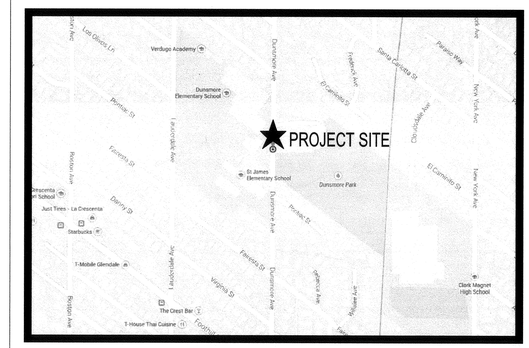
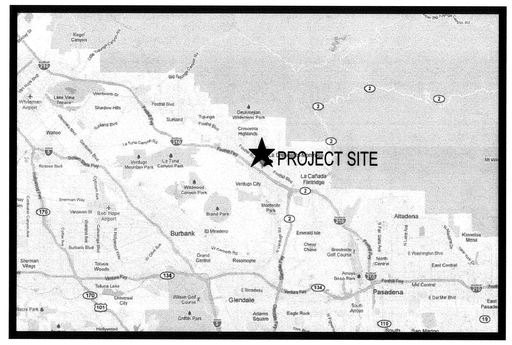
KINDERGARTEN SHADE STRUCUTRES
DUNSMORE ELEMENTARY SCHOOL

4717 DUNSMORE AVENUE, LA CRESCENTA, CALIFORNIA

GLENDALE UNIFIED SCHOOL DISTRICT



VICINITY MAP



REGIONAL MAP

north

tBP /Architecture

4611 Teller Avenue - Newport Beach - California - 92660
http://www.tbparchitecture.com
ph: 949.673.0300 - fx: 949.732.3895

Architecture
Planning
Interiors

tBP architecture planning interiors

IBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
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architect

consultant

FILE NO.: 19-41
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES
03-119278
AC MP FLS EL SS VC
DATE AUG 29 2018

DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

DUNSMORE ELEMENTARY SCHOOL
KINDERGARTEN SHADE STRUCTURES

GLENDALE UNIFIED SCHOOL DISTRICT
4717 DUNSMORE AVE.
LA CRESCENTA, CA 91214

owner

tBP project number : 20907.01
file name:
drawn by: checked by:
date: August 14, 2018

Rev:	date:	description:

drawing title:
COVER SHEET

drawing no.:
T-1
drawing of

ABBREVIATIONS

&	AND	(E)	EXISTING	K	KIP (1000 LB)	R.	RISER
∠	ANGLE	EA.	EACH	KIT.	KITCHEN	RAD.	RADIUS
@	AT	E.J.	EXPANSION JOINT	KO	KNOCKOUT	R.D.	ROOF DRAIN
℄	CENTERLINE	ELEC.	ELECTRICAL	KVA	KILOVOLT AMPERE	RDWD.	REDWOOD
ϕ	DIAMETER OR ROUND	ELEV.	ELEVATION			REF.	REFERENCE
#	NUMBER	EMER.	EMERGENCY	LAB.	LABORATORY	REFR.	REFRIGERATOR
		ENCL.	ENCLOSURE	LAM.	LAMINATED	REG.	REGISTER
AB	ANCHOR BOLT	ENG	ENGINEER	LAV.	LAVATORY	REINF.	REINFORCING
AC	ASPHALTIC CONCRETE	ENGY	ENERGY	LB.	POUND	REQD.	REQUIRED
ACP	ACOUSTICAL PANEL	ENTR	ENTRANCE	LDG	LANDING	RESIL.	RESILIENT
ACT	ACOUSTICAL TILE	EP	EPOXY ENAMEL	LL	LIVE LOAD	RET	RETURN
ACOUS	ACOUSTICAL	EQ.	EQUAL	LT	LIGHT	REV.	REVERSE
AD	AREA DRAIN	EQUIP.	EQUIPMENT	LTF	LINOLEUM TILE FLOORING	RFG	ROOFING
ADH	ADHESIVE	EST.	ESTIMATE	LTG	LIGHTING	RM.	ROOM
ADJ	ADJACENT	E.W.C.	ELECTRIC WATER COOLER	LVL	LEVEL	R.O.	ROUGH OPENING
AFF	ABOVE FINISH FLOOR	EWH	ELECTRIC WATER HEATER	LVR	LOUVER	R.T.F.	RUBBER TILE FLOORING
AFP	ACCORDIAN-FOLDING PARTITION	EXH	EXHAUST				
AGGR	AGGREGATE	EXIST.	EXISTING	MAINT	MAINTENANCE	S.B.	SPLASH BLOCK
ALT	ALTERNATE	EXP.	EXPANSION	MAN	MANUAL	S.C.	SOLID CORE
ALUM	ALUMINUM	EXPSD.	EXPOSED	MAS	MASONRY	SCHED.	SCHEDULE
AMP	AMPERE	EXT.	EXTERIOR	MATL.	MATERIAL	SCN	SOLID CORE NATURAL FINISH
ANOD	ANODIZED			MAX.	MAXIMUM	SCP	SOLID CORE PAINT FINISH
APPROX	APPROXIMATELY	F	FACTORY FINISH	MCC	MOTOR CONTROL CENTER	SCPL	SOLID CORE P.LAM FINISH
ARCH	ARCHITECT	F.A.	FIRE ALARM	MECH.	MECHANICAL	S.D.	STORM DRAIN
ASB	ASBESTOS	FC	FOOTCANDLE	MED	MEDIUM	SECT.	SECTION
ASSY	ASSEMBLY	F.D.	FLOOR DRAIN	MEZZ	MEZZANINE	SF	SQUARE FOOT
		FDC	FIRE DEPARTMENT CONNECTION	MFR.	MANUFACTURER	SHT.	SHEET
BAT	BATTERY	FDN	FOUNDATION	MH	MANHOLE	SIM.	SIMILAR
BBD	BULLETIN BOARD	F.E.	FIRE EXTINGUISHER	MIN.	MINIMUM	SLR	SEALER
BD	BOARD	F.E.C.	FIRE EXTINGUISHER CABINET	MIR	MIRROR	SPEC.	SPECIFICATIONS
BLDG	BUILDING	F.F.	FINISH FLOOR	MISC.	MISCELLANEOUS	SPLY	SUPPLY
BLKG	BLOCKING	F.G.	FINISHED GRADE	MKR	MARKER	SQ.	SQUARE
BLO	BLOWER	F.H.	FIRE HYDRANT	MTL.	METAL	S.SK.	SERVICE SINK
BLR	BOILER	FIN.	FINISH	MTD.	MOUNTED	SST.	STAINLESS STEEL
BLW	BELOW	F.L.	FLOW LINE	MUL.	MULLION	ST	STREET
BM	BEAM	FLASH.	FLASHING	MVBL	MOVABLE	STAG	STAGGERED
BO	BOTTOM OF	FLR.	FLOOR			STC	SOUND TRANSMISSION CLASS
BRKR	BREAKER	FLUOR.	FLUORESCENT	(N)	NEW	STD.	STANDARD
BTU	BRITISH THERMAL UNIT	F.O.	FACE OF	NAT.	NATURAL	STL.	STEEL
BUR	BUILT UP ROOFING	F.O.C.	FACE OF CONCRETE	NEG	NEGATIVE	STN	STAIN FINISH
		F.O.F.	FACE OF FINISH	N.I.C.	NOT IN CONTRACT	STOR	STORAGE
CAB	CABINET	F.O.M.	FACE OF MASONRY	NO.	NUMBER	STRUCT.	STRUCTURAL
CARP	CARPET	F.O.S.	FACE OF STUD	NOM.	NOMINAL	SURF	SURFACE
CAT	CATALOG	FPP	FOLDING PANEL PARTITION	N.T.S.	NOT TO SCALE	SUSP.	SUSPENDED
CB	CATCH BASIN	FPW	FOLDING PANEL WOOD DOOR			SV	SHEET VINYL
CEM	CEMENT	F.R.	FIRE RETARDANT	O.A.	OVERALL	SWBD	SWITCHBOARD
CF	CURB FACE	F.R.A.	FIRE RATED ASSEMBLY	O.C.	ON CENTER	SWGR	SWITCHGEAR
CFM	CUBIC FEET PER MINUTE	F.R.P.	FIBERGLASS REINFORCED PANEL	O.D.	OUTSIDE DIAMETER	SWR	SEWER
CHBD	CHALKBOARD	F.S.	FLOOR SINK	O.F.	OVERFLOW DRAIN	SYM.	SYMBOL
CHEM	CHEMICAL	FT.	FOOT OR FEET	OFCI	OWNER FURNISHED-CONTRACTOR INSTALLED	SYS	SYSTEM
CHWR	CHILLED WATER RETURN	FTG.	FOOTING				
CHWS	CHILLED WATER SUPPLY	FURR.	FURRING	OFF	OFFICE	T.	TREAD
CI	CAST IRON	FXTR	FIXTURE	OFOI	OWNER FURNISHED-OWNER INSTALLED	T. & B.	TOP AND BOTTOM
CIR	CIRCLE					T. & G.	TONGUE AND GROOVE
CJ	CONTROL JOINT	G.	GAS	OPNG.	OPENING	T.C.	TOP OF CURB
CL	CENTERLINE	GA.	GAGE	OPP.	OPPOSITE	TD	TRENCH DRAIN
CLG	CEILING	GALV.	GALVANIZED	OVHD	OVERHEAD	TECH	TECHNICAL
CLO	CLOSET	GB	GRAB BAR			TEL.	TELEPHONE
CLRM	CLASSROOM	G.I.	GALVANIZED IRON	PART.	PARTITION	TEMP.	TEMPERATURE
CMT	CERAMIC MOSAIC TILE	GL.	GLASS	PB	PULL BOX	T.G.	TOP OF GRATE
CMU	CONCRETE MASONRY UNIT	GLU.LAM.	GLUE LAMINATED	PBD	PARTICLEBOARD	THK	THICK
CND	CONDUIT	GND.	GROUND	PC	PORTLAND CEMENT	THRES.	THRESHOLD
CO	CLEANOUT	GPM	GALLONS PER MINUTE	PD	PLANTER DRAIN	THRU	THROUGH
COL	COLUMN	GR.	GRADE	PERF	PERFORATED	TKBD	TACKBOARD
COMM	COMMUNICATION	GYP.	GYPSUM	PERP	PERPENDICULAR	T.O.	TOP OF
COMP	COMPOSITION			PE	PAINT EGGSHELL	T.O.P.	TOP OF PARAPET
CONC	CONCRETE	H.B.	HOSE BIBB	PF	PAINT FLAT	TOT	TOTAL
CONF	CONFERENCE	HCN	HOLLOW CORE NATURAL FINISH	PG	PAINT GLOSS	T.P.	TOP OF PAVING
CONN	CONNECTION	HCP	HOLLOW CORE PAINT FINISH	P.H.	PANIC HARDWARE	TRNSF.	TRANSFORMER
CONT	CONTINUOUS	HDBD.	HARDBOARD	PIV	POST INDICATOR VALVE	TW	TOP OF WALL
CONTR	CONTRACTOR	HDR	HEADER	P.L.	PROPERTY LINE	TYP.	TYPICAL
COORD	COORDINATE	HDW.	HARDWARE	PL.	PLATE		
CORR	CORRIDOR	HDWD.	HARDWOOD	P.LAM.	PLASTIC LAMINATE	UGND	UNDERGROUND
COV	COVER	HGT.	HEIGHT	PLAS.	PLASTER	UNFIN.	UNFINISHED
CP	CONTROL PANEL	H.M.	HOLLOW METAL	PLAT.	PLATFORM	U.N.O.	UNLESS NOTED OTHERWISE
CR	CONDENSATE RETURN	HORIZ.	HORIZONTAL	PLBG	PLUMBING	U.O.S.	UNDERSIDE OF STRUCTURE
CSWK	CASEWORK	HP	HORSEPOWER	PLF	POUNDS PER LINEAR FOOT	UR.	URINAL
CT	CERAMIC TILE	HR.	HOUR	PLYWD.	PLYWOOD	UTIL	UTILITY
CTSK	COUNTERSUNK	HTG.	HEATING	PNL	PANEL		
CTV	CABLE TELEVISION	HTWR	HOT WATER RETURN	POS	POSITIVE	V	VOLT
CW	COLD WATER	HTWS	HOT WATER SUPPLY	PR.	PAIR	VAC	VACUUM
		HVAC	HEATING, VENTILATING, AIR CONDITIONING	PREFAB	PREFABRICATED	VAV	VARIABLE AIR VOLUME
DBL	DOUBLE			PREFIN	PREFINISHED	V.C.T.	VINYL COMPOSITION TILE
DEMO	DEMOLITION	HVY	HEAVY	PRELIM	PRELIMINARY	VERT.	VERTICAL
DEPT	DEPARTMENT	HW	HOT WATER	PROJ	PROJECT	VEST.	VESTIBULE
DET	DETAIL			PSF	POUNDS PER SQUARE FOOT	VFWC	VINYL FABRIC WALL COVERING
DF	DRINKING FOUNTAIN	I.D.	INSIDE DIAMETER	PSG	PAINT SEMI-GLOSS		
DG	DECOMPOSED GRANITE	I.E.	INVERT ELEVATION	PSI	POUNDS PER SQUARE INCH	W	WATT
DIA	DIAMETER	INSUL.	INSULATION	PVC	POLYVINYL CHLORIDE	W/	WITH
DIM	DIMENSION	INT.	INTERIOR			W.C.	WATER CLOSET
DISP.	DISPENSER	INV.	INVERT	Q.T.	QUARRY TILE	WD.	WOOD
DIST.	DISTANCE	IW	IRRIGATION WATER	QTY	QUANTITY	WDW.	WINDOW
DIV.	DIVISION					WHSE	WAREHOUSE
D.L.	DEAD LOAD	JAN.	JANITOR			WL	WIND LOAD
DN.	DOWN	JCT.	JUNCTION			WLD	WELDED
DS.	DOWN SPOUT	JT.	JOINT			WP	WORKING POINT
DWG.	DRAWING					WPG	WATERPROOFING
						WR	WATER RESISTANT
						WSCT.	WAINSCOT
						WT	WEIGHT
						W.W.F.	WELDED WIRE FABRIC
						XFMR	TRANSFORMER

DRAWING LIST

(TOTAL NO. OF DRAWINGS - 15)

* = PRE-CHECKED (PC) DOCUMENTS

GENERAL (NO. OF DRAWINGS - 3)

ARCHITECTURAL DRAWINGS (NO. OF DRAWINGS - 3)

* 10x30 & 10x20 SHADE STRUCTURE (NO. OF DRAWINGS -9)

Statement of General Conformance

(Application No. 03-119278 File No. 19-41)

☒ The drawings or sheets listed on the cover or index sheet [marked by asterisk (*)]
☐ This drawing, page of specifications/calculations

have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

1) design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and

2) coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

This Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1. (Title 24, Part 1, Section 4-317 (b))

I find that: ☒ All drawings or sheets listed on the cover or index sheet ☐ This drawing or page

☒ is/are in general conformance with the project design, and ☒ has/have been coordinated with the project plans and specifications.	☐ is/are in general conformance with the project design intent, and ☐ has/have been coordinated with the project plans and specifications.
Signature: [signature] Date: 8/14/18	Signature Date
Architect or Engineer designated to be in general responsible charge	Architect or Engineer delegated responsibility for this portion of the work
Print Name: HUNG L. CHENG	Print Name
License Number: C 34187 Expiration Date: 4-30-19	License Number Expiration Date

SUMMARY OF WORK

- PROJECT CONSISTS OF PLACING (1) PRE-CHECKED 10'x20' SHADE STRUCTURE AND (1) PRE-CHECKED 10'x30' SHADE STRUCTURE ONTO THE EXISTING CAMPUS. INCLUDES CONCRETE FOUNDATIONS AND SITE UPGRADES. PC# ~~02-113593~~ 02-113593.
- ALTERATIONS TO (E) BUILDING NO. 2.

CODE ANALYSIS

OCCUPANCY GROUP: E
CONSTRUCTION TYPE: TYPE V-B, NON-SPRINKLERED

ALLOWABLE HEIGHT PER TABLE 504.3
ALLOWABLE NUMBER OF STORIES PER TABLE 504.4

	ALLOWABLE	ACTUAL
NUMBER OF STORIES	1	1
BUILDING HEIGHT	40'-0"	12'-0"

ALLOWABLE AREA PER TABLE 506.2

ALLOWABLE BUILDING AREA	
BASIC ALLOWABLE AREA A(t)	9,500 S.F.
FRONTAGE INCREASE:	NOT USED
SPRINKLER INCREASE:	NOT USED
TOTAL ALLOWABLE AREA A(a)	9,500 S.F.
(E) BUILDING 2 AREA	3,833 S.F.
(N) SHADE STRUCTURES AREA	500 S.F.
ACTUAL BUILDING AREA	4,333 S.F.

GENERAL NOTES

ALL WORK TO CONFORM TO 2016 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENTS APPROVED BY THE DIVISIONS OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

A 'DSA CERTIFIED' PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24 CCR).

A 'DSA CERTIFIED' INSPECTOR WITH CLASS (3) CERTIFICATION IS REQUIRED FOR THIS PROJECT.

A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE SCHOOL BOARD SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATIONS, REHABILITATION, OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITION SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISH WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD) OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING ANF 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.

APPLICABLE CODES

APPLICABLE CODES AS OF JANUARY 1, 2017:

2016 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.

2016 CALIFORNIA BUILDING CODE (C.B.C.), PART 2, TITLE 24 C.C.R.
(2015 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ELECTRICAL CODE (C.E.C.), PART 3, TITLE 24 C.C.R.
(2014 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA)

2016 CALIFORNIA MECHANICAL CODE (C.M.C.), PART 4, TITLE 24 C.C.R.
(2015 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)

2016 CALIFORNIA PLUMBING CODE (C.P.C.), PART 5, TITLE 24 C.C.R.
(2015 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)

2016 CALIFORNIA ENERGY CODE (C.E.C.), PART 6, TITLE 24 C.C.R.

2016 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24 C.C.R.

2016 CALIFORNIA FIRE CODE (C.F.C.), PART 9, TITLE 24 C.C.R.
(2012 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL)

2016 CALIFORNIA EXISTING BUILDING CODE, TITLE 24 C.C.R.
(2015 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH AMENDMENTS)

2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.

2016 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.

TITLE 8 C.C.R., DIVISION 1, CHAPTERS 4 AND 6, ELEVATOR SAFETY ORDERS
(INCLUDING ASME A17.1-2004, SAFETY CODE FOR ELEVATORS AND ESCALATORS)

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

PARTIAL LIST OF APPLICABLE STANDARDS

2016 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAPTER 35

NFPA 13	AUTOMATIC SPRINKLER SYSTEM (CALIFORNIA AMENDED)	2016 EDITION
NFPA 14	STANDPIPE SYSTEMS (CALIFORNIA AMENDED)	2013 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 20	STATIONARY PUMPS	2016 EDITION
NFPA 24	PRIVATE FIRE SERVICE MAINS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED) (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")	2016 EDITION
NFPA 80	FIRE DOOR AND OTHER OPENING PROTECTIVE	2016 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2015 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CALIFORNIA AMENDED)	2015 EDITION

PROJECT DIRECTORY

OWNER

GLENDALE UNIFIED SCHOOL DISTRICT
223 N. JACKSON STREET, 3RD FLOOR
GLENDALE, CA 91206
PHONE NO. - (818) 241-3111

ARCHITECT

IBP/ARCHITECTURE
4611 TELLER AVENUE
NEWPORT BEACH, CA 92660
PHONE NO. - (949) 673-0300

ACCESSIBLE P.O.T. UPGRADES

ACCESSIBLE PATH OF TRAVEL UPGRADES:

IN COMPLIANCE WITH 2016 CBC 11B-202.4 EXCEPTION #8 - THE ADJUSTED CONSTRUCTION COST ($60,000) IS LESS THAN THE 2018 VALUATION THRESHOLD. THE FOLLOWING ACCESSIBLE ELEMENTS ARE PROVIDED WITHOUT EXCEEDING 20%:

1. ACCESSIBLE ENTRANCE
2. ACCESSIBLE ROUTE SERVING AREA OF ALTERATION
3. ACCESSIBLE TOILETS (S)
4. ACCESSIBLE TELEPHONES
5. ACCESSIBLE HI/LO DRINKING FOUNTAIN
6. ACCESSIBLE PARKING

OTHER EXISTING ACCESSIBLE ELEMENTS UNDER PRIOR CERTIFIED PROJECT INCLUDE

RAMPS A#03-102811, 03-118082
DRINKING FOUNTAIN A# 03-102811
RESTROOMS A#03-102811
DOORS & LANDINGS A#03-102811
PARKING A#03-102811, 03-117044

REFERENCE SYMBOLS

FULL BUILDING SECTION
A / A-4 — LETTER ABOVE - SECTION; NUMBER BELOW - SHEET NUMBER

PARTIAL BUILDING SECTION / WALL SECTION
B / A-4 — LETTER ABOVE - SECTION; NUMBER BELOW - SHEET NUMBER

EXTERIOR ELEVATION
1 / A-3 — NUMBER ABOVE - ELEVATION NUMBER; NUMBER BELOW - SHEET NUMBER

DETAIL
2 / 3.01 — NUMBER ABOVE - DETAIL NUMBER; NUMBER BELOW - SHEET NUMBER

MATERIAL SYMBOLS

EARTH | PLYWOOD | RIGID INSULATION
SAND & GROUT | FINISH WOOD | ACOUSTICAL CEILING PANEL/ TILE
CONCRETE | LATH & PLASTER
MASONRY | GYPSUM BOARD
STEEL | BATT INSULATION

WIND DESIGN DATA

2016 CBC 1603A.1.4

1.	ULTIMATE DESIGN WIND SPEED	V = 115
2.	RISK CATEGORY	III
3.	WIND EXPOSURE CATEGORY	C
4.	INTERNAL PRESSURE COEFFICIENT	± 0.18
5.	ENCLOSURE CLASSIFICATION	OPEN

WIND DESIGN DATA

2016 CBC 1603A.1.5
SITE COORDINATES: 34.239611°N, 118.25738°W

1. RISK CATEGORY: III
2. SEISMIC IMPORTANCE FACTOR: 1.25
3. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS
   Ss = 2.697 g S1= 0.976 g
4. SITE CLASS: D
5. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS
   SDS= 1.798 g SD1= 0.976 g

GEOTECHNICAL INFORMATION

1. ALLOWABLE SOIL BEARING PRESSURE = 1500 PSF

tBP architecture planning interiors
IBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
architect

consultant

FILE NO.: 19-41
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DEPARTMENT OF GENERAL SERVICES
03-119278
AC. ME RLS S PRSS VC
DATE AUG 29 2018

DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
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DUNSMORE ELEMENTARY SCHOOL KINDERGARTEN SHADE STRUCTURES

GLENDALE UNIFIED SCHOOL DISTRICT
4717 DUNSMORE AVE.
LA CRESCENTA, CA 91214

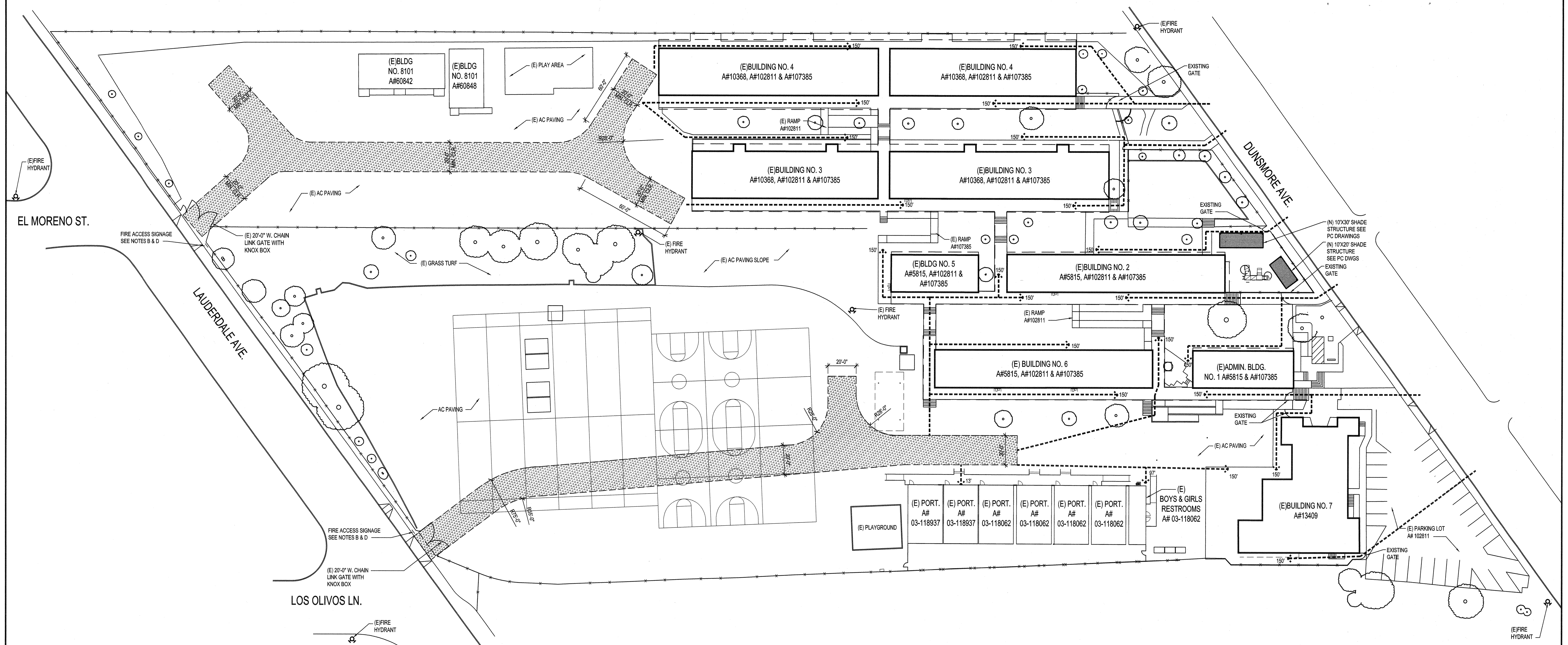
owner

tBP project number : 20907.01
file name:
drawn by: checked by:
date: August 14, 2018

Rev:	date:	description:

drawing title:
INDEX SHEET

drawing no.:
T-2
drawing of



FIRE ACCESS SITE PLAN

SCALE: 1" = 30'-0"

0 7.5' 15' 30' 60'

NORTH

FIRE LANES SHALL BE MARKED WITH STREET GRADE RED PAINT, 4" WIDE STRIPES, BETWEEN BASKETBALL COURTS, AND IDENTIFIED AS " FIRE LANE"

GLENDALE FIRE PREVENTION BUREAU
(818) 548-4810
AUG 09 2018
APPROVED BY
SUBJECT TO FIELD INSPECTION

FGP 1821137

DSA 810

LOCAL FIRE AUTHORITY REVIEW

To facilitate the Division of the State Architect's (DSA) approval of the Fire/Life Safety portion of a project, DSA requires Local Fire Authority (LFA) review of certain elements as identified in this form. Use of this form is mandatory for projects that add square footage to a campus or if any item on this form is relevant to the project. For additional information, see DSA 810 Instructions and DSA Policy 09-01.

PROJECT INFORMATION	
School District/Owner:	Glendale Unified School District
Project Name/School:	Dunsmore Elementary School - Kindergarten Shade Structure
Project Address:	4717 Dunsmore Ave., La Crescenta, CA 91214

LOCAL FIRE AUTHORITY (LFA)			
LFA Agency Name:	GLENDALE FIRE DEPT.		
LFA Reviewer Name:	JEFF HALPERT	Title:	FPE II
Work Email:	JHALPERT@GLENDALECA.GOV	Work Telephone Number:	818 937 8125

I have reviewed and responded to the applicable items for this project as listed below.
Note: Only sign this form when it is imaged onto the site plan. A loose form is not acceptable to DSA.

LFA Reviewer's Signature: [signature] **Date:** 8/9/18

Review Key: "Y" = Complies with LFA requirements; "N" = Not approved (complete Section 8); "NA" = Not applicable to the project; "NR" = LFA elects not to review

	Description	Y	N	NA	NR
1	Where an elevator does not meet medical emergency service cab size, per the California Building Code (CBC), use of stairways for emergency rescue and patient transport is acceptable.			X	
2	Access roads, fire lane markings, pavers and gate entrances are in accordance with Title 19, California Code of Regulations and the California Fire Code, Chapter 5.	X			
3	Fire hydrant location and distribution complies with the California Fire Code (or see # 4).	X			
4	Fire hydrant location and distribution complies with NFPA 1142, "Alternate Means." If "NR" is checked, DSA can only approve on-site water storage as an alternate. The signature of the school district official is required to acknowledge the use of alternate means.			X	
	Signature of School District Official: ______ **Date:** ______ **Print the School District Official's Name:** ______				
5	The location(s) of the proposed post indicator valve and fire department connection meet the requirements of this jurisdiction.			X	
6	The location(s) of the detector check valve assembly meet the requirements of this jurisdiction.			X	
7	Is the project located in a hazard severity zone area? (CBC, Chapter 7A, Section 701A.) ☐ Yes ☒ No. Check type if "Yes": ☐ Moderate ☐ High ☐ Very High ☐ WIFA (If one of these boxes is checked, the project design must meet the requirements of Chapter 7A.)				
8	COMMENTS (note deficiencies):				

DSA 810 (rev 01-24-18) — DIVISION OF THE STATE ARCHITECT — DEPARTMENT OF GENERAL SERVICES — STATE OF CALIFORNIA — Page 1 of 1

BUILDING DESCRIPTION

TOTAL BUILDING AREAS: 500 SF
BUILDING HEIGHT: 12'-0" HIGH
BUILDING USE: A-3 OCCUPANCY
CONSTRUCTION TYPE: TYPE V-B, NON-SPRINKLERED

FIRE FLOW ANALYSIS

2016 CALIFORNIA FIRE CODE TABLE BB105.1 - MIN. REQUIRED FIRE FLOW AND FLOW DURATION FOR BUILDINGS

FIRE AREA TYPE V-B	FIRE FLOW (GPM)	FLOW DURATION (HOURS)		
500 S.F.	1,500	2		

SITE PLAN LEGEND

- EXISTING FIRE DEPARTMENT VEHICULAR ACCESS LANE 20'-0" MINIMUM UNOBSTRUCTED WIDTH
- FIREFIGHTER ACCESS WALKWAY 5'-0" MINIMUM CLEAR WIDTH
- (E) FH — EXISTING FIRE HYDRANT

APPLICABLE CODES

APPLICABLE CODES AS OF JANUARY 1, 2017:

2016 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.

2016 CALIFORNIA BUILDING CODE (C.B.C.), PART 2, TITLE 24 C.C.R. (2012 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ELECTRICAL CODE (C.E.C.), PART 3, TITLE 24 C.C.R. (2011 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA)

2016 CALIFORNIA MECHANICAL CODE (C.M.C.), PART 4, TITLE 24 C.C.R. (2012 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)

2016 CALIFORNIA PLUMBING CODE (C.P.C.), PART 5, TITLE 24 C.C.R. (2012 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)

2016 CALIFORNIA ENERGY CODE (C.E.C.), PART 6, TITLE 24 C.C.R.

2016 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24 C.C.R.

2016 CALIFORNIA FIRE CODE (C.F.C.), PART 9, TITLE 24 C.C.R. (2012 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL)

2016 CALIFORNIA EXISTING BUILDING CODE, TITLE 24 C.C.R. (2012 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH AMENDMENTS)

2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.

2016 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.

TITLE 8 C.C.R., DIVISION 1, CHAPTERS 4 AND 6, ELEVATOR SAFETY ORDERS (INCLUDING ASME A17.1-2004, SAFETY CODE FOR ELEVATORS AND ESCALATORS)

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

FIRE DEPARTMENT NOTES

A. DOUBLE CHECK DETECTOR - OBTAIN APPROVAL FROM THE CITY OF GLENDALE WATER AND POWER DEPARTMENT FOR ANY PROPOSED DOUBLE CHECK DETECTORS (BACKFLOW PREVENTERS) WITHIN 60 DAYS. THE PROPOSED DDC MODEL MUST BE APPROVED BY THE G.W.P.

B. FIRE DEPARTMENT ACCESS SIGNAGE MAP - PLANS SHOWING THE FIRE DEPARTMENT ACCESS SIGNAGE MAP DETAILS SHALL BE SUBMITTED TO THE GLENDALE FIRE DEPT. FOR APPROVAL WITHIN 60 DAYS. THE SIGNAGE SHALL BE WEATHER RESISTANT AND OF AN APPROVED SIZE, AND SHALL SHOW THE FOLLOWING INFORMATION:
1. BUILDINGS AND BUILDING IDENTIFICATION
2. FIRE ACCESS ROAD(S)
3. APPROVED ACCESS WALKWAYS LEADING FROM FIRE APPARATUS ACCESS ROADS TO EXTERIOR OPENINGS
4. FIRE HYDRANTS
5. KNOX BOXES
6. FENCES AND GATES (VEHICLE AND PERSON GATES
7. FIRE DEPARTMENT CONNECTION
8. DOUBLE DETECTOR CHECK
9. OTHER INFORMATION PERTINENT TO FIRE DEPARTMENT ACCESS

C. SIGNAGE DURING AND AFTER CONSTRUCTION: THE FIRE DEPARTMENT ACCESS SIGNAGE SHALL BE INSTALLED PRIOR TO THE NEW BUILDING CONSTRUCTION COMMENCING TO FACILITATE FIRE DEPARTMENT ACCESS DURING CONSTRUCTION. THIS SIGNAGE SHALL ALSO REMAIN IN PLACE UPON COMPLETION OF CONSTRUCTION AND SHALL BE UPDATED AS NEEDED TO FACILITATE FIRE DEPARTMENT ACCESS.

D. ACCESS DURING CONSTRUCTION: FIRE APPARATUS ACCESS ROADS AND WATER SUPPLY FOR FIRE PROTECTION SHALL BE INSTALLED AND MADE SERVICEABLE PRIOR TO AND DURING THE TIME OF CONSTRUCTION EXCEPT WHEN APPROVED ALTERNATIVE METHODS OF PROTECTION ARE PROVIDED. (SEE CFC SECTION 501.4)

E. KNOX BOX : THE MOUNTING HEIGHT FOR THE KNOX BOX SHALL NOT EXCEED 6'-0" ABOVE THE GROUND LEVEL / FINISHED FLOOR. PROVIDE (3) SETS OF KEYS (WITH PERMANENT ENGRAVED IDENTIFICATION) FOR ALL EXTERIOR DOORS, GATES AND FIRE ALARM PANEL AND OTHERS AS DIRECTED BY THE FIRE INSPECTOR. KNOX BOXES SHALL BE PURCHASED PRIOR TO THE BEGINNING OF CONSTRUCTION, AND INSTALLED IN APPROVED LOCATION FOR THE DURATION OF THE CONSTRUCTION. FIELD VERIFY (E) PROVIDE IF REQUIRED

F. ADDRESS NUMBERS: APPROVED ADDRESS NUMBERS, BUILDING NUMBERS OR APPROVED BUILDING IDENTIFICATION SHALL BE PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET, ROAD, ALLEY AND WALKWAYS GIVING ACCESS TO AND WITHIN THE PROPERTY. THESE NUMBERS SHALL CONTRAST WITH THEIR BACKGROUND. ADDRESS NUMBERS SHALL BE ARABIC NUMERALS OR ALPHABET LETTERS. NUMBERS SHALL BE A MIN. OF 4-INCHES (102 MM) HIGH W/ MIN. STROKE WIDTH 0.5 INCH (12.7 MM) AND SHALL BE ILLUMINATED IN AN APPROVED MANNER (IF NOS. ARE ON THE EXTERIOR). NUMBER HEIGHT AND STROKE WIDTH SHALL BE INCREASED AS NEEDED FOR LEGIBILITY BASED ON VISIBILITY DISTANCE.

G. KEY BOX MAINTENANCE . THE OPERATOR OF THE BUILDING SHALL IMMEDIATELY NOTIFY THE FIRE CODE OFFICIAL AND PROVIDE THE NEW KEY WHEN A LOCK IS CHANGED OR REKEYED. THE KEY TO SUCH LOCK SHALL BE SECURED IN THE KEY BOX. (SEE CFC SECTION 506.2)

CONSTRUCTION OF GATES SHALL BE OF MATERIALS THAT ALLOW MANUAL OPERATION BY ONE PERSON. (SEE CFC APPENDIX D, D103.5 CRITERIA 3)

CONSTRUCTION OF FIRE LINE REPLACEMENT BETWEEN LAS CRESCENTA AVENUE AND FIRE HYDRANT NO. 1 IS TO BE COMPLETED PRIOR TO THE OCCUPANCY AND USAGE OF THE INTERIM HOUSING PROJECT.

FIRE DEPARTMENT VEHICULAR ACCESS ROADS MUST BE INSTALLED AND MAINTAINED IN A SERVICEABLE MANNER PRIOR TO AND DURING THE TIME OF CONSTRUCTION. (FIRE CODE 501.4)

FIRE DEPARTMENT VEHICULAR ACCESS ROADS SHALL BE HARD SCAPE ALL WEATHER ACCESS IN ACCORDANCE WITH THE DEPARTMENT'S ALL WEATHER ACCESS REQUIREMENTS. (LOS ANGELES COUNTY FIRE CODE 503.2.3)

ALL FIRE HYDRANTS SHALL MEASURE 6" x 4" x 2 1/2", BRASS OR BRONZE, CONFORMING TO AMERICAN WATER WORKS ASSOCIATION STANDARD C503, OR APPROVED EQUAL, AND SHALL BE INSTALLED IN COMPLIANCE WITH THE COUNTY OF LOS ANGELES FIRE DEPARTMENT REGULATION 8. (FIRE CODE 507.5 AND REGULATION 8)

REQUIRED INSPECTIONS

A. UNDERGROUND FLUSH / ROUGH / HYDRO OF PIPE FROM CITY MAIN TO BACKFLOW PREVENTER - CALL GLENDALE WATER AND POWER TO SCHEDULE AND OBTAIN INSPECTION OF FLUSH PRIOR TO COVERING PIPE.

B. GLENDALE FIRE PREVENTION FINAL INSPECTION (PRIOR TO OCCUPANCY) - TO VERIFY INSTALLATION OF ADEQUATE FIRE DEPARTMENT ACCESS AND SIGNAGE, AS INDICATED ON THIS PLAN, CONTACT THE GLENDALE FIRE DEPARTMENT AT (818)548-4810 TO SCHEDULE A SITE VISIT AND INSPECTION PRIOR TO OCCUPANCY.

SCOPE OF WORK

PROJECT CONSISTS OF THE PLACEMENT OF ~~(2) 24' x 40' PORTABLE CLASSROOM BUILDINGS.~~ (1) 10' x 20' & (1) 10' x 30' SHADE STRUCTURE

8/9/18

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AC ___ FLS ___ SS VC
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DUNSMORE ELEMENTARY SCHOOL
KINDERGARTEN SHADE STRUCTURE

GLENDALE UNIFIED SCHOOL DISTRICT
4717 DUNSMORE AVE.
LA CRESCENTA, CA 91214

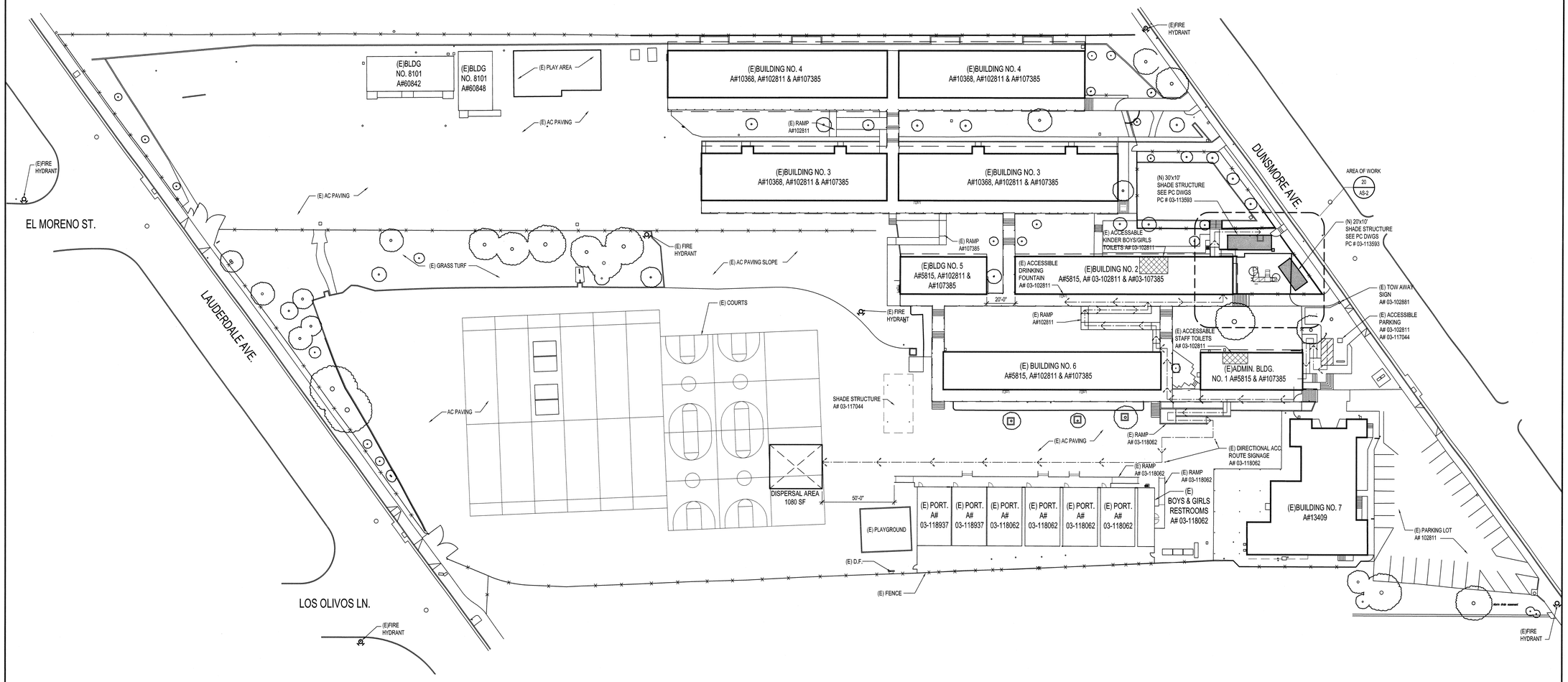
owner

tBP project number : 20907.01
file name:
drawn by: checked by:
date: August 14, 2018

Rev:	date:	description:

drawing title:
FIRE ACCESS SITE PLAN

drawing no.:
T-3
drawing of



0 7.5' 15' 30' 60'

OVERALL CAMPUS SITE PLAN

SCALE: 1" = 30'-0"

NORTH

GENERAL NOTES

1. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING TO AVOID INTERCEPTING EXISTING PIPING OR CONDUITS. THE ARCHITECT IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWING DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

2. VERIFY ALL EXISTING AND FINISH GRADES, DIMENSIONS AND SITE CONDITIONS BEFORE COMMENCING WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.

FLOOD DESIGN INFORMATION

THE FLOOD ZONE DESIGNATION	ZONE X
THE FLOOD INSURANCE RATE MAP (FIRM) PANEL DESIGNATION	06037C1335F
EFFECTIVE DATE OF THE FIRM	09-26-2008
BASE FLOOD ELEVATION (BFE)	N/A
APPLICABLE COMMUNITY ORDINANCE SECTION	N/A

PARKING TABULATION

PARKING LOT : 25 PARKING STALLS
1 ACCESSIBLE PARKING STALL

SITE PLAN LEGEND

PATH OF TRAVEL

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR THE 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 NONCOMPLIANT 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 NONCOMPLIANT 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. ARCHITECT HAS VERIFIED P.O.T. IS BARRIER FREE.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

PATH OF TRAVEL (P.O.T.) AS VERIFIED BY ARCHITECT IS :

- A COMMON BARRIER FREE ACCESSIBLE ROUTE AT LEAST 48" WIDE WITHOUT ANY ABRUPT VERTICAL CHANGED EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL.
- THE PATH SURFACE IS SLIP RESISTANT, STABLE , FIRM AND SMOOTH.
- PASSING SPACES AT LEAST 60"X60" ARE LOCATED NOT MORE THAN 200' APART.
- CONTINUOUS GRADIENTS HAVE 60" LEVEL AREAS NOT MORE THAN 400' APART.
- CROSS-SLOPE DOES NOT EXCEED 2%.
- SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%, UNLESS OTHERWISE INDICATED AS A RAMP.
- MAINTAIN POT FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM. PROTRUDING OBJECTS GREATER THAN 4". PROJECTION FROM WALL OR EDGE AND 27" ABOVE FINISH GRADE.

SHADED AREA INDICATES AREA OF NEW WORK

(E) ACCESSIBLE RESTROOMS - A# 03-102811

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owner

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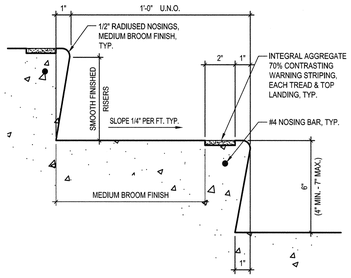
Rev:	date:	description:

drawing title:
OVERALL CAMPUS SITE PLAN

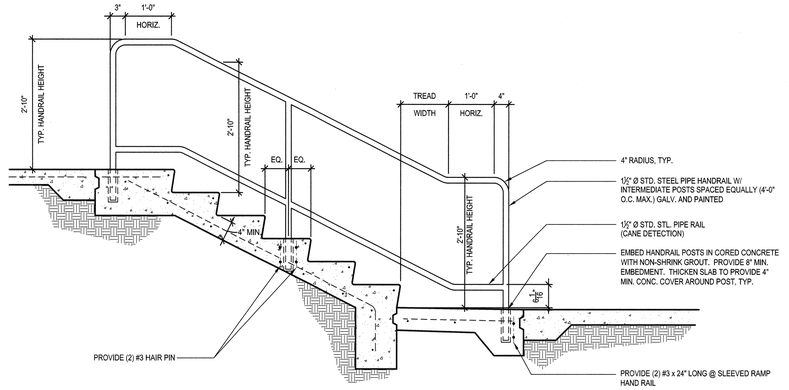
drawing no.:
AS-1
drawing of



TYP. EXTERIOR STAIR TREAD

SCALE: 3" = 1'-0"

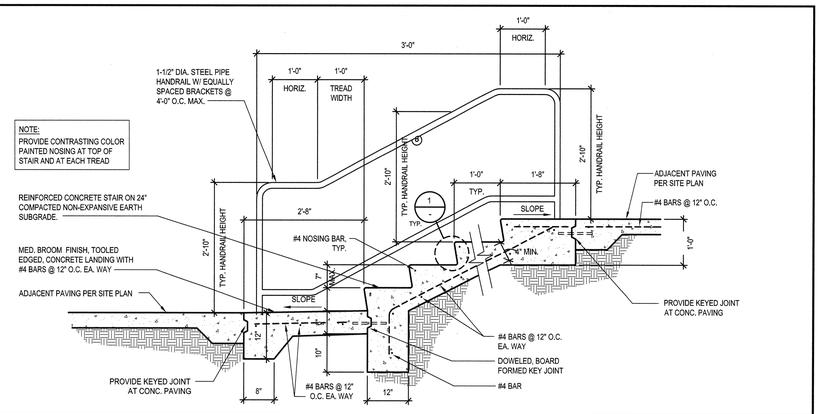
1



HANDRAIL ELEVATION

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

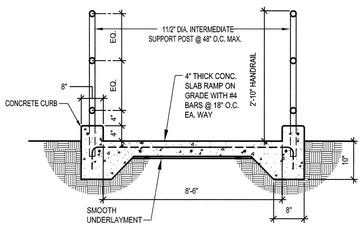
3



STAIR ON GRADE

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

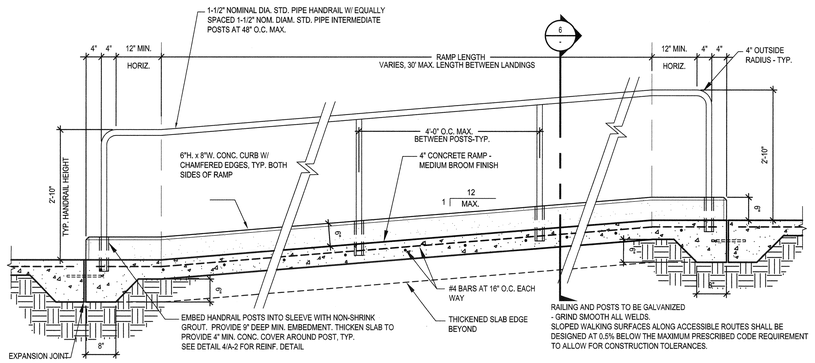
5



TYPICAL RAMP ON GRADE-CROSS SECTION

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

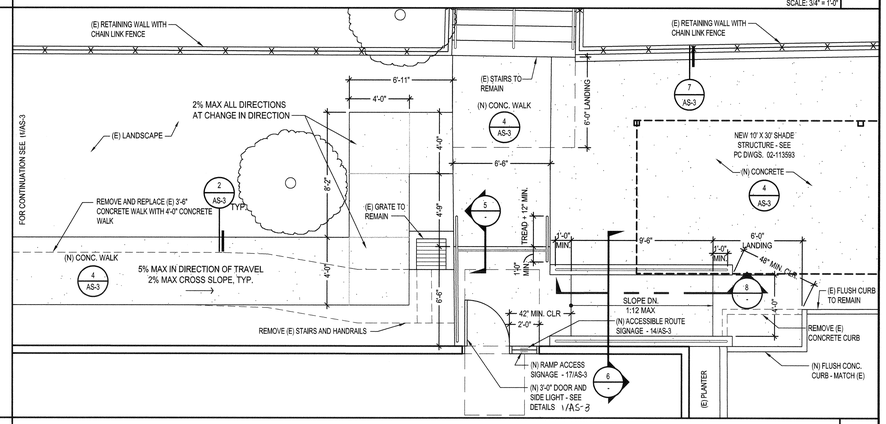
6



TYPICAL RAMP ON GRADE-LONGITUDINAL SECTION

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

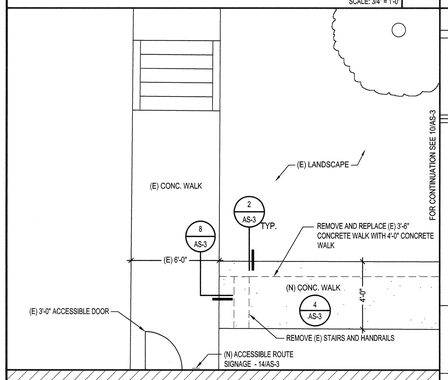
8



ENLARGED RAMP PLAN

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

10

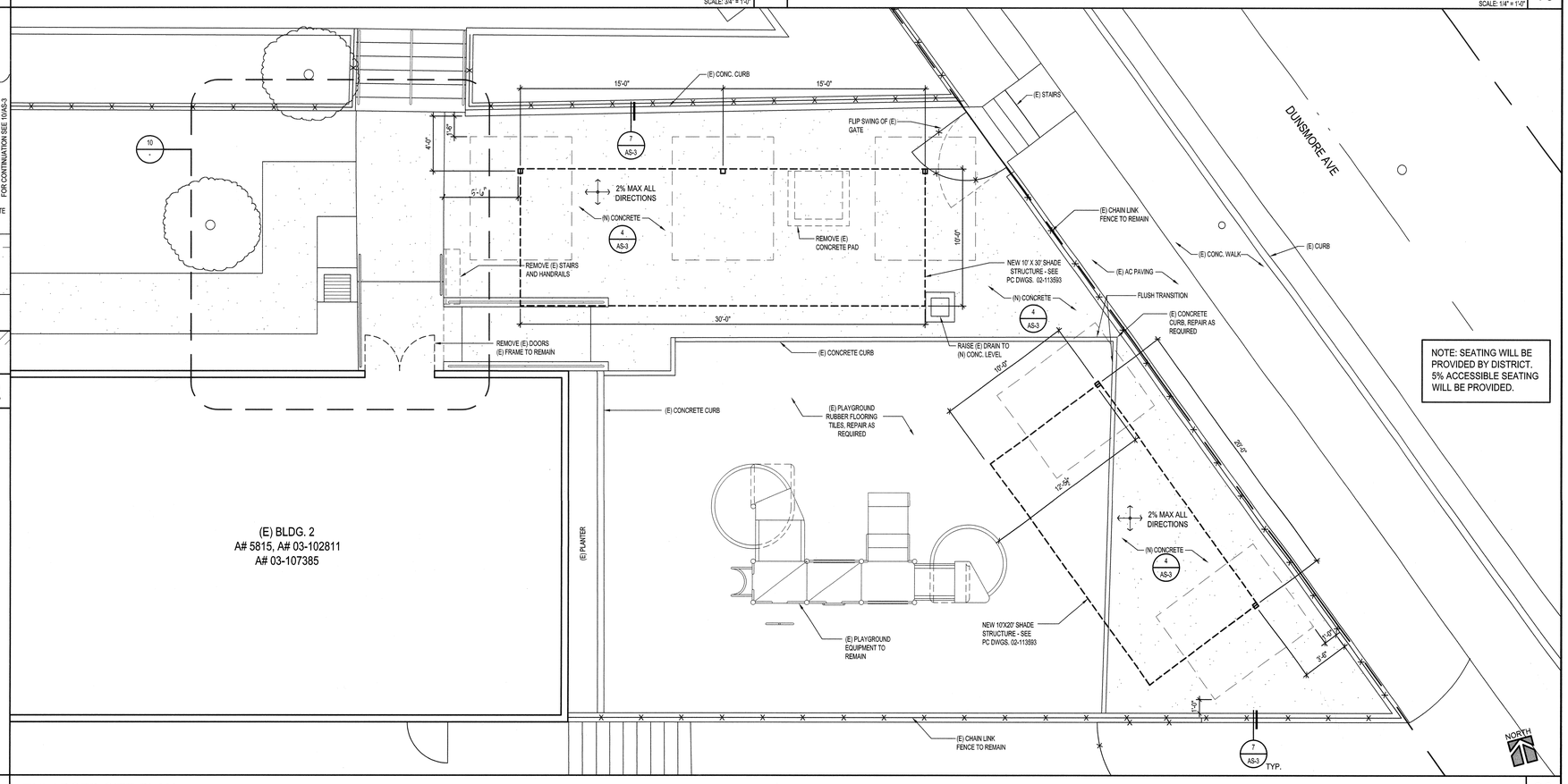


ENLARGED SITE PLAN

11

IVE	HINGE	5BB1 4.5x4.5
SCH	LEVER	L9076T LLL 06N L283-150
KEE	CYLINDER GUARD	K-24
PEM	DOOR SWEEP	57AV
IVE	KICK PLATE	8400 10"

HARDWARE SET



ENLARGED SITE PLAN

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

20

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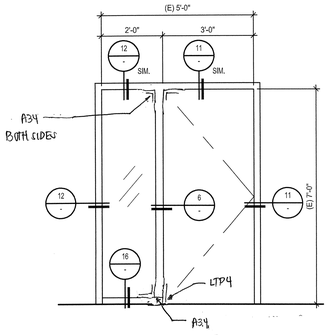
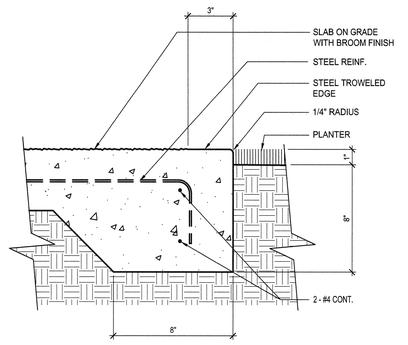
Rev:	date:	description:

drawing title:
ENLARGED SITE PLAN & DETAILS

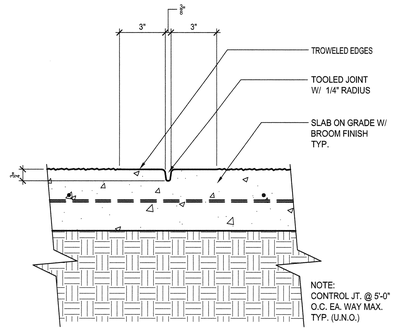
drawing no.:
AS-2
drawing of



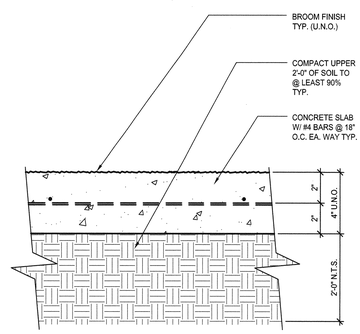
DOOR FRAME ELEVATION — SCALE: 1/2" = 1'-0" — 1



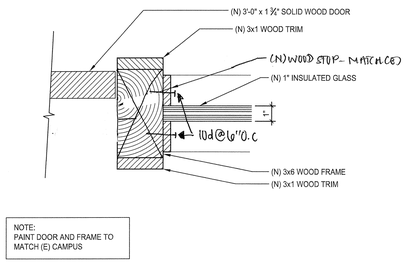
TYPICAL SLAB EDGE — SCALE: 3" = 1'-0" — 2



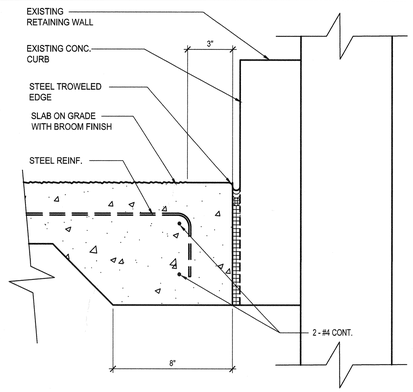
CONCRETE CONTROL JOINT — SCALE: 3" = 1'-0" — 3



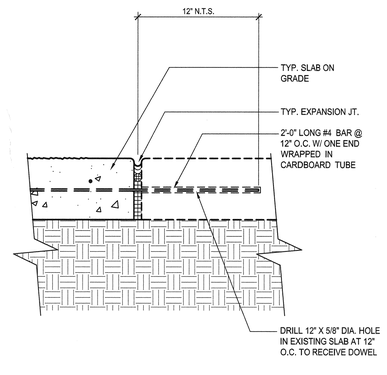
TYPICAL SLAB ON GRADE — SCALE: 3" = 1'-0" — 4



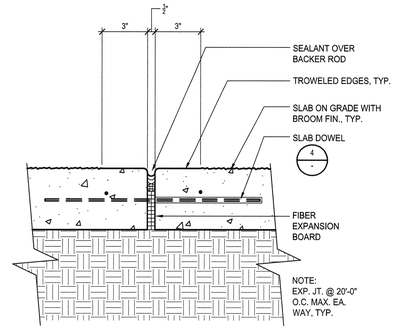
EXTERIOR JAMB — SCALE: 3" = 1'-0" — 6



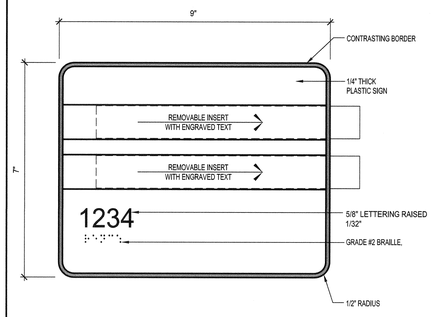
TYPICAL SLAB EDGE — SCALE: 3" = 1'-0" — 7



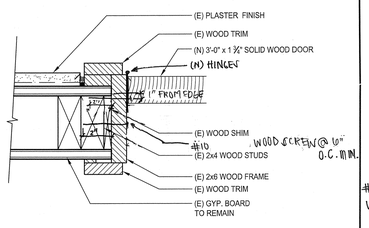
SLAB DOWEL DETAIL - NEW TO EXISTING — SCALE: 3" = 1'-0" — 8



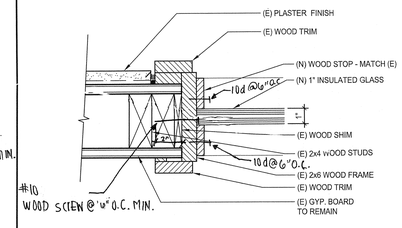
TYPICAL EXPANSION JOINT — SCALE: 3" = 1'-0" — 9



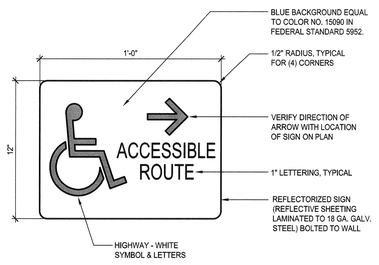
ROOM NAME / NUMBER SIGNAGE WITH INSERT — SCALE: HALF — 10



DOOR EXTERIOR JAMB (HEAD SIM.) — SCALE: 3" = 1'-0" — 11

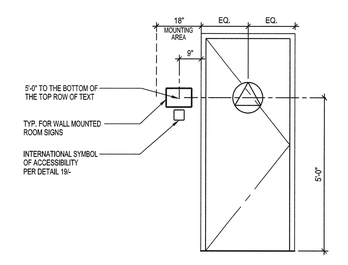


WINDOW EXTERIOR JAMB (HEAD SIM.) — SCALE: 3" = 1'-0" — 12



NOTE:
1. SEE DETAIL 14/AS-3 FOR MOUNTING HEIGHT

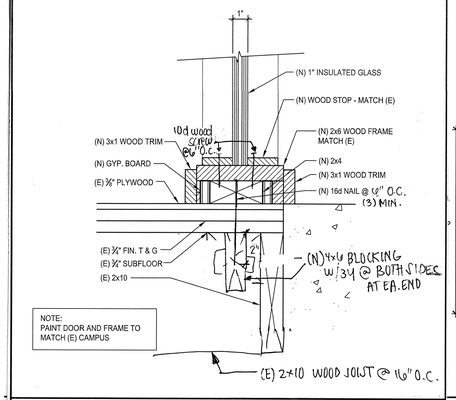
ACCESSIBLE ROUTE SIGNAGE — SCALE: 3" = 1'-0" — 13



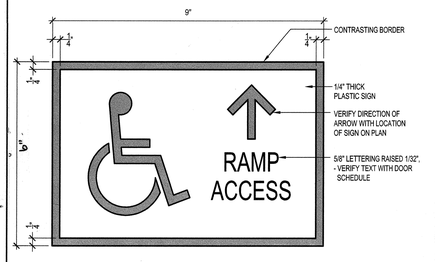
NOTES:

MOUNT SIGN ON THE WALL ADJACENT TO LATCH SIDE OF DOOR. WHERE THERE IS NO WALL SPACE ON LATCH SIDE OF DOOR, PLACE SIGNS ON NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT.

SIGNAGE LOCATION LEGEND — SCALE: 1/2" = 1'-0" — 14



WINDOW EXTERIOR SILL — SCALE: 3" = 1'-0" — 16

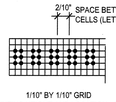


NOTE:
SEE DETAIL 14/AS-3 FOR MOUNTING HEIGHT

RAMP ACCESS SIGNAGE — SCALE: HALF — 17

TYPICAL SIGNAGE NOTES

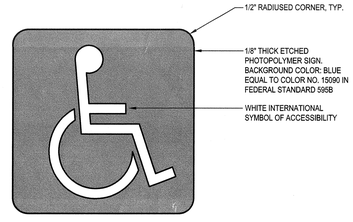
1. TACTILE CHARACTER TYPE: TACTILE CHARACTERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY CONTRACTED (GRADE 2) BRAILLE.
2. TACTILE CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" AND A MAXIMUM OF 2" HIGH.
3. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MINIMUM AND HAVE A NON-GLARE FINISH.
4. PROPORTIONS: RAISED CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15% MAXIMUM OF THE HEIGHT OF THE CHARACTER.
5. BRAILLE: CONTRACTED (GRADE 2) BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE 1/10" ON CENTERS IN EACH CELL WITH 2/10" SPACE BETWEEN CELLS, MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE RAISED A MINIMUM OF 1/40" ABOVE THE BACKGROUND. BRAILLE DOTS SHALL BE DOMED OR ROUNDED.



CALIFORNIA GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED. INDIVIDUAL BRAILLE DOTS SHALL EACH BE DISTINCT AND SEPARATE. EACH DOT SHALL BE ROUNDED OR DOMED IN LIEU OF SQUARE SIDED AND FLAT TOPPED.

6. MOUNTING HEIGHT AND LOCATION: SIGNS WITH RAISED CHARACTERS AND BRAILLE SHALL BE LOCATED 48" MINIMUM TO THE BASELINE OF THE LOWEST LINE OF BRAILLE AND 60" MAXIMUM TO THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS ABOVE THE FINISH FLOOR OR GROUND SURFACE. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.

TYPICAL SIGNAGE NOTES — SCALE: FULL — 18



NOTES:

1) THE CHARACTERS AND BACKGROUND OF THE SIGN SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH AND CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND.

2) MOUNT WITH 3M HIGH BOND TAPE AND SILICONE GLUE.

3) SEE 14/- FOR LOCATION.

INTERNATIONAL SYMBOL OF ACCESSIBILITY — SCALE: HALF — 19

tBP
architecture
planning
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4611 Teller Avenue
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ph: 949.673.0300 fx: 949.732.3895

architect

consultant

FILE NO.: 19-41
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES
03-119278
AC. ME FLS SS VC
DATE AUG 29 2018

DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

DUNSMORE ELEMENTARY SCHOOL KINDERGARTEN SHADE STRUCTURES

GLENDALE UNIFIED SCHOOL DISTRICT
4717 DUNSMORE AVE.
LA CRESCENTA, CA 91214

owner

tBP project number : 20907.01
file name:
drawn by: checked by:
date: August 14, 2018

Rev:	date:	description:

drawing title:
SITE DETAILS

drawing no.:
AS-3
drawing of

2014A

DESIGN VALUES:

DESCRIPTION	DESIGN VALUES
DEAD AND LIVE LOADS	
ROOF LIVE LOAD	20 PSF
ROOF DEAD LOAD (SUPERIMPOSED ON FRAME)	VARIES
ALLOWABLE SOIL PRESSURE	
DL+LL (CONCRETE FOOTING)	2000 PSF
DL+LL+SEISMIC (CONCRETE FOOTING)	2000 PSF
ROOF SNOW LOAD	
GROUND SNOW LOAD, Pg, FROM COUNTY	10 PSF
RISK CATEGORY	[ ] II [X] III
ROOF SNOW LOAD: [ ] FLAT, Pf OR [ ] LOW-SLOPE, Pm OR [X] SLOPED, Ps	10 PSF
SNOW ROOF SLOPE FACTOR, Cs	1.0
SNOW EXPOSURE FACTOR, Ce	1.2
SNOW LOAD IMPORTANCE FACTOR, Is	[ ] 1.0 [X] 1.1
THERMAL FACTOR, Ct	[ ] 1.0 [X] 1.2
FLOOD DESIGN	
FLOOD HAZARD AREA: [ ] YES [X] NO	
WIND DESIGN	
BASIC WIND SPEED (3 SECOND GUST), Vult	115 MPH
RISK CATEGORY	[ ] II [X] III
EXPOSURE CATEGORY	[X] C [ ] D
TOPOGRAPHIC FACTOR, Kzt (1 MINIMUM)	1.0
INTERNAL PRESSURE COEFFICIENT, GCpi (IF APPLICABLE)	0.0
SEISMIC DESIGN	
LATERAL FORCE-RESISTING SYSTEM	STEEL ORDINARY CANTILEVER COLUMN SYSTEMS
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE
SEISMIC DESIGN CATEGORY (SDC)	E
SEISMIC IMPORTANCE FACTOR, Ie	[ ] 1.0 [X] 1.25
DESIGN BASE SHEAR, V	Cs x W
SEISMIC RESPONSE COEFFICIENT, Cs	LOAD SCENARIO = { 1, 2, 3, 4 } Cs = { 1.25, 1.67, 1.83, 2.00 }
RESPONSE MODIFICATION FACTOR, R	1.25
SITE CLASS	[X] D [ ] E
REDUNDANCY FACTOR, p	1.3
MAPPED SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, Ss - USED TO DETERMINE Cs (WITH CAP PER CBC 1616A.1.12)	LOAD SCENARIO = { 1, 2, 3, 4 } Ss (MAX) = { 1.875, 2.500, 2.750, 3.000 }
MAPPED SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, Ss - USED TO DETERMINE OTHER PARAMETERS AND NON-STRUCTURAL COMPONENT ANHORAGE (NO CAP)	3.00
SHORT-PERIOD SITE COEFFICIENT, Fa	1.0
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, Sds - USED TO DETERMINE Cs (WITH CAP PER CBC 1616.1.12)	LOAD SCENARIO = { 1, 2, 3, 4 } Sds (MAX) = { 1.25, 1.67, 1.83, 2.00 }
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, Sds - USED TO DETERMINE OTHER PARAMETERS AND NON-STRUCTURAL COMPONENTS ANCHORAGE (NO CAP)	2.00
MAPPED SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD, S1	1.07
LONG-PERIOD SITE COEFFICIENT, Fv	1.5
DESIGN SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD, Sd1	1.07
HORIZONTAL OR VERTICAL IRREGULARITIES TYPE(S)	NONE

ARCHITECTURAL REQUIREMENTS:

DESCRIPTION	DESIGN VALUES
TYPE OF CONSTRUCTION	VB
OCCUPANCY CLASSIFICATION	A3
NUMBER OF STORIES	1
FIRE HAZARD SEVERITY ZONE	VERY HIGH
FIRE SPRINKLER SYSTEM	NOT BY POLIGON

POLIGON ASSUMES ANY OCCUPANT LOAD CALCULATIONS ARE BASED ON 15 SQ FT/ PERSON. PROJECT ARCHITECT MAY ADJUST OCCUPANT LOAD AS PERMITTLED BY THE BUILDING CDE.

RELATED BUILDING CODES AND STANDARDS:

TITLE 24 CODES:

2013 California Administrative Code (CAC)..........................(Part 1, Title 24, CCR)
2013 California Building Code (CBC), Volumes 1, and 2 (Part 2, Title 24, CCR)
(2012 International Building Code with 2013 California amendments)
2013 California Electrical Code ....(Part 3, Title 24, CCR)
(2011 National Electrical Code with 2013 California amendments)
2013 California Mechanical Code (CMC) ....(Part 4, Title 24, CCR)
(2012 Uniform Mechanical Code with 2013 California amendments)
2013 California Plumbing Code (CPC) ....(Part 5, Title 24, CCR)
(2012 Uniform Plumbing Code with 2013 California amendments)
2013 California Energy Code ....(Part 6, Title 24, CCR)
(Effective July 1 , 2014)
2013 California Fire Code (CFC) ....(Part 9, Title 24, CCR)
(2012 International Fire Code with 2010 California Amendments)
2013 California Green Building Standards Code..................(Part 11, Title 24, CCR)
(Effective January 1, 2014)
2013 California Referenced Standards Code .... (Part 12, Title 24, CCR)

NFPA 13 - 2013
NFPA 72 - 2013

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:

2013 CBC, CHAPTER **35**
2013 CFC, CHAPTER **45**

SCOPE OF WORK NARRATIVE:

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

GENERAL:

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

STRUCTURAL AND MISCELLANEOUS STEEL:

1. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFIATION MANUAL REFERENCED BY THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE.
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 A500, GRADE B (OR HIGHER), Fy = 46 KSI.
4. IF MATERIAL AVAILABILITY IS LIMITED, MEMBER THICKNESSES CAN BE INCREASED BEYOND WHAT IS SHOWN IN THESE DRAWINGS (MAXIMUM INCREASE OF 1/8").
5. ALL CHANNELS, ANGLES, AND MISC. STEEL SHALL CONFORM TO ASTM A36, Fy = 36 KSI.
6. ALL COLD FORM STEEL SHALL CONFORM TO ASTM A653, CS = TYPE B, Fy = 50 KSI.
7. STRUCTURAL STEEL AND DECK SHALL BE IDENTIFIED FOR CONFORMITY PER CBC 2203A.1.
8. ROOF DECK SHALL HAVE KYNAR 5000 METAL COATING.
9. ROOF DECK SHALL CONFORM TO ASTM A792, Fy = 50 KSI.
10. MR ROOF SCREWS MEET ASTM A510 WITH A HEAD DIMENSION OF 0.31" (FLAT-TO-FLAT) AND INTEGRAL WASHER DIMENSION OF 0.58" (OUTSIDE DIAMETER).
11. SS ROOF SCREWS MEET ASTM A510 WITH A HEAD DIMENSION OF 0.437" (OUTSIDE DIAMETER).

WELDING:

1. ALL WELDING SHALL COMPLY WITH AWS D1.1 SPECIFICATIONS AND SHALL BE DONE BY AWS QUALIFIED WELDERS CERTIFIED FOR THE TYPE OF WELDING TO BE PERFORMED 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-lb @ (O° F).
3. ALL WELDING SHALL BE DONE IN THE SHOP WITH REQUIRED INSPECTION, PRE-APPROVED BY DSA, TO INSURE PROPER MATERIAL ID AND WELDING.
4. WELD FILLER METAL MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION OF COMPLIANCE WITH CODE AND SPECIFICATIONS.

BOLTING:

1. ALL BOLTS SHOWN ON THESE DRAWINGS ARE ASTM A325 HIGH STRENGTH BOLTS (UNO), TYPE 3.
2. HIGH STRENGTH BOLTS SHALL BE SAMPLED AND TESTED IN COMPLIANCE WITH CBC 2213A.1.
3. BEFORE ERECTING THE FRAME, VERIFY ALL BOLTS AND NUTS ARE CLEAN OF DEBRIS AND BURRS - INCLUDING THE HARDWARE ALREADY FASTENED INSIDE THE MEMBERS. CHASING SOME OF THE BOLTS AND NUTS MAY BE REQUIRED.
4. ANCHOR BOLTS (HEAVY HEX HEAD, ASTM F1554, GRADE 55) SHALL BE HOT DIPPED GALVANIZED PER ASTM F2329. ANCHOR BOLTS MAY BE HEADED OR THREADED WITH A NUT THAT IS PREVENTED FROM ROTATING.
5. HIGH STRENGTH NUTS SHALL CONFORM TO ASTM A563.
6. HIGH STRENGTH WASHERS SHALL CONFORM TO ASTM F436.
7. THE BOLTING INSTALLATION REQUIREMENTS OUTLINED BELOW ARE CRITICAL TO THE STRUCTURE'S DESIGN AND PERFORMANCE. **THE INSTALLER IS REQUIRED TO COORDINATE THIS PHASE OF CONSTRUCTION WITH THE SPECIAL BOLTING INSPECTOR AND THE INSPECTOR OF RECORD PRIOR TO THE ERECTION OF THE FRAME.** ALL BOLTS SHALL BE INSTALLED AND INSPECTED PER THE APPLICABLE VERSION OF AISC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS", CBC 1705A.2.1; AISC 341-10 J7; AISC 360-10 N5.6.
   A. PRETENSIONED JOINTS (IDENTIFIED ON THE FRAME CONNECTION DETAILS WITH A "PJ REQUIRED") MUST BE INSTALLED AND INSPECTED TO MEET ONE OF FOLLOWING REQUIREMENTS:
      1. TURN-OF-NUT PRETENSIONING
      2. CALIBRATED WRENCH PRENTENSIONING
      3. DIRECT-TENSION-INDICATOR PRETENSIONING (CONTRACTOR RESPONSIBLE FOR PURCHASE OF REQUIRED WASHERS)
   B. ALL OTHER JOINTS MUST BE INSTALLED AND INSPECTED TO MEET THE REQUIREMENTS OF SNUG-TIGHTENED JOINTS. **NOTE TO INSTALLER AND INSPECTOR(S): THE SNUG-TIGHT CONDITION EXISTS, IN PART, WHEN ALL THE BOLTS IN THE JOINT HAVE BEEN TIGHTENED SUFFICIENTLY TO PREVENT THE REMOVAL OF THE NUTS WITHOUT THE USE OF A WRENCH.**

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

FOUNDATIONS:

4. ALLOWABLE SOIL PRESSURES ASSUME CLASS 4 SOIL CLASSIFICATION PER CBC TABLE 1806A.
2. **A GEOTECHNICAL REPORT / LETTER IS REQUIRED AT THE OVER-THE-COUNTER APPOINTMENT FOR EACH PROJECT.**
3. FILL AND BACKFILL SHALL BE COMPACTED TO 95% OF MAX. DENSITY IN ACCORDANCE WITH ASTM TEST METHOD D1557-70. FLOODING NOT PERMITTED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, ETC. NECCESSARY TO SUPPORT CUT AND/OR FILL BANKS DURING EXCAVATION, AND FORMING AND PLACEMENT OF CONCRETE.

CONCRETE:

1. MIX DESIGN REQUIREMENTS: (NORMAL WEIGHT CONCRETE)

STRENGTH f'c (28 DAYS)	W/C RATIO (NON-AIR ENTRAINED)	W/C RATIO (AIR ENTRAINED)	SLUMP (± 1")	UNIT WEIGHT (NORMAL WEIGHT)
5000 PSI	0.63	0.55	3"	150 PCF

2. CHANGES TO THE MIX DESIGN MUST BE APPROVED BY THE ENGINEER OR ARCHITECT OF RECORD AND DSA
3. AGGREGATES SHALL CONFORM TO ASTM C33 WITH PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN .005. MAX AGGREGATE SIZE = 1".
4. CEMENT SHALL CONFORM TO ASTM C150 (TYPE V) UNLESS NOTED OTHERWISE ON THE DRAWINGS.
5. 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.
6. CONCRETE SHALL NOT FREE FALL MORE THAN FIVE FEET.
7. CONCRETE SHALL BE PROPORTIONED PER CBC ACI 318-11 5.2.
8. CONCRETE SHALL BE TESTED PER CBC 1905A.1.2, 1913A.1, 1705A.3, AND ACI 318-11 5.6.

REINFORCING STEEL:

1. REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A615, (DEFORMATIONS SHALL BE IN ACCORDANCE WITH ASTM A305) AS FOLLOWS:
   GR 60: (#4 BARS AND LARGER)
   GR 40: (#3 BARS)
2. DETAILING, FABRICATION, AND ERECTION OF REINFORCING BARS SHALL CONFORM THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES."
3. MIN. COVER FOR CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:
   A. CAST AGAINST EARTH.. 3"
   B. CAST AGAINST FORM BELOW GRADE...................... 2"
   C. FORMED SLABS (#11 BAR & SMALLER)..................... 3/4"
   D. SLABS ON GRADE (FROM TOP OF SLAB).................. 1"
   E. COLUMNS AND BEAMS (MAIN BARS)...................... 2"
   F. WALLS EXPOSED TO WEATHER (#6-#18 BARS)......... 2"
   (#5 & SMALLER)......... 11/2"
   G. NOT EXPOSED TO WEATHER (#11 & SMALLER)........ 3/4"
4. BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND. BENDS SHALL BE MADE COLD.
5. REINFORCING SHALL BE LAP SPLICED 45 BAR DIA. MINIMUM IN CONCRETE AND MUST COMPLY WITH ACI 318-11.
6. PRIOR TO PLACING OF CONCRETE, REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE WELL SECURED IN POSITION.
7. WELDING OF REINFORCING IS NOT ALLOWED
8. REINFORCING STEEL SHALL BE SAMPLED AND TESTED PER CBC 1913A.2.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03-119278
AC / FLS / SS YC
Date AUG 29 2018

POWDER COATED AND EPOXY PRIMED FINISH:

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

ABBREVIATIONS:

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

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

BEFORE SUBMITTING THESE PRE-CHECKED DRAWINGS FOR YOUR PROJECT, FOLLOW THE STEPS BELOW TO PROPERLY DEFINE THE APPROVED OPTIONS:
THE POLIGON ENGINEERING DEPARTMENT IS AVAILABLE TO HELP YOU COMPLETE THESE STEPS (616-399-1963).

STEP 1: SELECT FRAME DIMENSIONS FOR YOUR PROJECT
- STRUCTURES UP TO 8' WIDE USE THE "CWC 8" BASE FRAME
- STRUCTURES UP TO 10' WIDE USE THE "CWC 10" BASE FRAME
- STRUCTURES UP TO 14' WIDE USE THE "CWC 14" BASE FRAME
- THE 8', 10', AND 14' WIDTHS ARE SUGGESTED BECAUSE THEY ARE THE MOST ECONOMICAL
- MAXIMUM WIDTH IS 14' (SEE 'ARCHITECTURAL VIEWS' SHEET FOR REFERENCE)
- THE 44', 64', AND 84' LENGTHS ARE SUGGESTED BECAUSE THEY ARE THE MOST COMMON (20' BAYS ARE MOST ECONOMICAL)
- FRAME LENGTHS ASSUME 2' OVERHANGS (UNO BY ARCHITECT - 2' MAX DIMENSION)

STEP 2: SELECT ROOF DECK FOR YOUR PROJECT
- "MR" REPRESENTS MCELROY METAL "MULTI-RIB" ROOF DECK
- "SS" REPRESENTS MCELROY METAL "MEDALLION-LOK" 16" STANDING SEAM ROOF DECK

STEP 3: IDENTIFY THE Ss ACCELERATION (g) FOR YOUR PROJECT
- Ss VALUE DETERMINES THE REQUIRED SEISMIC DESIGN FORCES
- Ss VALUE DEPENDS ON THE PROJECT'S 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")

STEP 4: IDENTIFY THE Ss REGION FOR YOUR PROJECT
- THE REGIONS ARE DEPENDANT ON THE Ss VALUE DETERMINED IN STEP 3
- REFERENCE DSA BU 14-01 FOR A MAP OF VARIOUS Ss REGIONS
- THE Ss REGION DICTATES THE MAXIMUM DEAD LOAD PERMITTED ON THE FRAME (SEE TABLE TO THE RIGHT)

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

STEP 6: IDENTIFY THE FOUNDATION REQUIREMENTS FOR YOUR PROJECT
- REFERENCE THE Ss REGION (STEP 4) AND THE TOTAL ROOF DEAD (STEP 5)
- IDENTIFY **A SINGLE** LOAD SCENARIO
  - E.G. A PROJECT IN THE BLUE Ss REGION WITH A 2 PSF ROOF DEAD LOAD IS LOAD SCENARIO 2
  - LOAD SCENARIOS HAVE NO IMPACT ON FRAME DESIGN OR COST (BUT DO AFFECT FOUNDATION SIZE)
  - POLIGON CAN REVIEW THE SITE-SPECIFIC SOILS REPORT TO EVALUATE THE POSSIBILITY OF SMALLER FOUNDATIONS

STEP 1 — FRAME DIMENSIONS

	SUGGESTED			OTHER	
FRAME WIDTH	☐ 8'	X 10'	☐ 14'	☐	(14' MAX)
FRAME LENGTH	☐ 44'	☐ 64'	☐ 84'	X 20'/30'	(NO MAX)

STEP 2 — ROOF DECK

ROOF DECK TYPE	☐ MR	X SS

STEP 3 — Ss ACCELERATION (g)

2.697

STEP 4 — Ss REGIONS[1]

		Ss REGIONS	MAX DEAD LOAD
DESCRIPTION	~~☐ WHITE~~	~~0.000 < Ss <= 1.875~~	~~3.5 PSF~~
	~~☐ BLUE~~	~~1.875 < Ss <= 2.500~~	~~3.5 PSF~~
	X GREEN	2.500 < Ss <= 2.750	2 PSF
	~~☐ YELLOW~~	~~2.750 < Ss <= 3.000~~	~~2 PSF~~

[1] REFERENCE DSA BU 14-01 FOR A MAP OF VARIOUS Ss REGIONS

STEP 5 — TOTAL ROOF DEAD LOAD

	DEAD LOAD	EXAMPLES
ROOF DECK	1.8 PSF	MR = 1.2 PSF ; SS = 1.8 PSF (SEE STEP 2)
COLLATERAL[1]	0.0 PSF	LIGHTING, FIRE SUPPRESSION, PV PANELS, ETC.
TOTAL[2]	1.8 PSF	ADD ROOF DECK AND COLLATERAL LOADS

[1] PROVIDE DSA WITH EVIDENCE THAT THE COLLATERAL LOAD FOR YOUR PROJECT MEETS THESE REQUIREMENTS
[2] MAY NOT EXCEED REQUIREMENTS LISTED IN STEP 6 BELOW

STEP 6 — FOUNDATION REQUIREMENTS

Ss REGION	DEAD LOAD (DL)	LOAD SCENARIO
~~WHITE~~	~~DL <= 3.5 PSF~~	~~☐ LOAD SCENARIO 1~~
~~BLUE~~	~~DL <= 3.5 PSF~~	~~☐ LOAD SCENARIO 2~~
GREEN	DL <= 2.0 PSF	X LOAD SCENARIO 3
~~YELLOW~~	~~DL <= 2.0 PSF~~	~~☐ LOAD SCENARIO 4~~

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

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

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

STEP 10: IDENTIFY PROJECT NAME AND SCHOOL DISTRICT
PROJECT NAME:
DUNSMORE ELEMENTARY SCHOOL
KINDER SHADE STRUCTURES
SCHOOL DISTRICT:
GLENDALE UNIFIED SCHOOL DISTRICT

STEP 7 — MISCELLANEOUS

	DESIGN OPTIONS	
CLEAR HEIGHT	X 12'-0"	☐ (12' MAX)
ELECTRICAL CUTOUTS	☐ YES	X NO
GUTTERS	X YES	☐ NO

STEP 8 — SHEET INDEX

BASE FRAME	CWC 8		CWC 10		CWC 14	
ROOF DECK	MR	SS	MR	SS	MR	SS
SELECT ONE	☐	☐	☐	X	☐	☐
GENERAL NOTES	PD1.0	PD1.0	PD1.0	PD1.0	PD1.0	PD1.0
SPECIAL INSPECTIONS	PD1.1	PD1.1	PD1.1	PD1.1	PD1.1	PD1.1
FOUNDATION PLAN	PD2.0	PD2.0	PD2.1	PD2.1	PD2.2	PD2.2
FRAMING PLAN	PD3.0	PD3.0	PD3.1	PD3.1	PD3.2	PD3.2
FRAME CONNECTION DETAILS	PD4.0	PD4.0	PD4.1	PD4.1	PD4.2	PD4.2
SERIES PD5.X	NOT USED		NOT USED		NOT USED	
PLATE DETAILS	PD6.0	PD6.0	PD6.1	PD6.1	PD6.2	PD6.2
ARCHITECTURAL VIEWS	PD7.0	PD7.0	PD7.1	PD7.1	PD7.2	PD7.2
ROOF CONNECTION DETAILS	PD8.0	PD8.1	PD8.0	PD8.1	PD8.0	PD8.1
MISC DESIGN OPTIONS	PD9.0	PD9.0	PD9.0	PD9.0	PD9.0	PD9.0

REGISTERED PROFESSIONAL ENGINEER
No. S4378
STRUCTURAL
STATE OF CALIFORNIA

CARLTON Engineering Inc.

poligon

STATE APPROVALS

PRE-CHECK (PC) DOCUMENT
CODE: 2013 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

GENERAL NOTES
COVERED WALKWAY (CWC)
PC DRAWINGS

DRAWN BY: JMD
CHECKED BY: CE
POLIGON #: 51460

PD1.0

2014A

SPECIAL INSPECTION:

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

DSA — DIVISION OF THE STATE ARCHITECT — DEPARTMENT OF GENERAL SERVICES

DSA-103 rev 12/20/13

Statement of Structural Tests & Special Inspections - 2013 CBC

INCREMENT # | DSA File No.: PC-1 | Application No.: 02-113593 | Date Submitted: | Revised: | Revised:

School Name	EXAMPLE - REMOVE ON SITE-SPECIFIC PROJECTS	District	EXAMPLE - REMOVE ON SITE-SPECIFIC PROJECTS

IMPORTANT: This form is only a summary list of structural tests and special inspections required for the project. The actual tests and inspections must be performed as detailed on the DSA approved documents. 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.
NOTE: This form is also available for projects submitted for review under the 2007 and 2010 CBC.

INSTRUCTIONS: Click a plus sign (+) before any category or subcategory to reveal additional tests and special inspections. An "X" before a listed test or inspection indicates it is a mandatory requirement. A shaded box indicates a test or special inspection that may be required, depending on the scope of the construction and other issues. A shaded box can be clicked indicating your selection of that test. **Note:** A minus (-) on a category or subcategory heading indicates that it can be collapsed. However, any selections you may have made will be cleared. Click on the "COMPILE" button to show only the tests finally selected. **For more information on use of this form, see DSA-103.INSTR.**

Note: References are to the 2013 edition of the California Building Code (CBC) unless otherwise noted.

REQUIRED	TEST OR SPECIAL INSPECTION	TYPE[1]	PERFORMED BY[2]	CODE REFERENCE AND NOTES
-	**SOILS**			
-	**1. GENERAL:**	Table 1705A.6		
X	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, and • materials below footings are adequate to achieve the design bearing capacity.	Periodic	GE*	* By geotechnical engineer or his or her qualified representative.
-	**4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):**	Table 1705A.7		
X	a. Inspect drilling operations and maintain complete and accurate records for each pier.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
X	b. Verify locations of piers.	Continuous	PI	
X	c. Confirm pier diameters, plumbness, bell diameters (if applicable), lengths, and embedment into bedrock (if applicable). Record concrete or grout volumes.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
X	e. Concrete piers.	Provide tests and inspections per CONCRETE section below.		
-	**CONCRETE**	Table 1705A.3		
-	**7. CAST IN PLACE CONCRETE**			
	Material Verification and Testing:			
X	a. Verify use of required design mix.	Periodic	SI & PI*	* To be performed by batch-plant special inspector and project inspector.
X	b. Test reinforcing steel.	Test	Lab	1913A.2 (1913.2.6*). ASTM A370. DSA IR 17-10
X	c. Perform slump, temperature, and (where required) air content tests.	Test	Lab	ASTM C172, ASTM C31.
X	d. Test concrete (compression).	Test	Lab	ACI 318 Section 5.6 and 1905A.1.2 (1913.3.1*). ASTM C39.
X	g. Inspect placement of formwork, reinforcing steel, embedded items and concrete. Inspect curing and form removal.	Continuous	PI*	* May be performed by a special inspector when specifically approved by DSA.
+	**MASONRY**	TMS 402-11/ACI 530-11/ASCE 5-11 Table 1.19.3		
-	**STEEL**	Table 1705A.2.1		
-	**17. STRUCTURAL STEEL AND COLD-FORMED STEEL USED FOR STRUCTURAL PURPOSES**			
	Material Verification:			
X	a. Verify that all materials are appropriately marked and that: • Mill certificates indicate material properties that comply with requirements, • Material sizes, types and grades comply with requirements.	Periodic	-	* By special inspector when performed off-site; by project inspector for steel shipped directly to project site without welding or fabrication.
X	b. Test unidentified materials	Test	Lab	2203A.1 (2203.1*). ASTM A370.
X	c. Examine seam welds of structural tubes and pipes	Periodic	SI*	* DSA IR 17-3.
	Inspection:			
X	d. Verify member locations, bracing and all details constructed in the field.	Continuous	PI	
X	e. Verify stiffener locations, connection tab locations and all construction details fabricated in the shop.	Periodic	SI	
-	**18. HIGH STRENGTH BOLTS:**			
	Material Verification of High-Strength Bolts, Nuts, and Washers:			
X	a. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA approved documents.	Periodic	SI	DSA IR 17-9
X	b. Test high-strength bolts, nuts and washers.	Test	Lab	2213A.1 (2212.6.1*). ASTM F606, A370. DSA IR 17-8
	Inspection of High-Strength Bolt Installation:			
X	d. Slip-critical connections.	*	SI	* "Continuous" or "Periodic" depends on the tightening method used, DSA IR 17-9 and 1705A.2.1.
-	**19. WELDING:**			DSA IR 17-3, AWS D1.1 and AWS D1.8 (AWS D1.3 for cold formed steel).
	Verification of Materials, Equipment, Welders, etc:			
X	a. Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS.	Periodic	SI	
X	b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	
X	c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.
-	**19.1 SHOP WELDING:**			
X	a. Inspect groove, multi-pass, and fillet welds > 5/16"	Continuous	SI	Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.
X	b. Inspect single-pass fillet welds ≤ 5/16"	Periodic	SI	Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.
+	**WOOD**			
+	**OTHER**			

1 Soils testing and Inspection: Geotechnical Verified Report - Form DSA-293
2 All Structural Testing: Laboratory Verified Report - Form DSA-291
3 Concrete Batch Plant Inspection: Special Inspection Verified Report - Form DSA-292
4 Shop Welding Inspection: Special Inspection Verified Report - Form DSA-292
5 HS Bolt Installation Inspection: Special Inspection Verified Report - Form DSA-292

KEY to Columns	
1 Type -	2 Performed By -
Continuous – Indicates that a continuous special inspection is required	**GE** – Indicates that the special inspection is to be performed by a registered geotechnical engineer or his or her authorized representative
Periodic – Indicates that a periodic special inspection is required	**Lab** – Indicates that the test or inspection is to be performed by a testing laboratory accepted in the DSA laboratory Evaluation and Acceptance (LEA) Program. See section 4-335, 2013 CCR Title 24, Part 1.
Test – Indicates that a test is required	**PI** – Indicates that the special inspection is to be performed by the project inspector
	SI – Indicates that the special inspection is to be performed by a special inspector

Name of Architect or Engineer in general responsible charge
THOMAS A. BURKHART
Name of Structural Engineer (When structural design has been delegated)
T.A. Burkhart 8/28/14
Signature of Architect or Structural Engineer date

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. # 02-113593
AC N/A F/LS N/A SS
DATE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03-119278
AC FLS SS VC
Date AUG 29 2018

REGISTERED PROFESSIONAL ENGINEER — THOMAS A. BURKHART — No. S4378 — Exp. 3/31/16 — STRUCTURAL — STATE OF CALIFORNIA

CARLTON Engineering Inc.

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STATE APPROVALS

PRE-CHECK (PC) DOCUMENT
CODE: 2013 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

SPECIAL INSPECTIONS

COVERED WALKWAY (CWC)
PC DRAWINGS

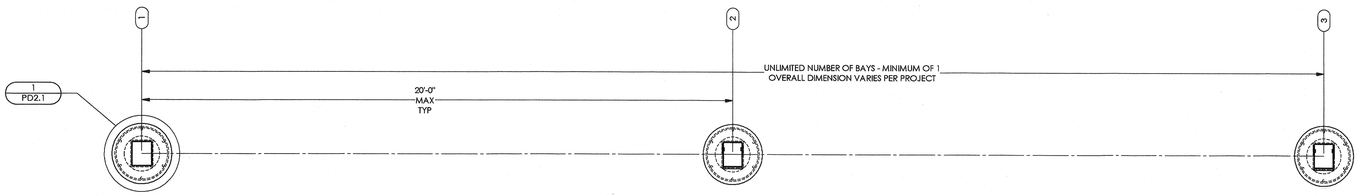
DRAWN BY: JMD
CHECKED BY: CE
POLIGON #: 51440

PD1.1

2014A

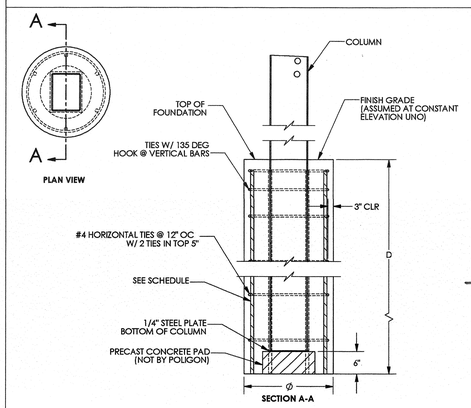
FOUNDATION PLAN NOTES:

1. TOP OF ALL FOUNDATIONS MUST BE CONSTRUCTED AT ONE COMMON ELEVATION (COORDINATE WITH SITE PLANS - NOT BY POLIGON)
2. ALL FOUNDATIONS MUST BE CENTERED UNDER COLUMNS (UNO).
3. SEE SHEET PD1.0 FOR CONCRETE REQUIREMENTS.
4. PRIOR TO FORMING AND CASTING FOUNDATIONS, REVIEW FOUNDATION PLAN FOR REQUIRED ORIENTATION.
5. FOUNDATION MATERIAL AND INSTALLATION NOT BY POLIGON.
6. VIBRATE CONCRETE FULL DEPTH OF FOUNDATION.
7. FOR DRILLED PIER FOUNDATIONS, PREVENT SOIL FROM ENTERING EXCAVATED HOLE (FORM, ETC).



FOUNDATION PLAN (DRILLED PIER)

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



FOUNDATION REQUIREMENTS VARY PER PROJECT
SEE SHEET PD1.0 FOR REQUIRED LOAD SCENARIO (STEP 6 OF 'INSTRUCTIONS')
ONLY REFERENCE COPY OF PC DRAWINGS SUBMITTED FOR THIS PROJECT

DRILLED PIER
SIZE AND REINFORCING REQUIREMENTS

LOAD SCENARIO	DIAMETER (Ø)	DEPTH (D)	VERTICAL REINFORCING[1]	
			QTY	SIZE
~~1~~	~~2'-0"~~	~~12'-0"~~	~~6~~	~~#6~~
~~2~~	~~2'-0"~~	~~13'-6"~~	~~6~~	~~#6~~
3	2'-0"	13'-6"	6	#6
~~4~~	~~2'-0"~~	~~13'-6"~~	~~6~~	~~#6~~

[1] EQUALLY SPACED AROUND DRILLED PIER

PRIOR TO CONCRETE PLACEMENT, POLIGON STRONGLY RECOMMENDS ERECTING ENOUGH OF THE FRAME (E.G. BEAMS AND PURLINS) TO ENSURE ACCURATE COLUMN SPACING, ROTATION, AND VERTICALITY.

DRILLED PIER FOUNDATION (BURIED COLUMN) — 1

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03-119278
AC FLS SS
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02 113393
AC FLS SS
DATE 8-27-18

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PRE-CHECK (PC) DOCUMENT

CODE: 2013 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

FOUNDATION PLAN
CWC 10

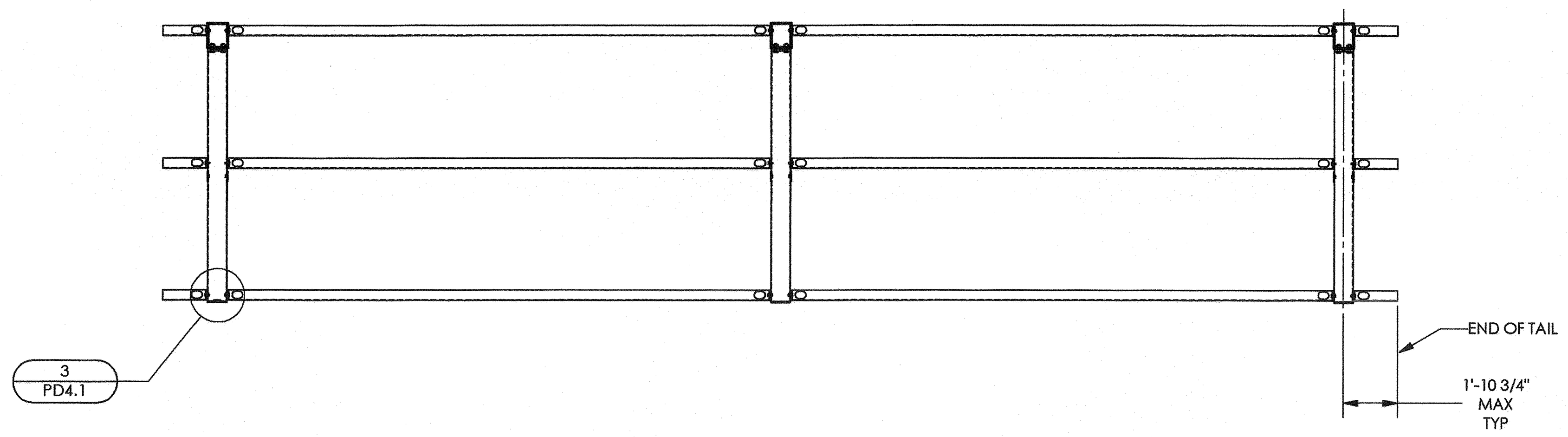
COVERED WALKWAY (CWC)
PC DRAWINGS

DRAWN BY: JMD
CHECKED BY: CE
POLIGON #: 51460

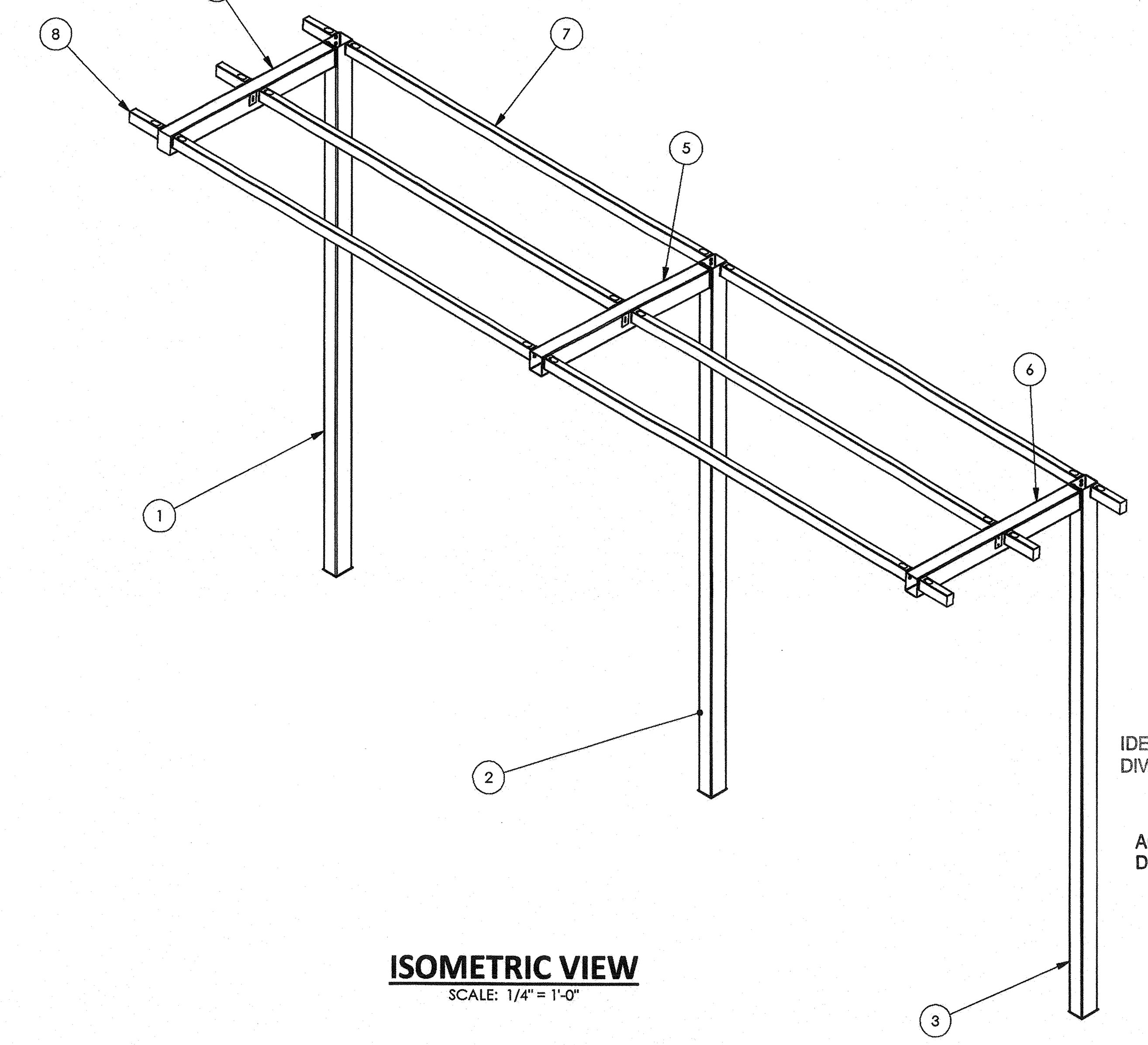
PD2.1

REGISTERED PROFESSIONAL ENGINEER
THOMAS A. BURKHART
No. 54376
Exp. 3/31/14
STRUCTURAL
STATE OF CALIFORNIA

2014A



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



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

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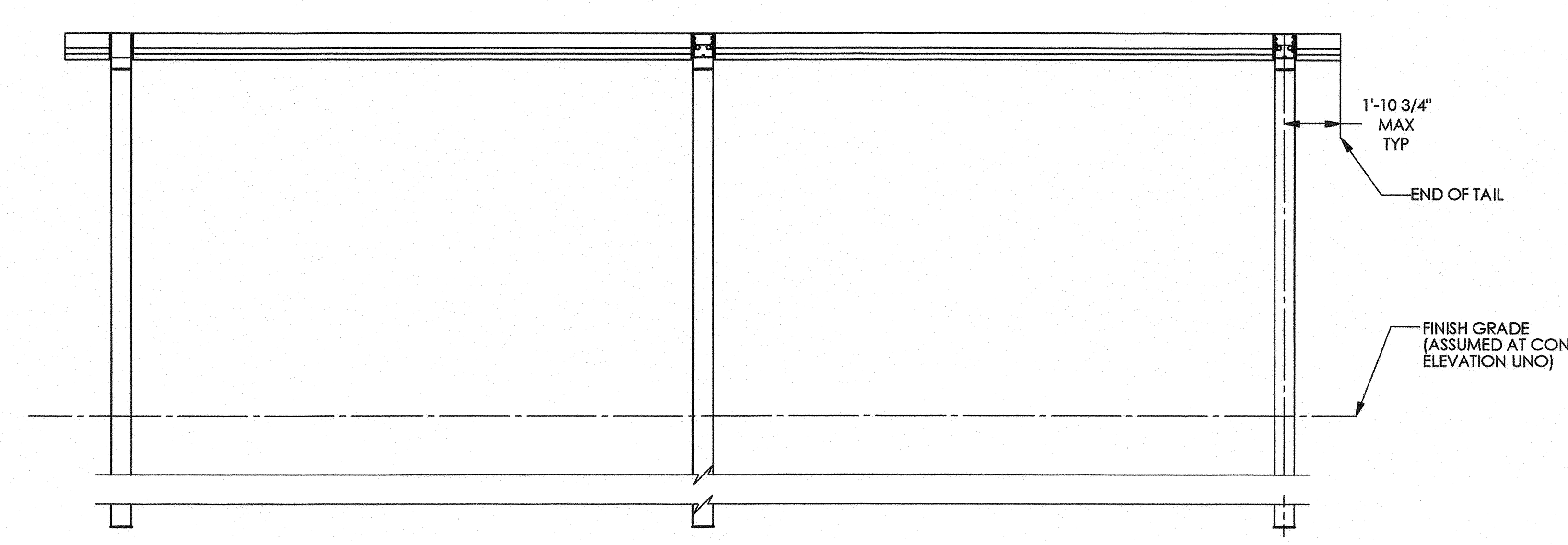
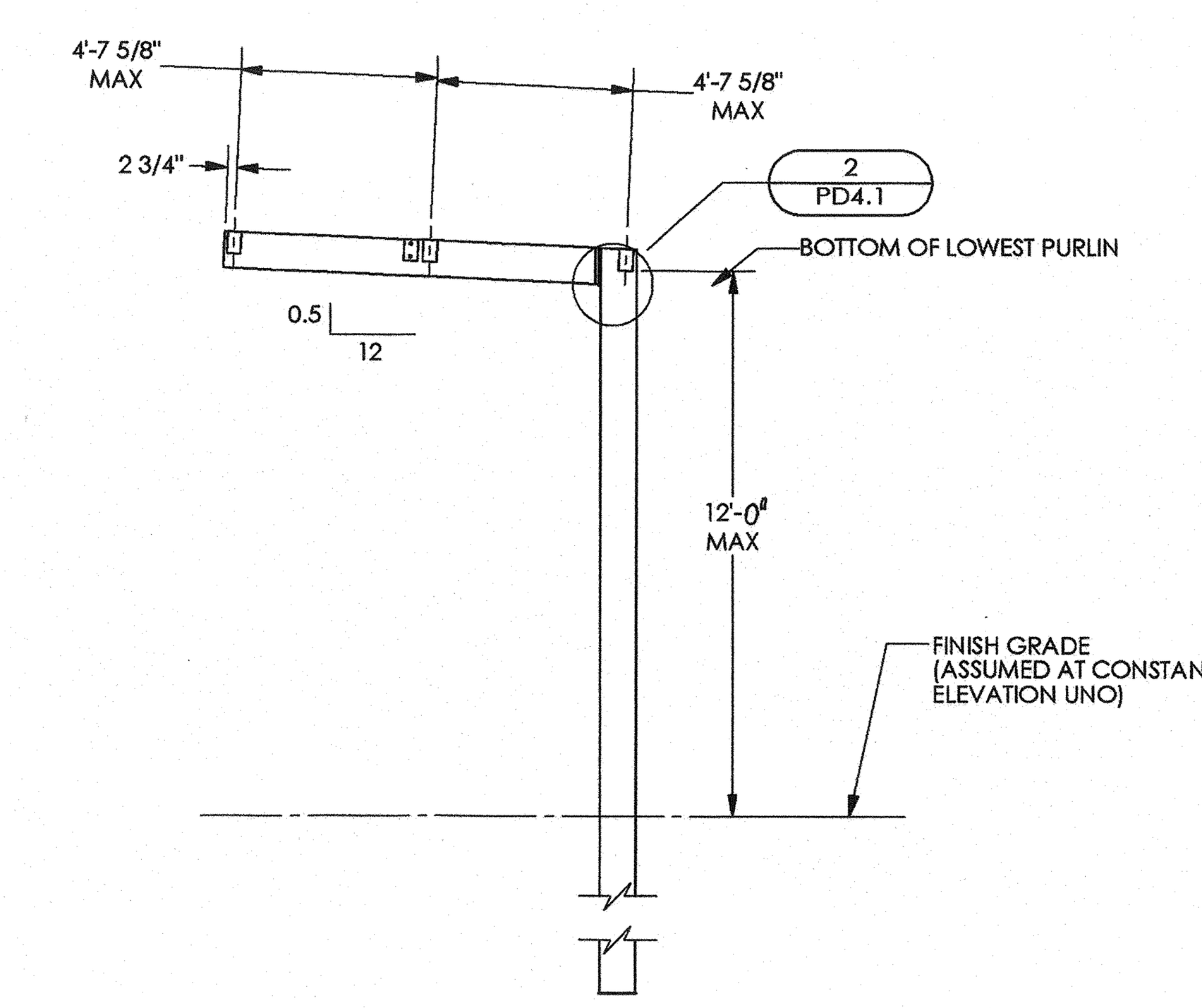
DIV. OF THE STATE ARCHITECT
03-119278
AC / FLS / SS VC
Date AUG 29 2018



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



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

REGISTERED PROFESSIONAL ENGINEER
THOMAS A. BURKHART
No. S4378
Exp. 3/31/16
STRUCTURAL
STATE OF CALIFORNIA

8	6	-	TAIL ASM	HSS6X4X1/8
7	6	-	PURLIN ASM	HSS6X4X1/8
6	1	-	BEAM ASM, RH	HSS10X8X1/4
5	1	-	BEAM ASM, MID	HSS10X8X1/4
4	1	-	BEAM ASM, LH	HSS10X8X1/4
3	1	-	COLUMN ASM, RH	HSS10X8X1/4
2	1	-	COLUMN ASM, MID	HSS10X8X1/4
1	1	-	COLUMN ASM, LH	HSS10X8X1/4
ITEM	FRAME/QTY.	PART NO.	DESCRIPTION	MATERIAL

TEAM DRIVEN SOLUTIONS FOR THE BUILT ENVIRONMENT
CARLTON Engineering Inc.

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STATE APPROVALS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 115593
AC / FLS / SS
DATE

PRE-CHECK (PC) DOCUMENT

CODE: 2013 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

FRAMING PLAN
CWC 10

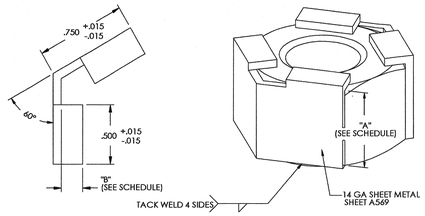
COVERED WALKWAY (CWC)
PC DRAWINGS

DRAWN BY: JMD
CHECKED BY: CE
POLIGON #: 51460

PD3.1

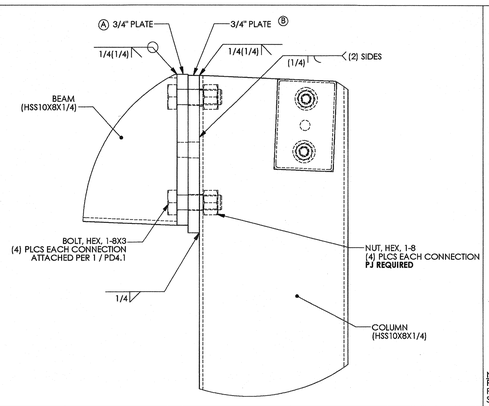
2014A

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

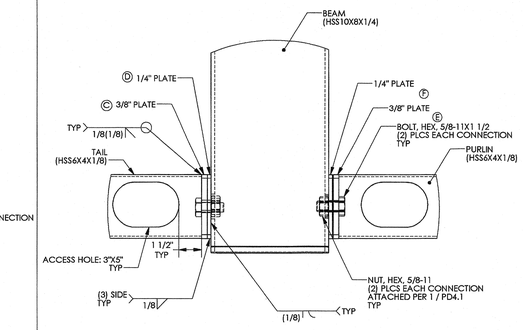


DIMENSION SCHEDULE		
FASTENER	DIM A	DIM B
5/8" NUT	.631 +.000 -.015	.180 +.015 -.015
5/8" BOLT	.403 +.000 -.015	.250 +.015 -.015
3/4" NUT	.758 +.000 -.015	.180 +.015 -.015
3/4" BOLT	.483 +.000 -.015	.375 +.015 -.015
1" NUT	1.012 +.000 -.015	.180 +.015 -.015
1" BOLT	.643 +.000 -.015	.375 +.015 -.015

NUT & BOLT RESTRAINING SYSTEM 1



BEAM CONNECTION @ COLUMN 2



NOTE:
PURLINS DETAILED AND FABICATED TO BE 1/8" SHORT.
POLIGON WILL PROVIDE (2)1/8" PLATES FOR EVERY PURLIN TO ACCOMODATE FOR CONSTRUCTION TOLERANCES.
SEE G/ PD6.1 FOR SHIM PLATE DETAIL.

PURLIN AND TAIL CONNECTION @ BEAM 3

FRAME CONNECTION DETAIL NOTES:

1. SEE SECTIONS ON SHEET PD5.1.
2. SEE PLATE Ⓧ DETAILS ON SHEET PD6.1
3. COVER ACCESS HOLES WITH GRACE ICE AND WATER SHIELD BEFORE ATTACHING ROOF DECK.

poligon®

TEAM DRIVEN SOLUTIONS FOR THE BUILT ENVIRONMENT
CARLTON
Engineering Inc.
2365 IRON POINT ROAD
SUITE 220
FOLSOM, CA 95630
VOICE: 916.932.7855
FAX: 916.932.7846

STATE APPROVALS

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~~02 113593~~
~~AC ✓ FLS — SS~~
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DIV. OF THE STATE ARCHITECT
03-119278
AC ✓ FLS ✓ SS VC
Date AUG 29 2018

PRE-CHECK (PC) DOCUMENT

CODE: 2013 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

FRAME CONNECTION DETAILS
CWC 10

COVERED WALKWAY (CWC)
PC DRAWINGS

DRAWN BY: JMD
CHECKED BY: CE
POLIGON #: 51460

THOMAS A. BURKHART
No. S4378
Exp. 3/31/16

PD4.1

2014A

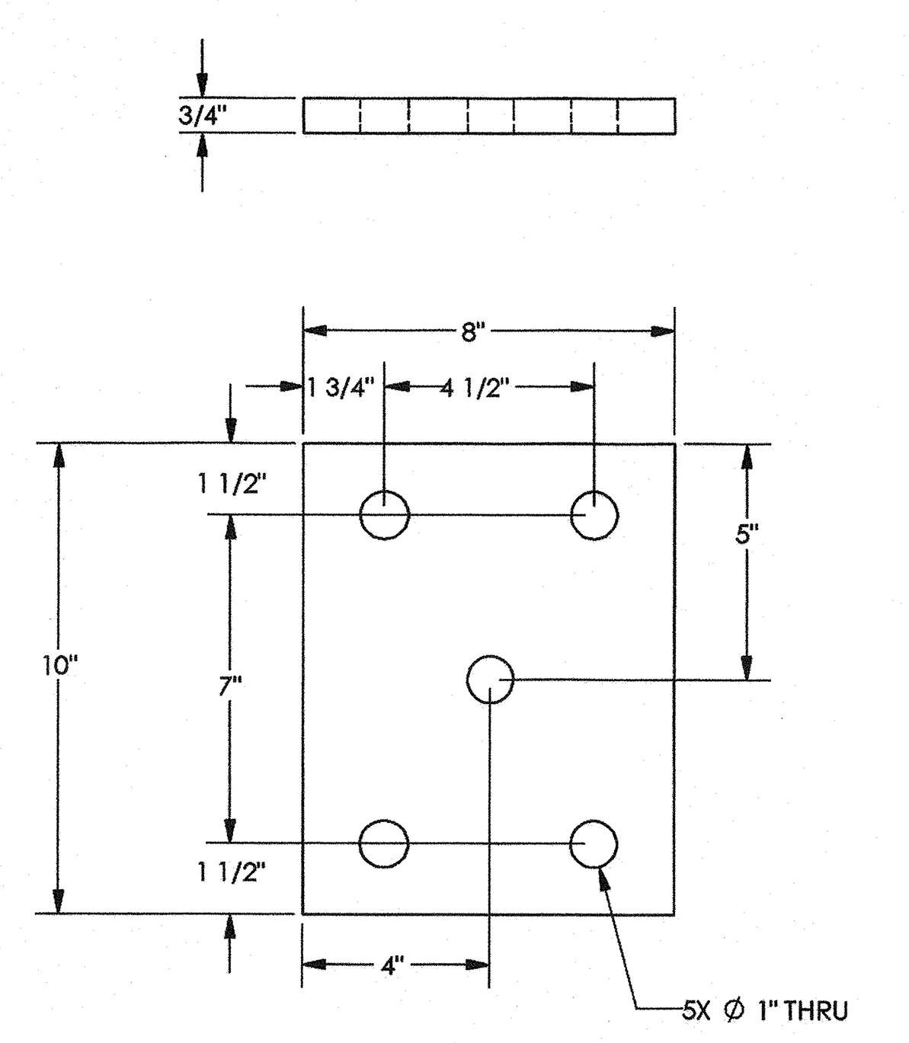
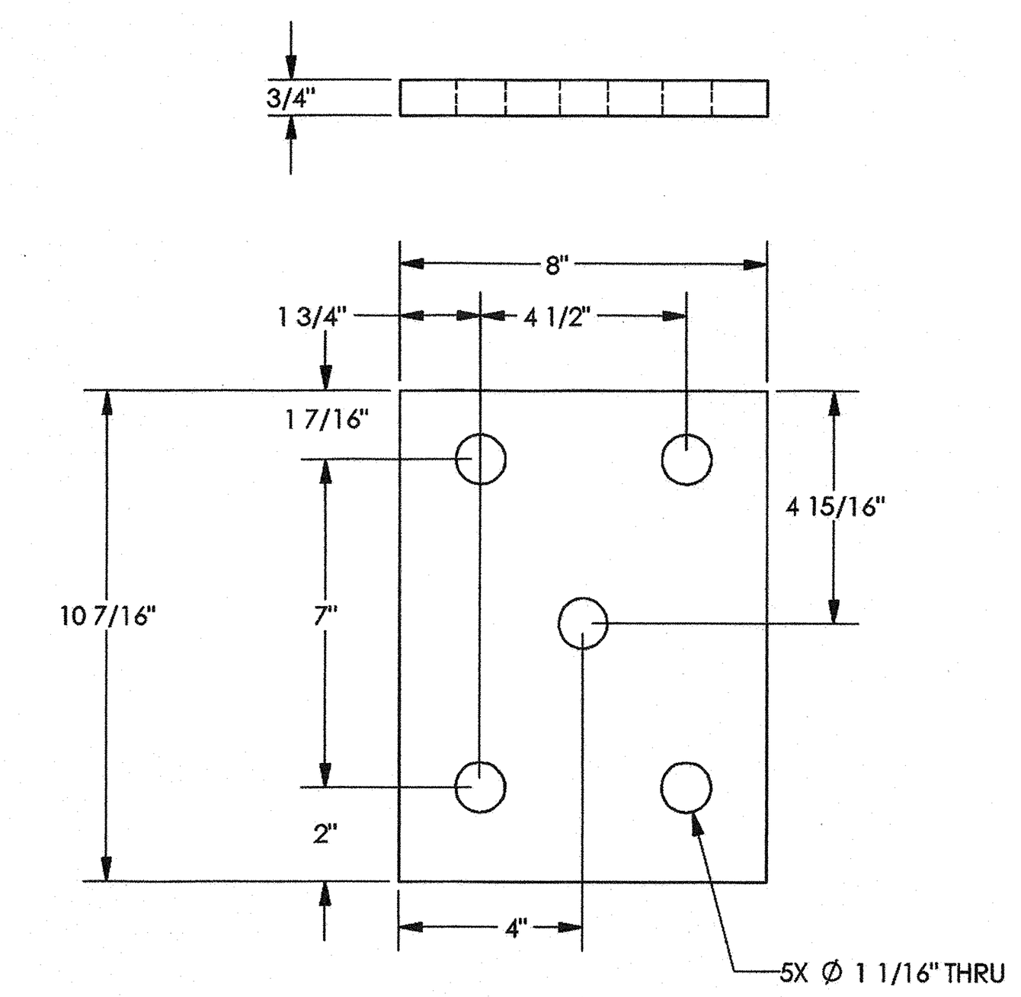


PLATE (A)



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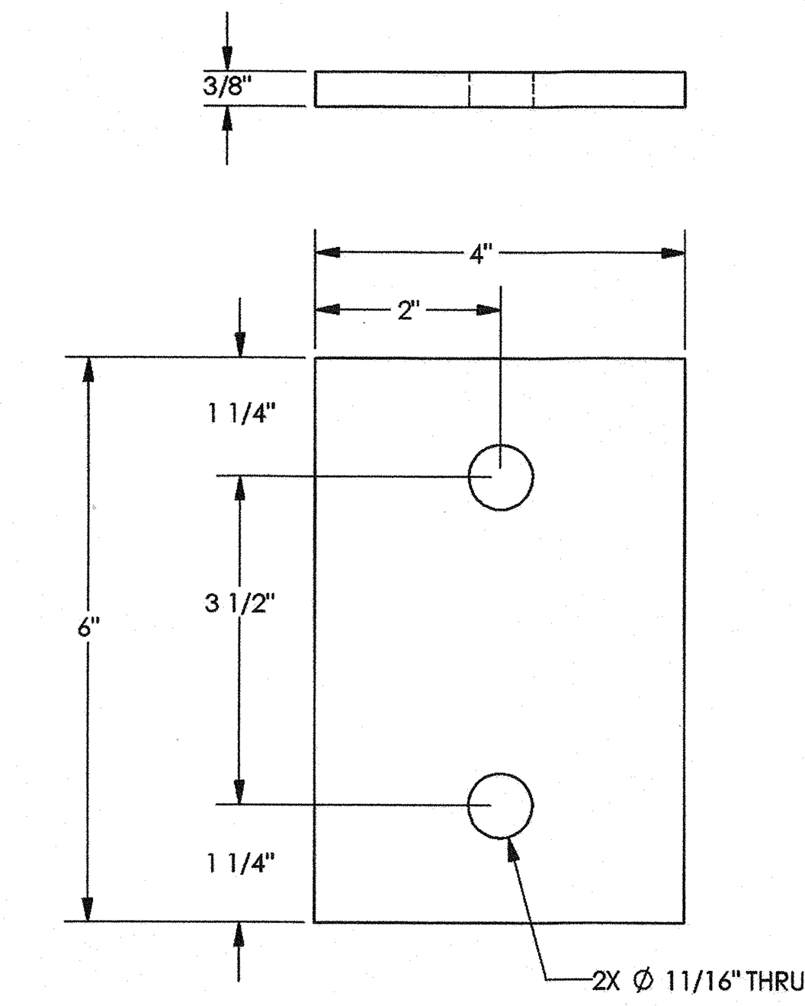

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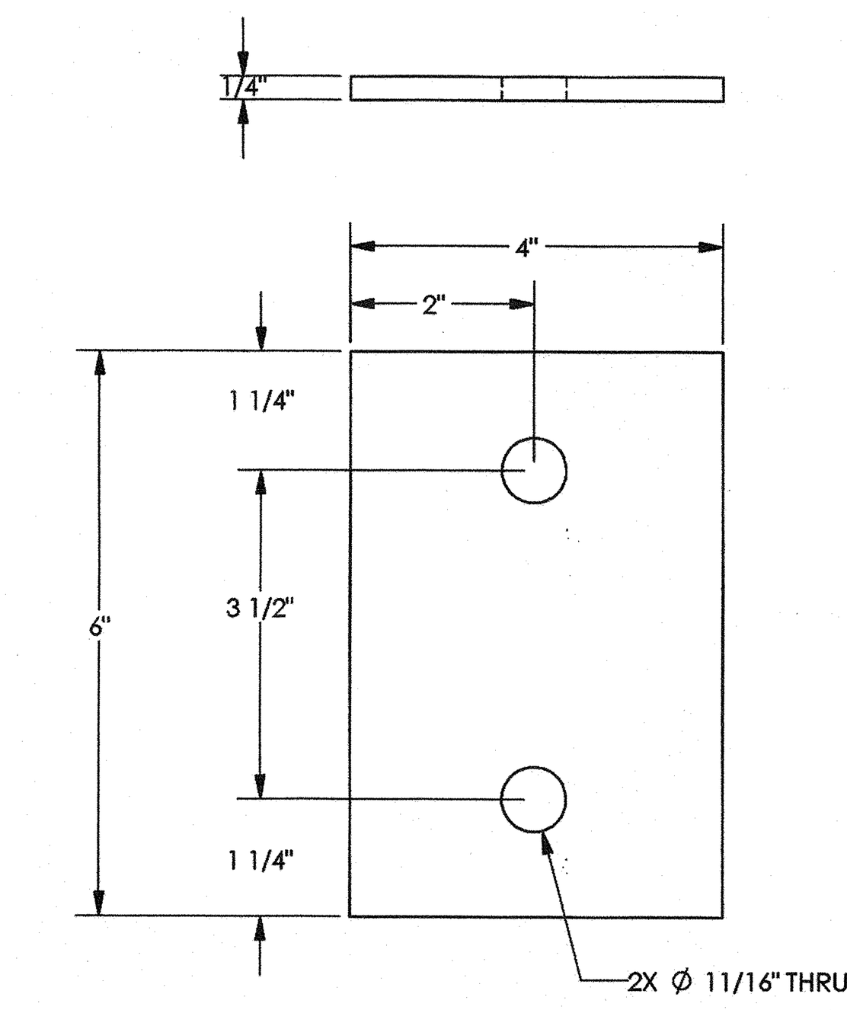

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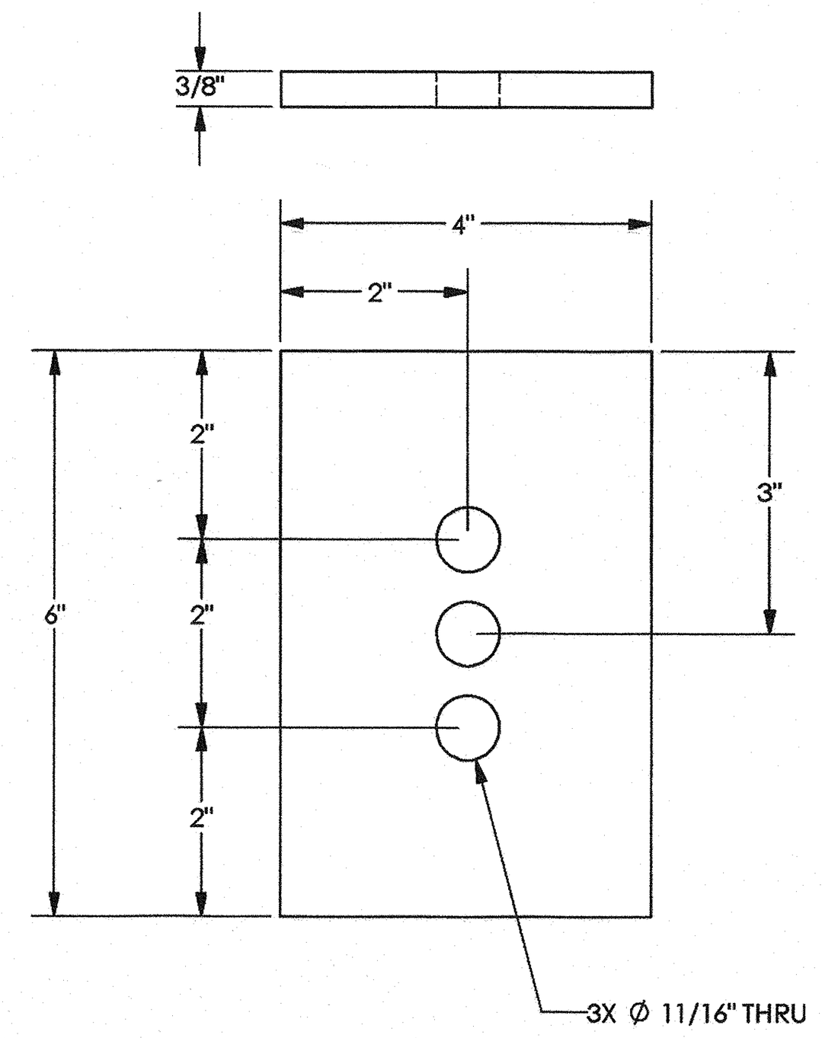

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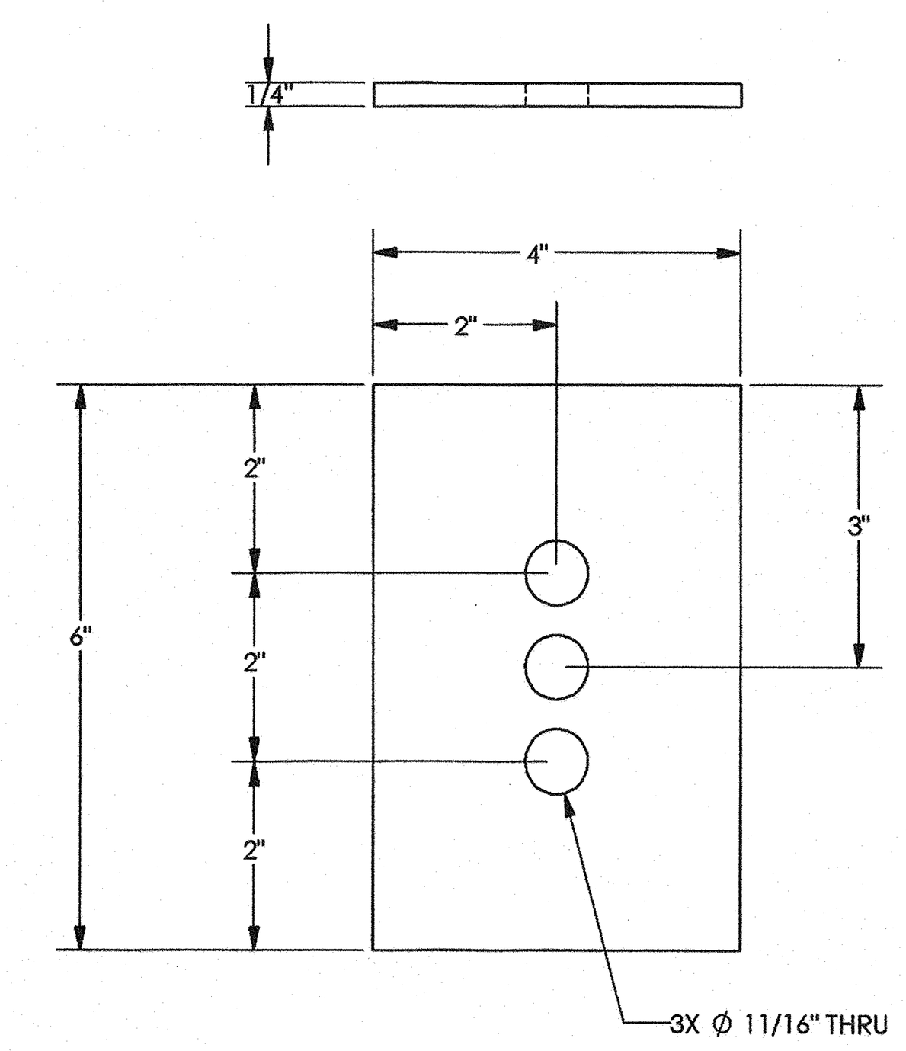

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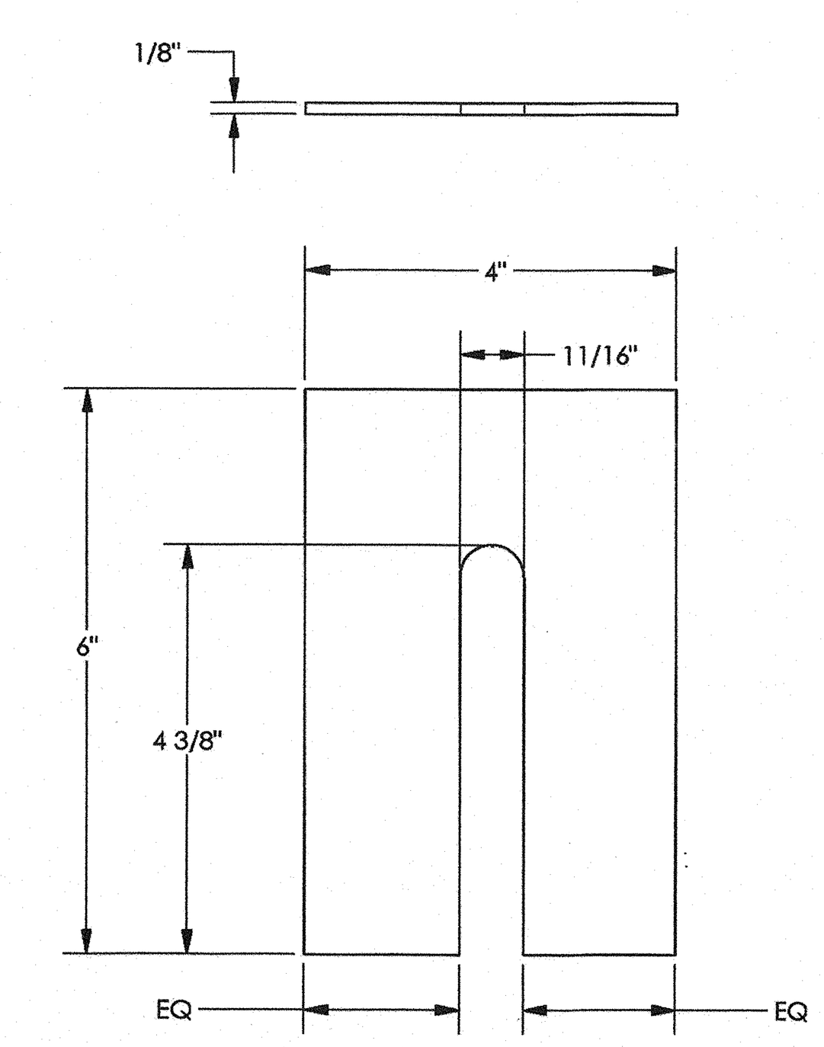

PLATE (G)

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PLATE DETAILS
CWC 10

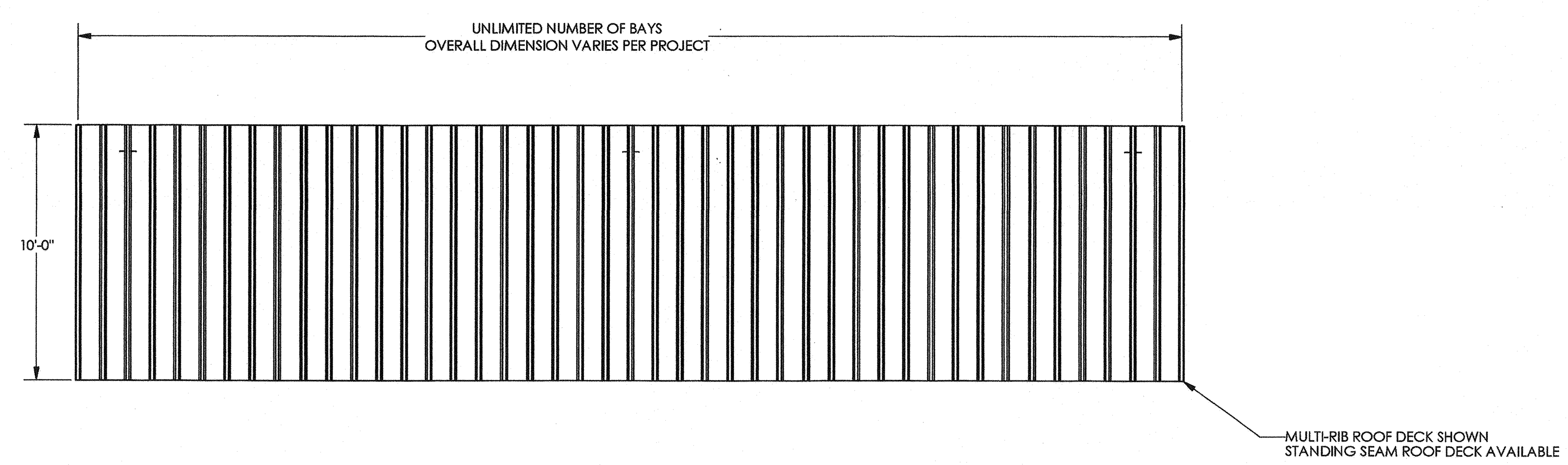
COVERED WALKWAY (CWC)
PC DRAWINGS

DRAWN BY: JMD
CHECKED BY: CE
POLIGON #: 51460

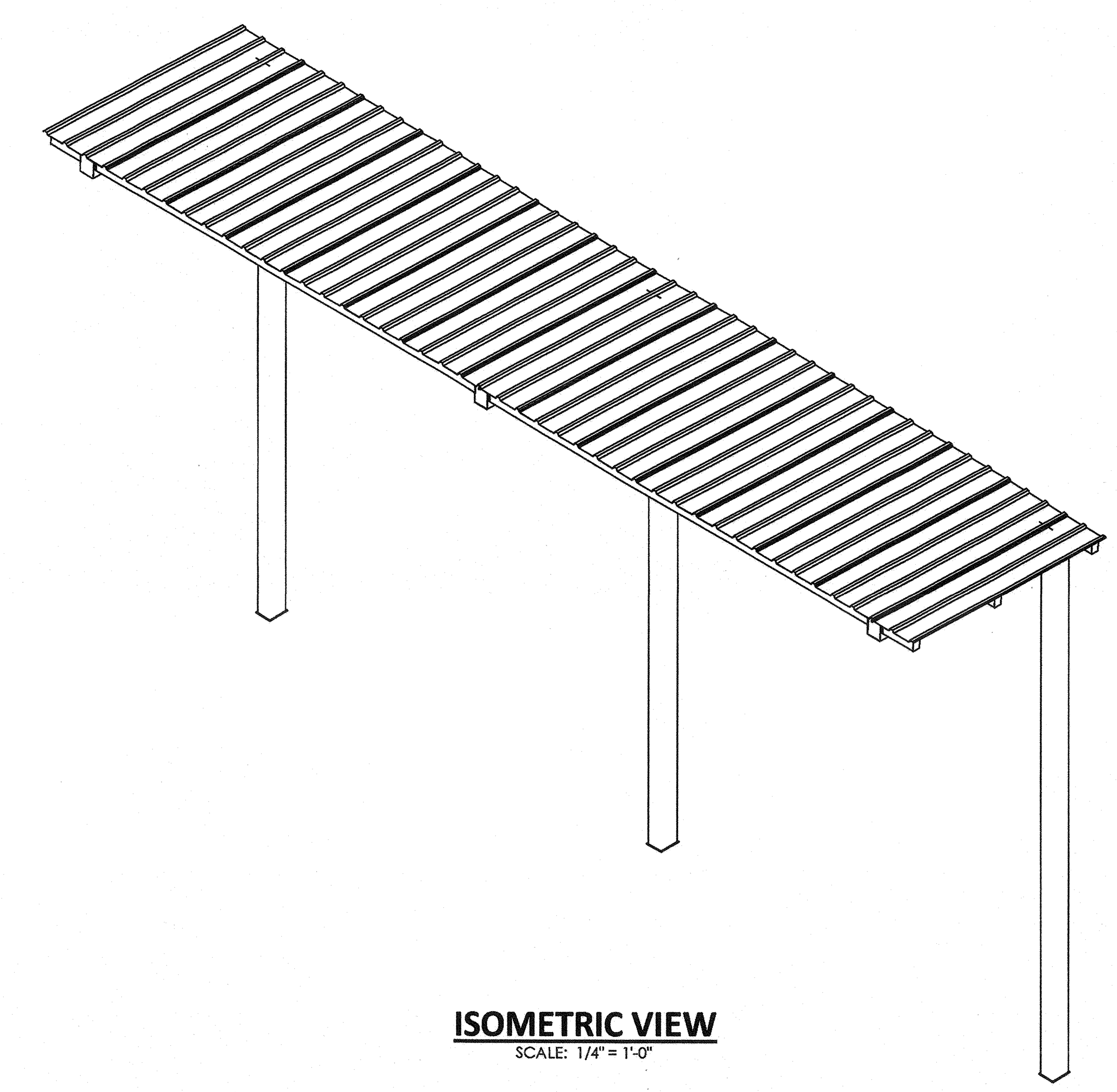
REGISTERED PROFESSIONAL ENGINEER THOMAS A. BURGHOFFER No. S4378 Exp. 3/31/16 STRUCTURAL STATE OF CALIFORNIA

PD6.1

2014A



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



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

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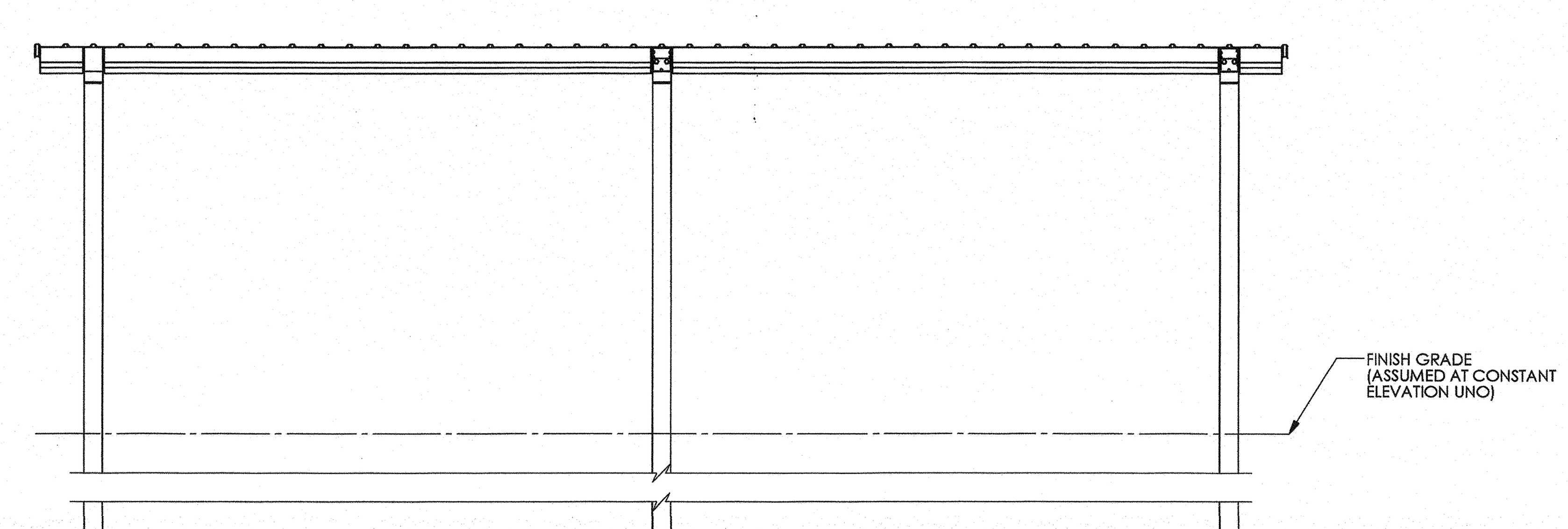
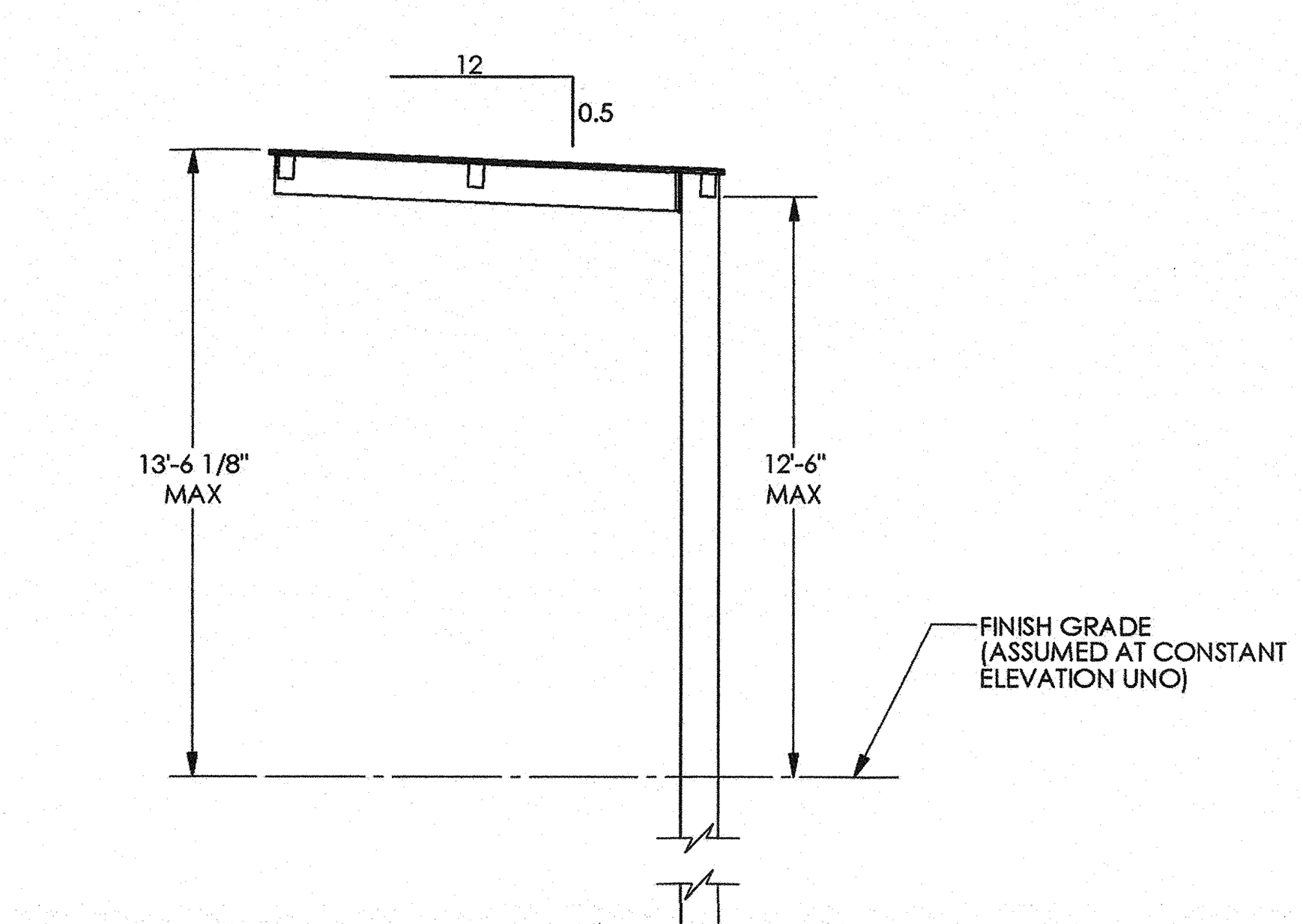


FRONT ELEVATION
SCALE: 1/4" = 1'-0"



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

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ARCHITECTURAL VIEWS
CWC 10

COVERED WALKWAY (CWC)
PC DRAWINGS

DRAWN BY: JMD
CHECKED BY: CE
POLIGON #: 51460

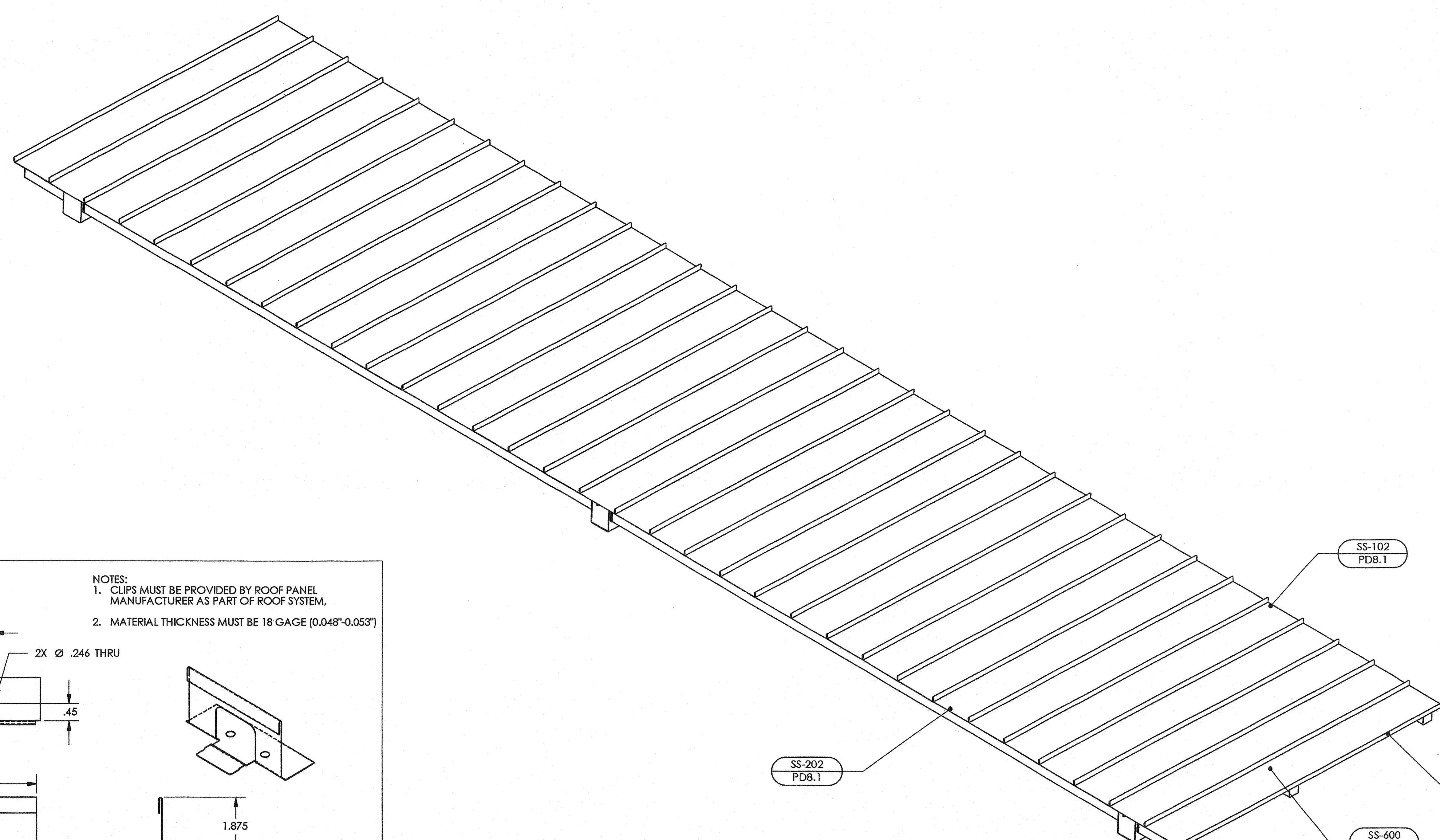
REGISTERED PROFESSIONAL ENGINEER
THOMAS A. BURKHARDT
No. S4378
Exp. 3/31/16
STRUCTURAL
STATE OF CALIFORNIA

PD7.1

2014A

ROOF LAYOUT NOTES (SS):

1. THE DETAILS SHOWN ARE SUGGESTIONS OR GUIDELINES ON HOW TO ERECT THE SYSTEMS. THE INFORMATION SHOWN IS ACCURATE, BUT IT IS NOT INTENDED TO COVER ALL INSTANCES, BUILDING REQUIREMENTS, DESIGNS OR CODES. THE DETAILS MAY REQUIRE CHANGES OR REVISIONS DUE TO FIELD CONDITIONS.
2. IT SHALL BE THE RESPONSIBILITY OF THE ERECTOR TO ENSURE THAT THE DETAILS MEET PARTICULAR BUILDING REQUIREMENTS AND TO ASSURE ADEQUATE WATER TIGHTNESS.
3. THE ERECTOR SHOULD THOROUGHLY FAMILIARIZE HIMSELF/HERSELF WITH ALL ERECTION INSTRUCTIONS BEFORE STARTING WORK.
4. THE PANELS SHOULD BE INSTALLED PLUMB, STRAIGHT, AND ACCURATELY TO THE ADJACENT WORK.
5. FLASHING AND TRIM SHALL BE INSTALLED TRUE, AND IN PROPER ALIGNMENT, WITH ANY EXPOSED FASTENERS EQUALLY SPACED FOR THE BEST APPEARANCE.
6. SEALANT SHALL BE FIELD APPLIED ON DRY, CLEAN SURFACES. SOME FIELD CUTTING AND FITTING OF PANELS AND FLASHING IS TO BE EXPECTED BY THE ERECTOR AND MINOR FIELD CORRECTIONS ARE A PART OF NORMAL ERECTION WORK.
7. WORKMANSHIP SHALL BE OF THE BEST INDUSTRY STANDARDS AND INSTALLATION SHALL BE PERFORMED BY EXPERIENCED METAL CRAFTSMEN.
8. METAL SHAVINGS FROM DRILLING OR INSTALLATION OF ROOF FASTENERS MUST BE CAREFULLY REMOVED FROM THE ROOF BY BRUSHING OR SWEEPING AT THE END OF EACH DAY DURING INSTALLATION. SHAVINGS LEFT ON THE ROOF WILL QUICKLY RUST AND STAIN THE ROOF FINISH.



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

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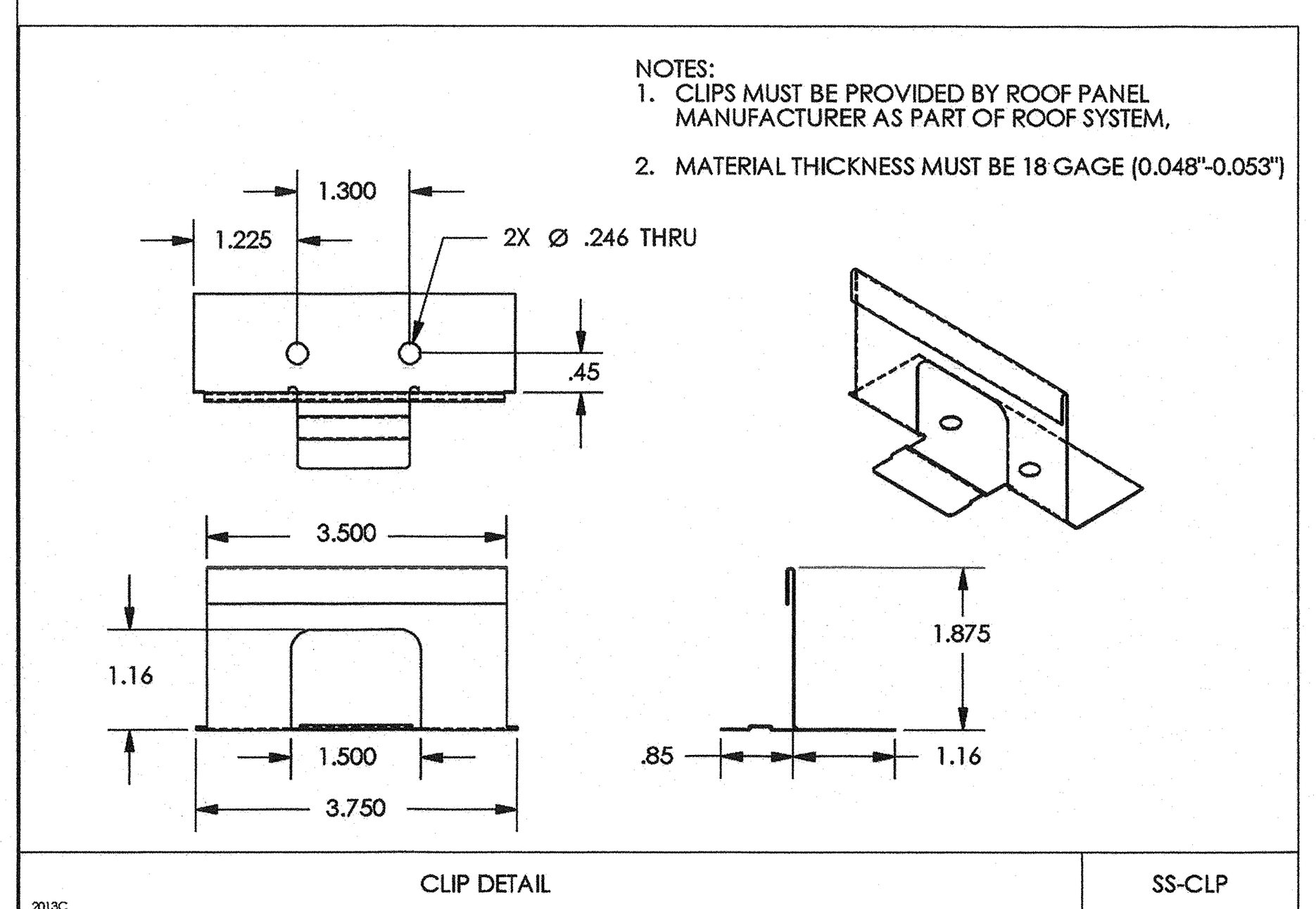
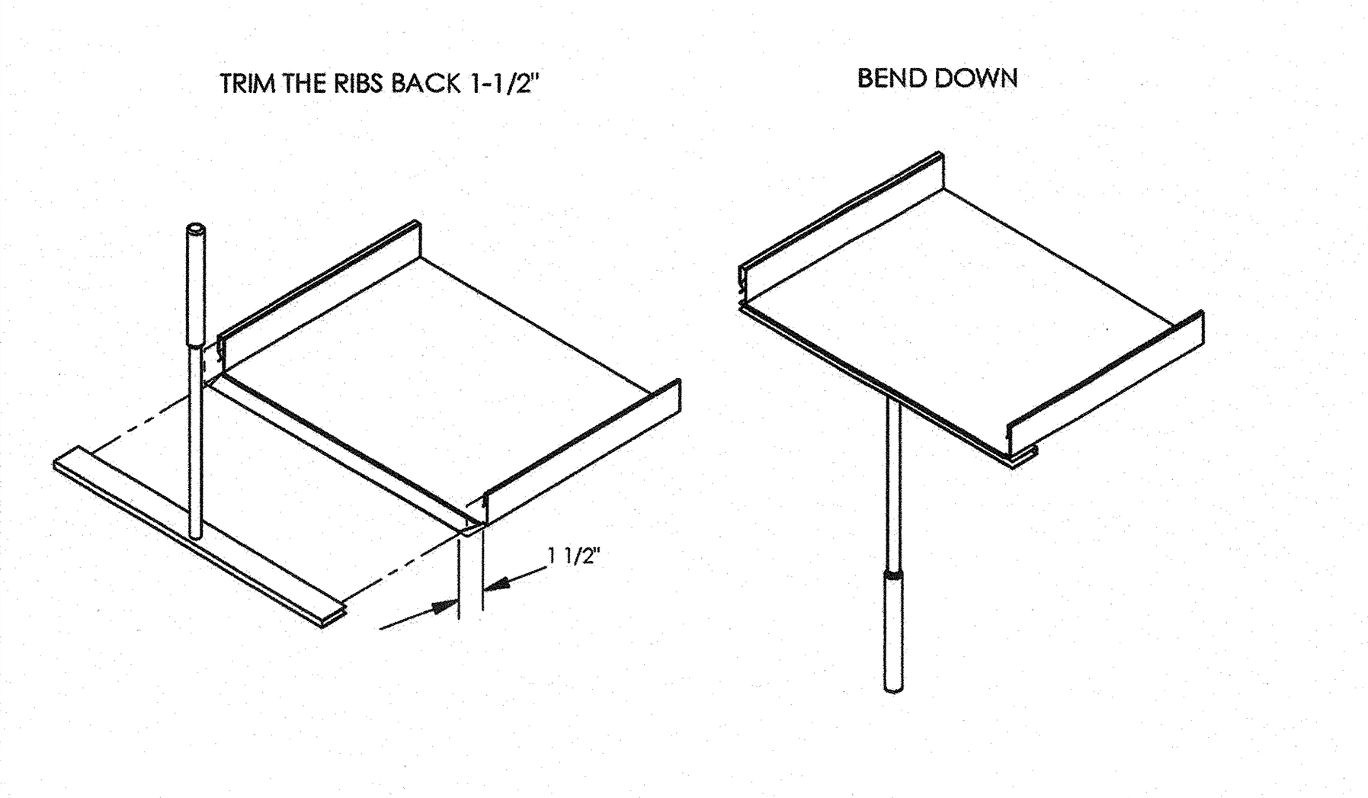
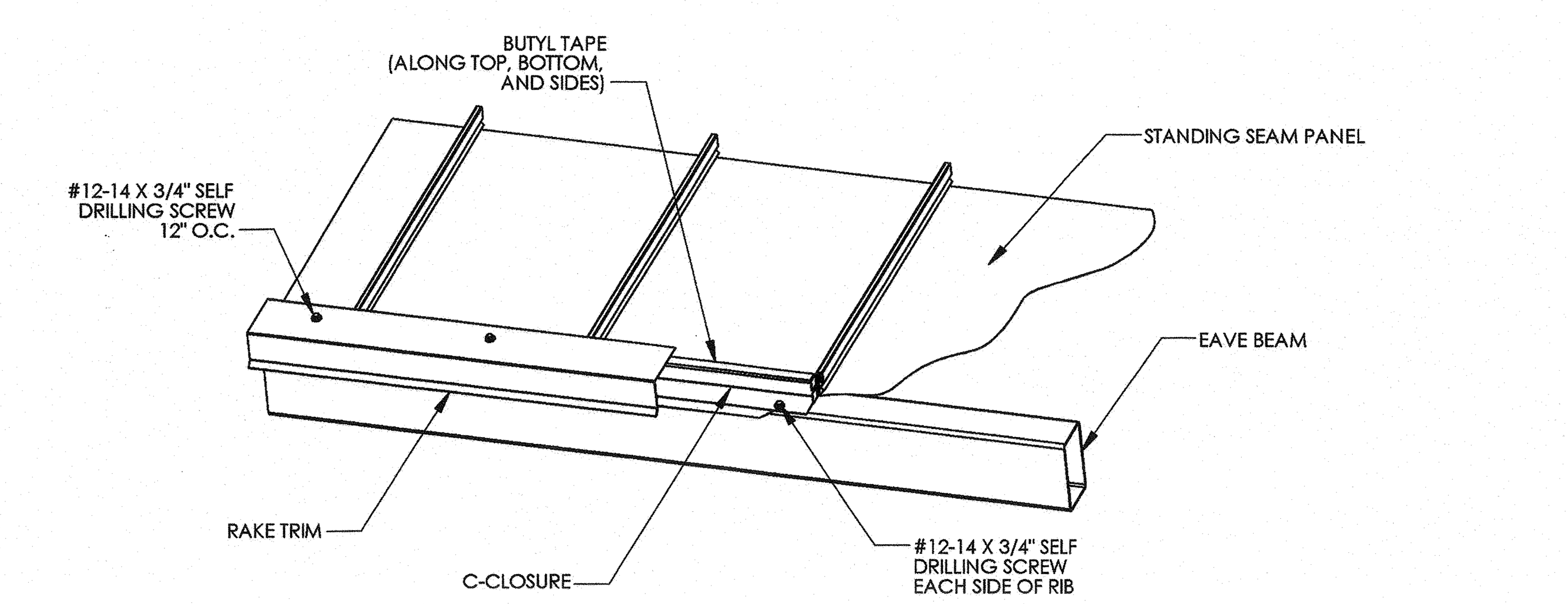
NOTES:
1. CLIPS MUST BE PROVIDED BY ROOF PANEL MANUFACTURER AS PART OF ROOF SYSTEM.
2. MATERIAL THICKNESS MUST BE 18 GAGE (0.048"-0.053")



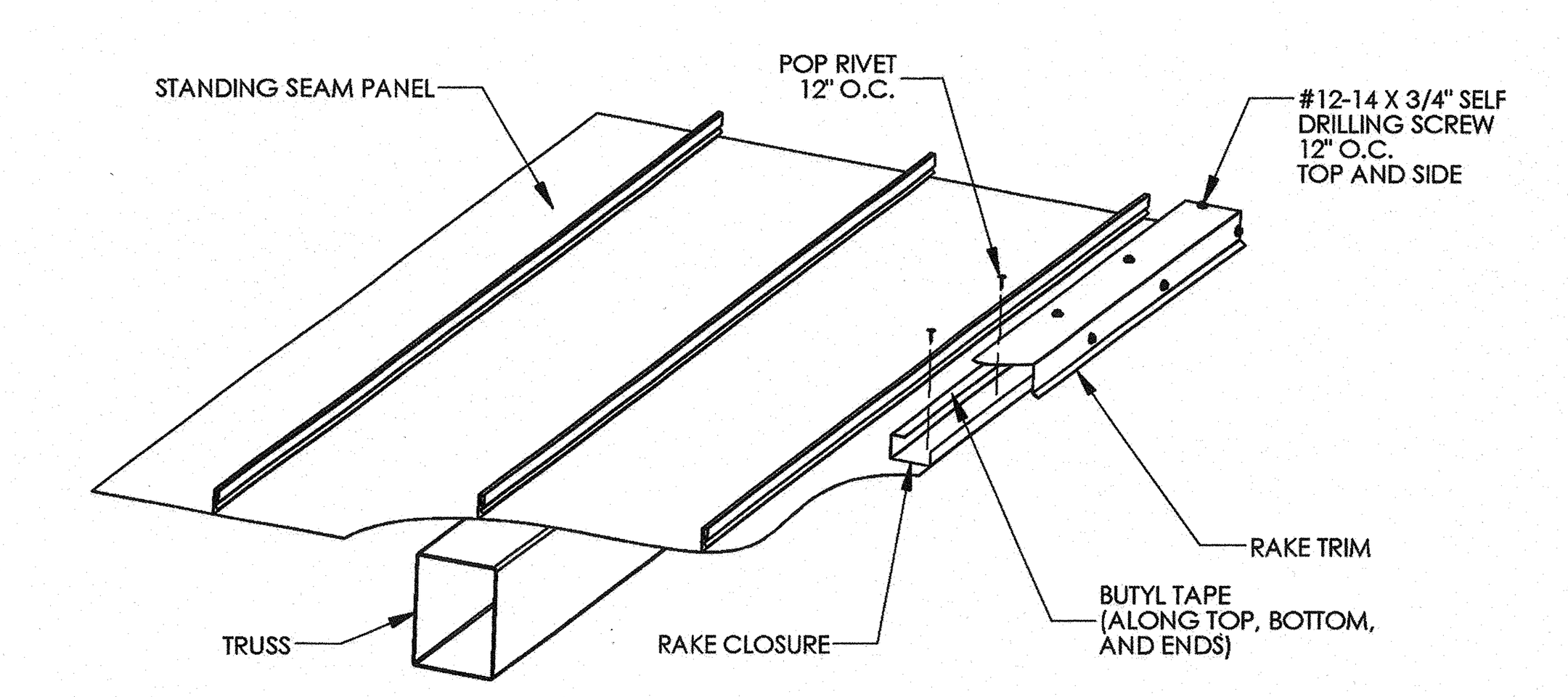
CLIP DETAIL | SS-CLP



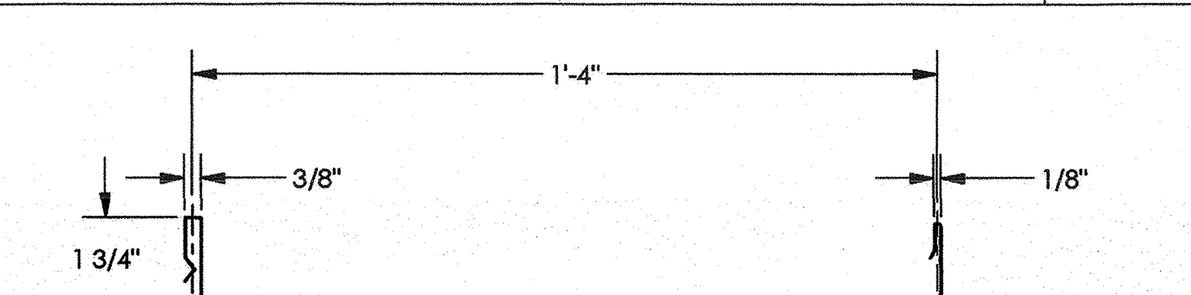
HEMMING DETAIL | SS-HEM



HIGH SIDE DETAIL (VIEWING FROM ABOVE) | SS-202



RAKE DETAIL | SS-400

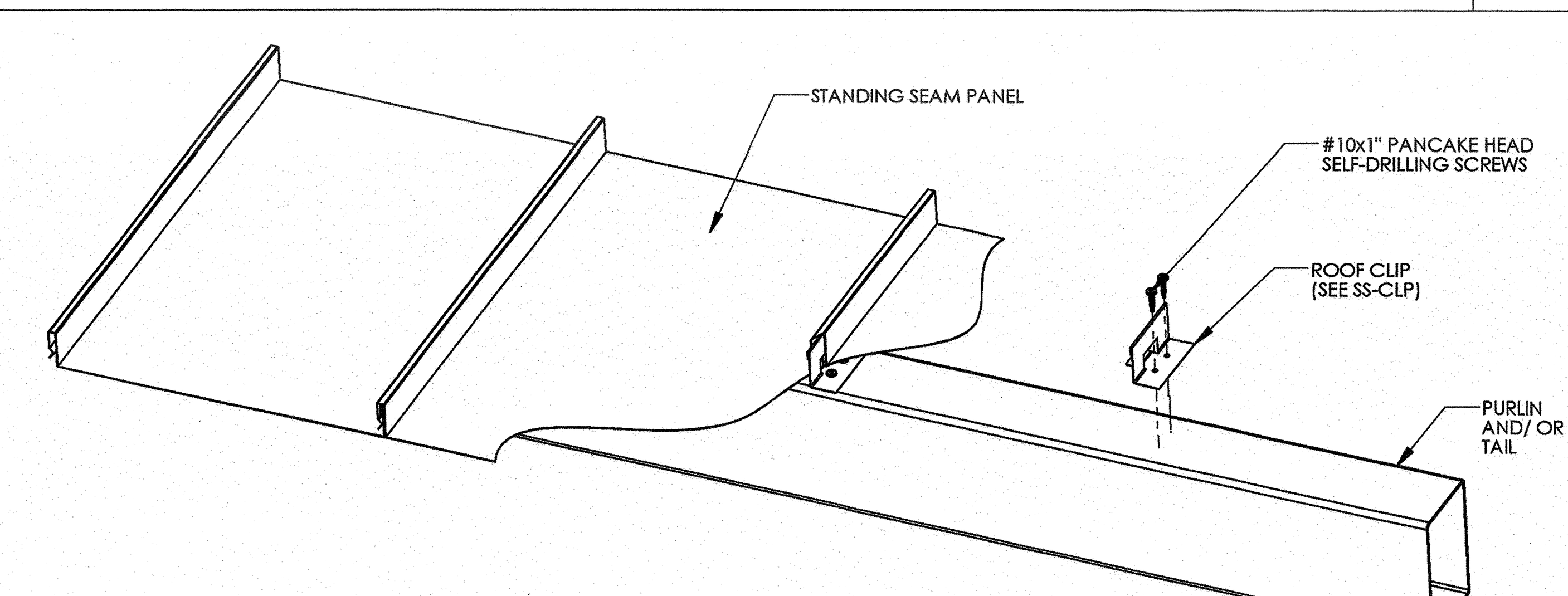


GENERAL:
GAGE = 22
Fy = 50 KSI

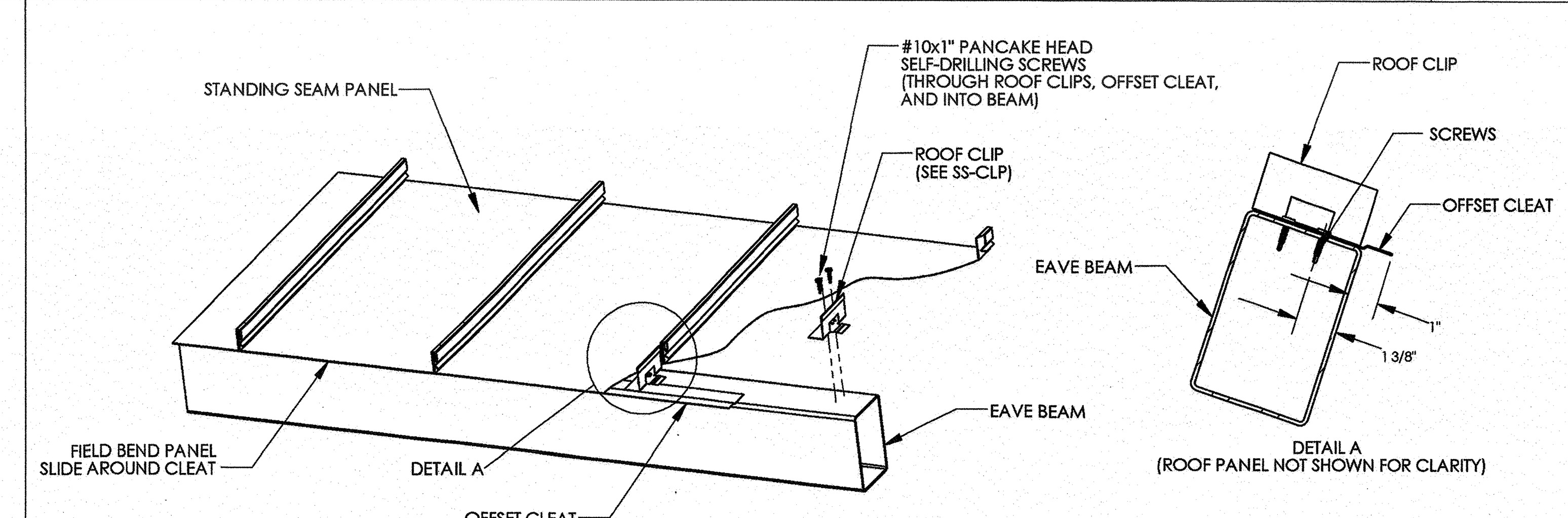
TOP IN COMPRESSION:
Ix=0.1222 IN^4
Se=0.0820 IN^3
Ma=2.4548 IN-KIPS

BOTTOM IN COMPRESSION:
Ix=0.0578 IN^4
Se=0.0746 IN^3
Ma=1.746 IN-KIPS

ROOF DECK SECTION PROPERTIES | SS-951



PURLIN DETAIL | SS-600



EAVE DETAIL | SS-102

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REGISTERED PROFESSIONAL ENGINEER
THOMAS A. BURKHART
No. S4378
Exp. 3/31/16
STRUCTURAL
STATE OF CALIFORNIA

PRE-CHECK (PC) DOCUMENT
CODE: 2013 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

ROOF CONNECTION DETAILS
SS ROOF DECK

COVERED WALKWAY (CWC)
PC DRAWINGS

DRAWN BY: JMD
CHECKED BY: CE
POLIGON #: 51460

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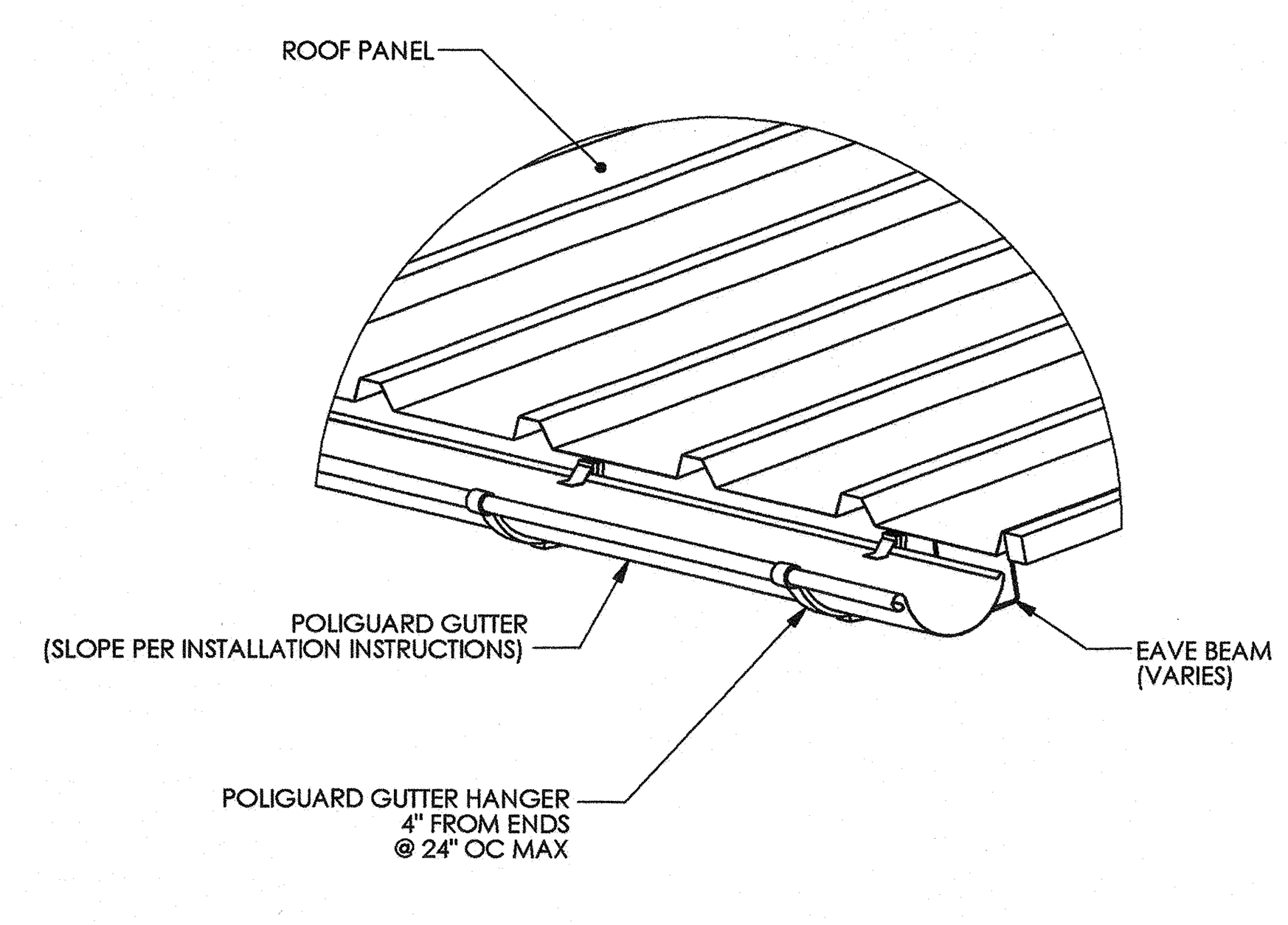
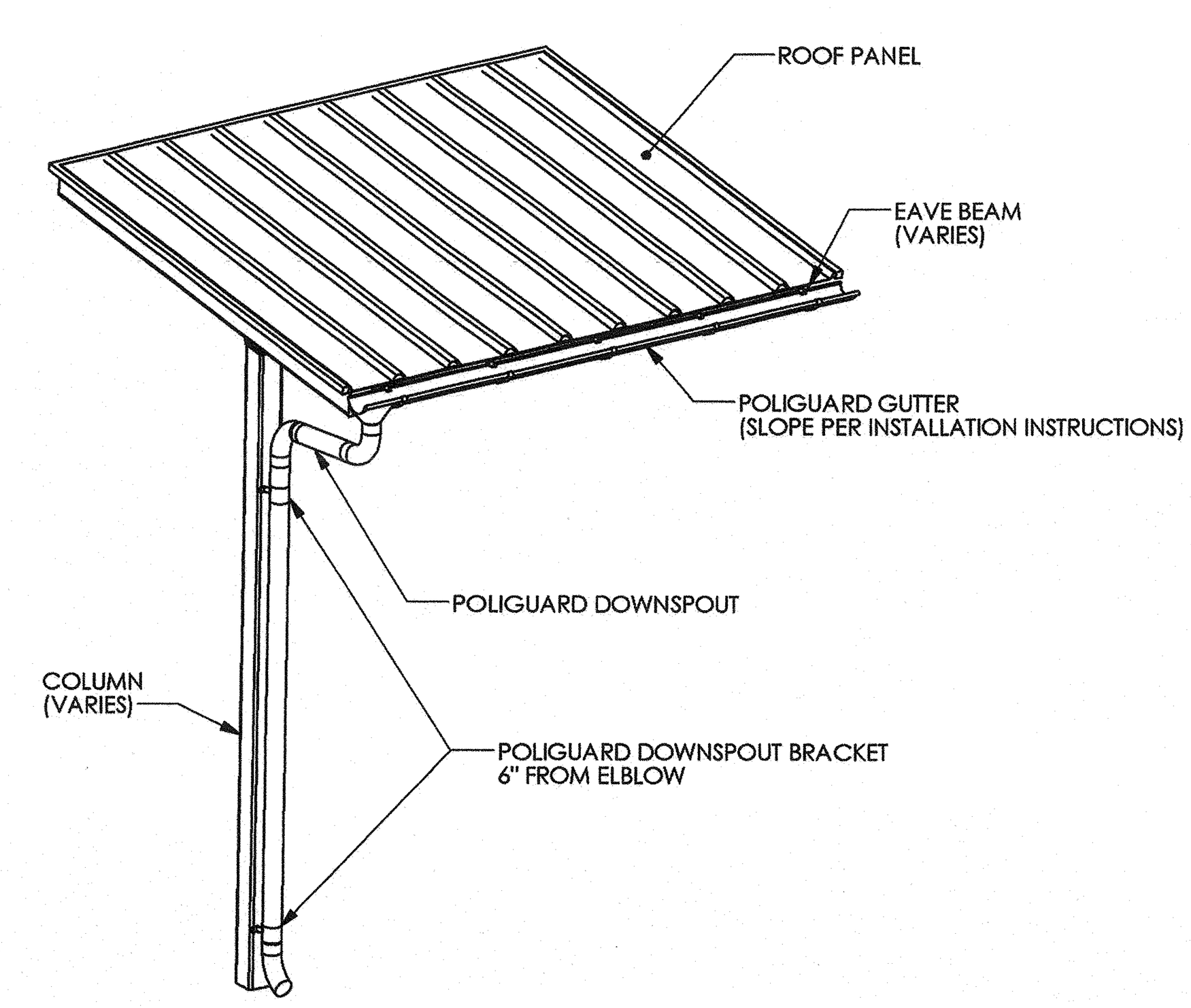
2014A



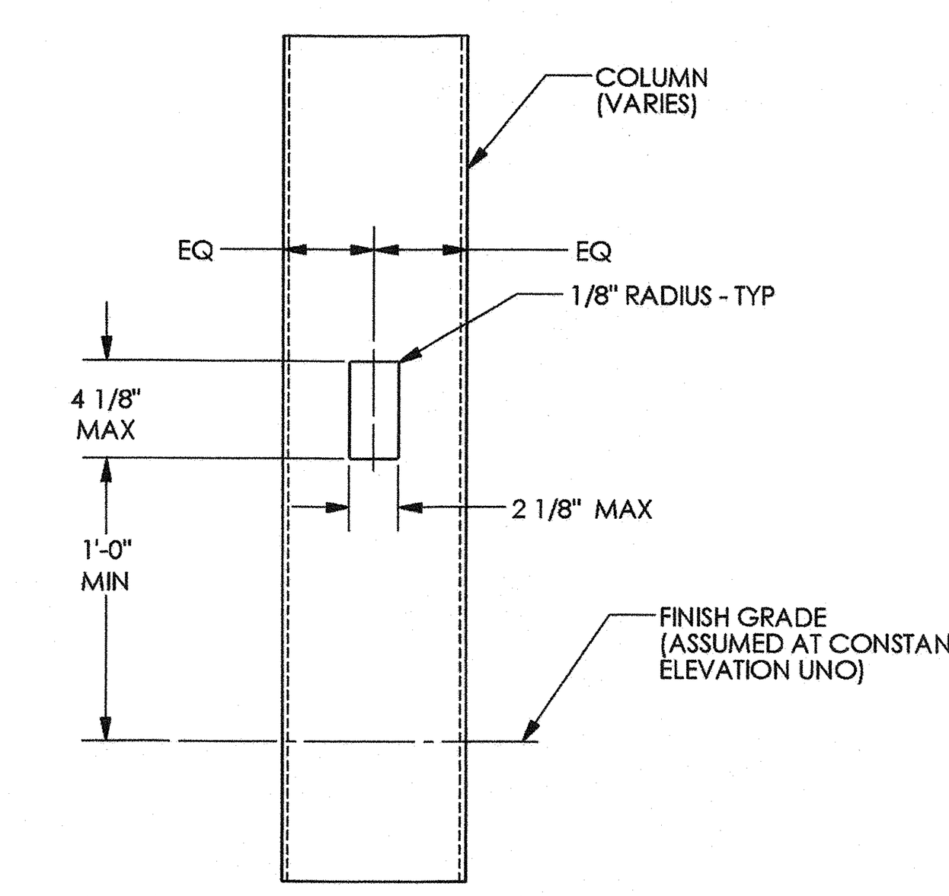
GUTTER DETAIL — GS-100



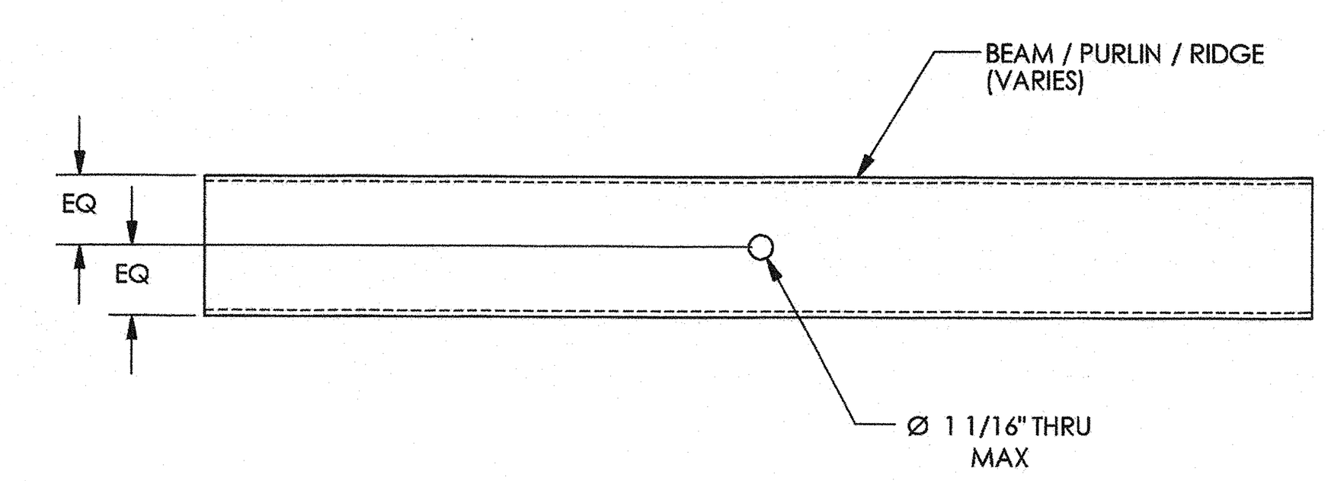
DOWNSPOUT DETAIL — GS-200

POLIGUARD GUTTER SYSTEM NOTES:

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



ELECTRICAL CUTOUT IN COLUMNS — EC-100



ELECTRICAL CUTOUT IN BEAMS / PURLINS / RIDGES — EC-200

ELECTRICAL CUTOUT NOTES:

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

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MISC DESIGN OPTIONS
COVERED WALKWAY (CWC)
PC DRAWINGS

DRAWN BY: JMD
CHECKED BY: CE
POLIGON #: 51460

REGISTERED PROFESSIONAL ENGINEER — THOMAS A. BURGER — No. S4378 — Exp. 3/31/— STRUCTURAL — STATE OF CALIFORNIA

PD9.0