTURAL REQUIREMENTS		
DESCRIPTION	DESIGN VAULES	
TYPE OF CONSTRUCTION	II-B	
OCCUPANCY CLASSIFICATION	A-3	
NUMBER OF STORES	1	
FIRE SPRINKLER SYSTEM	NOT BY CON/WEIGHT NOT INCLUDED IN DESIGN	

RELATED BUILDING CODES AND STANDARDS

- TITLE 24 CODES:
- 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC).....(PART 1, TITLE 24, CCR)
 - 2019 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1, AND 2.(PART 2, TITLE 24, CCR)
 - 2019 CALIFORNIA ELECTRICAL CODE.....(PART 3, TITLE 24, CCR)
 - 2019 CALIFORNIA MECHANICAL CODE (CMC).....(PART 4, TITLE 24, CCR)
 - 2019 CALIFORNIA PLUMBING CODE (CPC).....(PART 5, TITLE 24, CCR)
 - 2019 CALIFORNIA ENERGY CODE.....(PART 6, TITLE 24, CCR)
 - 2019 CALIFORNIA FIRE CODE (CFC).....(PART 9, TITLE 24, CCR)
 - 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE.....(PART 11, TITLE 24, CCR)
 - 2019 CALIFORNIA REFERENCE STANDARDS CODE.....(PART 12, TITLE 24, CCR)

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:
 2019 CBC, CHAPTER 35
 2019 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 HOLLOW STRUCTURAL STEEL MEMBERS SUPPORTED BY CONCRETE FOUNDATIONS. THE FLEXIBILITY INCLUDED HEREIN ALLOWS THE STRUCTURE TO COMPLY WITH A WIDE VARIETY OF PROJECT SITES AND LOADING REQUIREMENTS.

NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEERING RESPONSIBILITY

- PER TITLE 24, PART 1, SECTION 4-316(e) OF THE CALIFORNIA CODE OF REGULATIONS, THIS NOTICE SHALL BE GIVEN TO DSA PRIOR TO THE APPROVAL OF PLANS AND SPECIFICATIONS.
- FOR THE SITE SPECIFIC PROJECT, J. R. MILLER & ASSOCIATES IS NOT THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE.
- FOR THE SITE SPECIFIC PROJECT, J. R. MILLER & ASSOCIATES' RESPONSIBILITY IS LIMITED TO THE PREPARATION OF THE PLANS AND SPECIFICATIONS FOR THE SHELTERS OF THIS PC ONLY.
- STRUCTURAL OBSERVATION OF CONSTRUCTION IS SPECIFICALLY EXCLUDED FROM J.R. MILLER & ASSOCIATES' RESPONSIBILITY FOR THE SITE SPECIFIC PROJECT.
- ALL CONSTRUCTION ACTIVITIES RELATED TO STRUCTURAL ENGINEERING SHALL 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 OBSERVATION OF CONSTRUCTION, REVIEW OF INSPECTION REPORTS, AND SIGNING OFF OF THE VERIFIED REPORT FOR COMPLETED WORK.
- J.R. MILLER & ASSOCIATES WILL BE RESPONSIBLE FOR RESPONDING TO QUESTIONS PERTAINING TO THE PLANS AND SPECIFICATIONS FOR THE SHELTERS OF THIS PC WHICH ARISE DURING PLAN REVIEW AND CONSTRUCTION.

WELDING:

- 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 AS REQUIRED BY DSA.
- 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 @ (0° F).
- ALL WELDING SHALL BE DONE IN THE SHOP WITH REQUIRED INSPECTION, PRE-APPROVED BY DSA, TO ENSURE WELDER MATERIAL ID AND WELDING.
- WELD FILLER METAL MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION OF COMPLIANCE WITH CODE AND SPECIFICATIONS.

BOLTING:

- ALL BOLTS SHOWN ON THESE DRAWINGS ARE ASTM F3125 GRADE A325 HIGH STRENGTH BOLTS (UNO), WITH THE NUTS CONFORMING TO ASTM A-563.
- HIGH STRENGTH BOLTS SHALL BE VERIFIED AND INSPECTED PER CBC 1705A2.1.
- BEFORE ERCTING 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.
- HARDENED STEEL WASHERS SHALL CONFORM TO ASTM F-436.
- 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 ERCTING 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.

- APRENTENSIONED JOINTS MUST BE INSTALLED AND INSPECTED TO MEET ONE OF THE FOLLOWING REQUIREMENTS:
- TURN-OFF-NUT PRETENSIONING
 - CALIBRATED WRENCH PRETENSIONING
 - DIRECT-TENSION-INDICATOR PRETENSIONING (CONTRACTOR RESPONSIBLE FOR PURCHASE OF REQUIRED WASHERS)

FOUNDATIONS:

- ALLOWABLE SOIL PRESSURES ASSUME CLASS 5 SOIL CLASSIFICATION PER CBC TABLE 1806A, UNLESS NOTED OTHERWISE.
- PER CBC SECTION 1803A.2, GEOTECHNICAL REPORTS ARE NOT REQUIRED FOR ONE-STORY LIGHT-STEEL FRAME BUILDINGS OF TYPE II CONSTRUCTION AND 4,000 SQUARE FOOT OR LESS IN FLOOR AREA AND NOT LOCATED WITHIN EARTHQUAKE FAULT ZONATOR SEISMIC HAZARD ZONES AS SHOWN ON THE MOST RECENT MAPS PUBLISHED BY THE CGS. ALLOWABLE FOUNDATION AND LATERAL SOIL PRESSURE VALUES MAY BE DETERMINED FROM TABLE 1806A.2.
- FILL AND BACKFILL SHALL BE COMPACTED TO 95% OF MAX. DENSITY IN ACCORDANCE WITH ASTM TEST METHOD D-1557 OR AS RECOMMENDED BY THE GEO-TECH ENGINEER. FLOODING NOT PERMITTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, ETC. NECESSARY TO SUPPORT CUT AND/OR FILL BANKS DURING EXCAVATION, AND FORMING AND PLACEMENT OF CONCRETE.
- MINIMUM SETBACK FROM TOE OF SLOPE ON AN ASCENDING SLOPE SHALL BE 15 FEET AND MINIMUM SETBACK FROM TOE OF SLOPE ON A DESCENDING SLOPE SHALL BE 40 FEET.
- PER CBC SECTION 1803A.6, GEHAZARD REPORTS ARE NOT REQUIRED FOR ONE-STORY LIGHT-STEEL FRAME BUILDINGS OF TYPE II CONSTRUCTION AND 4,000 SQUARE FOOT OR LESS IN FLOOR AREA AND NOT LOCATED WITHIN EARTHQUAKE FAULT ZONATOR SEISMIC HAZARD ZONES AS SHOWN ON THE MOST RECENT MAPS PUBLISHED BY THE CGS.
- GEHAZARD REPORTS ARE TO COMPLY WITH DSA IR A-4 PER IR-7 SECTION 1.8
- SITE SPECIFIC GEOTECHNICAL REPORT IS REQUIRED AT THE TIME OF SITE APPLICATION IS USING OTHER THAN CLASS 5 SOIL, PER DSA IR PC-7
- LATERAL BEARING HAS BEEN INCREASED PER CBC 1806A.3.4 & HAS BEEN DESIGNED FOR P-DELTA EFFECTS

CONCRETE:

- MIX DESIGN REQUIREMENTS: (NORMAL WEIGHT CONCRETE)
- CONCRETE MIX DESIGN PARAMETERS ARE GOOD FOR EXPOSURE CATEGORIES F0, F1 & F2. THE AIR ENTRAINMENT FOR THESE CATEGORIES SHALL BE AS FOLLOWS: F0-0, F1-4.5, F2-6
- AGGREGATES SHALL CONFORM TO THE ASTM C-33 WITH PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN 0.05% MAX AGGREGATE SIZE = 1".
- CEMENT SHALL CONFORM TO ASTM C-150 (TYPE V) UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- 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.
- CONCRETE SHALL NOT FREE FALL MORE THAN FIVE FEET.
- CONCRETE DURABILITY SHALL BE PER CBC 190A.1 & ACI 318-14 CHAPTER 19.
- CONCRETE SHALL BE TESTED PER CBC 1903A, TABLE 1705A.3. AND ACI 318-14 SECTION 26.12.

STRENGTH F _c (28 DAYS)	W/C RATIO (NON-AIR ENTRAINED)	W/C RATIO (AIR ENTRAINED)	SUMP (1")	UNIT WEIGHT (NORMAL WEIGHT)
4500 PSI	0.44	0.35	3"	150 PCF

STEP 10: IDENTIFY PROJECT NAME AND SCHOOL DISTRICT

PROJECT NAME: _____ SCHOOL DISTRICT: _____

STEP 1	FRAME DIMENSIONS	
	SUGGESTED	OTHER
FRAME WIDTH	[] 20' [X] 30' [] 40'	[] (40' MAX)
FRAME LENGTH	[] 44' [X] 64' [] 84' [] 104'	[] (NO MAX)

STEP 2	ROOF PANEL	
	ROOF PANEL TYPE	DESIGN OPTIONS
	[X] M [] G [] S	

STEP 3	PROJECT SITE - S _s ACCELERATION (g)	
	S _s REGION	MAX DEAD LOAD
	X	0 < S _s <= 2.14
		2.14 < S _s <= 2.50
		2.50 < S _s <= 2.75
		2.75 < S _s <= 3.00
		S _s > 3.73 MAX

STEP 4	S _s REGION	
	DESCRIPTION	EXAMPLES
		DEAD LOAD
		ROOF DECK
		COLLATERAL
		TOTAL

STEP 5	TOTAL ROOF DEAD LOAD	
	DEAD LOAD	EXAMPLES
	1.1 PSF	M=1.1PSF, G=1.2PSF, S=1.3PSF (SEE STEP 2)
	0 PSF	LIGHTING, ETC
	1.1 PSF	ADD ROOF DECK AND COLLATERAL LOADS (MAX 5 PSF)

CONSTRUCTION NOTES

- A DSA-CERTIFIED CLASS 3 PROJECT INSPECTOR IS REQUIRED FOR THIS PROJECT.
- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
- A "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.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS ARE THAT ALL THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR, SHOULD ANY EXISTING CONDITIONS SUCH AS VIBRATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE 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)
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES

REINFORCING STEEL:

- REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A-615, AS FOLLOWS:
 GR 60: (#4 BARS AND LARGER)
 GR 40: (#3 BARS)
- DETAILING, FABRICATION, AND ERECTION OF REINFORCING BARS SHALL CONFORM TO THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES."
- MIN. COVER FOR CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:
 A. CAST AGAINST EARTH3"
 B. CAST AGAINST FORM BELOW GRADE2"
 C. FORMED SLABS (#1 BAR & SMALLER).....3/4"
 D. SLABS ON GRADE (FROM TOP OF SLAB).....1"
- BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND. BENDS SHALL BE MADE COLD.
- REINFORCING SHALL BE LAP SPICED PER ACI 318-14 SECTION 25.5.
- PRIOR TO PLACING OF CONCRETE, REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE WELL SECURED IN POSITION.
- WELDING OF REINFORCING IS NOT ALLOWED.
- REINFORCING STEEL SHALL BE INSPECTED PER CBC 1705A.3.

POWDER-COAT FINISH SYSTEM:

- ALL BUILDINGS THAT HAVE A POWDER-COATED FINISH SHALL MEET THE FOLLOWING SPECIFICATIONS:
- THE STEEL FRAME SHALL BE SHOT-BLASTED TO A NEAR WHITE CONDITION PER SSPC-10 SPECIFICATIONS.
 - THE STEEL SHALL BE WASHED IN A ZINC PHOSPHATE IN AN ANTIMINE EIGHT STAGE ELECTRO DEPOSITION PRE-TREATMENT PROCESS.
 - IMMEDIATELY FOLLOWING PRE-TREATMENT THE STEEL SHALL BE TOTALLY IMMERSED IN A LIQUID EPOXY PRIMER-E-COAT AND COATED TO A UNIFORM THICKNESS OF A MINIMUM OF 0.7 TO 0.9 MILS. THE E-COATING SHALL PROVIDE A MINIMUM OF 1000 HOURS OF SALT SPRAY CORROSION PROTECTION TO THE STEEL.
 - THE STEEL SHALL THEN HAVE A TIGC POLYESTER COLOR COAT APPLIED OVER THE E-COATING SURFACE.
 - THE COLOR COAT SHALL THEN HAVE A CLEAR TIGC COATING APPLIED TO SEAL IN THE COLOR COAT AND RESIST ULTRAVIOLET LIGHT, TO HELP PREVENT FADING.
 - THE FINISH THICKNESS OF THESE THREE APPLICATIONS SHALL BE A MINIMUM OF 8 TO 12 MILS.
 - ALL CARBON STEEL MEMBERS (COLUMNS, BEAMS, PLATES, ETC.) NOT POWDER-COATED SHALL BE PAINTED WITH PRIME COAT PER THE "AISC CODE OF STANDARD PRACTICE" AND THE "AISC SPECIFICATION SECTION M3(UNLESS NOTED OTHERWISE).

ABBREVIATIONS:			
ACI	AMERICAN CONCRETE INSTITUTE	MPH	MILES PER HOUR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	M	MULTI-RIB ROOF PANEL (MCELROY)
ASM	ASSEMBLY (INTERNAL REFERENCE)	NTS	NOT TO SCALE
ASTM	AMERICAN SOCIETY FOR TESTING AND MAT'LS	NO	NUMBER
AWS	AMERICAN WELDING SOCIETY	OC	ON CENTER
CBC	CALIFORNIA BUILDING CODE	OSHA	OCCUPATIONAL HEALTH AND SAFETY ADMIN
C/P	COMPLETE JOINT PENETRATION	PCF	POUNDS PER CUBIC FOOT
CLR	CLEAR	PJ	PRETENSIONED JOINT
DEG	DEGREE	PLCS	PLACES
DIA	DIAMETER	PLT	PLATE
DM	DIMENSION	PSF	POUNDS PER SQUARE FOOT
DSA	DIVISON 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	TYP

2019 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.

**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
CE - Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

7. CAST-IN-PLACE CONCRETE
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Verify use of required design mix.
b. Identify, sample, and test reinforcing steel.
c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.
d. Test concrete (f'c).

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

23. ANCHOR BOLTS AND ANCHOR RODS:
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Anchor Bolts and Anchor Rods
b. Threaded rod not used for foundation anchorage.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

Geotechnical Reports: Project has a geotechnical report, or CDs indicate soils special inspection is required by CE

1. GENERAL: Table 1705A.6
Test or Special Inspection
Type
Performed By
Code References and Notes
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.

2. SOIL COMPACTION AND FILL: Table 1705A.6
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Perform classification and testing of fill materials.
b. Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

17. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSE
Material Verification and Testing:
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Verify identification of all materials and fill certificates indicate material properties that comply with requirements.
b. Test unidentified materials.
c. Examine seam welds of HSS shapes.
Inspection:
d. Verify and document steel fabrication per DSA-approved construction documents.

18. HIGH-STRENGTH BOLTS: RCSC 2
Material Verification and Testing of High-Strength Bolts, Nuts and Washers:
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Verify identification markings and manufacturer's certificate of compliance conform to ASTM standards specified in the DSA-approved documents.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SIGNATURE), 2019 CBC

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 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

c. Compaction testing.
Test
LOR
* Under the supervision of the geotechnical engineer. (Refer to specific items identified in the Appendix for exemptions where soils testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR Form DSA 291 shall satisfy the soil test reporting requirements for the exempt items.)

4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS): Table 1705A.8
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Inspect drilling operations and maintain complete and accurate records for each pier.
b. Verify pier locations, diameters, plumbness, bell diameters (if applicable), lengths and embedment into bedrock (if applicable), record concrete or grout volumes.
c. Confirm adequate end strat bearing capacity.
d. Concrete piers.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

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.
Inspection of High-Strength Bolt Installation:
c. Bearing-type ("snug tight") connections.
d. Pretensioned and slip-critical connections.

19. WELDI
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 (See Appendix for exemptions).

Verification of Materials, Equipment, Welders, etc.:
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.
b. Verify weld filler material manufacturer's certificate of compliance.
c. Verify WPS, welder qualifications and equipment.

DSA 103-19: LIST OF REQUIRED VERIFIED REPORTS, CBC 2019

- 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

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

5. RETAINING WALLS:
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Placement, compaction and inspection of backfill.
b. Placement of soil reinforcement and/or drainage devices.
c. Segmental retaining walls, inspect placement of units, dowels, connectors, etc.
d. Concrete retaining walls.
e. Masonry retaining walls.

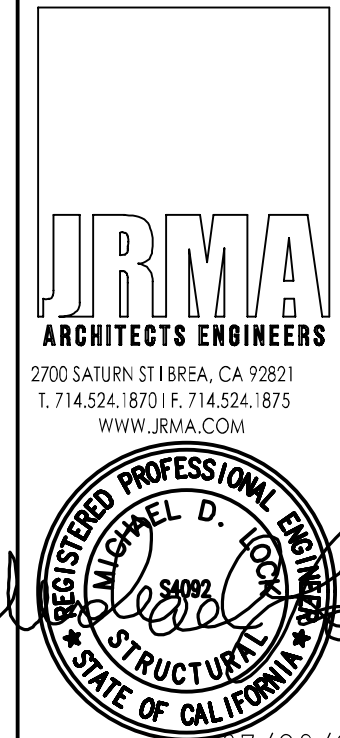
6. OTHER SOIL
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Soil Improvements
b. Inspection of Soil Improvements
c.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

19.1 SHOP WELDING:
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.
b. Inspect single-pass fillet welds < 5/16", floor and roof deck welds.
c. Inspect welding of stairs and railing systems.
d. Verification of reinforcing steel weldability other than ASTM A706.
e. Inspect welding of reinforcing steel.

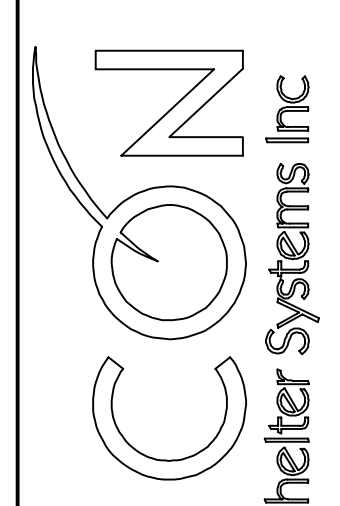
23. ANCHOR BOLTS AND ANCHOR RODS:
Test or Special Inspection
Type
Performed By
Code References and Notes
a. Anchor Bolts and Anchor Rods
b. Threaded rod not used for foundation anchorage.

ICON STD RH/DSA-PC
DRAWN BY ANGEL
DATE 4/2/2021
REV
REV DATE



APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-120013 PC
REVIEWED FOR
SS [x] FLS [x] ACS [x] CG [x]
DATE: 08/06/2021

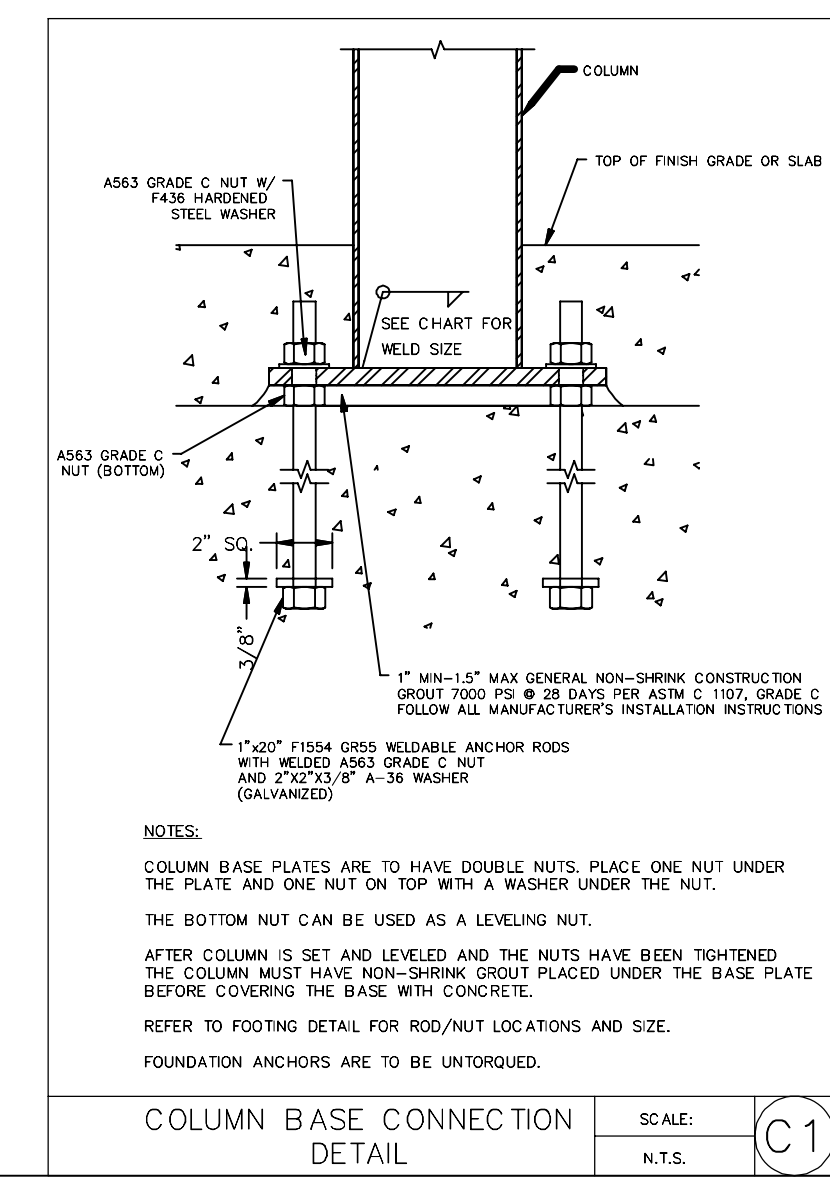
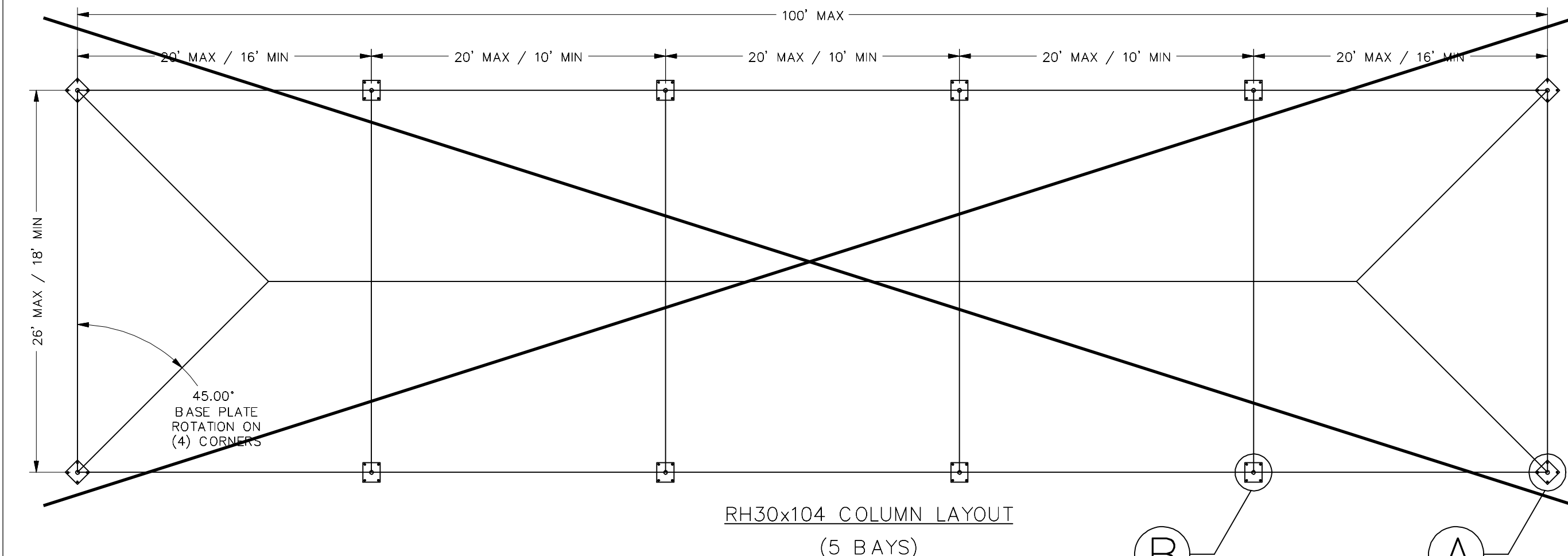
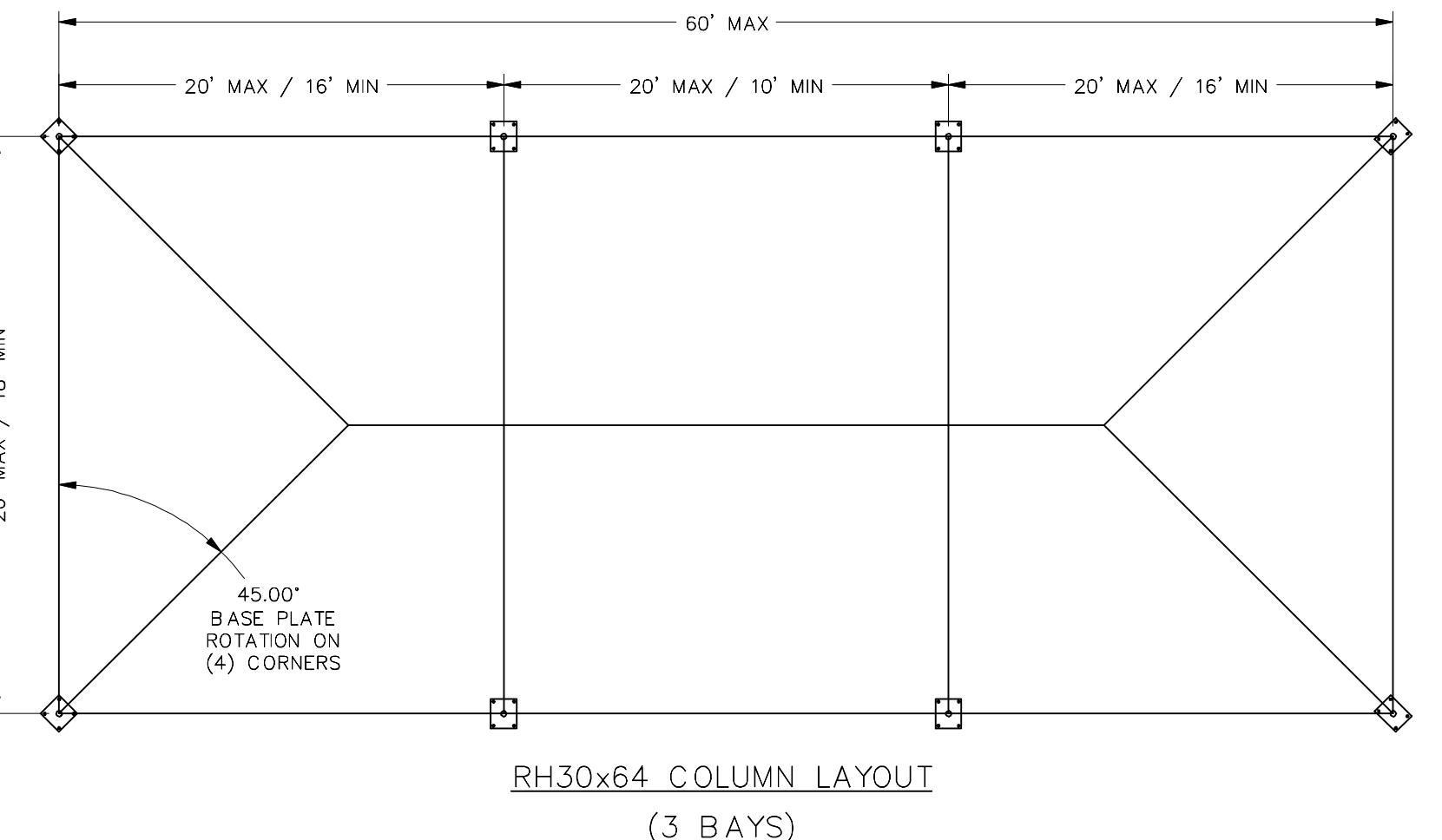
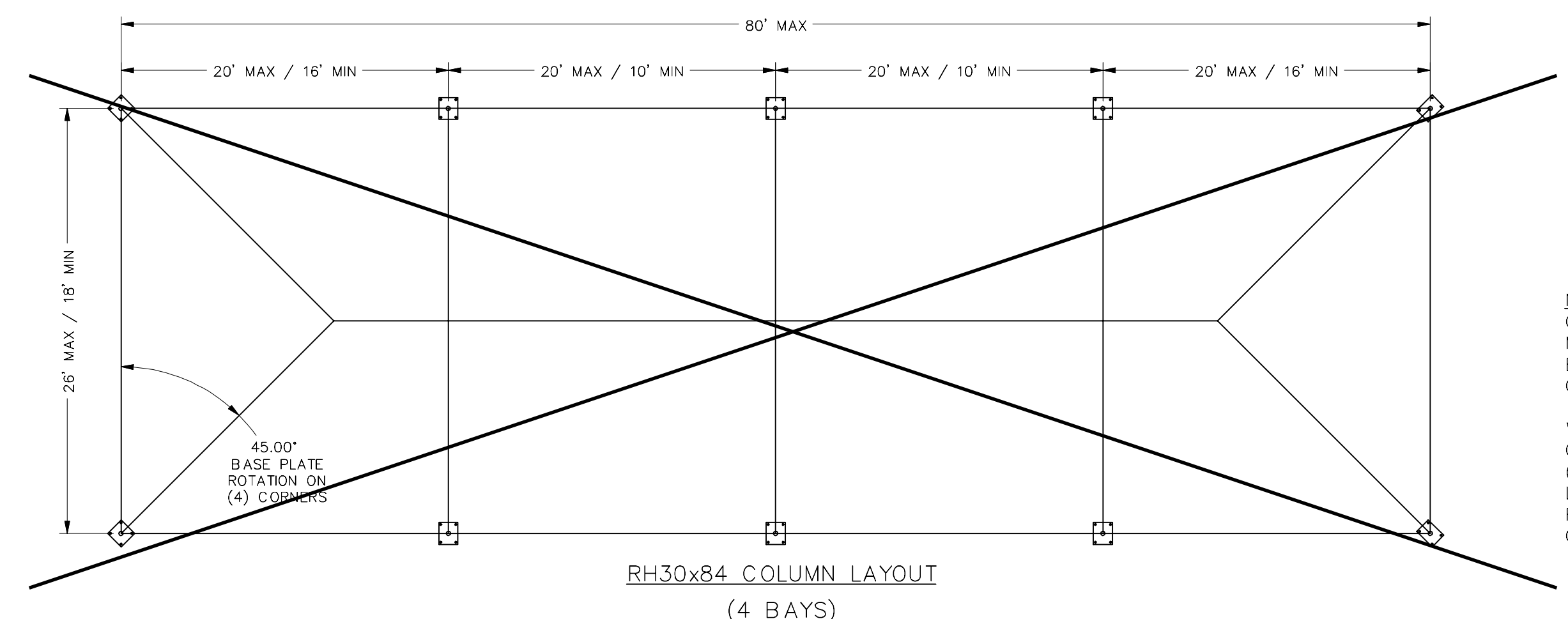
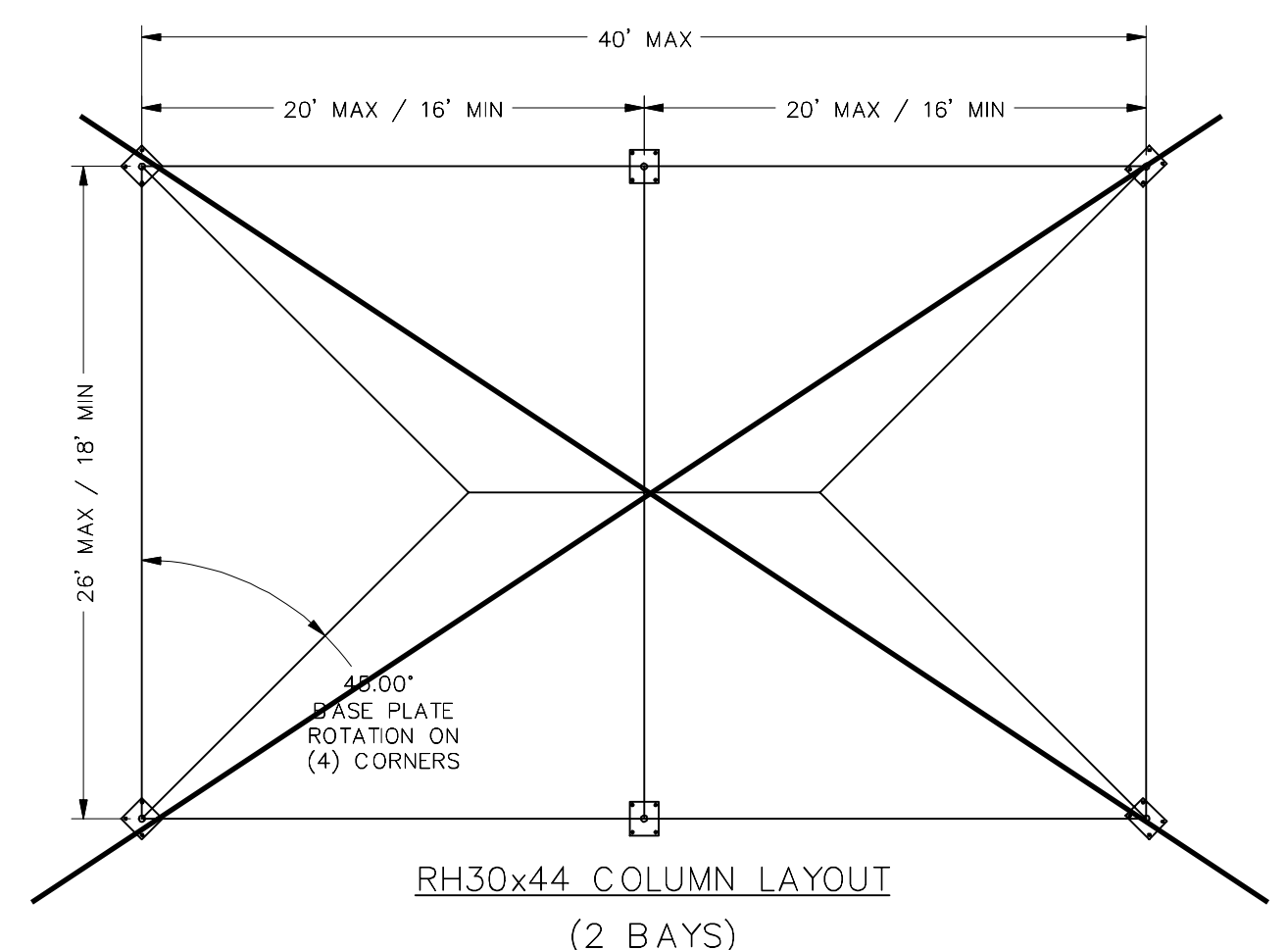
DSA 103



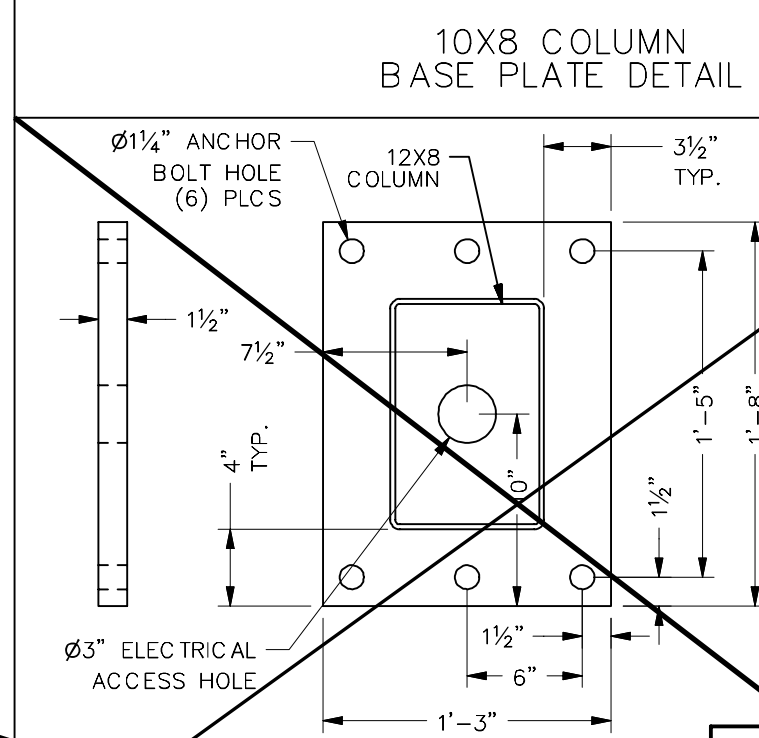
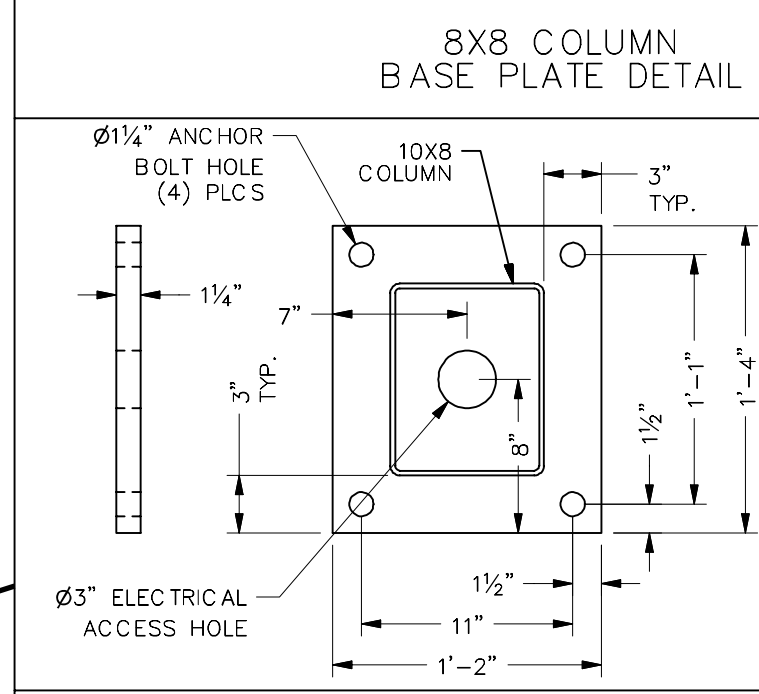
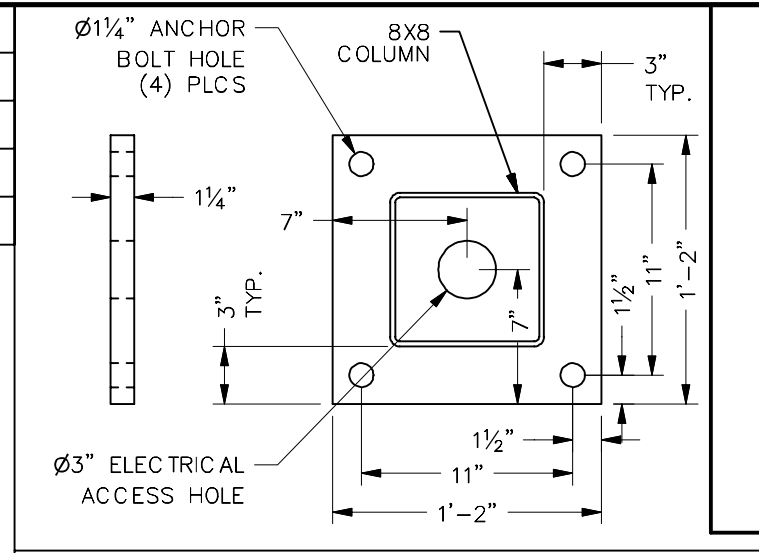
1455 LINCOLN AVE
HOLLAND MI, 49423
616.396.0919
800.748.0985
616.396.0944 FX

LS1.1

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.



BASE PLATE LOCATION	
DETAIL A	DETAIL B
8'	BP1
10'	BP1
12'	BP2



NOTES:
 COLUMN SIZE AND LOCATION WILL VARY DEPENDING ON MODEL TYPE ORDERED, PLEASE REFER TO JOB SPECIFIC BILL OF MATERIALS AND INSTALLATION MANUAL FOR CORRECT PLACEMENT AND SIZE.
 WHERE CONCRETE SLAB SPECIFIED PORTLAND CEMENT CONCRETE PAVING SHALL HAVE A MEDIUM SALTED (MEDIUM BROOM) FINISH ON ALL SURFACES SLOPED LESS THAN 6% AND SLIP RESISTANT (HEAVY BROOM FINISH) ON ALL SURFACES SLOPED GREATER THAN 6% CBC SECTION 1133B.7.1

ICON STD RH/DSA-PC
 DRAWN BY ANGEL
 DATE 4/2/2021
 REV
 REV DATE

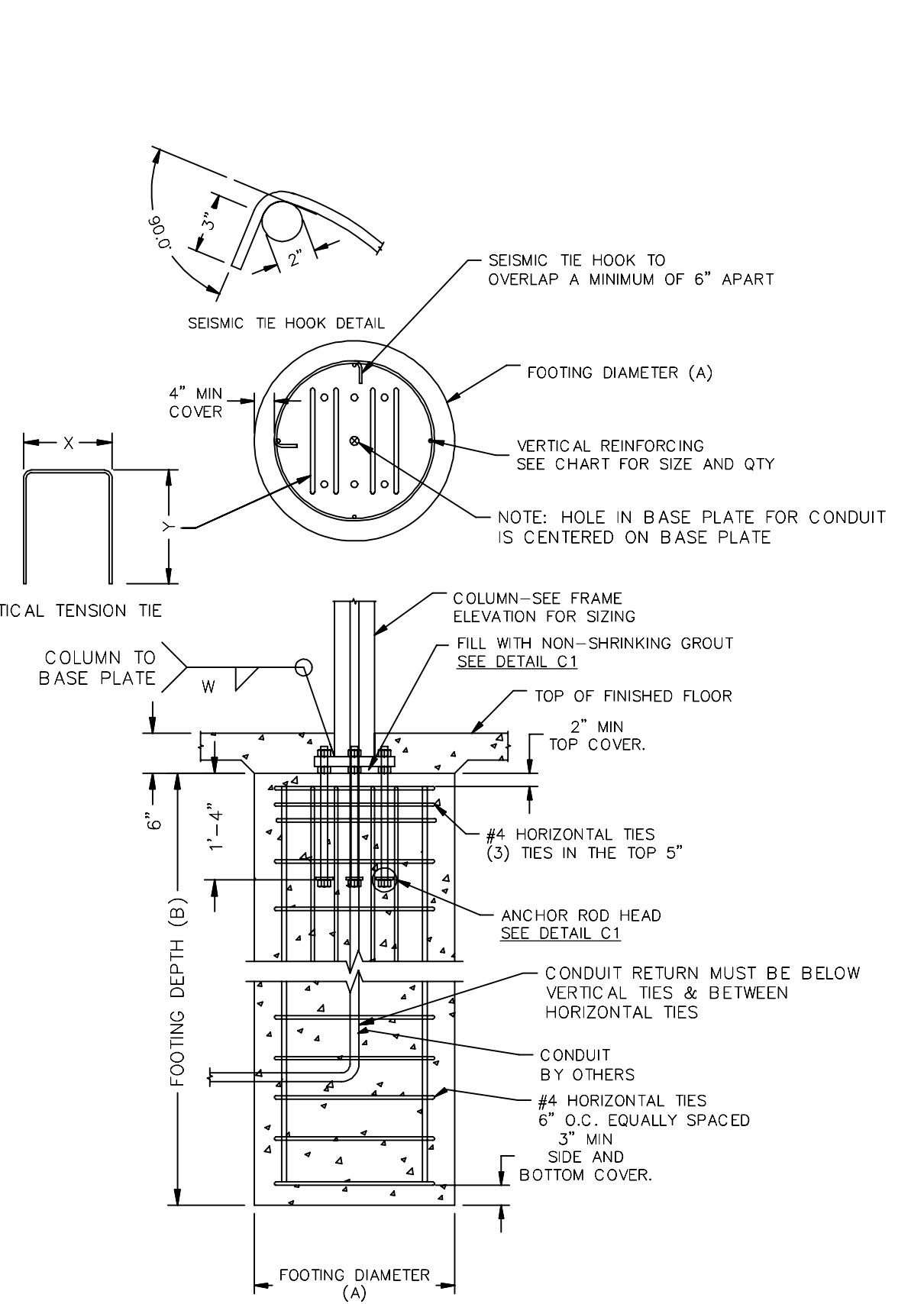
JRMA
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REGISTERED PROFESSIONAL ENGINEER
 ANGELO D. FORNARI
 STATE OF CALIFORNIA
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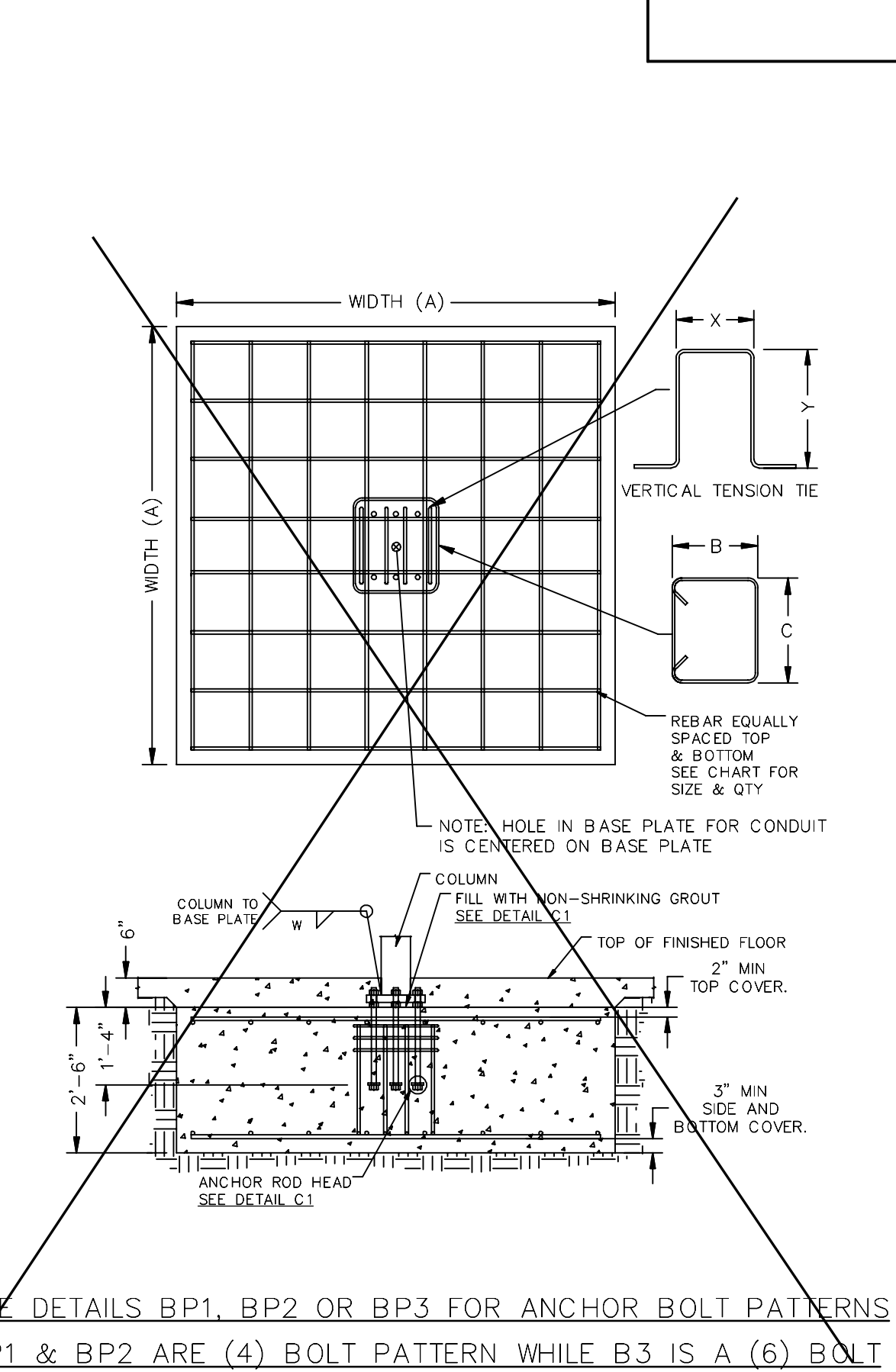
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 APP-04-120013 PC
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 SS FLS ACS CG
 DATE: 08/06/2021

30' WIDE RECTANGULAR HIP

RH30 - PIER				
8' height - Corner Columns				
Soil Class	Vertical Rebar Qty	Vertical Rebar Size	Rebar Size	Weld
Soil Class 5 - 1500 psf Bearing	24	114	6	1/4
Soil Class 4 - 2000 psf Bearing	24	98	6	1/4
Soil Class 3 - 3000 psf Bearing	24	92	6	1/4
8' height - Side Columns				
Soil Class 5 - 1500 psf Bearing	36	144	12	1/4
Soil Class 4 - 2000 psf Bearing	30	132	8	1/4
Soil Class 3 - 3000 psf Bearing	30	118	8	1/4
10' height - Corner Columns				
Soil Class 5 - 1500 psf Bearing	24	120	6	1/4
Soil Class 4 - 2000 psf Bearing	24	102	6	1/4
Soil Class 3 - 3000 psf Bearing	24	92	6	1/4
10' height - Side Columns				
Soil Class 5 - 1500 psf Bearing	36	136	12	1/4
Soil Class 4 - 2000 psf Bearing	30	124	8	1/4
Soil Class 3 - 3000 psf Bearing	30	112	8	1/4
12' height - Corner Columns				
Soil Class 5 - 1500 psf Bearing	30	132	8	1/4
Soil Class 4 - 2000 psf Bearing	30	112	8	1/4
Soil Class 3 - 3000 psf Bearing	30	102	8	1/4
12' height - Side Columns				
Soil Class 5 - 1500 psf Bearing	36	140	12	1/4
Soil Class 4 - 2000 psf Bearing	36	120	12	1/4
Soil Class 3 - 3000 psf Bearing	36	108	12	1/4



RH30 - SPREAD				
8' height - Corner Columns				
Soil Class	Vertical Rebar Qty	Vertical Rebar Size	Rebar Size	Weld
Soil Class 5 - 1500 psf Bearing	60	30	4	1/4
Soil Class 4 - 2000 psf Bearing	56	30	4	1/4
Soil Class 3 - 3000 psf Bearing	54	30	4	1/4
8' height - Side Columns				
Soil Class 5 - 1500 psf Bearing	80	30	5	1/4
Soil Class 4 - 2000 psf Bearing	72	30	5	1/4
Soil Class 3 - 3000 psf Bearing	68	30	5	1/4
10' height - Corner Columns				
Soil Class 5 - 1500 psf Bearing	66	30	5	1/4
Soil Class 4 - 2000 psf Bearing	60	30	4	1/4
Soil Class 3 - 3000 psf Bearing	57	30	4	1/4
10' height - Side Columns				
Soil Class 5 - 1500 psf Bearing	81	30	5	1/4
Soil Class 4 - 2000 psf Bearing	72	30	5	1/4
Soil Class 3 - 3000 psf Bearing	69	30	5	1/4
12' height - Corner Columns				
Soil Class 5 - 1500 psf Bearing	78	30	5	1/4
Soil Class 4 - 2000 psf Bearing	72	30	5	1/4
Soil Class 3 - 3000 psf Bearing	72	30	5	1/4
12' height - Side Columns				
Soil Class 5 - 1500 psf Bearing	84	30	6	1/4
Soil Class 4 - 2000 psf Bearing	75	30	5	1/4
Soil Class 3 - 3000 psf Bearing	75	30	5	1/4



SEE DETAILS BP1, BP2 OR BP3 FOR ANCHOR BOLT PATTERNS
 BP1 & BP2 ARE (4) BOLT PATTERN WHILE BP3 IS A (6) BOLT

SEE DETAILS BP1, BP2 OR BP3 FOR ANCHOR BOLT PATTERNS
 BP1 & BP2 ARE (4) BOLT PATTERN WHILE BP3 IS A (6) BOLT

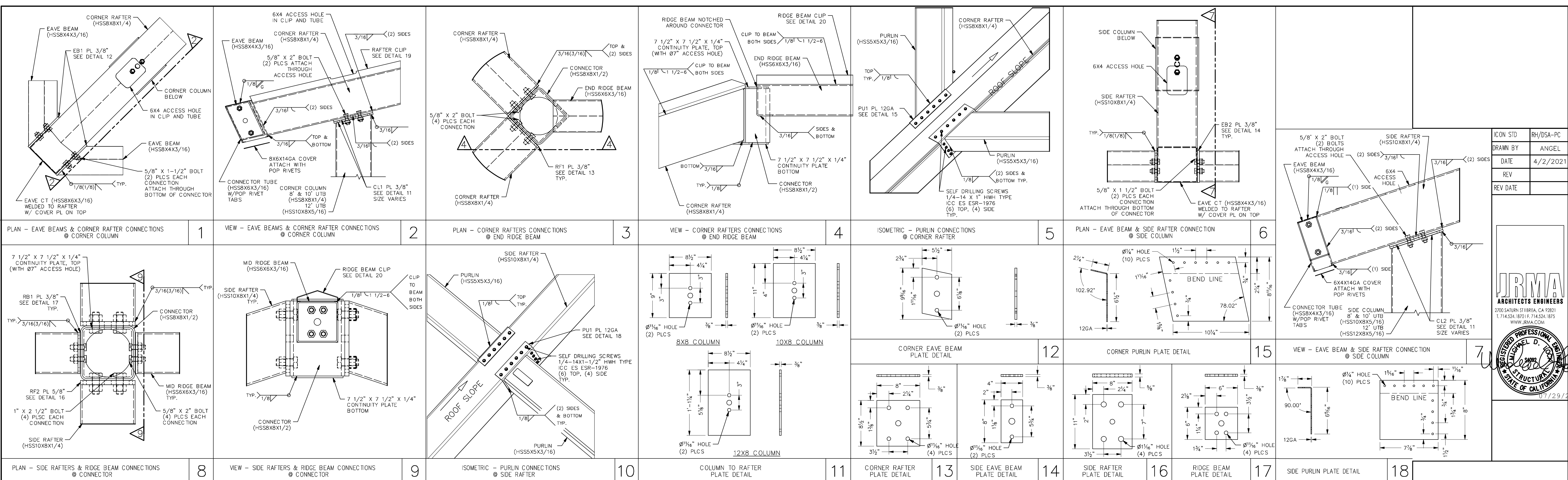
PRE-CHECK (PC) DOCUMENT
 Code: 2019 CBC
 A separate project application for construction is required.

30' WIDE
 RECTANGULAR HIP
 FOUNDATION PLAN

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LS3.0

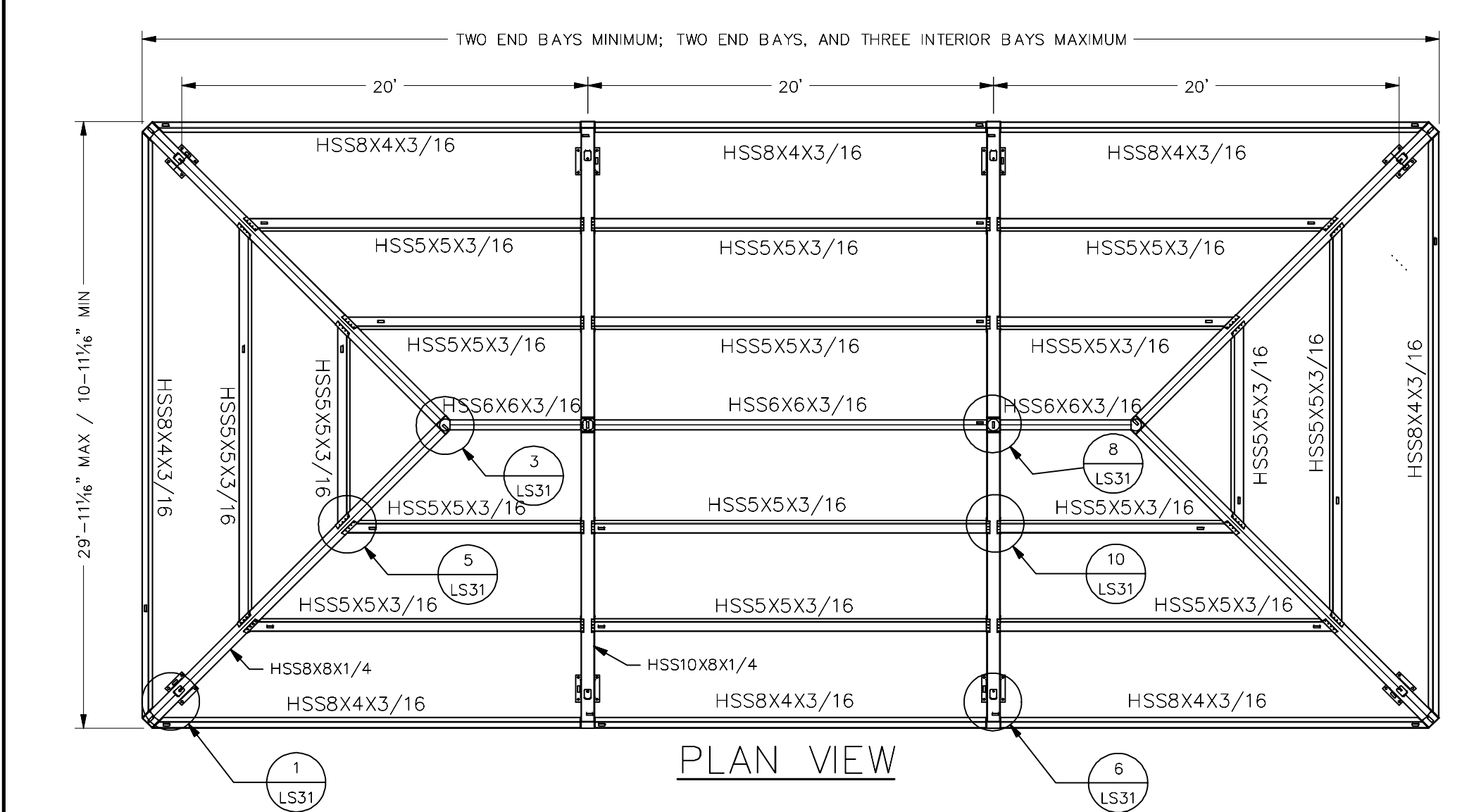
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DRAWN BY	ANGEL
DATE	4/2/2021
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REGISTERED PROFESSIONAL ENGINEER
ANGELO D. JOY
STATE OF CALIFORNIA
7/29/2021



MODEL DESIGNATION

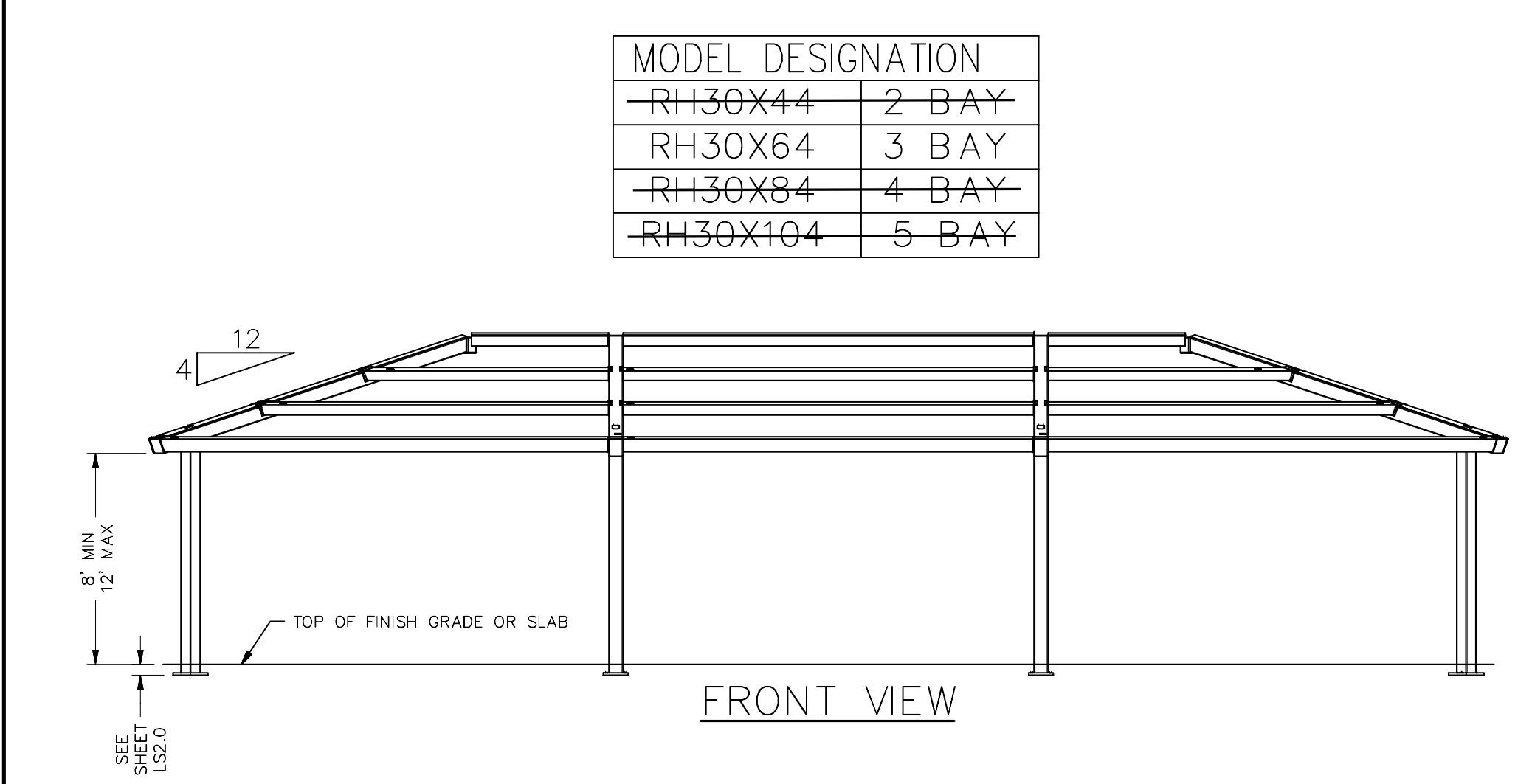
RH30X44	2 BAY
RH30X64	3 BAY
RH30X84	4 BAY
RH30X104	5 BAY

*NOTE: QUANTITIES WILL VARY DEPENDING ON SHELTER SIZE ORDERED, PLEASE REFER TO JOB SPECIFIC BILL OF MATERIALS AND INSTALLATION MANUAL.

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	LENGTH	UNIT WEIGHT
1	4		CORNER COLUMN	**SEE NOTE BELOW		353 lbmass
2	*		SIDE COLUMN	**SEE NOTE BELOW		399 lbmass
3	2		LH SIDE EAVE BEAM	HSS8X4X3/16		311 lbmass
4	2		RH SIDE EAVE BEAM	HSS8X4X3/16		311 lbmass
5	2		END EAVE BEAM	HSS8X4X3/16		422 lbmass
6	*		SIDE EAVE BEAM	HSS8X4X3/16		287 lbmass
7	4		CORNER RAFTER	HSS8X8X1/4		607 lbmass
8	*		SIDE RAFTER	HSS10X8X1/4		474 lbmass
9	2		END RIDGE BEAM	HSS6X6X3/16		149 lbmass
10	*		MID RIDGE BEAM	HSS6X6X3/16		329 lbmass
11	*		CONNECTOR	HSS8X8X1/2		48 lbmass
12	2		LH SIDE PURLIN 1	HSS5X5X3/16		238 lbmass
13	2		RH SIDE PURLIN 1	HSS5X5X3/16		238 lbmass
14	2		END PURLIN 1	HSS5X5X3/16		278 lbmass
15	2		LH SIDE PURLIN 2	HSS5X5X3/16		167 lbmass
16	2		RH SIDE PURLIN 2	HSS5X5X3/16		167 lbmass
17	2		END PURLIN 2	HSS5X5X3/16		137 lbmass
18	*		MID PURLIN	HSS5X5X3/16		284 lbmass

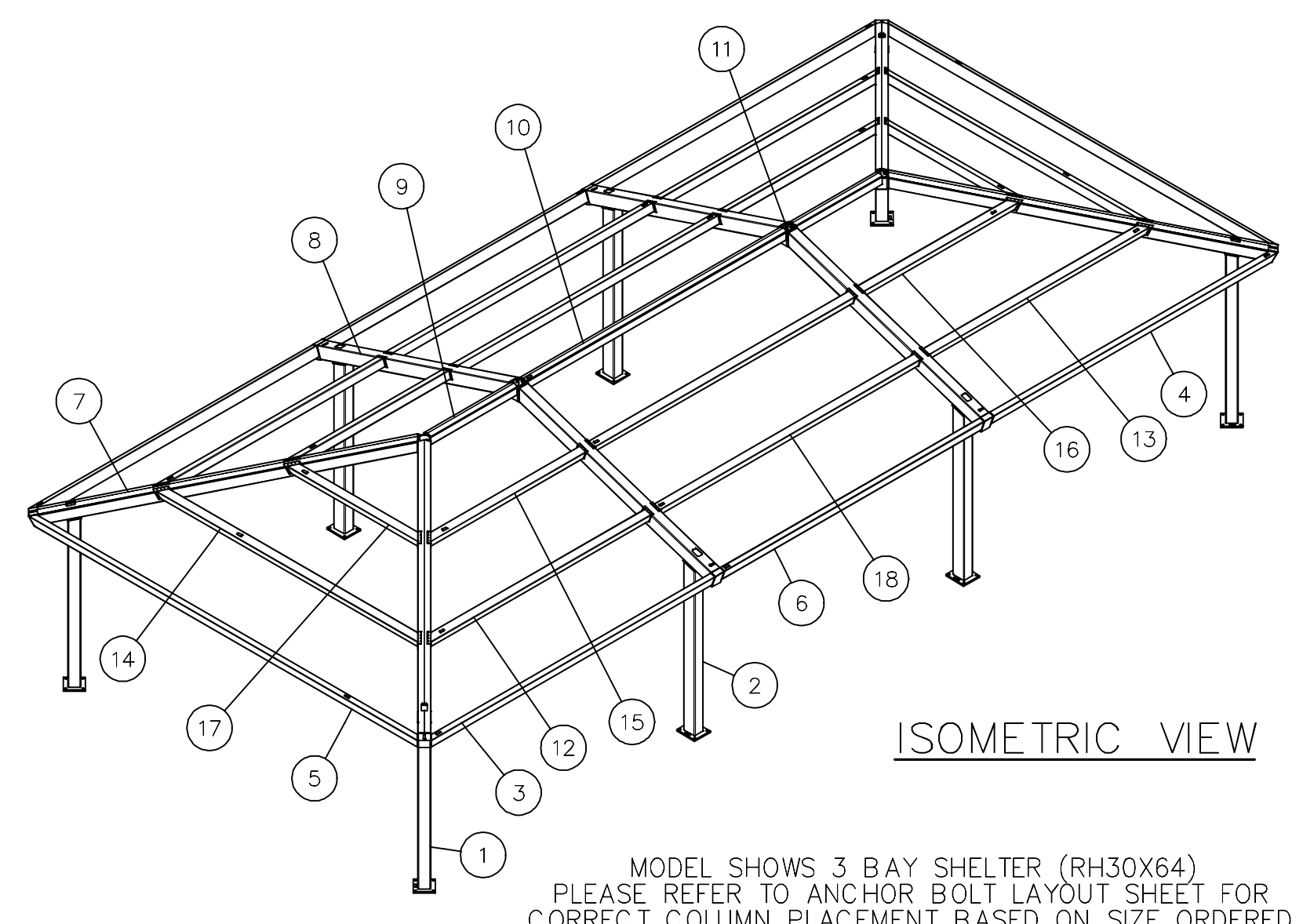
**NOTE: MATERIAL WILL VARY DEPENDING ON SHELTER SIZE ORDERED.

- CORNER COLUMN 8' UTB - (HSS8X8X1/4)
- SIDE COLUMN 8' UTB - (HSS10X8X5/16)
- CORNER COLUMN 10' UTB - (HSS8X8X1/4)
- SIDE COLUMN 10' UTB - (HSS10X8X5/16)
- CORNER COLUMN 12' UTB - (HSS10X8X5/16)
- SIDE COLUMN 12' UTB - (HSS12X8X5/16)



96" MIN IF USED OVER ACCESSIBLE PARKING OR ACCESS AISLES

114" MIN IF LOCATED OVER ACCESSIBLE PASSENGER LOADING ZONES

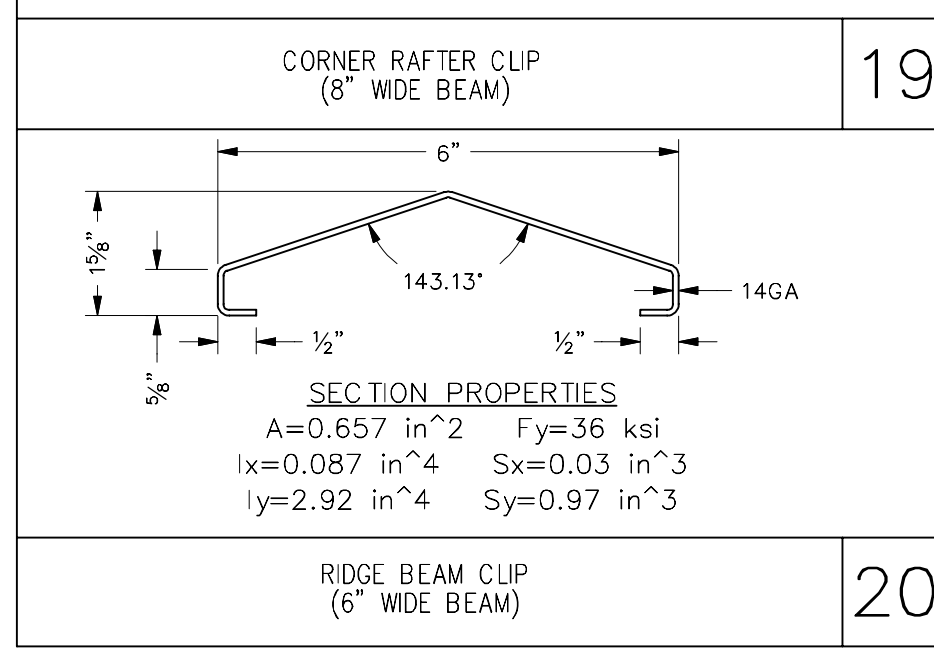


MODEL SHOWS 3 BAY SHELTER (RH30X64)
PLEASE REFER TO ANCHOR BOLT LAYOUT SHEET FOR CORRECT COLUMN PLACEMENT BASED ON SIZE ORDERED

APPROVED
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APP-04-120013 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 08/06/2021

30' WIDE
RECTANGULAR HIP
FRAMING &
CONNECTION DETAILS

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PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

LS3.1

ELECTRICAL INFORMATION - RECTANGULAR HIP

ICON'S STANDARD ELECTRICAL IS DESIGNED TO ACCOMMODATE Ø1/2" CONDUIT WITH A Ø3" INLET HOLE ON THE BOTTOM OF EACH COLUMN. THE CONDUIT PATHWAY RUNS THROUGH THE COLUMN, RAFTER, AND RIDGE BEAM THROUGH ALL BOLTED CONNECTIONS AS SHOWN. IF YOU HAVE SPECIAL ELECTRICAL REQUIREMENTS, PLEASE OUTLINE ANY CHANGES BELOW AS DESCRIBED.

PLEASE NOTE: DESIGN LIMITATIONS ON HOLE/CUTOOUT SIZES MAY APPLY. ICON WILL REACH OUT TO DISCUSS ANY SUCH LIMITATIONS AS NEEDED.

NOTE: ICON SHELTER FRAME IS NOT UL LISTED TO ACT AS A CONDUIT FOR ELECTRICAL WIRING. CONSULT LOCAL BUILDING CODES WHEN PLANNING YOUR ELECTRICAL SYSTEM.

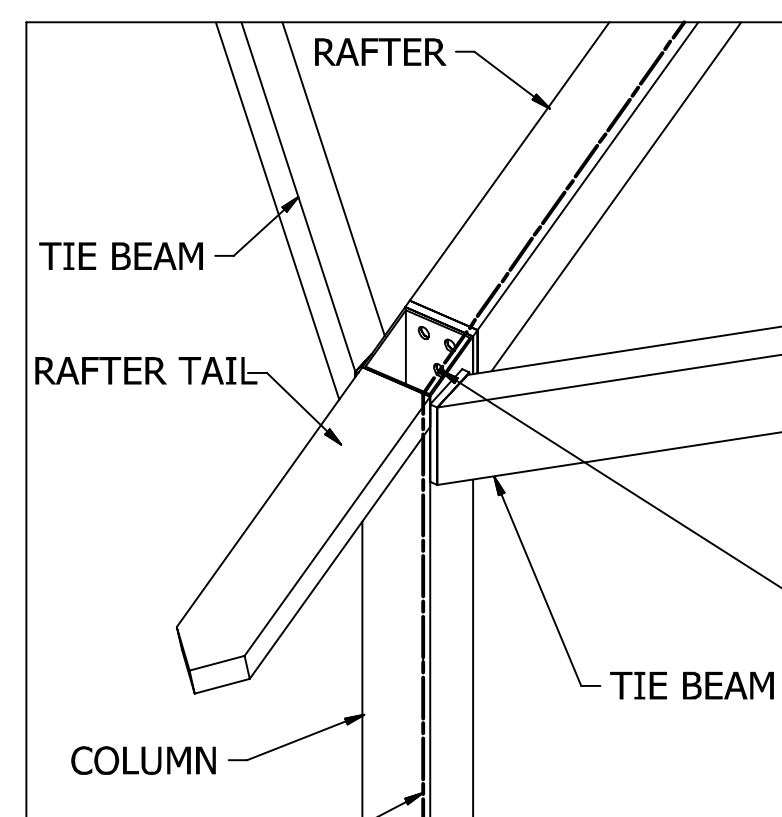
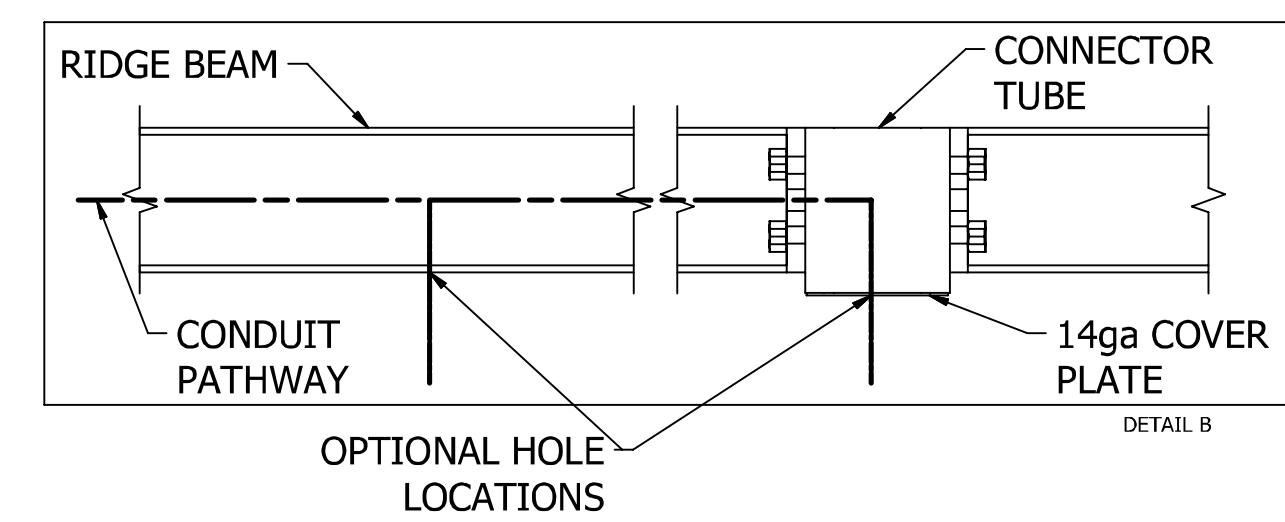
PRELIMINARY: NOT FOR CONSTRUCTION

STEPS:

1. CONDUIT HOLE SIZE (DETAIL A)
2. ELECTRICAL EXIT HOLES (DETAIL B)
3. ELECTRICAL ACCESS & COVER PLATES (DETAIL C)
4. ELECTRICAL CONDUIT PATHWAY (DETAIL D)

OPTIONAL EXIT HOLES

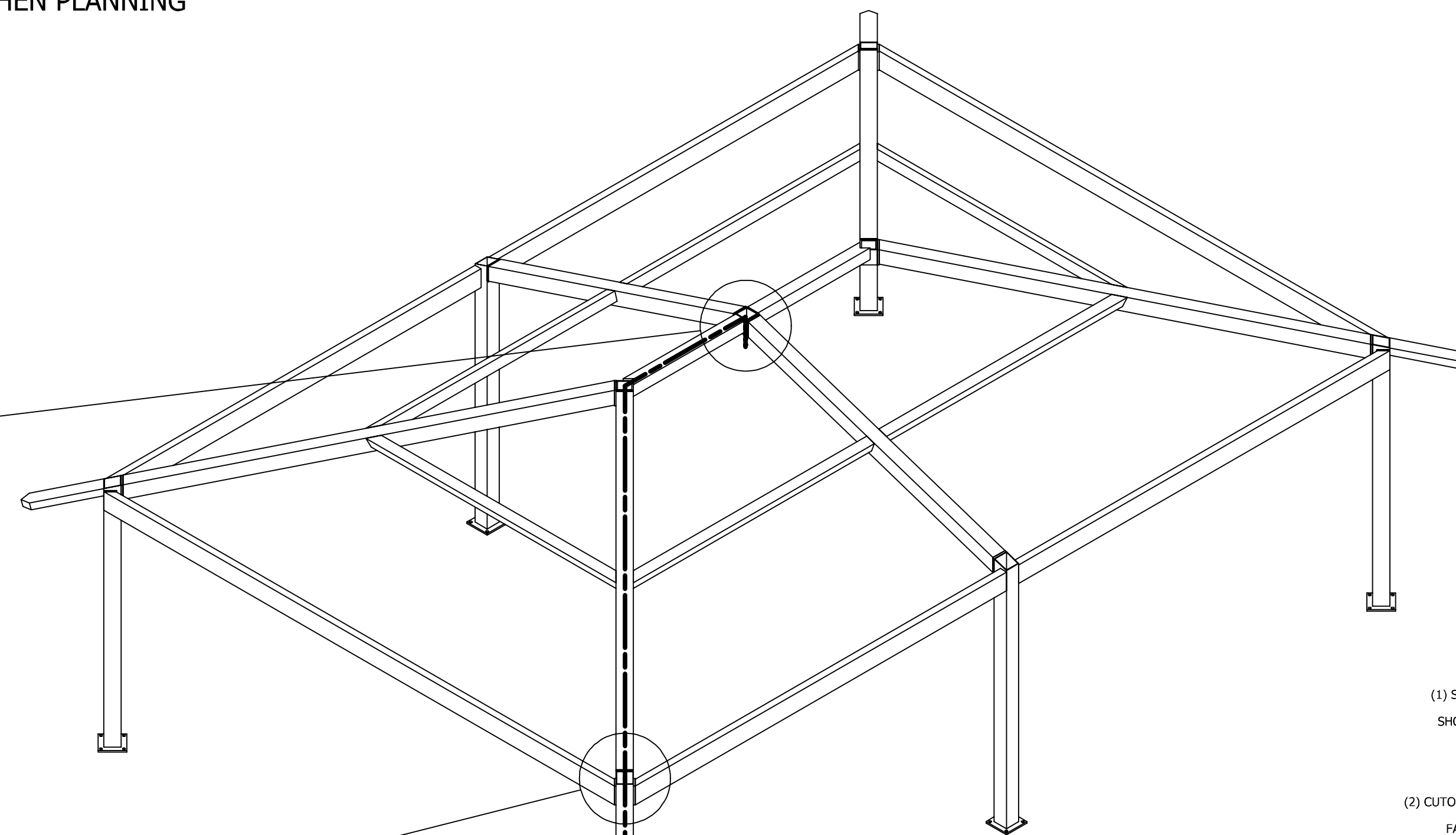
IF REQUIRED, EXIT HOLES FOR LIGHTING, ETC. CAN BE PLACED IN THE RIDGE BEAM AND/OR CONNECTOR TUBE WITH 14ga COVER PLATE AS SHOWN (CHARGES APPLY). USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED EXIT HOLE LOCATIONS AND SIZE.



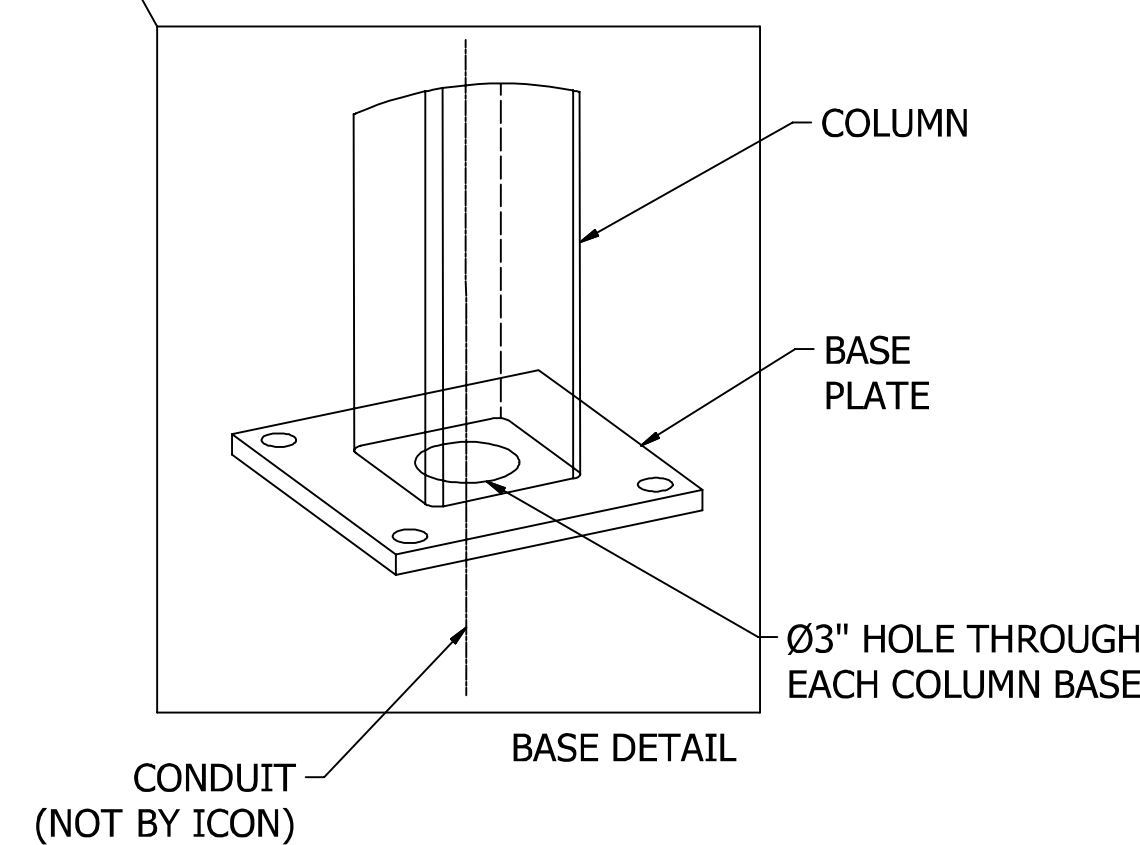
ICON PROVIDES A MINIMUM OF (1) 3/4" HOLE AT EACH CONNECTION FOR 1/2" CONDUIT. IF APPLICABLE, PLEASE SPECIFY REQUIRED CONDUIT SIZE: (CHARGES APPLY)

- 3/4" CONDUIT (1" HOLES)
- 1" CONDUIT (1 1/4" HOLES)
- OTHER (PLEASE SPECIFY)

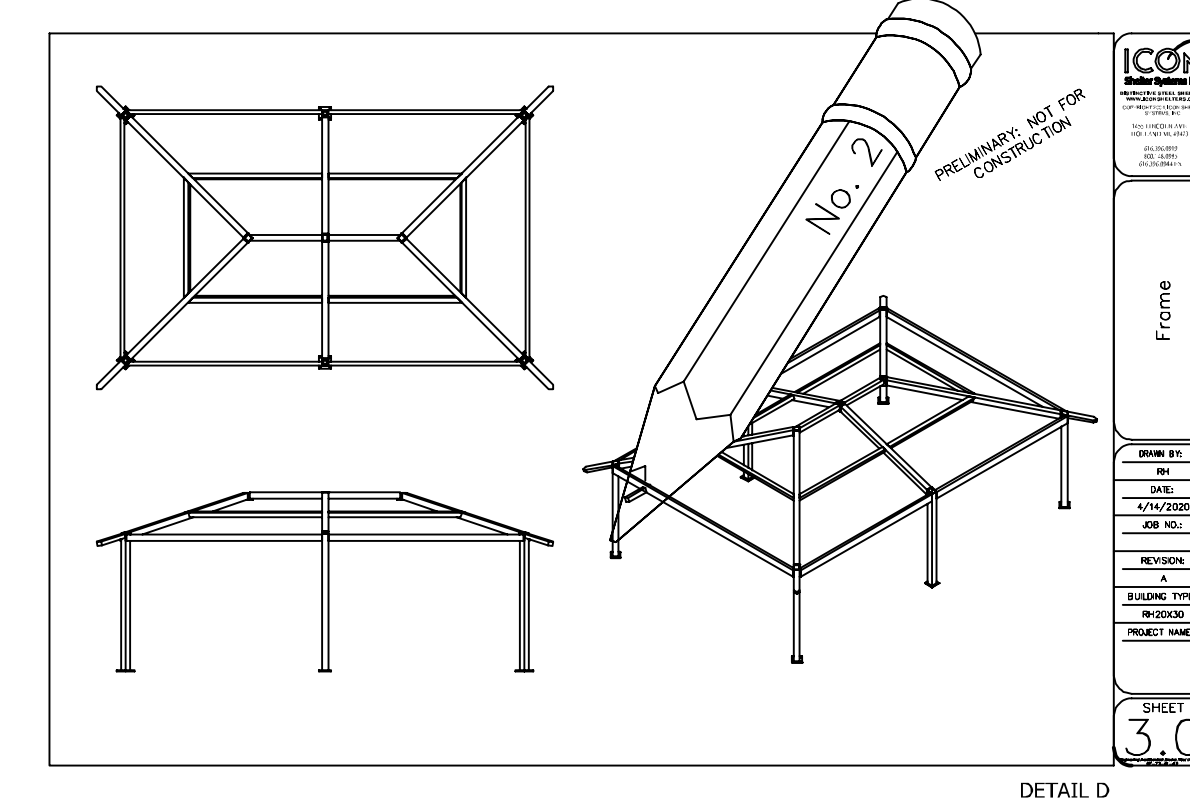
NOTE: BUILDING DEPICTED ON THIS SHEET FOR ILLUSTRATION PURPOSES ONLY. ACTUAL LAYOUT AND FRAME MEMBER QUANTITIES VARY BY DESIGN. PLEASE REFER TO ELEVATION AND FRAME SHEETS IN THIS PRELIMINARY FOR ORDER-SPECIFIC CONFIGURATION.



CONDUIT PATHWAY PROVIDED FOR EACH COLUMN.

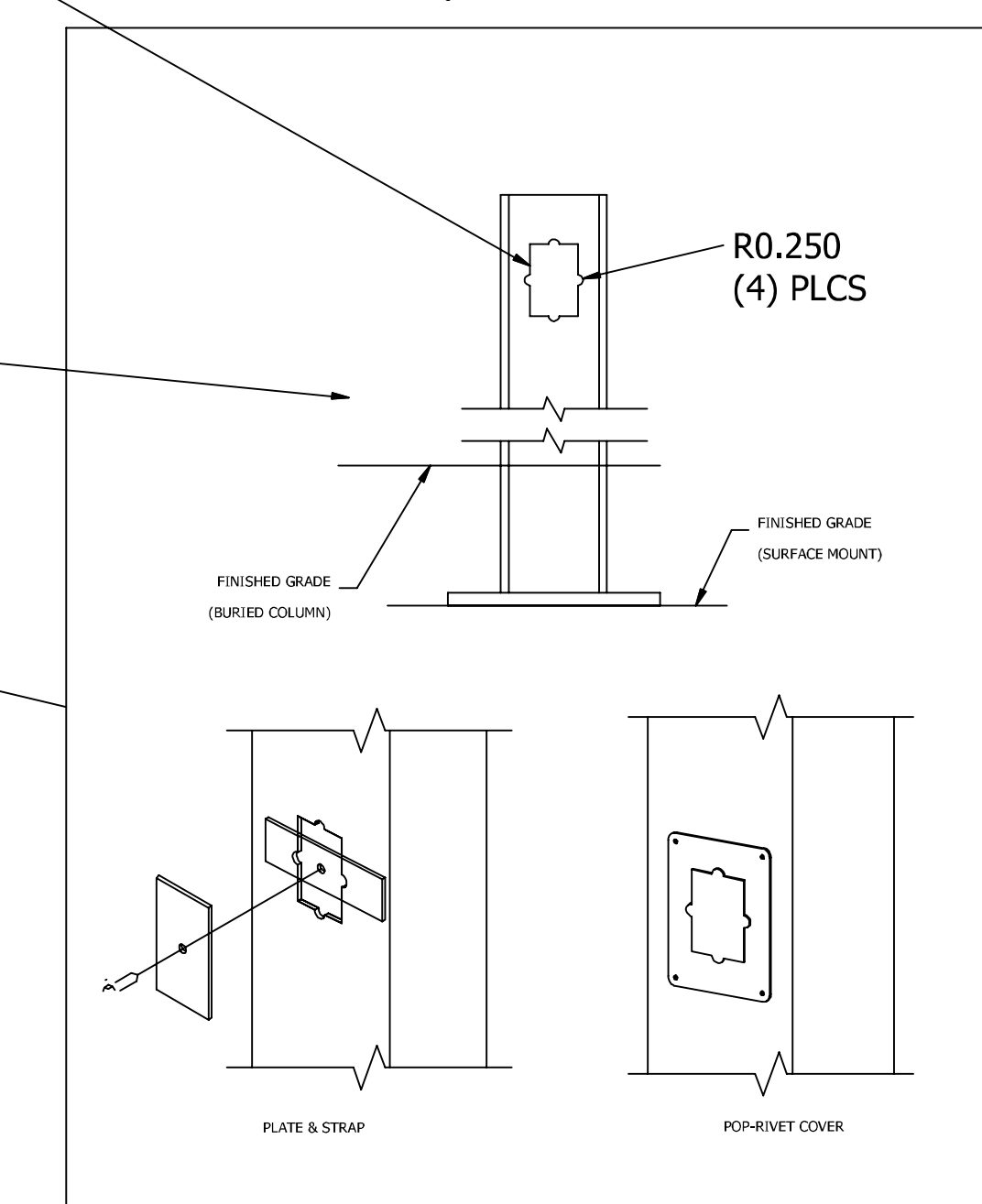


IF REQUIRED, PLEASE DRAW THE NECESSARY ELECTRICAL CONDUIT PATHWAY ON THE FRAME SHEET OF THIS PRELIMINARY.



OPTIONAL CUTOUPS
USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED CUTOUP LOCATIONS (CHARGES APPLY). SEE REQUIRED INFO BELOW.

- (1) STANDARD CUTOUP SIZE SHOWN. SPECIFY IF OTHER SIZE REQUIRED.
- (2) CUTOUPS WILL BE ON INSIDE FACE OF COLUMN UNLESS OTHERWISE INDICATED ON FRAME SHEET.
- (3) SPECIFY HEIGHT ABOVE FINISHED GRADE FOR EACH CUTOUP AS SHOWN



- (4) COVER PLATES PROVIDED UPON REQUEST (CHARGES APPLY)
PLEASE SPECIFY TYPE AND QUANTITY REQUIRED:
- PLATE & STRAP
 - POP-RIVET COVER PLATE
- HOW MANY REQUIRED? _____

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NO. 5090
STATE OF CALIFORNIA
07/29/2021

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APP: 04-120013 PC
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ELECTRICAL ACCESS

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