OUTDOOR LEARNING SHADE STRUCTURES LAS PALMAS ELEMENTARY SCHOOL EAST CAMPUS

577 LAS PALMAS AVENUE SACRAMENTO, CA 95815

TWIN RIVERS UNIFIED SCHOOL DISTRICT

GENERAL NOTES

- 1. ALL WORK SHOWN, NOTED OR DETAILED IS NEW, EXCEPT WHERE INDICATED AS EXISTING OR AS
- 2. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE AND SHALL REPORT ANY DISCREPANCIES IN WRITING TO THE CONSTRUCTION MANAGER BY THE MEANS OF AN REQUEST FOR INFORMATION (RFI) OR AS PART OF THE APPLICABLE SHOP
- SPECIFIC ITEMS NOTED TO BE VERIFIED OR FIELD VERIFIED ARE REQUIRED TO BE VERIFIED PRIOR O ORDERING MATERIALS OR PROCEEDING WITH THE WORK.
- 4. CONTRACTOR IS RESPONSIBLE FOR ALL INCIDENTAL WORK NECESSARY TO COMPLETE THE INSTALLATION OF NEW WORK. THIS INCLUDES, BUT IS NOT LIMITED TO, THE REMOVAL AND/OR REINSTALLATION OF ALL EXISTING ITEMS.
- ALL WORK, MATERIAL, METHODS, ETC. SHALL CONFORM TO ALL GOVERNING BUILDING CODES REGULATIONS AND AGENCIES.
- 6. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING THAT ALL NECESSARY PERMITS AND APPROVALS ARE OBTAINED PRIOR TO BEGINNING WORK OR ORDERING MATERIALS
- 7. ANY CONFLICT WITH THESE PLANS AND EXISTING CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
- 8. ALL WORK SHALL BE IN COMPLETE CONFORMANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS OR AS OTHERWISE OUTLINED IN THE SPECIFICATIONS.
- CONTRACTOR TO COORDINATE WITH EQUIPMENT SUPPLIERS FOR POWER REQUIREMENTS
- 10. WHERE INCLUDED IN THESE DRAWINGS, "KEYNOTES" DENOTE NEW WORK TO BE PERFORMED TO THE RIGHT OF EACH SHEET. "GENERAL SHEET NOTES" DENOTE DESCRIPTIONS OF ADDITIONAL NEW WORK SPECIFIC TO THE SHEET CONTAINING THE "GENERAL SHEET NOTE".
- 11. USE OF ANY (N) MATERIAL CONTAINING ASBESTOS IS PROHIBITED
- 12. DETAILS, MATERIALS, AND FINISHES ARE TYP. FOR ALL SIM. CONDITIONS U.O.N.
- 13. THE TERM "TYPICAL" (TYP) SHALL BE CONSTRUED TO MEAN APPLYING TO ALL LIKE OR SIMILAR CONDITIONS IN THE AREAS DESIGNATED FOR WORK SCOPE (I.E. WITHIN THE BOUNDARIES OF THIS
- 14. NOT ALL CEILING APPURTENANCES (SMOKE DETECTORS, EXHAUST FANS, ACCESS DOORS, ETC.) ARE SHOWN. CONTRACTOR TO FIELD VERIFY AND TAKE APPROPRIATE ACTION TO ACCOMMODATE THESE ITEMS.
- 15. ALL DEMOLISHED ITEMS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY UNLESS NOTED TO BE SALVAGED BACK TO OWNER.
- 16. PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL CONDUCT A SURVEY, WITH A DESIGNATED DISTRICT REPRESENTATIVE, TO DETERMINE THE OPERABILITY OF ALL EXISTING MECHANICAL UNITS, FIRE ALARM, TELEPHONE AND INTRUSION ALARM SYSTEMS. THE DISTRICT'S REPRESENTATIVE WILL PROVIDE A WRITTEN REPORT TO THE CONSTRUCTION MANAGER AND TO THE CONTRACTOR TO INSURE THE SAME OPERABILITY OF THESE COMPONENTS AT THE COMPLETION OF THE PROJECT.
- 17. ALL ITEMS THAT ARE LABELED 'CONCURRENT', 'NIC', OR 'EXISTING' ARE NOT PART OF THIS APPLICATION AND ARE NOT PART OF THE DSA APPROVAL FOR THIS PACKAGE.
- 18. PRIOR TO SITE MOBILIZATION, THE CONTRACTOR AND DISTRICT'S REPRESENTATIVE ARE TO MEET ON SITE AND PHOTO DOCUMENT THE EXISTING CONDITIONS OF THE AREA OF WORK AND LANDSCAPED AREAS WHERE TRENCHING WILL BE OCCURRING OR WHERE VEHICLE TRAFFIC IS ANTICIPATED. ALSO TEST IRRIGATION SYSTEM FOR PROPER OPERATION. AT PROJECT COMPLETION ALL AREAS MUST BE RESTORED TO ORIGINAL CONDITION INCLUDING BUT NOT LIMITED TO INSTALLING SOD AT DAMAGED TURF AREAS, REPLACING DAMAGED PLANTINGS, REPAIRING DAMAGED UNDERGROUND UTILITIES, PATCHING DAMAGED ASPHALT PAVING, RE-STRIPPING PAVING OR REPLACEMENT OF DAMAGED CONCRETE. THE CONTRACTOR AND OWNER'S REPRESENTATIVE SHALL MEET ON SITE AT PROJECT COMPLETION AND REVIEW ALL SITE CONDITIONS AND OPERATION OF IRRIGATION SYSTEM.
- 19. ALL WORK MUST CONFIRM TO 2022 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
- 20. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
- 21. DEMOLITION GENERAL NOTES:
- A. THE CONTRACTOR IS RESPONSIBLE TO HAVE EMERGENCY SHUT-OFF PROCEDURES IN PLACE PRIOR TO START OF CONSTRUCTION AND SHALL FAMILIARIZE THEMSELVES WITH ALL SHUT-OFF VALVE LOCATIONS ON SITE AND HAVE PROPER TOOLS READILY AVAILABLE TO OPERATE VALVES.
- B. SAFETY: CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE PREMISES ON WHICH THE WORK IS PERFORMED AND FOR THE SAFETY OF ALL PERSONS AND PROPERTY ON THE SITE BOTH DURING AND OUTSIDE OF NORMAL WORKING HOURS, UNTIL SUCH WORK IS ACCEPTED BY THE OWNER.
- UNDERGROUND SERVICES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES AND/OR UTILITY DISTRICT AS TO THE LOCATION OF ALL UNDERGROUND FACILITIES. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE LOCATION OF ALL UNDERGROUND UTILITIES OF OTHER BURIED OBJECTS WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN
- D. USE OF BARRICADES AND SITE CONTROLS: WHEN THE WORK AREA HAS TRENCHES OR DITCHES DEEPER THAN ONE FOOT, THE CONTRACTOR SHALL PROVIDE FENCING AND BARRICADES AND SUCH TRENCHES AND DITCHES SHALL BE COVERED AT THE END OF EACH DAY. THE CONTRACTOR SHALL EXPEDITE THE FILLING AND COMPACTING OF THE TRENCHES AND DITCHES. QUANTITIES: MATERIAL QUANTITIES IF ANY NOTED ON THESE PLANS ARE NOT GUARANTEED
- CONTRACT QUANTITIES. CONTRACTOR IS TO PERFORM IS OWN ESTIMATE AND QUANTITY TAKE-OFF. CONTRACTOR IS TO PROVIDE ALL MATERIALS NECESSARY TO ACCOMPLISH COMPLETE PROJECT EVEN IF QUANTITIES ARE DIFFERENT FROM THOSE NOTED ON THE DRAWINGS.
- F. ALL ITEMS NOT SHOWN AS (E) EXISTING SHALL BE CONSIDERED NEW AND ARE A PART OF THIS
- G. EXISTING GRADES: EXISTING GRADES IF INDICATED ARE APPOX. ONLY AND MAY VARY. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ALL FILL MATERIAL NECESSARY TO BRING THE PADS AND PAVING TO FINISH ELEVATIONS SHOWN REGARDLESS OF QUANTITY.
- SEASONAL LIMITS: FILL MATERIAL SHALL NOT BE PLACED, SPREAD OR ROLLED DURING UNFAVORABLE WEATHER CONDITIONS. WHEN THE WORK IS INTERRUPTED BY HEAVY RAINS, FILL OPERATIONS SHALL NOT BE RESUMED UNTIL FIELD TESTS INDICATE THAT THE MOISTURE
- CONTENTS OF THE SUBGRADE AND FILL MATERIALS ARE SATISFACTORY. MATERIALS: AT FILL AT BUILDING PADS AND PAVED AREAS SHALL BE AGGREGATE BASE ROCK, ALL
- FILL MATERIALS SHALL BE TESTED FOR MATERIALS CONTENT AT BORROW PIT OR SOILS PLANT. FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION SHALL COMPLY WITH 2022 CFC, CHAPTER 33

APPLICABLE CODES

ALL WORK SHALL CONFORM TO THE FOLLOWING AND ALL OTHER APPLICABLE CODES AND ORDINANCES

2022 CALIFORNIA BUILDING CODE (CBC), PART 2. TITLE 24, C.C.R. 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24, C.C.R. 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R

2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R. 2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24, C.C.R. 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R.

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24, C.C.R

2019 NFPA 24, INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES, AS AMENDED

CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR

DSA PROCEDURES

WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK.

- 1. 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. 3. CHANGES TO THE STRUCTURAL, ACCESSIBILITY, OR FIRE AND LIFE-SAFETY PORTIONS OF THE CHANGE DOCUMENTS SHALL BE PREPARED AND SUBMITTED TO DSA IN ACCORDANCE WITH DSA IR A-6. 4. SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS WILL BE CONSIDERED AS CHANGES TO THE

DOCUMENTS AND WILL REQUIRE DSA'S APPROVAL PRIOR TO FABRICATION ADN INSTALLATION IN

- ACCORDANCE WITH TITLE 24, PART 1, 4-338 AND DSA IR A-6. THE PROJECT INSPECTOR (CLASS 2 MIN.) MUST BE EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE ARCHITECT. STRUCTURAL ENGINEER, AND DSA IN ACCORDANCE WITH TITLE 24.
- PART 1, 4-341, AND SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. 6. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT. 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 CBC 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.

ABBREVIATIONS

< ¢ # E)	CENTERLINE DIAMETER OR ROUND POUND OR NUMBER EXISTING	F.D. F.E. F.H.C. FIN.	FLOOR DRAIN FIRE EXTINGUISHER FIRE HOSE CABINET FINISH		PROPERTY LINE PLASTIC LAMINATE PLYWOOD PREPARATION	SEE INDIVI
A.C. A.C.C.	ASPHALT CONCRETE ACCESSIBLE AREA DRAIN	FL. F.O.C. F.O.F. F.O.S.	FLOOR FACE OF CONCRETE FACE OF FINISH FACE OF STUDS	P.M. P.P. PTN. P.V.	PRESSED METAL PIPE PENTRATION PARTITION PIPE VENT	ROOM IDE
A.F.F. ALUM. ASPH	ABOVE FINISH FLOOR ALUMINUM ASPHALT	F.O.W F.R.P. F.V.	FACE OF WALL FIBERGLASS REINFORCED PLASTIC FIELD VERIFY	R. R.D. REINF.	RISER/RADIUS ROOF DRAIN REINFORCED	
BD. BLDG. BOT. B.V.	BOARD BUILDING BOTTOM BOILER VENT	GA. GALV. G.B. GYP.	GAUGE GALVANIZED GRAB BAR GYPSUM	REQ'D. R.H. R.W.L.	REQUIRED ROOF HATCH RAIN WATER LEADER	<u>DETAIL</u>
CAB. C.B.	CABINET CHALK BOARD	H.B.	HOSE BIBB	S.C. SF.	SOLID CORE SQUARE FOOT	CASEWOR
D.D. CHEM. D.G. D.J. CLG.	CONDENSATE DRAIN CHEMISTRY CORNER GUARD CONSTRUCTION JOINT CEILING	H.C. HGT./HT. H.M. HR. HVAC	HOLLOW CORE HEIGHT HOLLOW METAL HOUR HVAC UNIT	STOR. SPEC. S.S STD. STL.	STORAGE SPECIFICATION STAINLESS STEEL STANDARD STEEL	REFEREN
CLR. C.M.U.	CLEAR CONCRETE MASONRY UNIT	JT.	JOINT	STRL. SUSP. S.V.	STRUCTURAL SUSPENDED SMOKE VENT	INTERIOR ELEVATION
COL. CONC.	COLUMN CONCRETE	M.B. M.H.	MARKER BOARD MANHOLE	SYM.	SYMMETRICAL	
CONT. C.F.C.I.	CONTINUOUS CONTRACTOR FURNISHED CONTRACTOR INSTALLED		METAL MULLION	T.B. T.C. T.O.C.	TACK BOARD TOP OF CURB TOP OF CONCRETE	EXTERIOR ELEVATIO
CTR. DEMO.	CENTER DEMONSTRATION	(N) N.I.C. NO. or #	NEW NOT IN CONTRACT NUMBER	T.O.S. T.O.P. T.V.	TOP OF STEEL TELEVISION	
D.F. DIA.	DRINKING FOUNTAIN DIAMETER	N.T.S.	NOT TO SCALE	T.O.W. TYP.	TOP OF WALL TYPICAL	NORTH IND
DIM. D.S. DTL.	DIMENSION DOWNSPOUT DETAIL	O.C. O.D.	ON CENTER OUTSIDE DIAMETER (DIM.)	U.O.N.	UNLESS OTHERWISE NOTED	DATUM
OW OWG.	DISH WASHER DRAWING	O.F.C.I.	OWNER FURNISHED CONTR. INSTAL.	U.V.	UNIT VENTILATOR	DATUM WORK POI CONTROL
E.F. E.J.	EXHAUST FAN EXPANSION JOINT	O.F.O.I. O.F.S.	OWNER FURNISHED OWNER INSTAL. OVER FLOW SCUPPER	VERT. V.H.	VERTICAL VENT HOOD	DIMENSIO
MERG. LEV.	EMERGENCY ELEVATION	OPNG. OPP.	OPENING OPPOSITE	W/ W.C.	WITH WATER CLOSET	MARKS
E.W.C.	ELECTRIC WATER	OSB	ORIENTED STRAND	WD.	WOOD	REVISION

BOARD

EXST./(E) EXISTING

W/O

WITHOUT

W.W.F. WELDED WIRE **FABRIC**

PROJECT TEAM

TWIN RIVER UNIFIED SCHOOL DISTRICT 3222 WINONA WAY, SUITE 200 NORTH HIGHLANDS, CA 95660 PHONE: (916) 566-1600 CONTACT: PERRY HERRERA

HARRINGTON DESIGN ASSOCIATES. INC 5875 PACIFIC STREET, SUITE E2 ROCKLIN, CA 95677 PHONE: (916) 577-5789 CONTACT: FRANCIS J. HARRINGTON, AIA

STRUCTURE DATA

CONSTRUCTION: II-B NON-SPRINKLERED SEE SHEET A1.0 FOR COMPLETE CODE ANALYSIS

DESIGN CRETERIA

VERTICAL LOAD: ROOF LIVE LOAD = 20 PSF GROUND SNOW, Pg = 0 PSF BASIC WIND SPEED, V-3 SECONDS = 95 MPH RISK CATEGORY II **EXPOSURE CATEGORY C**

I = 1.00RISK CATEGORY I Ss = 0.531S1 - 0.244 SITE CLASS D - DEFAULT

Sds = 0.487

SEISMIC DESIGN CATEGORY D

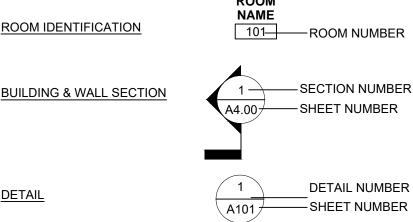
\sim SCOPE OF WORK

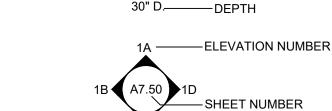
WORK UNDER THIS PROJECT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING GENERAL

ONE (1) 30'x64' METAL SHADE STRUCTURE BASED ON A#04-122375 PC (O.F.C.I.) AND ASSOCIATED SITE WORK: PURCHASE, FABRICATION & DELIVERY BY OWNER/MANUFACTURER, OFF-LOADING & ASSEMBLY BY SITE CONTRACTOR.

SYMBOLS LEGEND

SEE INDIVIDUAL SHEETS FOR ADDITIONAL SHEET SPECIFIC SYMBOLS/ LEGENDS INDICATED HERE





— WIC IDENTIFICATION

——ELEVATION NUMBER

-SHEET NUMBER

TRUE NORTH

R BUILDING

NDICATION

DRAWING INDEX

CODE ANALYSIS & OVERALL SITE PLAN **ENLARGED PLANS & DETAILS EXISTING ACCESSIBILITY PLANS & DETAILS**

TITLE SHEET

WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. THESE DOCUMENTS HAVE BEEN EXAMINED BY ME FOR DESIGN

THESE DOCUMENTS ARE ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT FOR WHICH I AM THE INDIVIDUAL DESIGNATED

THIS STATEMENT OF GENERAL CONFORMANCE SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER



DSA A#04-122375 PC GENERAL INFORMATION GENERAL INFORMATION

DSA 103 (NOT USED) DSA 103 (NOT USED)

LS1.3 30' WIDE RECTANGULAR HIP FOUNDATION PLAN 30' WIDE RECTANGULAR HIP FRAMING & CONNECTION DETAILS

30' WIDE RECTANGULAR HIP MULTI RIB ROOFING PLAN LS3.2

ELECTRICAL ACCESS

1. N/A

PROJECT

LOCATION

577 LAS PALMAS AVENUE

SACRAMENTO, CA 95815

TOTAL SHEET COUNT: 12

SPECIAL INSPECTIONS & TESTING

THE ITEMS LISTED BELOW ARE NOT SUBJECT TO DSA REQUIREMENTS FOR THE STRUCTURAL TESTS / SPECIAL INSPECTIONS:

CONCRETE BATCH PLANT (SITE FLATWORK)

SOIL COMPACTION AND FILL (SITE FLATWORK & SHADE STRUCTURE BASED ON A#04-122375 PC) DEEP FOUNDATIONS, SINGLE-STORY STRUCTURE WITH DEAD LOAD LESS THAN 5 PSF (SHADE STRUCTURE BASED ON

DEFERRED APPROVALS

INSTALLATION OF DEFERRED APPROVAL 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 ENGINEER, AND APPROVED BY DSA.

VICINITY MAP

FLOOD HAZARD ZONE: ZONE 'X'





APPROVED
DIV. OF THE STATE ARCHITE APP: 02-122047 INC:

REVIEWED FOR SS FLS ACS ATE: 05/09/2024

CONSULTANT



OUTDOOR LEARNING

LAS PALMAS ELEMENTARY -

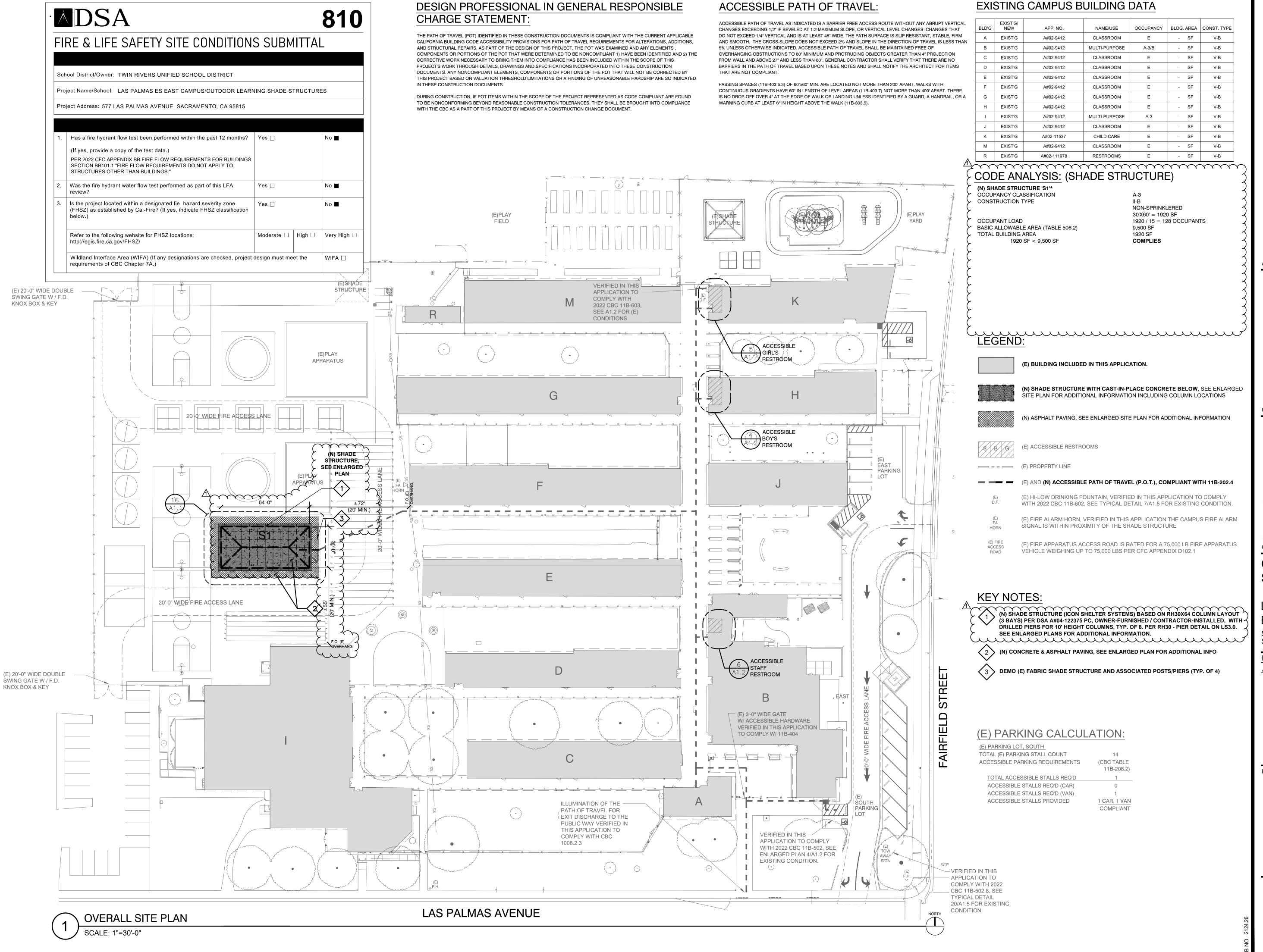
SHADE STRUCTURES

EAST CAMPUS 577 LAS PALMAS AVE. SACRAMENTO, CA 95815

REVISIONS DSA ADD-001 5/9/2024

DATE December 15, 2023

TITLE



APPROVED
DIV. OF THE STATE ARCHITECT
APP: 02-122047 INC:
REVIEWED FOR
SS FLS ACS DATE: 05/09/2024

HARRINGTON
DESIGN
ASSOCIATES

5875 PACIFIC STREET, SUITE E2 ROCKLIN, CA 95677 (916) 577-5789 www.HarringtonDA.COM



ARCHITECT

CONSULTANT



/NER

OUTDOOR LEARNING SHADE STRUCTURES

LAS PALMAS ELEMENTARY -EAST CAMPUS

5/9/2024

577 LAS PALMAS AVE. SACRAMENTO, CA 95815

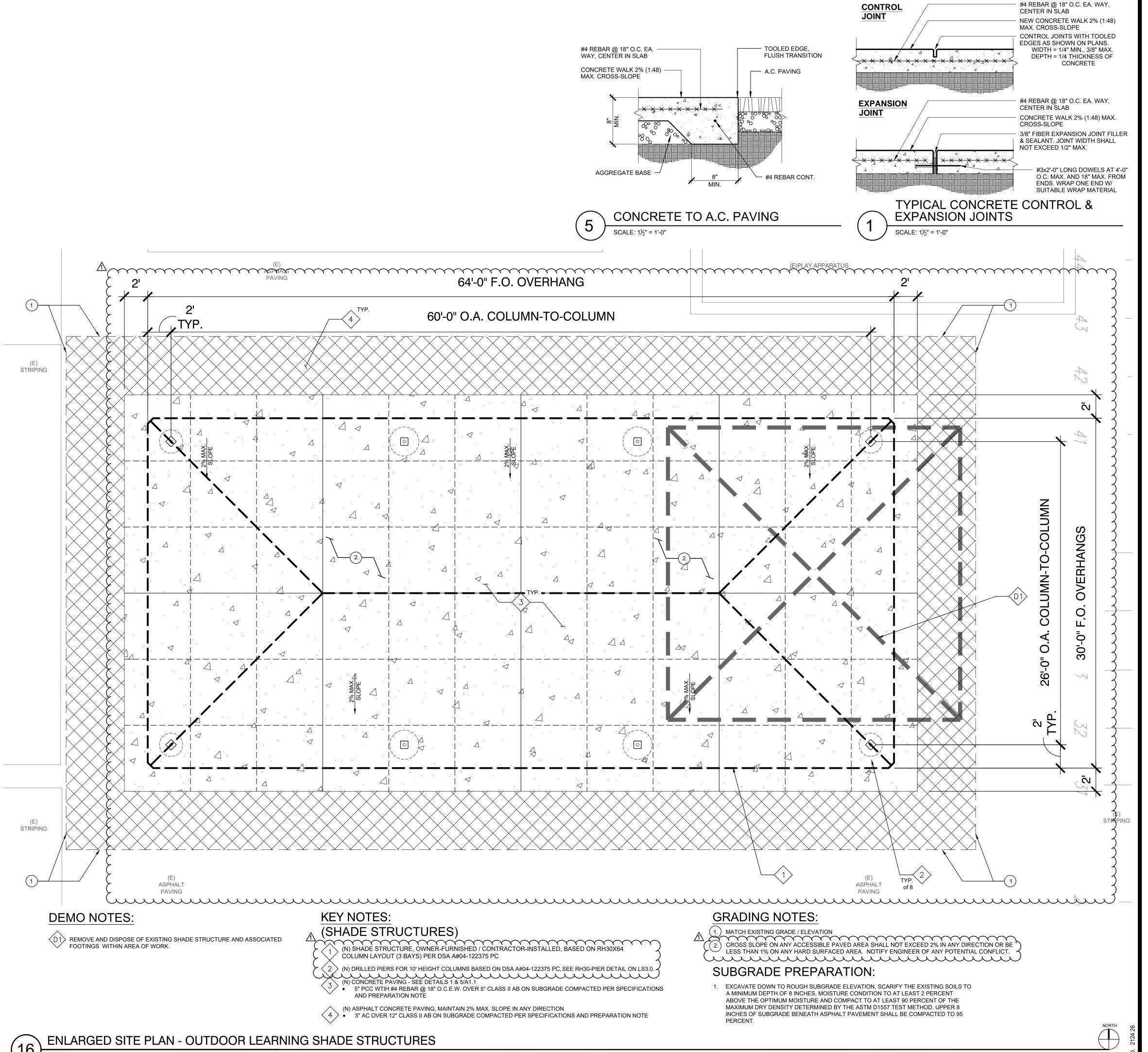
REVISIONS

DSA ADD-001

DATE December 15, 2023

CODE ANALYSIS & OVERALL SITE PLAN

A1.0



APPROVED
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APP: 02-122047 INC:
REVIEWED FOR
SS FLS ACS DATE: 05/09/2024

HARRINGTON
DESIGN
ASSOCIATES

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ARCHITECT

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/NER

OUTDOOR LEARNING SHADE STRUCTURES

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577 LAS PALMAS AVE. SACRAMENTO, CA 95815

REVISIONS

DSA ADD-001

DSA ADD-001 5/9/2024

DATE December 15, 2023

ENLARGED PLANS & DETAILS

A11

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 02-122047 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹



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ARCHITECT

CONSULTANT



OUTDOOR LEARNING SHADE STRUCTURES

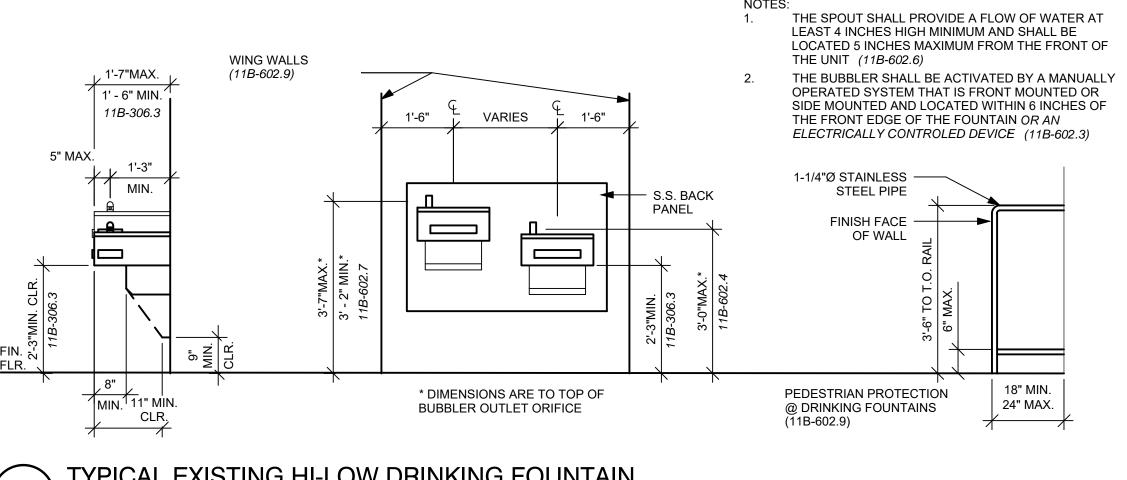
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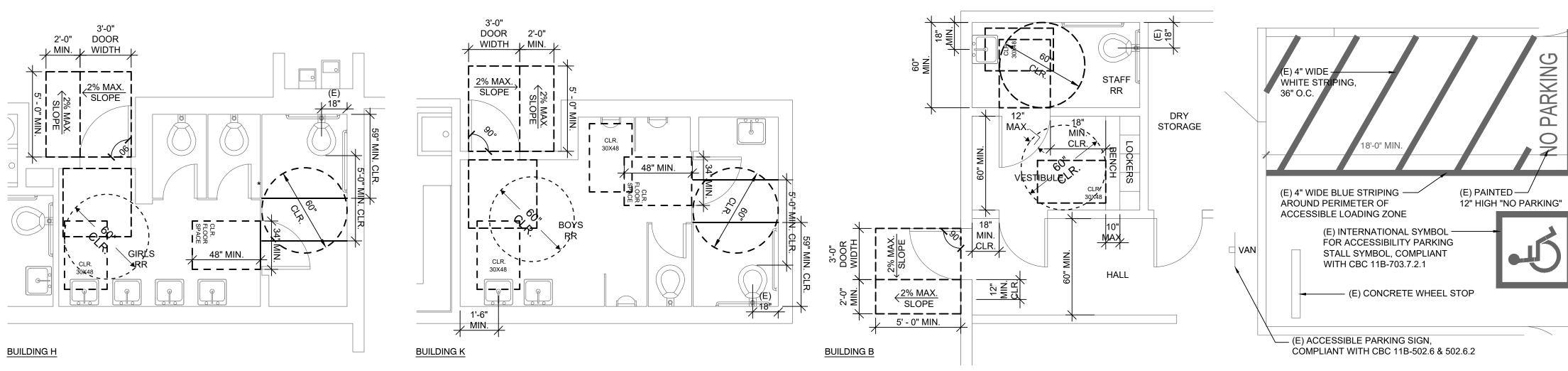
DATE December 15, 2023

EXISTING ACCESSIBILITY PLANS & DETAILS

A1.2







EXISTING ACCESSIBLE PARKING ENTRY SIGN

1" HIGH WHITE LETTERS ON BLUE BACKGROUND WITH MESSAGE:

1'-5" MIN. -

EQ | 6 |

EQ

"UNAUTHORIZED VEHICLES PARKED IN DESIGNATED ACCESSIBLE SPACES NOT DISPLAYING DISTINGUISHING PLACARDS OR LICENSE PLATES ISSUED FOR PERSONS

WITH DISABILITIES WILL BE TOWED AWAY AT OWNER'S EXPENSE/ TOWED VEHICLES MAY

BE RECLAIMED AT TWIN RIVERS POLICE DEPARTMENT OR BY TELEPHONING (916) 566-2777."

1/2" WIDE WHITE BORDER

ENAMEL FINISH

(E) SIGN POST

POLE MTD. ACCESSIBLE PARKING ENTRY SIGN: .125" THICK ALUMINUM

PANEL WITH BAKED PORCELAIN

+6'-8" ABV. FINISH GRADE
SIGN SECURELY MOUNTED

ENLARGED (E) GIRLS RR PLAN SCALE: 1/8"=1'-0"

ENLARGED (E) BOYS RR PLAN SCALE: 1/8"=1'-0"

ENLARGED (E) STAFF RR PLAN SCALE: 1/8"=1'-0"

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

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

1"R. TYP.

(E) ACCESSIBLE PARKING STALLS

<u>DESIGN CRITERIA</u> BASE LOCATION LOCATED AT BOTTOM OF BASEPLATE/TOP OF FOOTING	+				
DESCRIPTION	+	DESIGN VALUES			
DEAD AND LIVE LOADS	_	<u>DEGIGIA VACOLO</u>			
ROOF LIVE LOAD		20 PSF			
ROOF DEAD LOAD (SUPERIMPOSED ON FRAME)		5 PSF MAX			
ROOF PANEL DEAD LOAD		1 PSF, G = 1.2 PSF, S = 1.			
COLLATERAL DEAD LOAD	M = 3	3.9 PSF, G = 3.8 PSF, S = 3 .	.7 PSF		
ROOF LIVE LOAD, L _r		20 PSF			
TOOL EIVE LOND, L		20 F3F			
ROOF SNOW LOAD					
GROUND SNOW LOAD, P _q		20 PSF			
RISK CATEGORY					
ROOF SNOW LOAD: SLOPED, P _s		20 PSF			
FOR SNOW LOAD CONDITIONS ONLY - SITE APPLICATION REVIEWER SHALL VERIFY THE STTRUCT	URE SHALL BE LOCATED A	AT LEAST 20 FEET			
FROM ANY ADJACENT STRUCTURE FOR SNOW DRIFT.					
SNOW LOAD SLOPE FACTOR, C_s		1.0			
SNOW LOAD EXPOSURE FACTOR, $C_{\rm e}$		1.0			
SNOW LOAD IMPORTANCE FACTOR, I _s		1.0			
THERMAL FACTOR, C ₁	+	1.2			
LOWEST ANTICIPATED SERVICE TEMPERATURE	+	30°			
WIND DESIGN	+	JU			
BASIC WIND SPEED (3 SECOND GUST), V _{ult} , V _{asd}	+	100 MPH, 78 MPH			
RISK CATEGORY					
EXPOSURE CATEGORY					
FACTORS: Kz, Kzt, Kd		0.85, 1.0, 0.85			
$q_h = 0.00256 K_z K_{zt} K_d V^2$		18.50 PSF			
C _{NW} PER ASCE FIGURE 27.3-5 ROOF ANGLE 18.43 - CLEAR / OBSTRUCTED	CASEA	(1.1 / -1.2) CASEB (0.0	01 / -0.69)		
C _{NI} PER ASCE FIGURE 27.3-5 ROOF ANGLE 18.43 - CLEAR / OBSTRUCTED		0.17 /-1.09) CASEB (-0	*		
C _N PER ASCE FIGURE 27.3-7 PARALLEL TO RIDGE - CLEAR / OBSTRUCTED (< h)	`	(-0.8 / -1.2) CASEB (,		
C_N PER ASCE FIGURE 27.3-7 PARALLEL TO RIDGE - CLEAR / OBSTRUCTED (> h, < 2h)		(-0.6 / -0.9) CASEB (<u> </u>		
C _N PER ASCE FIGURE 27.3-7 PARALLEL TO RIDGE - CLEAR / OBSTRUCTED (>2h)		(-0.3 / -0.6) CASEB (•		
COMPONENTS & CLADDING - C _N (PRESSURE/SUCTION) CLEAR / OBSTRUCTED		, ,	<u> </u>		
CONFONENTS & CLADDING - CN (FILESSORE SOCTION) CLEARLY OBSTROCTED		ZONE 3 - (2.29 / -2.11) / (1.0 / -3.0) ZONE 2 - (1.77 / -1.63) / (0.8 / -2.3)			
	ZONE 2 - (1.77 / -1.63) / (0.87 -2.3) ZONE 1 - (1.15 / -1.05) / (0.5 / -1.5)				
SEISMIC DESIGN	201	<u>VL 1 - (1.157 - 1.05)7 (0.57</u>	-1.0)		
LATERAL FORCE RESISTING SYSTEM	STEEL -	ORDINARY CANTILEVER	COLUMN		
ANALYSIS PROCEDURE	EC	QUIVALENT LATERAL FOR	CE		
SESIMIC IMORTANCE FACTOR, I _e		1.0			
SEISMIC SITE CLASS		D			
MCE _R SPECTRAL RESPONSE ACCELERATION @ 0.2 s, S _S		2.60			
MCE _R SPECTRAL RESPONSE ACCELERATION @ 0.2 s, S ₁		0.90			
SHORT PERIOD SITE COEFFICIENT, Fa		1.20			
LONG PERIOD COEFFICIENT, F_v		1.70			
FUNDAMENTAL PERIOD OF THE STRUCTURE, T (WORST CASE FOR ALL STRUCTURES)		0.152 s			
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, S _{DS}		2.08 🗆			
	+	2.00			
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, $S_{ m DS}$ - USED TO DETERMINE Cs (WITH CAF		2.08 * 0.70 = 1.456 \Box			
PER ASCE 7 12.8.1.3) SOIL PROPERTIES MAY NOT BE CLASSIFIED AS SITE CLASS E.		2.00 0.70 - 1.450 🖂			
DESIGN SPECTRAL RESPONSE ACCELERATION AT 1-s PERIODS, S _{D1}		1.02			
SEISMIC DESIGN CATEGORY	†	E			
SITE SPECFIC RESPONSE ANALYSIS NOT REQUIRED PER ASCE 7 11.4.8 EXCEPTION 2	$T_{s} = 0.49 \text{ s}$.5 * T _s		
RESPONSE MODIFICATION FACTOR, R	-	1.25			
OVERSTRENGTH FACTOR, Ω		1.25			
		1.3			
REDUNDANCY FACTOR, ρ		NONE	1		
HORIZONTAL OR VERTICAL IRREGULARITIES	 	1.00	-1.00 -		
HORIZONTAL OR VERTICAL IRREGULARITIES SEISMIC RESPONSE COEFFICIENT, C _s (20' WIDE, 30' WIDE, 40' WIDE)	-1.16 -		1 44 GE DOE []		
HORIZONTAL OR VERTICAL IRREGULARITIES	-1.16 - 12.73 PSF []	13.41 PSF [/]	14.65 PSF []		
HORIZONTAL OR VERTICAL IRREGULARITIES SEISMIC RESPONSE COEFFICIENT, C _s (20' WIDE, 30' WIDE, 40' WIDE)	12.73 PSF []				
HORIZONTAL OR VERTICAL IRREGULARITIES SEISMIC RESPONSE COEFFICIENT, C _s (20' WIDE, 30' WIDE, 40' WIDE) DESIGN BASE SHEAR, V (20' WIDE, 30' WIDE, 40' WIDE)	12.73 PSF []	13.41 PSF [/]			
HORIZONTAL OR VERTICAL IRREGULARITIES SEISMIC RESPONSE COEFFICIENT, C _s (20' WIDE, 30' WIDE, 40' WIDE) DESIGN BASE SHEAR, V (20' WIDE, 30' WIDE, 40' WIDE) ALLOWABLE SOIL BEARING FOR FOUNDATIONS FLOOD DESIGN - DESIGN IS ASSUMED TO NOT BE IN FLOOD HAZARD AREA	12.73 PSF []	13.41 PSF [/]			
HORIZONTAL OR VERTICAL IRREGULARITIES SEISMIC RESPONSE COEFFICIENT, C _s (20' WIDE, 30' WIDE, 40' WIDE) DESIGN BASE SHEAR, V (20' WIDE, 30' WIDE, 40' WIDE) ALLOWABLE SOIL BEARING FOR FOUNDATIONS	12.73 PSF []	13.41 PSF [/]			

STRUCTURAL SEPARATION

ALL DEFLECTIONS SHOWN ALSO INCLUDE THE P-DELTA ROTATION PER IR PC-7

SOIL CLASSES PER CBC TABLE 1806A.2 MAXIMUM DRIFT $\delta \hat{m}_{ax}$ SIDE COLUMNS -20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES) [] 2.40 30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES) 40' WIDE (8' EAVE + T. 10' EAVE HEIGHT, 12' EAVE HT) (INCHES) MINIMUM SEPARATION ($\delta_m = Cd \delta_{max}$) Cd = 1.2530' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES) 40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES) MAXIMUM DRIFT δmax END COLUMNS 20' WIDE (8' EAVE HT. 10' EAVE HEIGHT. 12' EAVE HT) (INCHES) 30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES) WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (NCHES) MINIMUM SEPARATION ($\delta_m = C_d \delta_{max}$) $C_d = 1.25$ -20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES) 30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)

DEFLECTIONS ARE FOR (1) STRUCTURE

[]2|88

INSTRUCTIONS FOR ARCHITECTS SUBMITTING THESE PRE-CHECKED DRAWINGS TO DSA:

BEFORE SUBMITTING THESE PRE-CHECKED DRAWINGS FOR YOUR PROJECT, FOLLOW THE STEPS BELOW TO PROPERLY DEFINE THE APPROVED OPTIONS:

STEP 1: SELECT FRAME DIMENSIONS FOR YOUR PROJECT

-HIP STRUCTURES UP TO 20' WIDE USE THE "RH 20" BASE FRAME
-HIP STRUCTURES UP TO 30' WIDE USE THE "RH 30" BASE FRAME

-HIP STRUCTURES UP TO 40' WIDE USE THE "RH 40" BASE FRAME -MAXIMUM WIDTH IS 40' (SEE "ARCHITECTURAL VIEWS" SHEET FOR REFERENCE) -THE 24', 44', 64', 84' AND 104' LENGTHS ARE SUGGESTED BECAUSE THEY ARE THE MOST COMMON

(20' BAYS ARE THE MOST ECONOMICAL)

	-FRAME LENGTHS ASSUME 2 OVERHANGS (UNO BY ARCHITECT - 2 MAX DIMENSION)								
	FRAME DIMENSIONS								
Д —		SUGGESTED	OTHER						
STE	FRAME WIDTH	[] 20' [] 30'] [] 40'	[] (46' MAX)						
	FRAME LENGTH	[] 44' } [✓] 64' <mark>} [] 84' [] 104'</mark>	[] (NO MAX)						

STEP 2: SELECT ROOF DECK FOR YOUR PROJECT

-"M" REPRESENTS McELROY METAL "MULTI-RIB" ROOF PANEL

-"G" REPRESENTS McELROY METAL "MEGA-RIB" ROOF PANEL

	- 5	REPRESENTS MCELROY METAL	MEDALLION-LO	X 16	SIAN	DING SEAM	ROOF	PANEL
7			em .	ROOF	PANEL			
STEP		ROOF PANEL TYPE	₹ [√] ∧	₄ ქ €]	[]		

STEP 3: IDENTIFY THE Ss ACCELERATION (g) FOR YOUR PROJECT

-Ss VALUE DETERMINES THE REQUIRED SEISMIC DESIGN FORCES -Ss value depends on the projects geographical location (values range from 0.00 to 3.73)
-Find Ss values for your project on the usgs website (search internet for "USGS SEISMIC DESIGN MAPS")

тер 3	PROJECT SIZE SACCELERATION (g)
ST	0.53
	tutus -

STEP 4: IDENTIFY THE Ss REGION FOR YOUR PROJECT

-THE REGIONS ARE DEPENDANT ON THE Ss VALUE DETERMINED IN STEP 3 -THE Ss REGION DICTATES THE MAXIMUM DEAD LOAD PERMITTED ON THE FRAME

		THE 33 REGION DIGITATES THE MAXIMON	DEAD LOAD I ENWITTED C	AN THE HANGE	
			Ss REGION		
			~~~~~~	Ss REGIONS	MAX DEAD LOAD
\	[‡]	}	0.53	0 < Ss <= 2.14	5 PSF
	7	`		2.11 < S ₃ <= 2.50	The state of the s
7	<u> </u>	DESCRIPTION		<del>2.50 &lt; Ss &lt;- 2.60</del>	5 PSF

#### STEP 5: IDENTIFY THE ROOF DEAD LOAD FOR YOUR PROJECT

- THE ROOF DECK DEAD LOAD WILL ALWAYS BE INCLUDED - THE COLLATERAL LOAD REPRESENTS ADDITIONAL LOAD THAT CAN BE SUPPORTED BY THE FRAME

- BE SURE THE TOTAL ROOF DEAD LOAD FOR YOUR PROJECT IS LESS THAN OR EQUAL TO THE MAX

DEAD LOAD SHOWN IN STEP 4 FOR YOUR Ss VALUE - Sds value used in calculation is the capped Sds (see design criteria)

		TOTAL ROOF DEAD LO	DAD
		DEAD LOAD	EXAMPLES
EP 5	ROOF DECK	1.1 PSF	M=1.1PSF; <del>C=1.2PSF ;S=1.3PSF</del> (SEE STEP 2)
STE	COLLATERAL	3.9 PSF	RIGHTNING, FIRE SUPPRESSION, SOLAR PANELS, ETC
	TOTAL	5.0 PSF	ADD ROOF DECK AND COLLATERAL LOADS (MAX 5 PSF)
			<del>y</del>

#### STEP 6: IDENTIFY THE FOUNDATION REQUIREMENTS FOR YOUR PROJECT -IDENTIFY SOIL CLASS FOR PROJECT SITE PER SITE SPECIFIC SOIL CONDITIONS

-USE THIS TO SELECT CORRECT FOUNDATION SIZE ON FOUNDATION SHEET

,	······································	FOUNDATION REQUIREMENTS							
<b>}</b>	✓ GEOTECHNIC AL REPORT NOT REQUIRED	[ ] GEOTECHNIC AL	REPORT REQUIRED						
STEF	SOIL CLASS 5 (BEARING) 1500 PSF 🗹	SOIL CLASS 4 (BEARING) 2000 PSE [ ]	SOIL CLASS 3 (BEARING) 3000 PSF [ ]						
	SOIL CLASS 5 (LATERAL BEARING) 200 PSF/FT	SOIL CLASS 5 (LATERAL BEARING) 300 PSF/FT	SOIL CLASS 5 (LATERAL BEARING) 400 PSF/FT						
}	COHESION 130 PSF	FRICTION COEFFICIENT 0.25	FRICTION COEFFICIENT 9.30						
$\overline{}$									

#### - SELECT AND VERIFY MINIMUM SEPARATION DISTANCE BETWEEN STRUCTURES

#### STEP 7: SELECT MISCELLANEOUS OPTIONS FOR YOUR PROJECT -MAXIMUM CLEAR HEIGHT IS 12'-0"; (SEE "ARCHITECTURAL VIEWS" SHEET FOR REFERENCE) -MARK UP PC DRAWINGS WITH SIZE AND LOCATION OF CUTOUTS BEFORE SUBMITTING TO DSA

MISCELLANEOUS

	- 1					
					DESIGN	OPTIONS
L	귀	CLEAR HEIGHT	<del>[ ] </del>	[ <b>/</b> ] 10'	12' MAX	
		ELECTRICAL CUTOUTS		YES :	<b>1</b>	[] NO
		GUTTERS		[✔] YES	}	[] NO
-	•		, (	<del>uuuuu</del>	)	

#### STEP 8: SELECT APPLICABLE SHEET INDEX FOR YOUR PROJECT -REFERENCE THE BASE FRAME (STEP 1) AND THE ROOF PANEL TYPE (STEP 2) -IDENTIFY THE APPLICABLE SHEET INDEX

	-IDENTIFY THE APPLICABLE 5	11661	INDLX									
	SHEET INDEX											
	BASE FRAME			RH 20		(	$\sim$	<b>R</b> H 30			RH 40	
	ROOF PANEL TYPE		×	G	4	بد	М	<b>g</b> G	s /	M	G	1
	SELECT ONE		[]	[]	<b>/</b> [ ]	یع	<b>[</b> ]	<b>}</b> \[]	[ ]	[]	[]	<b>/</b> []
	GENERAL NOTES		LS1.0 LS1.1	LS1.0 LS1.1	LS1.0 LS1.1	٤	LS1.0 LS1.1	LS\0 LS1.\	LS/.0 LS/1.1	LS1.0	LS1.0	LS1.0
	FOUNDATION PLAN		LS2.0	LG2/0	LS2.0	ع	LS3.0	<b>3</b> LS3. <b>\</b>	<b>/</b> S3.0	LS4.0	1640	LS4.0
ω	FRAMING PLAN		LS2.1	1821	LS2.1	2	LS3.1	<b>3</b> LS3.1	LS3.1	LS4.1	12841	LS4.1
STE	FRAME CONNECTION DETAILS		LS2.1	LS2.1	LS2.1	ہ	LS3.1	<b>1</b> LS3. <b>1</b>	<b>\</b> S3.1	LS4.2	LS4.2	LS4.2
	ROOFING LAYOUT & DETAILS		LS2. <b>7</b>	LS2.3	S2.4	ع	LS3.2	<b>3</b> LS <b>7</b> .3	L93.4	LS4. <b>7</b>	LS4.4	\$4.5
	(NOT USED) DSA 103 EXAMPLE		LS7.2 US1.3	LS1.2 LS1.3	LS 1.2 LS1.3	عد	LS1.2 LS1.3	) L <b>S</b> 1.2 S1.3	LS1.2 LS1.3	LS1.2 L21.3	LS1.2 LS1.3	LS 2 LS1.3
	MISC DESIGN OPTIONS		LS5.0	LS5.0	LS5.0	3	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0
						O	····	)				
	_											
	_											

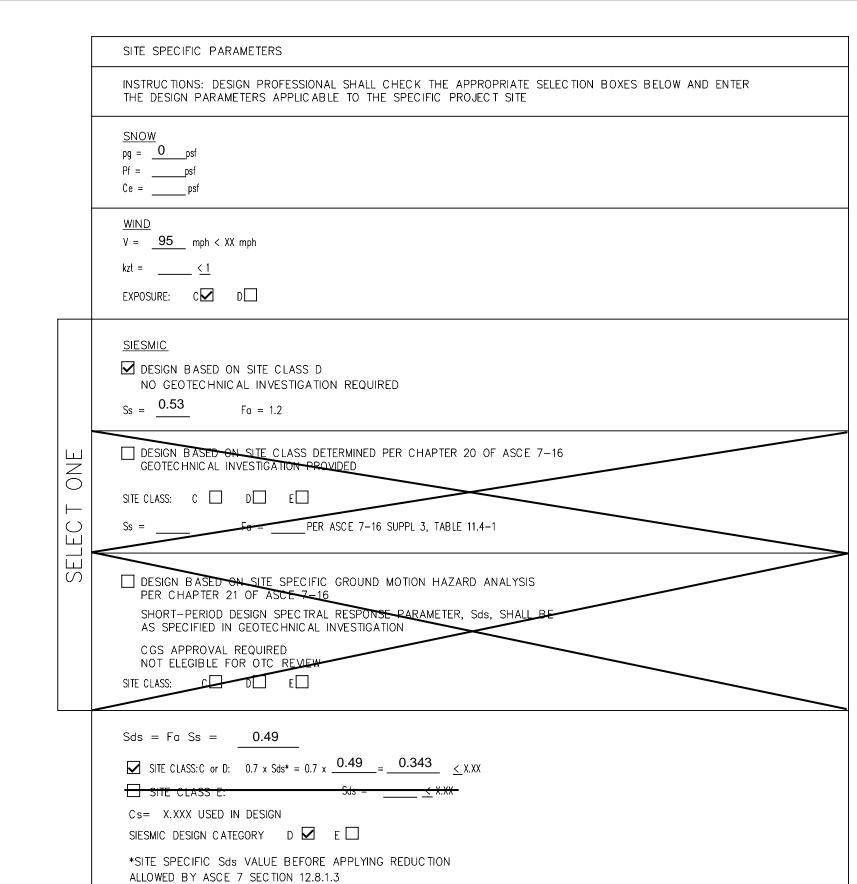
STEP 9: INCLUDE APPLICABLE SHEETS WITH YOUR DSA SUBMITTAL -INCLUDE 'MISC DESIGN OPTIONS' SHEET FOR PROJECTS WITHOUT ELECTRICAL CUTOUTS OR GUTTERS

#### STEP 10: IDENTIFY PROJECT NAME AND LOCATION PROJECT NAME:

LAS PALMAS ES EAST CAMPUS OUTDOOR LEARNING SHADE STRUCTURE

SCHOOL DISTRICT: TWIN RIVERS USD

STEP 11: CROSS OUT EXAMPLE 103 FORMS & INCORPORATE REQUIRED SPECIAL INSPECTIONS 103 FORMS THAT ARE PROJECT



<u>ABBREVIA</u>	TIONS:		
ACI	AMERICAN CONCRETE INSTITUTE	MPH	MILES PER HOUR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	М	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	ОС	ON CENTER
СВС	CALIFORNIA BUILDING CODE	OSHA	OCCUPATIONAL HEALTH AND SAFETY ADMIN
C JP	COMPLETE JOINT PENETRATION	PCF	POUNDS PER CUBIC FOOT
CLR	CLEAR	PJ	PRETENSIONED JOINT
DEG	DEGREE	PLCS	PLACES
DIA	DIAMETER	PLT	PLATE
DIM	DIMENSION	PSF	POUNDS PER SQUARE FOOT
DSA	DIVISION OF THE STATE ARCHITECT	PSI	POUNDS PER SQUARE INCH
EQ	EQUAL	QTY	QUANTITY
FT	FEET	REF	REFERENCE
GA	GAGE	SQ	SQUARE
IN	INC HES	SS	STANDING SEAM ROOF PANEL (MCELROY)
KSI	KIPS PER SQUARE INCH	TYP	TYPIC AL
мах	MAXIMUM	UNO	UNLESS NOTED OTHERWISE
MIN	MINIMUM	USGS	U.S. GEOLOGIC AL SURVEY

ARCHITEC TURAL REQUIREMENTS					
DESCRIPTION	DESIGN VAULES				
TYPE OF CONSTRUCTION	II-B				
OCCUPANCY CLASSIFICATION	A-3				
NUMBER OF STORIES	1				
FIRE SPRINKLER SYSTEM	NOT BY ICON/WEIGHT NOT INCLUDED IN DESIGN				
MOST COMMON RH20 MIN/MAX SQ.FT (SEE STEP 1)	480/2,080				
MOST COMMON RH30 MIN/MAX SQ.FT (SEE STEP 1)	720/3,120				
MOST COMMON RH40 MIN/MAX SQ.FT (SEE STEP 1)	960/4,160				

W/

WITH

AREA OVER 4000 SQ.FT REQUIRES GEOHAZARD REPORT ALLOWABLE ARE FOR II-B / A-3 IS 9500 SQ.FT

MISC ELLANEOUS

### RELATED BUILDING CODES AND STANDARDS

### TITLE 24 CODES:

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC).. ...(PART 1, TITLE 24, CCR) 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR ..(PART 3, TITLE 24, CCR) 2022 CALIFORNIA ELECTRICAL CODE... .(PART 4, TITLE 24, CCR) 2022 CALIFORNIA MECHANICAL CODE (CMC).. ..(PART 5, TITLE 24, CCR) 2022 CALIFORNIA PLUMBING CODE (CPC)..... ..(PART 6, TITLE 24, CCR) 2022 CALIFORNIA ENERGY CODE.. 2022 CALIFORNIA FIRE CODE (CFC) . (PART 9, TITLE 24, CCR) 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE.....(PART 11, TITLE 24, CCR) 2022 CALIFORNIA REFERENCE STANDARDS CODE... ..(PART 12, TITLE 24, CCR)

TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:

2022 CBC, CHAPTER 35 2022 CFC, CHAPTER 80

#### SCOPE OF WORK NARRATIVE

THESE DRAWINGS ILLUSTRATE THE FABRICATION AND INSTALLATION REQUIREMENTS FOR A FREE-STANDING PREFABRICATED STEEL SHADE STRUCTURE. THE ENTIRE STRUCTURAL SYSTEM IS COMPRISED OF 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. DRAWN B DATE REV REV DATE ARCHITECTS ENGINEERS 2700 SATURN STIBREA, CA 92821 T. 714.524.1870 | F. 714.524.1875 WWW.JRMA.COM

APPROVED DIV. OF THE STATE ARCHITE APP: 02-122047 INC:

REVIEWED FOR SS FLS ACS

DATE: 05/09/2024



ISTINCTIVE STEEL SHELTERS

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: 2022 CBC

A separate project application for construction is required.

- 1. GENERAL NOTES AND TYPICAL DETAILS SHALL APPLY TO ALL PARTS OF THE JOB EXCEPT WHERE THEY MAY CONFLICT WITH DETAILS AND NOTES ON OTHER SHEETS. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED SUBJECT TO REVIEW BY THE STRUCTURAL ENGINEER FOR THIS PROJECT.
- 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 STATE AND FEDERAL REGULATIONS.
- 3. OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR THIS PROJECT PRIOR TO PROCEEDING
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS, ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR THIS PROJECT AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
- 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. 6. ASTM DESIGNATIONS AND ALL STANDARDS REFER TO THE LATEST AMENDMENTS, EXCEPT AS AMENDED BY CBC CHAPTER 35.
- 7. CONFORM TO APPLICABLE CAL/OSHA CONSTRUCTION SAFETY REGULATIONS FOR ALL WORK PERFORMED DURING CONSTRUCTION. JOB SITE SAFETY IS STRICTLY THE RESPONSIBILITY OF THE CONTRACTOR AND NOT THE
- 8. THE ENGINEER AND THEIR CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, HANDLING, REMOVAL OR DISPOSAL OF HAZARDOUS MATERIALS AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.
- 9. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, OR IF A CHANGE IN THE SCOPE OF WORK IS PROPOSED, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED CHANGE(S) SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
- 10. THE SCHOOL DISTRICT INSPECTOR ON RECORD SHALL INSPECT AND APPROVE THE ERECTED FRAME PRIOR TO ROOF
- 11. SEE REQUIREMENTS FOR LOCATION IN ANY FIRE HAZARD SEVERITY ZONE FOR WILDLAND URBAN INTERFACE AREAS (WUI) AS SPECIFIED IN THE APPLICABLE VERSION OF THE CALIFORNIA BUILDING CODE. PROVIDE PROTECTION AND DETAILS OF ALL AREAS COMPLYING WITH THE WUI REQUIREMENTS.
- 12. LOCATING THIS STRUCTURE CLOSER THAN 20 FEET TO OTHER STRUCTURES MAY AFFECT THE ALLOWABLE AREA FOR THE EXISTING CONSTRUCTION PER THE APPLICABLE VERSION OF THE CALIFORNIA BUILDING CODE.
- 13. VIEWS AND DETAILS ARE NOT DRAWN TO SCALE (UNLESS NOTED OTHERWISE). DO NOT SCALE THESE DRAWINGS.

#### STRUCTURAL AND MISCELLANEOUS STEEL:

- 1. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUE OF STEEL CONSTRUCTION (AISC) SPECIFICATION MANUAL REFERENCED BY THE LATEST EDITION OF THE
- 2. PIPE SECTIONS SHALL CONFORM TO ASTM A53, Fy = 35 KSI, GRADE B OR A501 UNLESS NOTED OTHERWISE.
- 3. STRUCTURAL TUBING (HSS SHAPES) SHALL CONFORM TO ASTM A-500, GRADE B (OR C), Fy = 46 KSI. MIN 4. IF MATERIAL AVAILABILITY IS LIMITED, MEMBER THICKNESS CAN BE INCREASED BEYOND WHAT IS SHOWN IN THESE DRAWINGS (MAXIMUM INCREASE OF 1/8").
- 5. ALL CHANNELS, ANGLES, AND MISC. STEEL SHALL CONFORM TO ASTM A-36, Fy  $\,=\,36\,$  KSI.
- 6. ALL PLATE STEEL SHALL CONFORM TO ASTM A-572, Fy= 50 KSI
- 7. ALL COLD FORM STEEL SHALL CONFORM TO ASTM A-653, CS = TYPE B, Fy = 50 KSI Fu = 65 KSI
- 8. STRUCTURAL STEEL AND DECK SHALL BE IDENTIFIED FOR CONFORMITY PER CBC 2202A.1.
- 9. ALL ROOF DECKS SHALL HAVE KYNAR 500 METAL COATING.
- 10.ALL ROOF DECKS SHALL CONFORM TO ASTM A-792, Fy = 50 KSI.
- 11.ALL BASE CONNECTIONS ARE A PART OF THE LATERAL FORCE RESISTING SYSTEM

#### NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEERING RESPONSIBILITY

- 1. 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. 2. FOR THE SITE SPECIFIC PROJECT, J. R. MILLER & ASSOCIATES IS NOT THE DESIGN PROFESSIONAL IN
- GENERAL RESPONSIBLE CHARGE. 3. 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 ONI 4. STRUCTURAL OBSERVATION OF CONSTRUCTION IS SPECIFICALLY EXCLUDED FROM J.R. MILLER & ASSOCIATES' RESPONSIBILITY FOR THE SITE SPECIFIC PROJECT.
- 5. 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, STRUCTURAL OBSERVATION OF CONSTRUCTION, REVIEW OF INSPECTION REPORTS,
- AND SIGNING OFF OF THE VERIFIED REPORT FOR COMPLETED WORK. 6. 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 NOTES

- 1. A DSA-CERTIFIED CLASS 3 (MINIMUM) PROJECT INSPECTOR IS REQUIRED FOR THIS PROJECT. 2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE
- DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
- 3. 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 DEFÍNED IN SECTION 4-342, PART 1, TITLE 24, CCR.
- 4. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT. 5. 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 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 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

- 1. ALL WELDING SHALL COMPLY WITH AWS D1.1 SPECIFICATIONS AND SHALL BE DONE BY AWS QUALIFIED WELDERS
- CERTIFIED FOR THE TYPE OF WELDING TO BE PERFORMED AS REQUIRED BY DSA. 2. ALL WELDING SHALL BE DONE BY GAS METAL ARC PROCESS WITH E70XX ELECTRODES. FLUX CORE ARC WELD
- SHALL CONFORM TO CHARPY NOTCH TOUGHNESS RATING OF 20 ft-16 @ ( 0° F). 3. ALL WELDING SHALL BE DONE IN THE SHOP WITH REQUIRED INSPECTION, PRE-APPROVED BY DSA, TO ENSURE
- 4. WELD FILLER METAL MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION OF COMPLIANCE WITH CODE AND

PROPER MATERIAL ID AND WELDING.

- 1. ALL BOLTS SHOWN ON THESE DRAWINGS ARE HOT DIPPED GALVANIZED ASTM F3125 GRADE A325 HIGH STRENGTH BOLTS (UNO), WITH THE NUTS CONFORMING TO HOT DIPPED GALVANIZED ASTM A-563 GRADE DH.
- 2. HIGH STRENGTH BOLTS SHALL BE VERIFIED AND INSPECTED PER CBC 1705A2.1
- 3. BEFORE ERECTING THE FRAME, VERIFY ALL BOLTS AND NUTS ARE CLEAN OF DEBRIS AND BURRS INCLUDING THE HARDWARE ALREADY FASTENED INSIDE THE MEMBERS. CHASING SOME OF THE BOLTS AND NUTS MAY BE
- 4. HARDENED STEEL WASHERS SHALL CONFORM TO ASTM F-436.
- 5. THE BOLTING INSTALLATION REQUIREMENTS OUTLINED BELOW ARE CRITICAL TO THE STRUCTURE'S DESIGN AND PERFORMANCE. THE INSTALLER IS REQUIRED TO COORDINATE THIS PHASE OF CONSTRUCTION WITH THE SPECIAL BOLTING INSPECTOR AND THE INSPECTOR OF RECORD PRIOR TO THE ERECTION OF THE FRAME
- BE INSTALLED AND INSPECTED PER THE APPLICABLE VERSION OF AISC'S USING HIGH-STRENGTH BOLTS", CBC 1705A.2.1; AISC 341-16 J7; AISC 360-16 N5.6.
  - A)PRETENSIONED JOINTS MUST BE INSTALLED AND INSPECTED TO MEET ONE OF THE FOLLOWING REQUIREMENTS 1. TURN-OF-NUT PRETENSIONING: PER SECTION 8.2.1 OF THE SPECIFIC ATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS, WASHERS ARE NOT REQUIRED FOR THIS METHOD, THE NUT OR HEAD SHALL BE
    - ROTATED AS SPECIFIED IN TABLE 8.2. THE PART NOT TURNED SHALL BE PREVENTED FROM ROTATING. 2. CALIBRATED WRENCH: PER THE <u>SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS</u>, WASHERS ARE REQUIRED (NOT SUPPLIED BY ICON) THESE SHALL BE INSTALLED PER THE INSTALLATION TORQUE DETERMINED IN THE PRE-INSTALLATION VERIFICATION OF THE FASTENER ASSEMBLY PER SECTION 7. THE PART NOT TURNED SHALL BE PREVENTED FROM ROTATING.
  - 3. IDENTIFIED ON THE FRAME CONNECTION DETAILS WITH "PT REQUIRED"
- B) ALL OTHER JOINTS MUST BE INSTALLED AND INSPECTED TO MEET THE REQUIREMENTS OF THE SNUG-TIGHTENED JOINTS. SNUG TIGHT CONDITION EXISTS WHEN ALL PLIES IN A CONNECTION HAVE BEEN PULLED INTO FIRM CONTACT BY THE BOLTS IN THE JOINT AND ALL OF THE BOLTS IN THE JOINT HAVE BEEN TIGHTENED SUFFICIENTLY TO PREVENT REMOVAL OF THE NUTS WITHOUT THE USE OF A WRENCH.

#### **FOUNDATIONS:**

- 1. ALLOWABLE SOIL PRESSURES ASSUME CLASS 5 SOIL CLASSIFICATION PER CBC TABLE 1806A, UNLESS NOTED OTHERWISE. PASSIVE PRESSURE IS ASSUMED TO START 12" BELOW TOP OF FOOTING.
- 2. 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 ZONESOR SIESMIC 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.
- 3. 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.
- 4. 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.
- 5. 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
- 6. PER CBC SECTION 1803A.6, GEOHAZARD 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 ZONESOR SIESMIC HAZARD ZONES AS SHOWN ON THE MOST RECENT MAPS PUBLISHED BY THE CGS.
- 7. GEOHAZRD REPORTS ARE TO COMPLY WITH DSA IR A-4 PER IR-7 SECTION 1.8 8. SITE SPECIFIC GEOTECHNICAL REPORT IS REQUIRED AT THE TIME OF SITE APPLICATION IF USING OTHER THAN
- CLASS 5 SOIL, PER DSA IR PC-7
- 9. LATERAL BEARING HAS BEEN INCREASED PER CBC 1806A.3.4 FOR THE 1/2" DEFLECTION & HAS BEEN DESIGNED FOR P-DELTA EFFECTS. NO 1/3 INCREASE HAS BEEN APPLIED.
- 10. MINIMUM CLEARANCE BETWEEN PIERS SHALL BE 8'-0".

#### <u>CONCRETE:</u>

1. MIX DESIGN REQUIREMENTS: (NORMAL WEIGHT CONCRETE)

STRENGTH Pc (28 DAYS)	W/C RATIO (NON-AIR ENTRAINED)	W/C RATIO (AIR ENTRAINED)	SLUMP (±1")	UNIT WEIGHT (NORMAL WEIGHT)		
5000 PSI	0.44	0.35	3"	150 PCF		

- 2. CONCRETE MIX DESIGN PARAMETERS ARE GOOD FOR EXPOSURE CATEGORIES FO, F1 & F2. THE AIR
- ENTRAINMENT FOR THESE CATEGORIES SHALL BE AS FOLLOWS: F0-0, F1-4.5, F2-6 3. CHANGES TO THE MIX DESIGN MUST BE APPROVED BY THE ENGINEER OR ARCHITECT OF RECORD AND DSA.
- 4. AGGREGATES SHALL CONFORM TO THE ASTM C-33 WITH PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN 0.005. MAX AGGREGATE SIZE = 1".
- 5. CEMENT SHALL CONFORM TO ASTM C-150 (TYPE V) UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- 6. 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
- 7. CONCRETE SHALL NOT FREE FALL MORE THAN FIVE FEET.
- 8. CONCRETE DURABILITY SHALL BE PER CBC 1904A.1 ACI 318-19, CHAPTER 19. 9. CONCRETE SHALL BE TESTED PER CBC 1903A, TABLE 1705A.3. AND ACI 318-19, SECTION 26.12.
- 10. NO ADMIXTURE SHALL CONTAIN CALCIUM CHLORIDE.

#### REINFORCING STEEL:

- 1. REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A-615,
- AS FOLLOWS:
- GR 60: (#4 BARS AND LARGER)
- 2. DETAILING, FABRICATION, AND ERECTION OF REINFORCING BARS SHALL CONFORM TO THE ACI
- "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES.
- 3. MIN. COVER FOR CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS: A. CAST AGAINST EARTH ......
  - B. CAST AGAINST FORM BELOW GRADE .....2
  - C. FORMED SLABS (#11 BAR & SMALLER)......3/4"
- 4. BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND. BENDS SHALL BE MADE
- 5. REINFORCING SHALL BE LAP SPLICED PER ACI 318-19, SECTION 25.5.

D. SLABS ON GRADE (FROM TOP OF SLAB)......1"

- 6. PRIOR TO PLACING OF CONCRETE, REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE WELL SECURED IN POSITION.
- 7. WELDING OF REINFORCING IS NOT ALLOWED.
- 8. REINFORCING STEEL SHALL BE INSPECTED PER CBC 1705A.3.

#### POWDER-COAT FINISH SYSTEM:

- ALL BUILDINGS THAT HAVE A POWDER-COATED FINISH SHALL MEET THE FOLLOWING SPECIFICATIONS:
- 1. THE STEEL FRAME (HSS SECTIONS, COLD FORMED & PLATE STEEL) SHALL BE SHOT-BLASTED TO A NEAR WHITE CONDITION PER SSPC-10 SPECIFICATIONS.
- 2. THE STEEL SHALL BE WASHED IN A ZINC PHOSPHATE IN AN MINIMUM THREE STAGE ELECTRO DEPOSITION PRE-TREATEMENT PROCESS.
- 3. IMMEDIATELY FOLLOWING PRE-TREATMENT THE STEEL SHALL BE TOTALLY COATED IN AN EPOXY PRIMER 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. 4. THE STEEL SHALL THEN HAVE A TGIC POLYESTER COLOR COAT APPLIED OVER THE E-COATED SURFACE.
- 5. THE FINISH THICKNESS OF THESE APPLICATIONS SHALL BE A MINIMUM OF 8 TO 12 MILS
- 6. ALL CARBON STEEL MEMBERS (COLUMNS, BEAMS, PLATES, & COLD FORMED STEEL 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

APPROVED IV. OF THE STATE ARCHITE APP: 02-122047 INC: REVIEWED FOR SS FLS ACS DATE: 05/09/2024

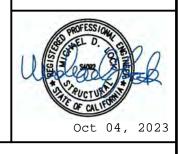
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A separate project application for construction is required.

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DIVISION OF THE STATE ARCHITECT

DGS DSA 103-22 (Revised 12/01/2022)

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PP: 02-122047 INC: REVIEWED FOR SS FLS ACS DATE: 05/09/2024

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ARCHITECTS ENGINEERS 2700 SATURN STIBREA, CA 9282 714.524.1870 | F. 714.524.1875 WWW.JRMA.COM

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1705/	A 103-22: LISTING OF STRUCTURAL TESTS A.\$1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, A			4; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8	170	5A 103-22: LISTING OI 5A.2.1, Table 1705A.2.1; AISC 30 plication Number:	3-16, AISC 341-16, AISC 358-16, AI School Name:			14; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, School District:	
04-12	olication Number: School Name: 122188 PC Update 1 File Number: Increment Number:			School District: PC Update Date Created:	04-	122188 A File Number:	PC Update Increment Number:			PC Update Date Created:	
	· · · · · · · · · · · · · · · · · · ·			2023-04-19 08:36:32		Test or Special Inspection		Туре	Performed Rv	2023-04-19 08:36:32  Code References and Notes	
	S/A3. WELDING:					·	ADDITION TO SECTION S/A3):	Турс	T CHOILICG By	Code Neterences and Notes	
<b>✓</b>	Test or Special Inspection  a. Verify weld filler material identification markings per	Type Periodic	Performed By	Code References and Notes  1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and A	AWS D1 8 for	Test or Special Inspection  a. Inspect groove welds, many		Type Continuous	Performed By SI	Code References and Notes  Table 1705A.2.1 Items 5a.1–4; AISC 360-	-16 (AISC 341-16 as
	AWS designation listed on the DSA-approved documents and the WPS.	remodic		structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold steel; AWS D1.4 for reinforcing steel; DSA IR 17-3.		fillet welds > 5/16", plug an  b. Inspect single-pass fillet	d slot welds.	Periodic	SI	applicable); DSA IR 17-3.  Table 1705A.2.1 Item 5a.5; AISC 360-16 (	
<b>V</b>	b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.						DSA IR 17-3.	
<b>V</b>	'	Periodic	SI	DSA IR 17-3.		c. Inspect end-welded stud (including bend test).	·	Periodic	SI	2213A.2; AISC 360-16 (AISC 341-16 as app 17-3.	
	S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):	:				d. Inspect floor and roof de		Periodic	SI	1705A.2.2, Table 1705A.2.1 Item 5a.6; A applicable); AWS D1.3; DSA IR 17-3.	
	Test or Special Inspection  a. Inspect groove welds, multi-pass fillet welds, single pass	Type Continuous	•	Code References and Notes  Table 1705 A.2.1 Items 5a.1-4; AISC 360-16 (and AISC 34)	1-16 as	e. Inspect welding of struct	ural cold-formed steel.	Periodic	SI*	1705A.2.5; AWS D1.3; DSA IR 17-3. The of AISI S240-20 Chapter D shall also apply. * I project inspector when specifically approx	May be performed by the
	fillet welds > 5/16", plug and slot welds.  b. Inspect single-pass fillet welds ≤ 5/16", floor and roof	Periodic	SI	applicable); DSA IR 17-3.  1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360-		f. Inspect welding of stairs a	and railing systems	Periodic	SI*	1705A.2.1; AISC 360-16 (AISC 341-16 as a	ŕ
	deck welds.			AISC 341-16 as applicable); DSA IR 17-3.		1. Inspect weiging of stalls of	and failing systems.	renouic	31	DSA IR 17-3. * May be performed by the pi specifically approved by DSA.	
	c. Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.1; AISC 360-16 (and AISC 341-16 as applicable); A D1.3; DSA IR 17-3.		g. Verification of reinforcing	g steel weldability.	Periodic	SI	1705A.3.1; AWS D1.4; DSA IR 17-3. Verify of reported on mill certificates.	carbon equivalent
	d. Verification of reinforcing steel weldability other than ASTM A706.  e. Inspect welding of reinforcing steel.	Periodic	SI SI	1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivaler on mill certificates.  Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item		h. Inspect welding of reinfo	rcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Tall 1903A.8; AWS D1.4; DSA IR 17-3.	ble 1705A.3 Item 2,
	e. Inspect weiging of remorting steel.	Continuous	31	1903A.8; AWS D1.4; DSA IR 17-3.	III 2,					15057.110,771.115.571.117.51	
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	SION OF THE STATE ARCHITECT DSA 103-22 (Revised 12/01/2022)		T OF GENERAL SERVIC Page 10 of 19	CES STATE C	OF CALIFORNIA	5 DSA 103-22 (Revised 12/01/2022)			ge 11 of 19	CES	STATE OF CALIFORNIA
	A 103-22: LISTING OF STRUCTURAL TESTS				DSA	A 103-22: LISTING OF	STRUCTURAL TESTS &	SPECIAL II	NSPECTION	IS (STEEL AND ALUMNINUM),	2022 CBC
Appl	A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, A lication Number: School Name:	AISC 360-16; AIS	S100-20; RCSC 201	4; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8  School District: PC Update		A.2.1, Table 1705A.2.1; AISC 303- lication Number:	16, AISC 341-16, AISC 358-16, AISC School Name:			k; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, A School District:	
	22188 PC Update File Number: Increment Number:			Date Created: 2023-04-19 08:36:32		22188 File Number:	PCUpdate Increment Number:			PC Update Date Created: 2023-04-19 08:36:32	
	Test or Special Inspection	Туре	Performed By	Code References and Notes		Test or Special Inspection		Туре Р	erformed By	Code References and Notes	
	S/A8. SPRAYED FIRE-RESISTANT MATERIALS:  Test or Special Inspection	Туре	Performed By	Code References and Notes		c. Storage rack anchorage in	stallation.	Periodic	SI	ANSI/MH16.1 Section 7.3.2; Table 1705A.13.	7
	a. Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify	Periodic	SI	1705A.15, 1705A.1, 1705A.2, 1705A.3, 1705A.4.		d. Completed storage rack sy with the approved construct		Periodic		Table 1705A.13.7; * May be preformed by the specifically approved by DSA.	ne project inspector when
	compliance of all aspects of application with DSA-approved documents.								N 1 /	<b>T</b>	
	b. Test density.	Test	LOR	1705A.15.1, 1705A.15.5, ASTM E736		S/A11. Other Steel  Test or Special Inspection		Туре	1/10	d Notes	
	c. Bond strength adhesion/cohesion.	Test	LOR	1705A.15.1, 1705A.15.4, ASTM E605		· · · · · · · · · · · · · · · · · · ·		,,			
	S/A9. ANCHOR BOLTS AND ANCHOR RODS:		T						US		
<b>V</b>	Test or Special Inspection  a. Anchor Bolts and Anchor Rods	Type Test	Performed By  LOR	Code References and Notes  Sample and test anchor bolts and anchor rods not readily in	dentifiable						
	b. Threaded rod not used for foundation anchorage.	Test	LOR	per procedures noted in DSA IR 17-11.  Sample and test threaded rods not readily identifiable per procedures.	procedures						
				noted in DSA IR 17-11.							
	S/A10. STORAGE RACK SYSTEMS:  Test or Special Inspection	Туре	Performed By	Code References and Notes							
	a. Materials used, to verify compliance with one or more	Periodic	SI	Table 1705A.13.7							
	of the material test reports in accordance with the approved construction documents.										
	b. Fabricated storage rack elements.	Periodic	SI	1704A.2.5; Table 1705A.13.7							
	ION OF THE STATE ARCHITECT DSA 103-22 (Revised 12/01/2022)		OF GENERAL SERVIC	CES STATE C	DF CALIFORNIA						
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_	Appendix: Work Exempt from DSA Requirer Application Number: School Name:	ments for S	tructural Test	ts / Special Inspections School District:	04	oplication Number: -122188 5A File Number:	School Name: PC Update Increment Number:			School District: PC Update Date Created:	
0				PC Update Date Created:						2023-04-19 08:36:32	
	04-122188 PC Update DSA File Number: Increment Number:					CONCRETE/MASONR					
E	04-122188 PC Update	ncluding DSA	amendments) a	2023-04-19 08:36:32	y the	5. Testing of reinforcing		given in CBC Se	ection 1910A.2	subject to the requirements and limitati	ons
c <u>k</u>	04-122188 PC Update DSA File Number: Increment Number:  Exempt items given in DSA IR A-22 or the 2019 CBC (ir design professional are NOT subject to DSA requirements be identified on the approved construction documents.	ents for the st	ructural tests / sp	2023-04-19 08:36:32 nd those items identified below with a check mark by pecial inspections noted. <u>Items marked as exempt s</u>	shall			given in CBC Se	ection 1910A.2	subject to the requirements and limitati	ons
c <u>k</u>	DSA File Number:  Exempt items given in DSA IR A-22 or the 2019 CBC (ir design professional are NOT subject to DSA requirement be identified on the approved construction documents.	ents for the st	ructural tests / sp	2023-04-19 08:36:32 nd those items identified below with a check mark by pecial inspections noted. <u>Items marked as exempt s</u>	shall	5. Testing of reinforcing in that section.  WELDING:	bars is not required for items o				
c <u>k</u>	DSA File Number:  Exempt items given in DSA IR A-22 or the 2019 CBC (ir design professional are NOT subject to DSA requirement be identified on the approved construction documents.  SOILS:  1. Deep foundations acting as a cantilever footing w	ents for the st nents. The pro ith a design ba	ructural tests / spoject inspector sh	nd those items identified below with a check mark by pecial inspections noted. Items marked as exempt shall verify all construction complies with the approve allowable pressures per CBC Table 1806A.2 and without a	shall d	5. Testing of reinforcing in that section.  WELDING:  1. Solid-clad and open-n less than 8'-0" above low	bars is not required for items of the second	um leaf span cated above circ	of 10', and gate	subject to the requirements and limitations in the subject to the requirements and limitations and limitations and limitations are subject to the requirements are subject tof the requirements are subject to the requirements are subject to	all having an apex height
c <u>k</u>	DSA File Number:  Exempt items given in DSA IR A-22 or the 2019 CBC (in design professional are NOT subject to DSA requirement be identified on the approved construction documents.  SOILS:  1. Deep foundations acting as a cantilever footing we geotechnical report for the following cases: A) free states.	ents for the st nents. The pro ith a design ba tanding sign o	ructural tests / spoject inspector shows a sed on minimum ar scoreboard, B) cele-story structure v	2023-04-19 08:36:32  Ind those items identified below with a check mark by pecial inspections noted. Items marked as exempts and verify all construction complies with the approve allowable pressures per CBC Table 1806A.2 and without a cell or antenna towers and poles less than 35'-0" tall (e.g., light) dead load less than 5 psf (e.g., open fabric shade stru	shall d	5. Testing of reinforcing in that section.  WELDING:  1. Solid-clad and open-n less than 8'-0" above low gate/fence height (max 2. Handrails, guardrails, a	bars is not required for items of nesh fences, gates with maxim yest adjacent grade. When loca 8'-0") to the edge of floor or ro	um leaf span o ated above circ of. mps associated	of 10', and gate culation or occi	s with a maximum rolling section of 10' a upied space below, these gates/fences a surfaces less than 30" above adjacent gra	all having an apex height re not located within 1.5x
c <u>k</u>	DSA File Number:  Exempt items given in DSA IR A-22 or the 2019 CBC (in design professional are NOT subject to DSA requiremed be identified on the approved construction documents.  SOILS:  1. Deep foundations acting as a cantilever footing we geotechnical report for the following cases: A) free strong poles, flag poles, poles supporting open mesh fence or D) covered walkway structure with an apex height.	ents for the standard ith a design batanding sign outs, etc.), C) singlet less than 10'-	ructural tests / spoject inspector shopector shopector shopector shopector shopector shopector seed on minimum ar scoreboard, B) celestory structure volume adjacent ad testing by a Geo	allowable pressures per CBC Table 1806A.2 and without a cell or antenna towers and poles less than 35'-0" tall (e.g., liewith dead load less than 5 psf (e.g., open fabric shade strugrade.	shall id  ghting icture),	5. Testing of reinforcing in that section.  WELDING:  1. Solid-clad and open-n less than 8'-0" above low gate/fence height (max connections per the 'Exception of the 'Excepti	bars is not required for items of nesh fences, gates with maximy yest adjacent grade. When loca 8'-0") to the edge of floor or ro and modular or relocatable rar eption' language in Section 17	um leaf span o ated above circ of. mps associated 705A.2.1); fillet	of 10', and gate culation or occo d with walking s welds shall no	s with a maximum rolling section of 10' a upied space below, these gates/fences a surfaces less than 30" above adjacent gra	all having an apex height re not located within 1.5x ade (excluding post base
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DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMNINUM), 2022 CBC 1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8 Application Number: School Name: School District: PC Update 04-122188 PC Update DSA File Number: Increment Number: Date Created: 2023-04-19 08:36:32 Test or Special Inspection Type Performed By Code References and Notes S/A6. NONDESTRUCTIVE TESTING: Performed By | Code References and Notes | Test or Special Inspection Type Test 1705A.2.1, 1705A.2.5, AISC 341-16 J6.2, AISC 360-16 N5.5; AWS a. Ultrasonic D1.1, AWS D1.8; D8A IR 17-2. 1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS b. Magnetic Particle D1.1, AWS D1.8; DSA IR 17-2. Test LOR S/A7. STEEL JOISTS AND TRUSSES: Performed By Code References and Notes Test or Special Inspection 1705A.2.3, Table 1705A.2.3; AWS D1.1; DSA IR 22-3 for steel joists a. Verify size, type and grade for all chord and web I.1 & D1.3; members as well as connectors and weld filler material: only. 1705A.2.4; AWS D1.3 for cold-formed steel trusses. verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist. STATE OF CALIFORNIA DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES Page 12 of 19 Des DSA 103-22 (Revised 12/01/2022) DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (OTHER), 2022 CBC Application Number: School Name:

DSA File Number: Increment Number: Date Created: 2023-04-19 08:36:32 X1. OTHER: Performed By Code References and Notes Test or Special Inspection a. Load test for identified product(s): Test 1709A.2, 1709A.3. Testing is not required for: 1) a product with a valid evaluation service report per DSA IR A-5, or 2) a product that can be justified by structural calculation. Applicable to communication towers identified as Essential Service b. Installation torque for non-HS bolts Continuous Facility Projects (ESFP). Calibrated wrench use required, verified by SI during installation. DSA Policy PL 18-01: Communication Towers, Poles and Buildings Utilized by State Agencies for Essential Services Communications.*EXCEPTION: Non-ESFP may use PI without need for notification to DSA.

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

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

PC Update

Increment Number:

04-122188

Application Number:

Name of Architect or Engineer in general responsible charge:

Signature of Architect or Structural Engineer:

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

04-122188 DSA File Number: PC Update

PC Update

School District: PC Update

2023-04-19 08:36:32

Date Created:

DRAWN BY /25/2023 DATE REV REV DATE

APPROVED DIV. OF THE STATE ARCHITEC APP: 02-122047 INC:

REVIEWED FOR

SS FLS ACS DATE: 05/09/2024

ARCHITECTS ENGINEERS 2700 SATURN ST I BREA, CA 92821 T. 714.524.1870 | F. 714.524.1875 WWW.JRMA.COM

DIV. OF THE STATE ARCHITEC APP: 04-122375 PC SS I PLS I ACS I CG

DISTINCTIVE STEEL SHELTERS COPYRIGHT 2004, ICON SHELTER

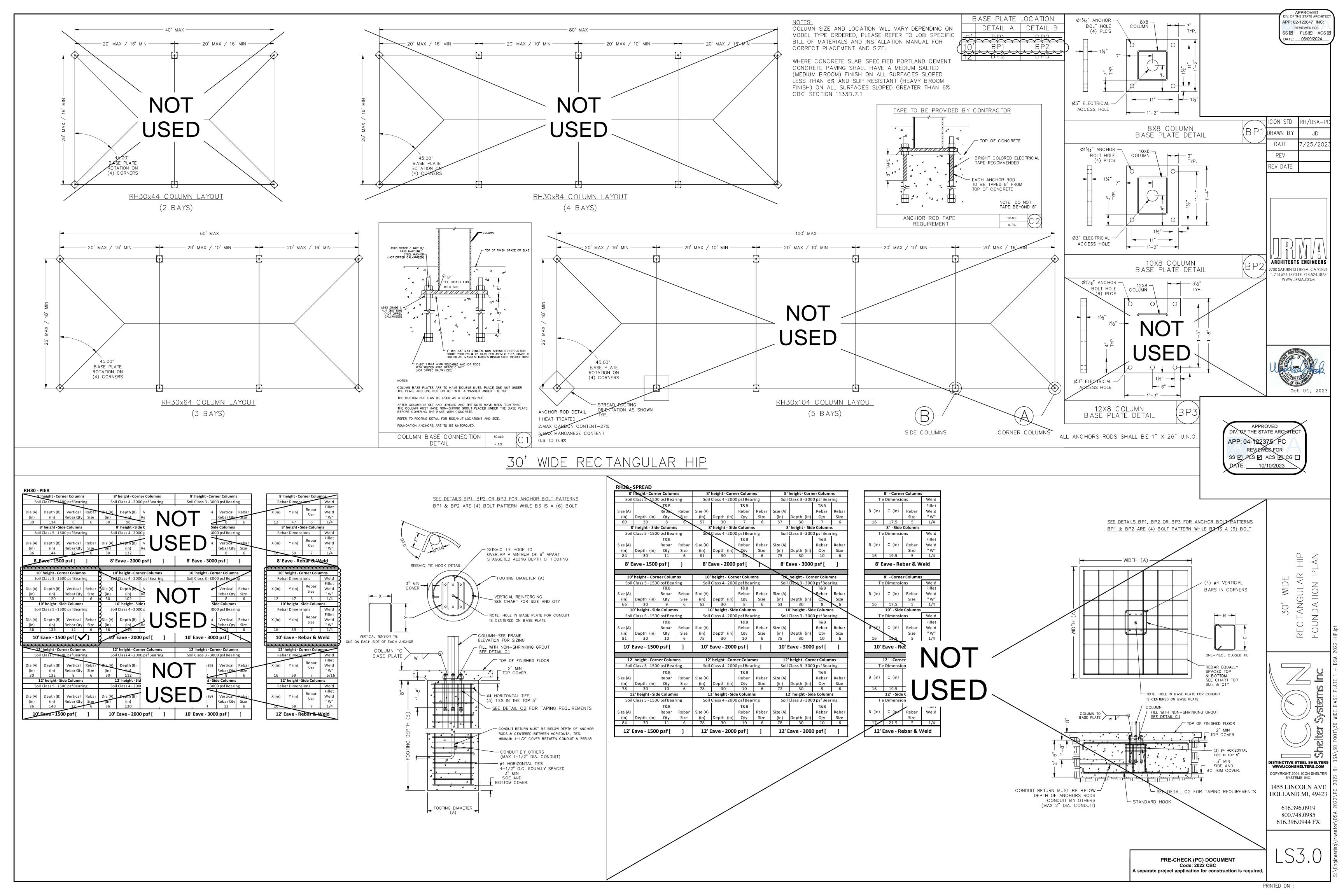
1455 LINCOLN AVE HOLLAND MI, 49423 616.396.0919

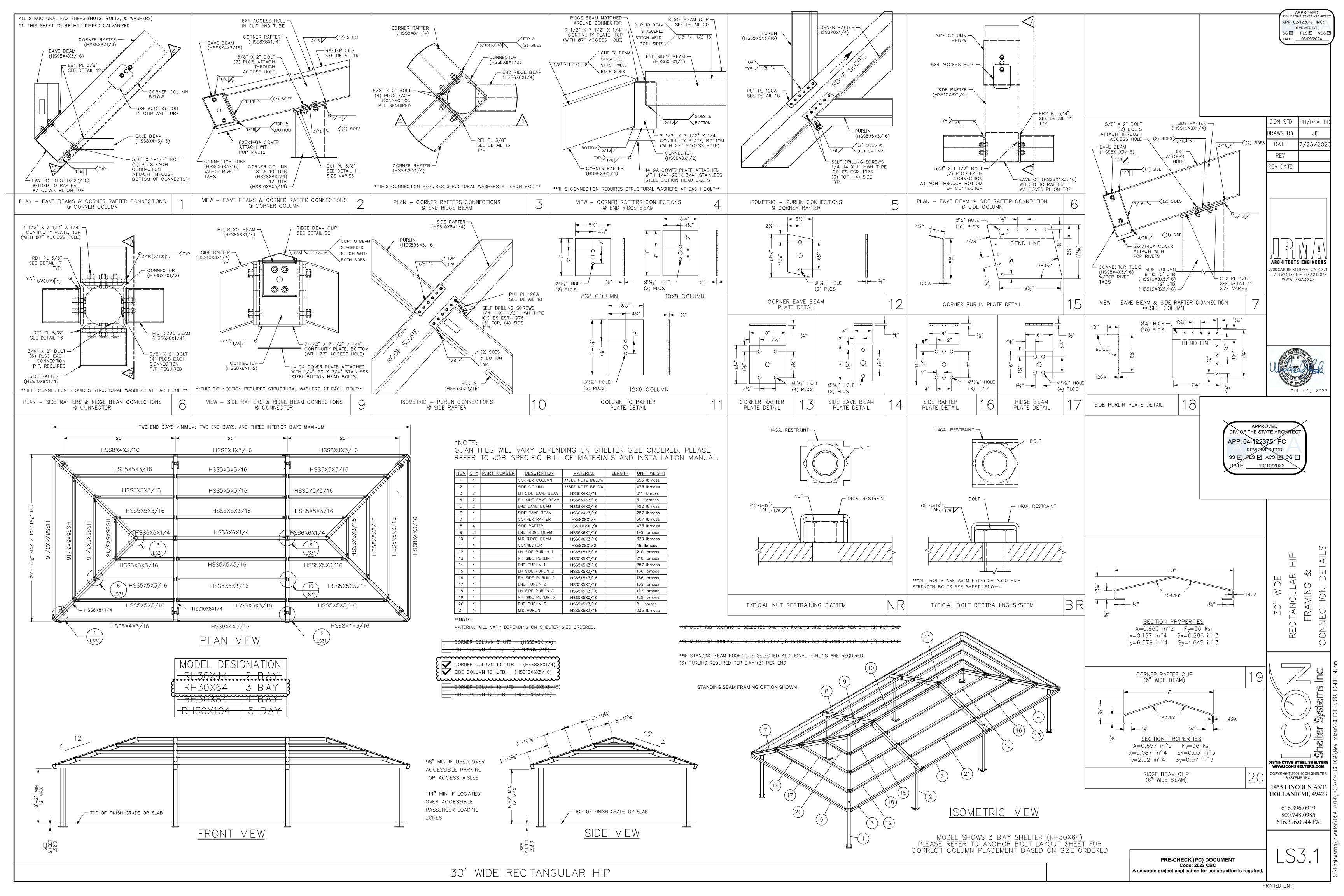
800.748.0985 616.396.0944 FX

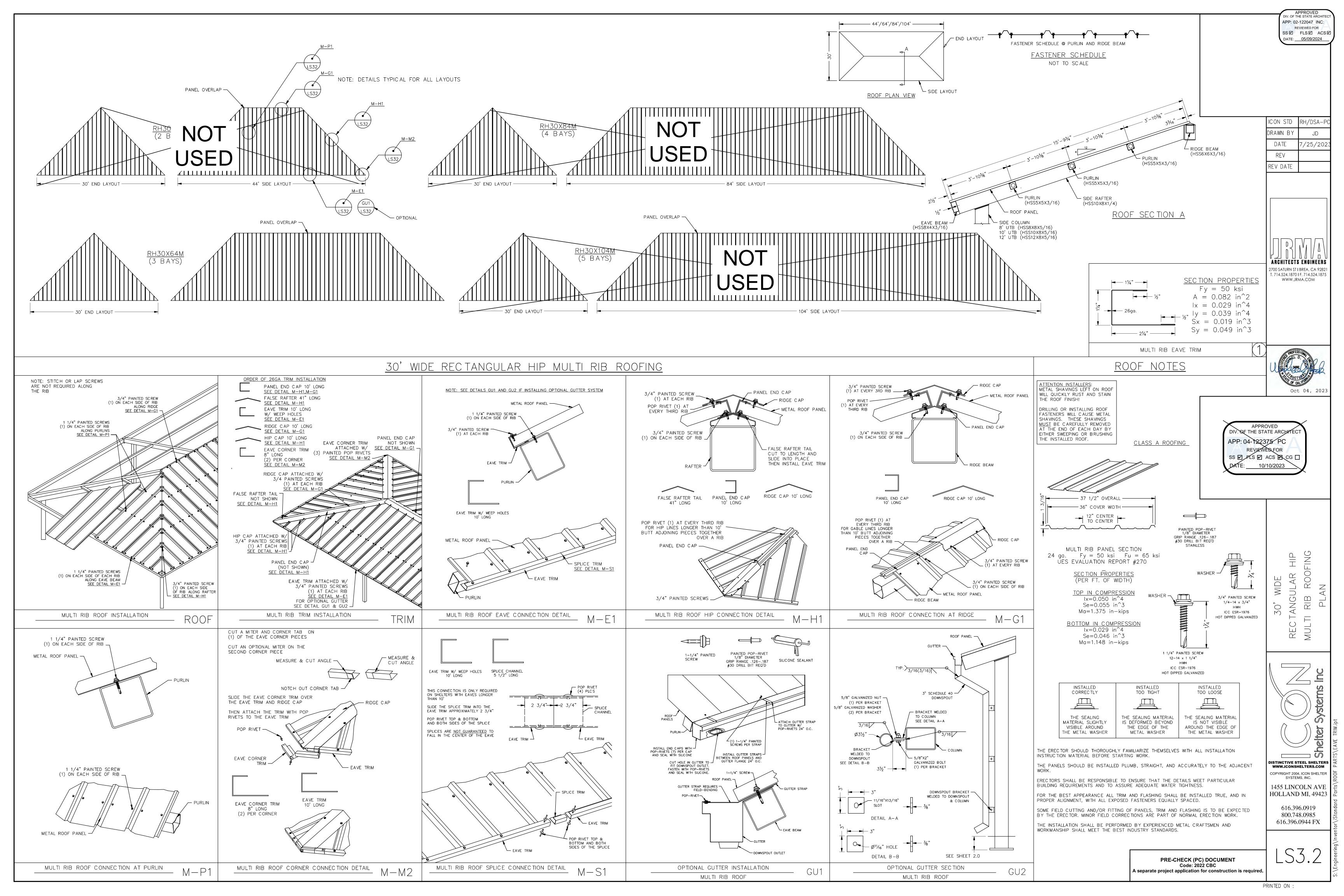
PRE-CHECK (PC) DOCUMENT

DSA STAMP

A separate project application for construction is required.







IF YOU HAVE SPECIAL ELECTRICAL REQUIREMENTS, PLEASE OUTLINE ANY CHANGES BELOW AS DESCRIBED.

ICON'S STANDARD ELECTRICAL IS DESIGNED TO ACCOMMODATE Ø1/2" CONDUIT WITH A Ø3" INLET HOLE ON THE BOTTOM OF EACH COLUMN.

CONDUIT PATHWAY -

COLUMN.

PROVIDED FOR EACH

THE CONDUIT PATHWAY RUNS THROUGH THE COLUMN, RAFTER, AND RIDGE BEAM THROUGH ALL BOLTED CONNECTIONS AS SHOWN.

POP-RIVET

:+18" @ EACH

- COLUMN

- BASE PLATE

PROVIDE GROUNDING PER CEC ARTICLE 250

BASE DETAIL

CONDUIT

(NOT BY ICON)

−Ø3" HOLE THROUGH

EACH COLUMN BASE

COVER PLATE

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)

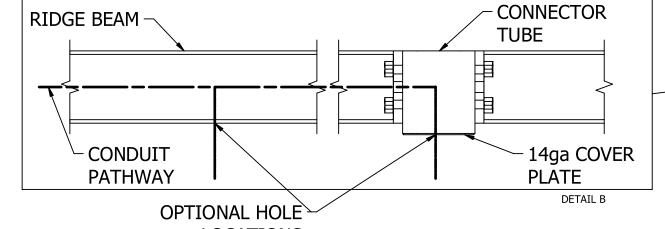
PLEASE NOTE: DESIGN LIMITATIONS ON HOLE/CUTOUT SIZES MAY APPLY. ICON WILL REACH OUT TO DISCUSS ANY SUCH LIMITATIONS AS NEEDED.

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.

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.

CONDUIT **PATHWAY** 



LOCATIONS

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

✓ 3/4" CONDUIT (1" HOLES)

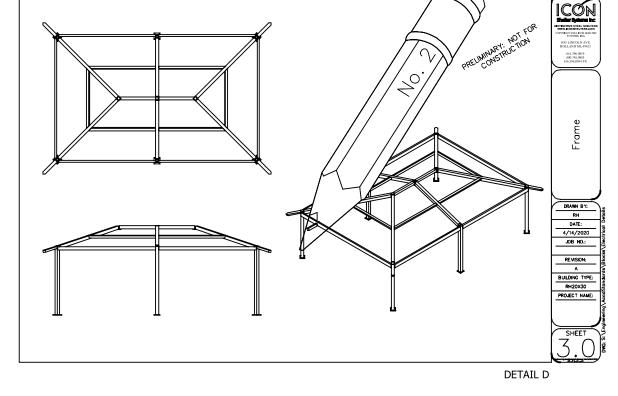
☐ 1" CONDUIT (1 1/4" HOLES)

.....

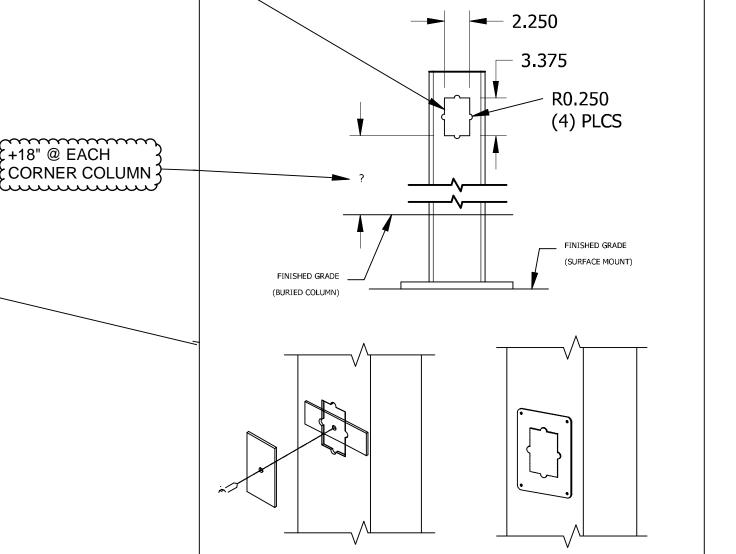
NOTE: BUILDING DEPICTED ON THIS SHEET FOR ILLUSTRATION PURPOSES ONLY. ACTUAL LAYOUT AND FRAME MEMBER QUANTITIES VARY BY DESIGN. PLEASE REFER TO <u>ELEVATION</u> AND <u>FRAME</u> SHEETS

IN THIS PRELIMINARY FOR ORDER-SPECIFIC CONFIGURATION.

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



(4) COVER PLATES PROVIDED UPON REQUEST (CHARGES APPLY)

PLEASE SPECIFY TYPE AND QUANTITY REQUIRED:

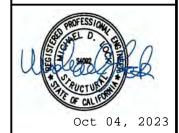
✓ POP-RIVET COVER PLATE (STAINLESS POP RIVET) HOW MANY REQUIRED? 4

POP-RIVET COVER

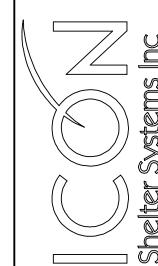
REV DATE

REVIEWED FOR

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PRE-CHECK (PC) DOCUMENT Code: 2022 CBC

A separate project application for construction is required.