



VERDUGO WOODLANDS ELEMENTARY SCHOOL PLAYGROUND SHADE STRUCTURE

GLENDALE UNIFIED SCHOOL DISTRICT GLENDALE, CALIFORNIA

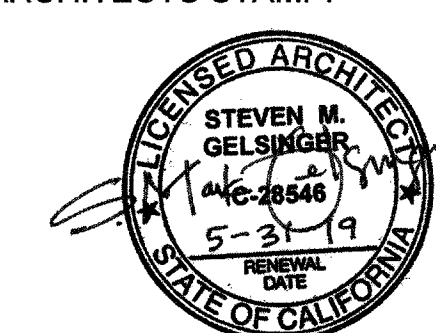
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
AP03 11 8 4 8
AC *M. Gelsinger* SS *CL*
DATE *MAR 26 2019*

Architecture
PLLLP

9

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ARCHITECTS STAMP:



CONSULTANT:

CONSULTANTS STAMP:

SCHOOL DISTRICT:
**GLENDALE
UNIFIED
SCHOOL
DISTRICT**

PROJECT:
**VERDUGO
WOODLANDS
PLAYGROUND
SHADE
STRUCTURE**

JOB NUMBER: 10.02.10
DATE: 07.01.18

REVISION: Δ DATE: _____
REVISION: Δ DATE: _____

DRAWING TITLE:
TITLE SHEET

DRAWING NO.:

G1.0

ABBREVIATIONS

L	ANGLE	MAR	MARBLE
@	CENTERLINE	MATL	MATERIAL
~	DIAMETER OR ROUND	MAX	MAXIMUM
A.B.	ANCHOR BOLT	MC	MEDICINE CABINET
A.F.F.	ABOVE FINISH FLOOR	MCB	METAL CORNER BEAD
A.G.	ASPHALTIC CONCRETE	MECH	MECHANICAL
ADJ.	ADJACENT	MFR	MANUFACTURER
ALUM.	ALUMINUM	MIN	MINIMUM
APPROX.	APPROXIMATELY	MISC	MISCELLANEOUS
ARCH.	ARCHITECT	MO	MASONRY OPENING
BD.	BOARD	MTD	MOUNTED
BET.	BETWEEN	MUL.	MULLION
BLDG.	BUILDING	(N)	NEW
BLK.	BLOCK	N.	NORTH
BLKG.	BLOCKING	NAT.	NATURAL
BM.	BEAM	N.G.	NATURAL GRADE
CAB.	CABINET	N.I.C.	NOT IN CONTRACT
C.B.	CATCH BASIN	NO. / #	NUMBER
C.F.	CURB FACE	NOM.	NOMINAL
C.J.	CONTROL JOINT	N.T.S.	NOT TO SCALE
C.G.	CEILING	O.A.	OVERALL
C.O.	CONCRETE OPENING	OBS.	OBSCURE
COL.	COLUMN	O.C.	ON CENTER
CONC.	CONCRETE	O.D.	OUTSIDE DIAMETER
C.M.U.	CONCRETE MASONRY UNITS	O.H.	OPPOSITE HAND
CONT.	CONTINUOUS	OPG.	OPENING
CONTR.	CONTRACTOR	OSA	OUTSIDE AIR
CORR.	CORRIDOR	PART.	PARTITION
DET.	DETAIL	P.C.	PORTLAND CONCRETE
D.F.	DRINKING FOUNTAIN	P.H.	PANIC HARDWARE
D.G.	DECOMPOSED GRANITE	PL.	PLATE
DIA.	DIAMETER	P.L.	PROPERTY LINE
DIM.	DIMENSION	PLAS.M.	PLASTIC
DIV.	DIVISION	PLYWD.	PLYWOOD
DN	DOWN	PR.	PAIR
DBL	DOUBLE	R.	RISER
D.S.	DOWNSPOUT	R.B.	RESILIENT BASE
DWG	DRAWING	RD.	RADIUS
(E)	EXISTING	RDWD.	REDWOOD
E.A.	EXPANSION JOINT	REF.	REFERENCE
ELEC	ELECTRIC	RESIL.	RESILIENT
ELEV	ELEVATION	REV.	REVERSE
ENT.	ENTRANCE	RM.	ROOM
EMER.	EMERGENCY	R.O.	ROUGH OPENING
ENCL.	ENCLOSURE	REFR.	REFRIGERATOR
EQ.	EQUIPMENT	REG.	REGISTER
EQUIP.	EQUIPMENT	REINF.	REINFORCEMENT
E.G.	EXISTING GRADE	REQ'D	REQUIRED
EXPO.	EXPOSED	RO	ROUGH
EXP.	EXPANSION	S.	SOUTH
EXT.	EXTERIOR	SB.	SPLASH BLOCK
F.D.	FLOOR DRAIN	S.D.	STORM DRAIN
FE.	FIRE EXTINGUISHER	S.C.	SAW CUT
FEC.	FIRE EXTINGUISHER CABINET	SCHED.	SCHEDULE
F.F.	FINISH FLOOR	SECT.	SECTION
F.G.	FINISH GRADE	SHT.	SHEET
F.H.	FIRE HYDRANT	SIM.	SIMILAR
F.H.W.S.	FLATHEAD WOOD SCREWS	S.J.	SCORE JOINT
FIN.	FINISH	SLDG.	SLIDING
F.L.	FLOW LINE	SM. F.	SMOOTH FACE
FLASH.	FLASHING	S.M.S.	SHEET-METAL SCREW
FLUOR.	FLUORESCENT	SPEC.	SPECIFICATIONS
FAC	FACE OF CONCRETE	SP. F.	SPLIT FACE
F.O.F.	FACE OF FINISH	SQ.	SQUARE
F.O.M.	FACE OF MASONRY	S.S.	SERVICE SINK
F.O.S.	FACE OF STUD	SST.	STAINLESS STEEL
FOV	FACE OF VENEER	STAT.A.	STATIONARY
FRA	FIRE RATED ASSEMBLY	STD.	STANDARD
FRV	FIBERGLASS REINFORCED PANELS	STL.	STEEL
F.S.	FLOOR SINK	STRUC.	STRUCTURAL
FT.	FOOT OR FEET	SUSP.	SUSPENDED
FURR	FURRING	SYM.	SYMMETRICAL
GA.	GAUGE	T.	TREAD
GALV.	GALVANIZED	T.B.	TACKBOARD
G.I.	GALVANIZED IRON	T.&B.	TOP AND BOTTOM
GL.	GLASS	T.C.	TOP OF CURB
GLU LAM.	GLUE LAMINATED	T.D.	TOWEL DISPENSER
GND.	GROUND	T.G.	TOP OF GRADE
GR.	GRADE	T.O.W.	TOP OF WALL
GYP.BD.	GYP-SUM BOARD	T.O.R.	TOP OF ROOFING
H.B.	HOSE BIB	T.O.S.	TOP OF STEEL
H.M.	HOLLOW METAL	T.P.	TOP OF PARAPET
HORIZ.	HORIZONTAL	T.W.	TOP OF WALL
HR.	HOOR	TEL.	TELEPHONE
HT.	HEIGHT	TEMP.	TEMPERATURE
HTG.	HEATING	TR	TRANSOM
HDWD.	HARDWOOD	TYP.	TYPICAL
I.D.	INSIDE DIAMETER	U.N.O.	UNLESS NOTED OTHERWISE
INSUL.	INSULATION	U.O.F.	UNDERSIDE OF FRAME
INT.	INTERIOR	UR	URINAL
INV.	INVERT	VAR.	VARIABLE
JAN.	JANITOR	VCT	VINYL COMPOSITION TILE
LAB	LABORATORY	VERT.	VERTICAL
PLAM.	LAMINATED PLASTIC	VEST.	VESTIBULE
LAV.	LAVATORY	V.I.F.	VERIFY IN FIELD
LVR	LOUVER	W.	WITH
		W.C.	WATER CLOSET
		WD.	WOOD
		WI.	WROUGHT IRON

GENERAL NOTES

- VERIFY ALL DIMENSIONS, LOCATIONS OF EXISTING UTILITIES, AND CONDITIONS ON JOB SITE PRIOR TO START OF WORK OR PORTIONS OF WORK. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND INDICATED AS RESULT OF FIELD OBSERVATIONS, INFORMATION SHOWN WAS FROM AVAILABLE DOCUMENTS AND FIELD CONDITIONS AT TIME OF PREPARATION.
- NOT ALL MECHANICAL, PLUMBING, AND ELECTRICAL ITEMS MAY BE SHOWN ON THE ARCHITECTURAL DRAWINGS
- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL GOVERNING CODES, ORDINANCES, REGULATIONS AND LAWS.
- WHERE ANY CONFLICT OCCURS BETWEEN REQUIREMENTS OF LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.
- IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.
- DETAILS MARKED WITH 'TYPICAL' SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY NOTED OTHERWISE.
- ENACT ALL MEASURES TO PROTECT AND SAFEGUARD ALL EXISTING ELEMENTS TO REMAIN FROM BEING DAMAGED, REPLACE OR REPAIR EXISTING ELEMENTS DAMAGED BY THE EXECUTION OF THIS CONTRACT TO EQUAL OR BETTER CONDITION.
- CONTRACTOR SHALL COORDINATE BETWEEN THE REQUIREMENTS OF ALL DISCIPLINES HEREIN AND BETWEEN DRAWING AND SPECIFICATION REQUIREMENTS IN ORDER THAT ALL ITEMS RELATE TO ONE ANOTHER. NOTIFY ARCHITECT IMMEDIATELY REGARDING ANY ITEMS NOT COORDINATED.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF CONSTRUCTION, ALTERATION, REHABILITATION OR RECONSTRUCTION SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATION (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 THE TITLE 24, CALIFORNIA CODE OF REGULATIONS, A **CCP** OR A SEPARATE SET OF PLANS AND SPECIFICATIONS. DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- CONTRACTOR SHALL STOP WORK AND NOTIFY ARCHITECT IMMEDIATELY IF ANY ASBESTOS CONTAINING MATERIAL (ACM) OR SUSPECTED ACM IS FOUND DAMAGED OR DISTURBED.
- CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, CONDUIT, ETC. AND TO PREVENT HAZARD TO PERSONNEL AND/OR TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES. THE DESIGN PROFESSIONALS ARE NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES, WHETHER OR NOT SHOWN ON AND INSTALLED BY THESE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DISTRICT SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR A **CCD** APPROVED BY DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCP.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES
- UPDATED SOILS REPORT AVAILABLE BY NINYO & MOORE, DATED DEC. 6, 2018

DSA CLOSE OUT STATUS

BUILDING DSA NO	CERTIFICATION STATUS	DATE
1000	69989	UNKNOWN
1000	9924	UNKNOWN
1000	102811	#1
1000	107884	#2
2000	8859	UNKNOWN
3000	4953	UNKNOWN
4000	114339	UNDER CONSTRUCTION
RELOCATABLE	101287	#1
RELOCATABLE	114669	PENDING
BRIDGE	119567	DSA REVIEW
		11/29/18

NOT IN THIS PROJECT SCOPE OF WORK

APPLICABLE CODES

CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING SECTIONS OF THE CALIFORNIA CODE OF REGULATIONS (CCR).

LIST OF 2016 CALIFORNIA CODE OF REGULATIONS (C.C.R.):

APPLICABLE CODES AS OF JANUARY 1, 2017
PART 1 2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 C.C.R.

PART 2 2016 CALIFORNIA BUILDING CODE, TITLE 24 C.C.R.

PART 3 2016 CALIFORNIA ELECTRICAL CODE, TITLE 24 C.C.R.

PART 4 2016 CALIFORNIA MECHANICAL CODE, TITLE 24 C.C.R.

PART 5 2016 CALIFORNIA PLUMBING CODE, TITLE 24 C.C.R.

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

PART 7 NOT USED

PART 8 2016 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24 C.C.R.

PART 9 2016 CALIFORNIA FIRE CODE, TITLE 24 C.C.R.

PART 10 2016 CALIFORNIA EXISTING BUILDING CODE, TITLE 24 C.C.R.

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

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

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 SYSTEMS (CALIFORNIA AMENDED) 2016 EDITION

NFPA 14 STANDARD SYSTEMS (CALIFORNIA AMENDED) 2013 EDITION

NFPA 17 DRY CHEMICAL EXTINGUISHING SYSTEMS 2013 EDITION

NFPA 17A WET CHEMICAL SYSTEMS 2013 EDITION

NFPA 20 STATIONARY PUMPS 2016 EDITION

NFPA 24 PRIVATE FIRE SERVICE MAINS (CALIFORNIA AMENDED) 2016 EDITION

NFPA 72 NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) 2016 EDITION

(NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")
FIRE DOOR AND OTHER OPENING PROTECTIVES 2016 EDITION

NFPA 80 CRITICAL RADIANT FLUX OR FLOOR COVERING SYSTEMS 2016 EDITION

NFPA 253 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS 2015 EDITION

NFPA 2001

DSA INSPECTOR

A CLASS A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTIONS 4-342, PART 1, TITLE 24, CCR.

CODE ANALYSIS

BUILDING GROUP	OCCUPANCY CLASS	NO. OF STORIES	TYPE OF CONSTRUCTION	SPRINKLERED	ALLOWABLE SQ.FT.	ACTUAL SQ.FT.
SHADE STRUCTURE	A-3	1	V-B	NO	9,500	680

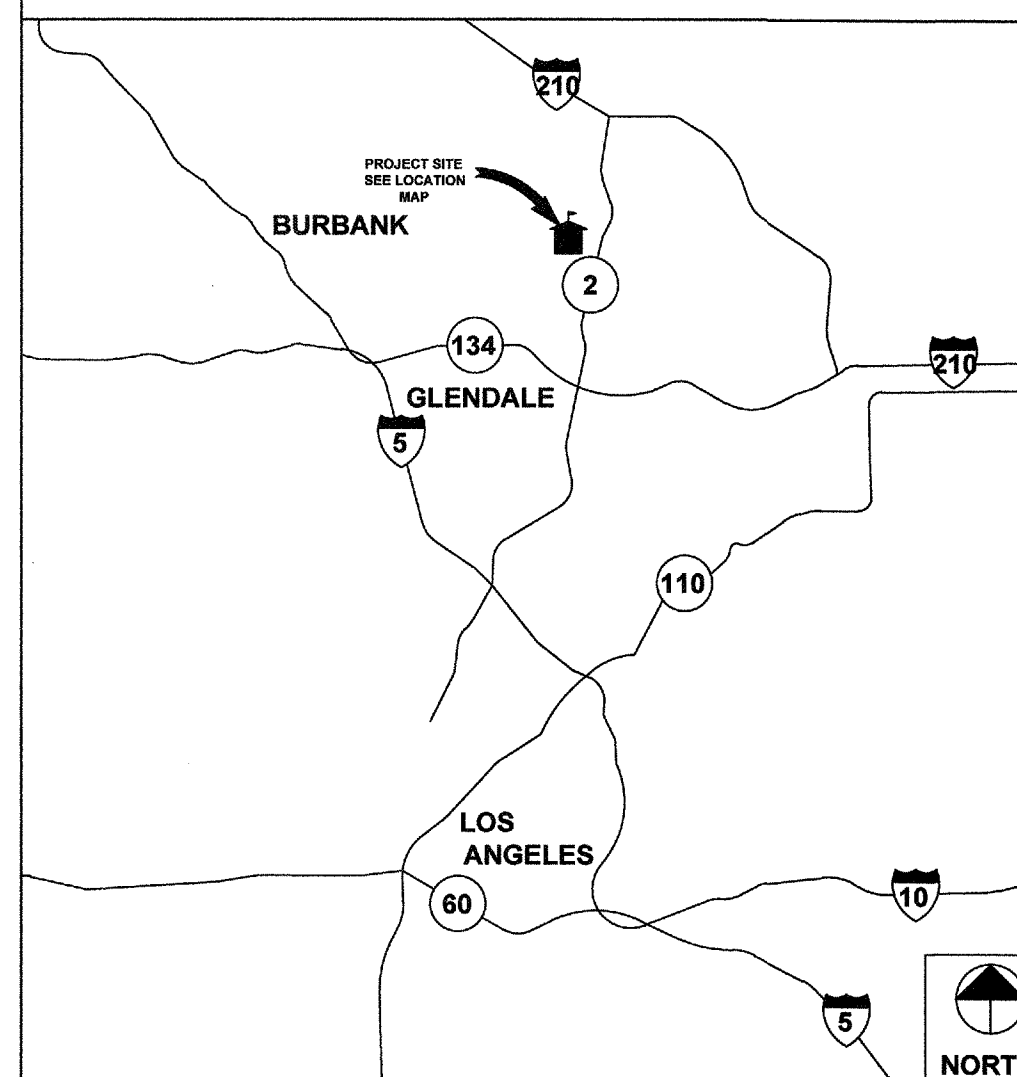
PROJECT DIRECTORY

DISTRICT
GLENDALE UNIFIED SCHOOL DISTRICT
1440 EAST BROADWAY
GLENDALE, CA. 91205

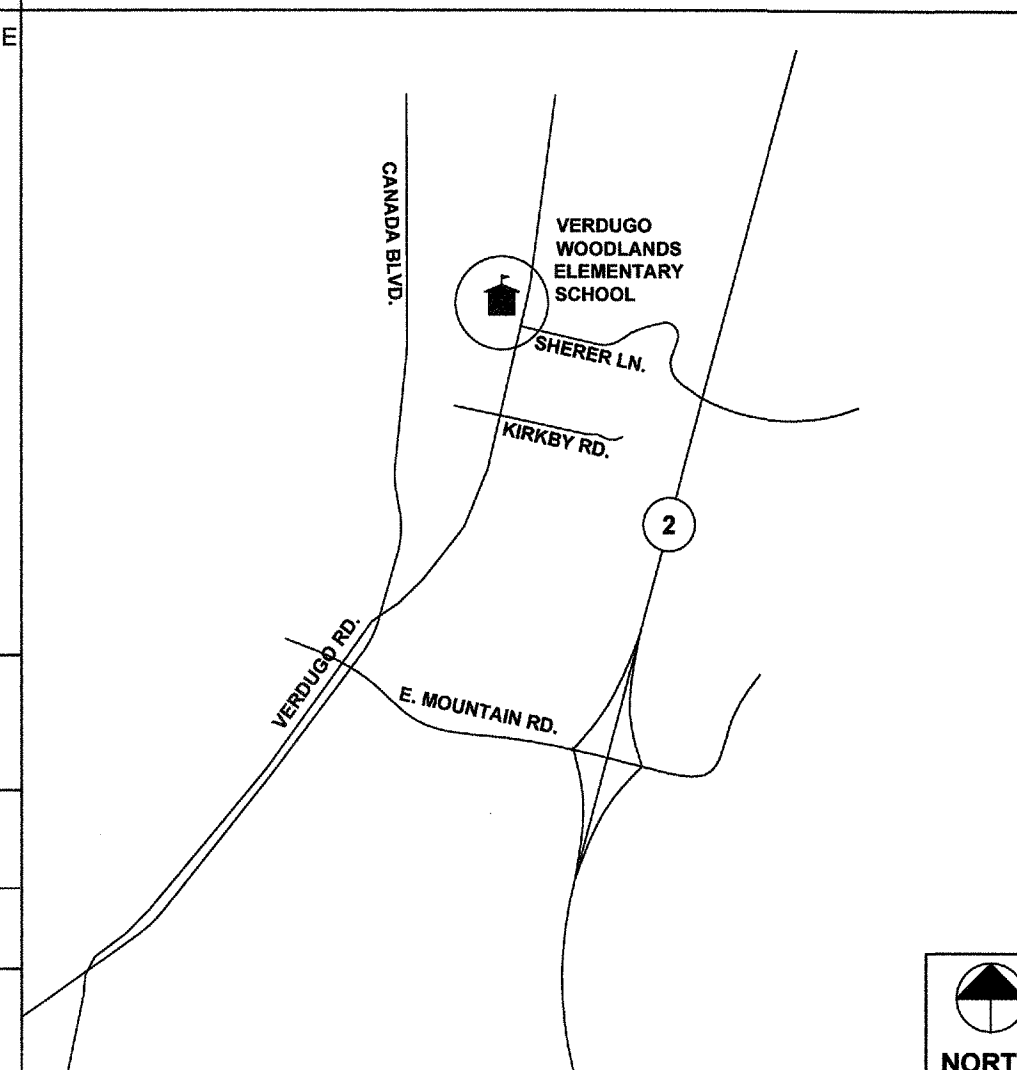
SCHOOL
VERDUGO WOODLANDS ELEMENTARY SCHOOL
1751 NORTH VERDUGO ROAD
GLENDALE, CA. 92108

ARCHITECT
ARCHITECTURE 9, PLLLP
8816 FOOTHILL BOULEVARD, SUITE 103-224
RANCHO CUCAMONGA, CA. 91730
A9CONTACT@ARCHITECTURE9.COM

VICINITY MAP



LOCATION MAP



INDEX OF DRAWINGS

GENERAL

- G1.0 TITLE SHEET
- G1.1 FIRE AUTHORITY SITE PLAN

ARCHITECTURAL

- A1.1 SITE PLAN
- A1.2 ENLARGED SITE PLAN & DETAILS
- A1.3 DETAILS

PRE-FABRICATED SHADE STRUCTURE

- POLIGON DSA P.C. 02-113591
- PD1.0 GENERAL NOTES
- PD1.1 SPECIAL INSTRUCTIONS
- PD2.0 FOUNDATION PLAN
- PD3.0 FRAMING PLAN
- PD4.0 FRAMING CONNECTION DETAILS
- PD5.0 SECTION DETAILS
- PD6.0 PLATE DETAILS
- PD7.0 ARCHITECTURAL VIEWS
- PD8.0 ROOF CONNECTION DETAILS
- PD9.0 MISC. DESIGN OPTIONS

A/E STATEMENT

THESE DRAWINGS AND/OR SPECIFICATIONS AND/OR CALCULATIONS FOR THE ITEMS LISTED BELOW HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. THESE DOCUMENTS HAVE BEEN EXAMINED BY ME FOR DESIGN INTENT AND APPEAR TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME.

THE ITEMS LISTED BELOW HAVE BEEN COORDINATED WITH MY PLANS AND SPECIFICATIONS AND ARE ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT FOR WHICH I AM THE INDIVIDUAL DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE.

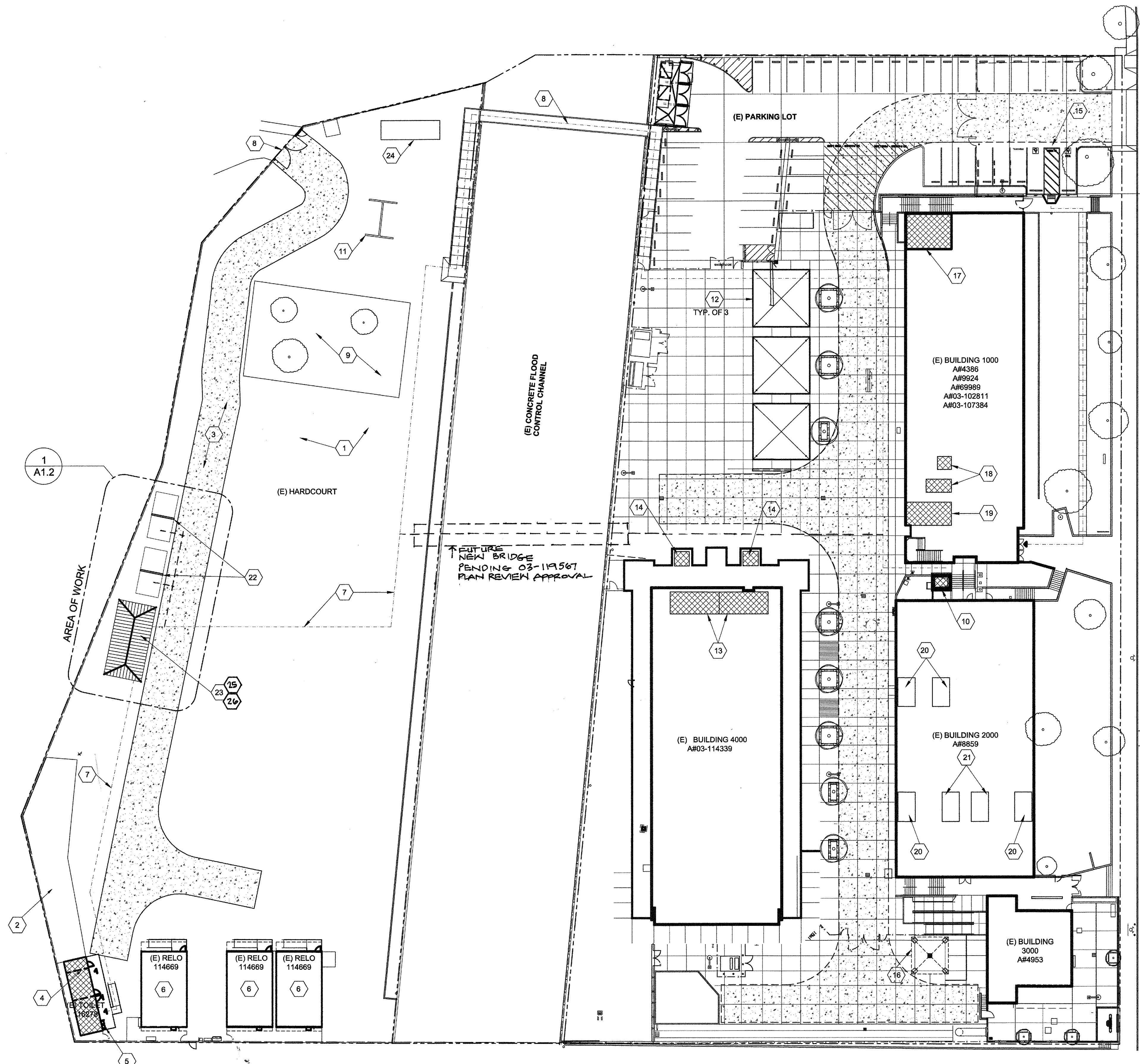
PRE-FABRICATED SHADE STRUCTURE SEE DRAWINGS LISTED ON THIS SHEET.

S. Mak Gelsinger 3-26-19
SIGNATURE: DATE:

STEVEN M. GELSINGER
LICENSE NO.: C28546
EXPIRATION DATE: MAY 31, 2019

PROJECT DESCRIPTION

- A. NEW DISTRICT FURNISHED, CONTRACTOR INSTALLED (1) 20'x34'x8' PRE-FABRICATED METAL SHADE STRUCTURE WITH GUTTER AND DOWNSPOUTS RELOCATION FROM A# 03-118956. FABRICATED PER PC# 03-113591
- B. NEW 4' HIGH (2) CMU BALL WALL.
- C. THIS PROJECT CANNOT CLOSE UNTIL BOTH 03-116278 AND 03-119567 IS CLOSED WITH CERTIFICATION.



1 SITE PLAN
SCALE: 1" = 30'-0"



KEYNOTES

1. EXISTING UPPER ELEMENTARY ACCESSIBLE HARDCOURT WITH 2% MAXIMUM SLOPE IN ANY DIRECTION
 2. EXISTING ACCESSIBLE PLAY APPARATUS
 3. EXISTING FIRE LANE A#03-114669, MODIFY STRIPING PER 1/A1.3
 4. EXISTING ACCESSIBLE BOYS, GIRLS AND STAFF TOILETS (A# 03-116276)
 5. EXISTING ACCESSIBLE HIGH/LOW DRINKING FOUNTAIN (A# 03-116276)
 6. EXISTING 24'x40' RELOCATABLE CLASSROOM. USED BY EEELP (NON-DISTRICT ORGANIZATION) (A# 03-114669)
 7. ACCESSIBLE PATH OF TRAVEL
 8. EXISTING BRIDGE
 9. EXISTING TURF AREA
 10. EXISTING ACCESSIBLE ELEVATOR
 11. EXISTING BALL WALL
 12. EXISTING METAL SHADE STRUCTURE (A#03-114339)
 13. EXISTING ACCESSIBLE BOYS AND GIRLS TOILETS (A# 03-114339)
 14. EXISTING ACCESSIBLE STAFF TOILET (A# 03-114339)
 15. EXISTING ACCESSIBLE PARKING (A# 03-114339)
 16. EXISTING METAL SHADE STRUCTURE (A# 03-118702)
 17. EXISTING FIRST FLOOR ACCESSIBLE BOYS TOILET (A# 03-107384)
 18. EXISTING SECOND FLOOR ACCESSIBLE UNISEX STAFF TOILETS (A# 03-102811)
 19. EXISTING FIRST FLOOR ACCESSIBLE GIRL'S TOILET (A# 03-107384)
 20. EXISTING NON-ACCESSIBLE UNISEX STUDENT KINDERGARTEN TOILET
 21. EXISTING NON-ACCESSIBLE STUDENT TOILETS
 22. NEW CMU BALL WALL AND STRIPING, RE: 3/A1.3
 23. NEW 20' X 40' PRE-MANUFACTURED METAL SHADE STRUCTURE WITH GUTTER AND DOWNSPOUTS FURNISHED BY DISTRICT AND INSTALLED BY CONTRACTOR, RE: 1/A1.3
 24. EXISTING NON-ACCESSIBLE STUDENT TOILETS TO REMAIN (A# 9924)
25. ADD NEW 22 GA GALV. 1/8" MAX. WIRE MESH TO CUTTER TO PREVENT LEAVES AND DEBRIS.
26. NEW (1) 2A10BC FIRE EXTINGUISHER IN LOCKING METAL BOX WITH EMERGENCY GLASS MOUNT 48" AFF.

PARKING TABULATIONS

PARKING LOT	
TOTAL PARKING SPACES	47
ACCESSIBLE SPACES REQUIRED PER TABLE 11B-6	2
REGULAR ACCESSIBLE SPACES PROVIDED	1
VAN ACCESSIBLE SPACES PROVIDED	1
STANDARD SPACES PROVIDED	45
RE: 2016 CBC SECTION 11298, TABLE 11B-6 FOR REQUIRED NUMBER OF ACCESSIBLE PARKING SPACES	

CHARGE STATEMENT

DESIGN PROFESSIONAL IN GENERAL RESPONSIBILITY

"THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALL ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS, OR PORTIONS OF THE P.O.T. 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 NONCOMPLIANT ELEMENTS, FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTIONS DOCUMENTS. DURING CONSTRUCTION, IF P.O.T. 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 A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT."

LEGEND

- EXISTING BUILDING
- ACCESSIBLE TOILETS & ELEVATOR
- EXISTING ASPHALT FIRE LANE AND STRIPING
- NEW PRE-MANUFACTURED METAL SHADE STRUCTURE
- PROPERTY LINES
- ACCESSIBLE PATH OF TRAVEL
- ACCESSIBLE ENTRY

PATH OF TRAVEL

"THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS, OR PORTIONS OF THE P.O.T. 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, FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS. DURING CONSTRUCTION, IF P.O.T. 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 A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT."

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AC. *FLS* *SS* *CL*
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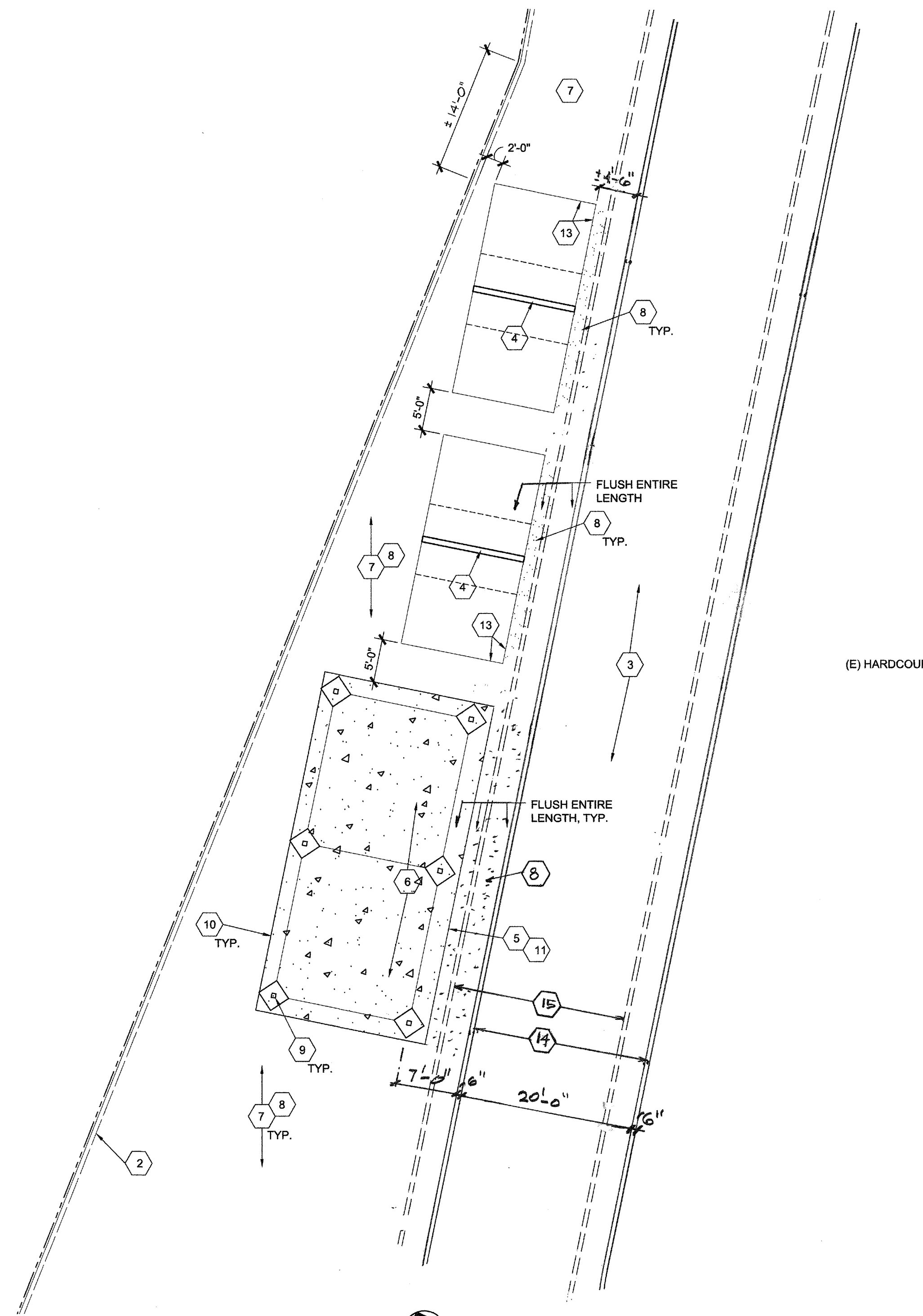
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DRAWING TITLE:
SITE PLAN

DRAWING NO.:
A1.1



1 SITE PLAN
SCALE: 1" = 10'-0"



KEYNOTES ◊

1. EXISTING UPPER ELEMENTARY ACCESSIBLE HARDCOURT WITH 2% MAXIMUM SLOPE IN ANY DIRECTION
2. EXISTING CHAIN LINK FENCE
3. EXISTING FIRE LANE AND STRIPING (A# 03-116278)
4. NEW CMU BALL WALL, RE: 2/A1.3
5. NEW DISTRICT FURNISHED AND CONTRACTOR INSTALLED METAL SHADE STRUCTURE WITH GUTTERING AND DOWNSPOUTS AND 4" CONCRETE PAD BENEATH RE: 1/A1.3
6. SAW CUT AND REMOVE EXISTING ASPHALT PAVING FOR NEW 4" CONCRETE PAVING. PROVIDE A MINIMUM 2" AGGREGATE BASE, RE: 3/A1.3
7. EXISTING AC PAVING TO REMAIN, BLACK-OUT EXISTING PAINTED STRIPING IN FOOTPRINT OF NEW WORK
8. REPAIR EXISTING ASPHALT PAVING DUE TO NEW CONSTRUCTION
9. NEW METAL SHADE STRUCTURE POST WITH CONTINUOUS 1/2" CONTROL JOINT AROUND TRIANGULAR CONCRETE PAVING, RE: 3C/A1.3
10. PROVIDED THICKENED CONCRETE PAVING EDGE, RE: 3B/A1.3
11. NEW CONTRACTOR INSTALLED METAL SHADE STRUCTURE. FRAMING TO BE PRE-ASSEMBLED TO LOCATED POST AND FOOTINGS
12. NEW EXPANSION JOINT, RE: 3C/A1.3
13. NEW 4" PAINTED WHITE STRIPE
14. REPAINT FIRE LANE STRIPING AS REQUIRED DUE TO NEW CONSTRUCTION
15. ~~BLACK OUT EXISTING FIRE LANE STRIPING~~

LEGEND

- NEW PRE-MANUFACTURED MEDAL SHADE STRUCTURE
- NEW 4" CONCRETE PAVING
- PROPERTY LINES
- EXISTING CHAIN LINK FENCE

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APP03 119848

AC *MS* FLS *SS* CL
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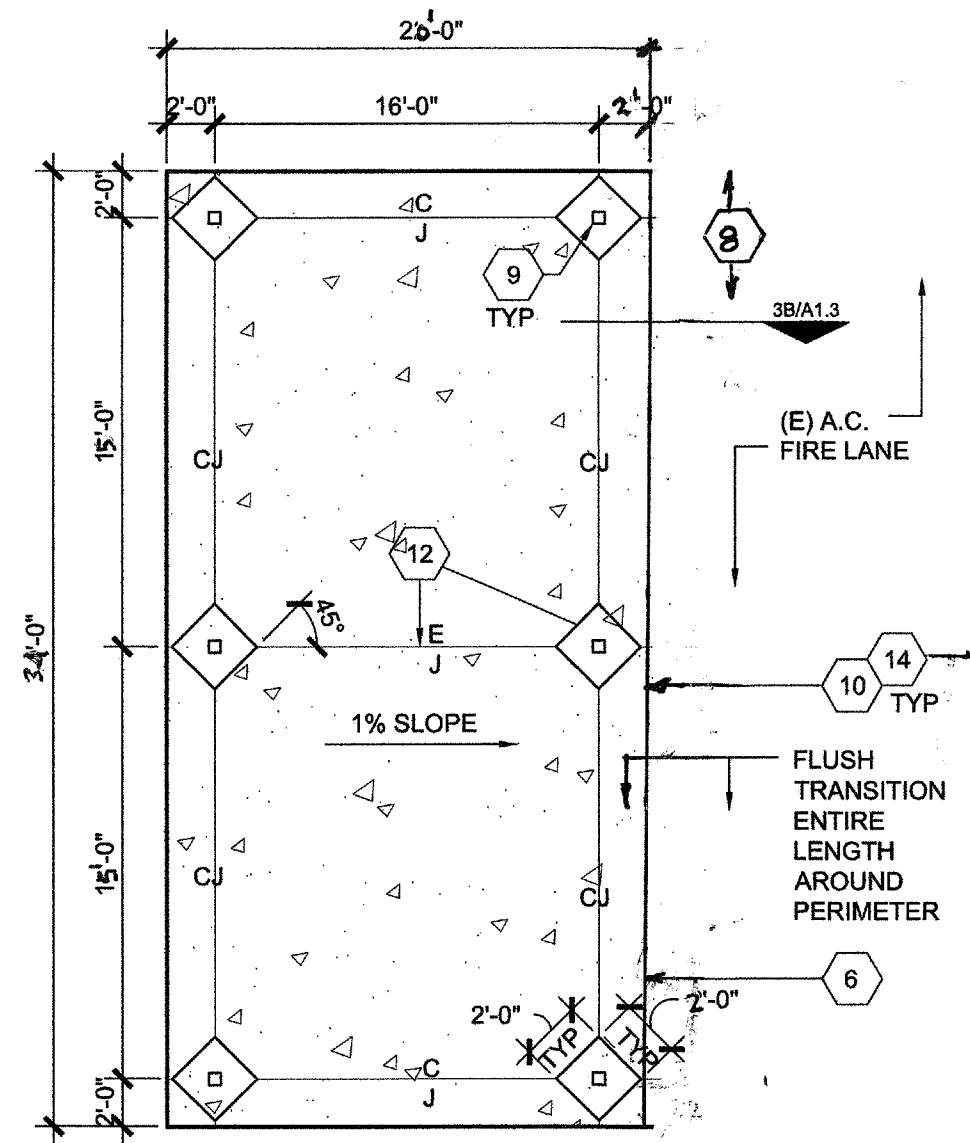
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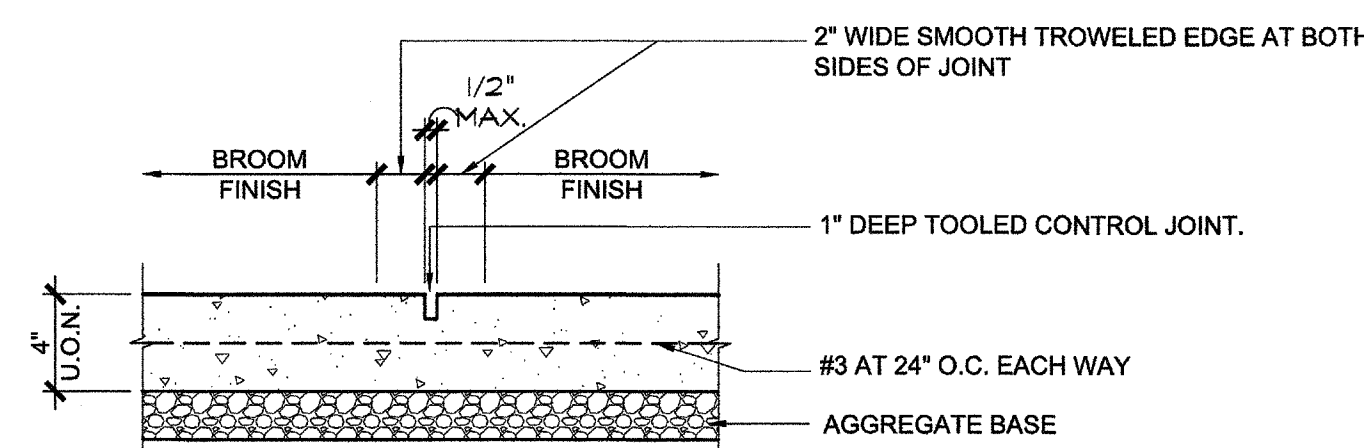
DRAWING TITLE:
**ENLARGED
SITE PLAN**

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A1.2

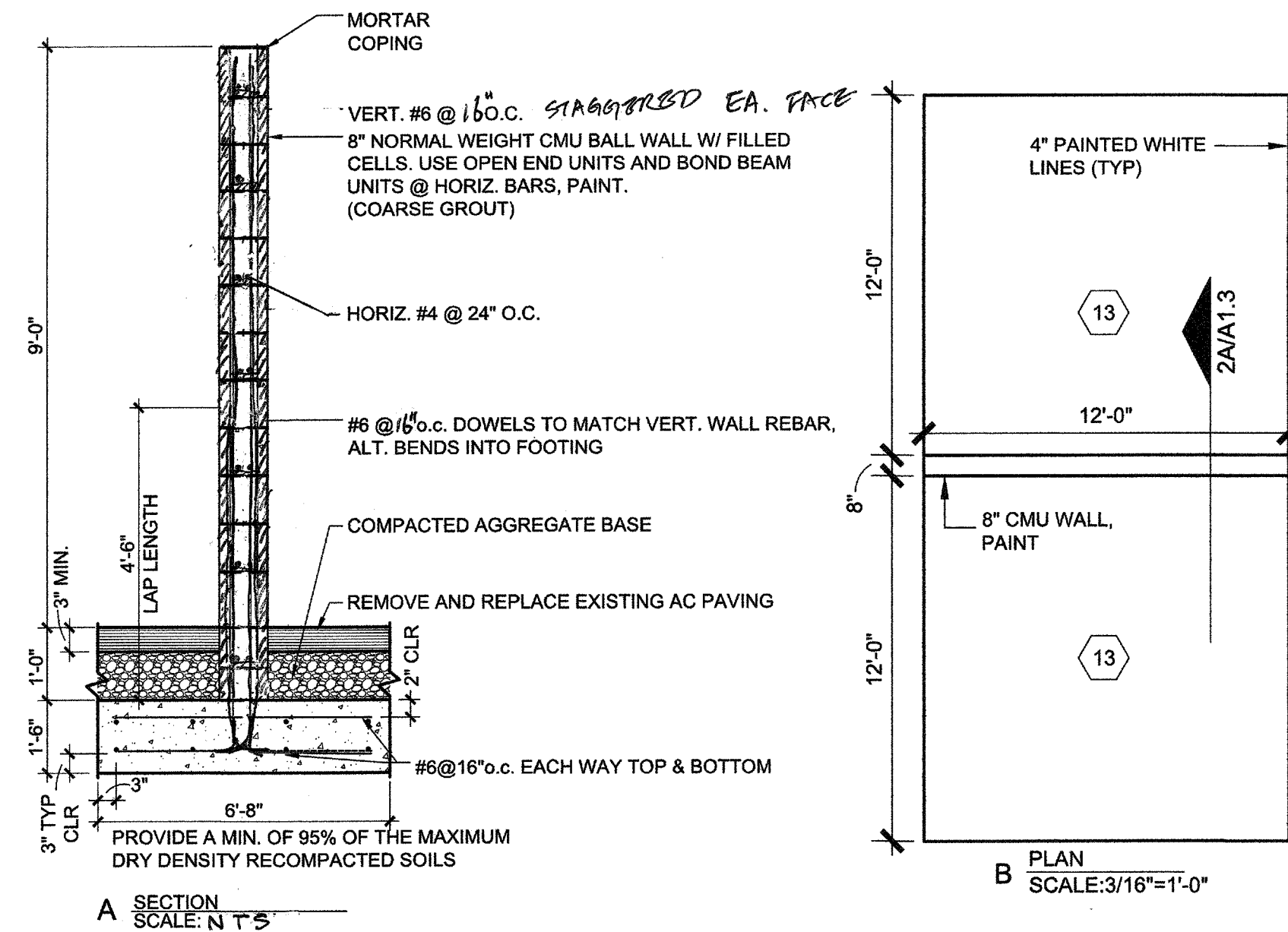


1 CONCRETE PAD DETAIL @ NEW SHADE STRUCTURE
SCALE: 1/8" = 1'-0"

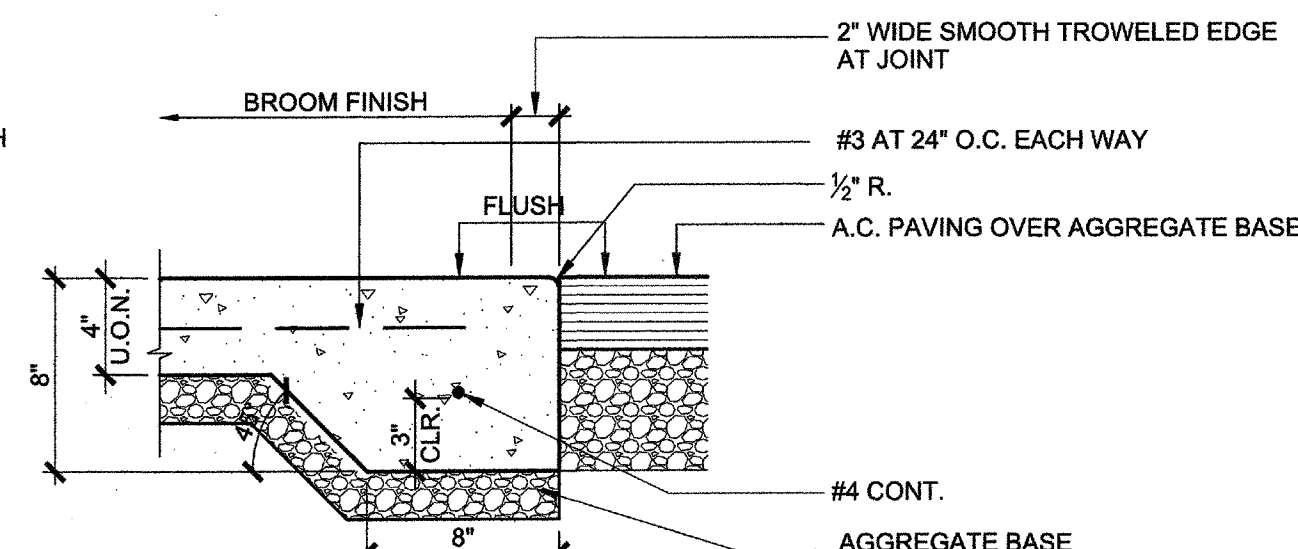


A. CONTROL JOINT (C.J.)

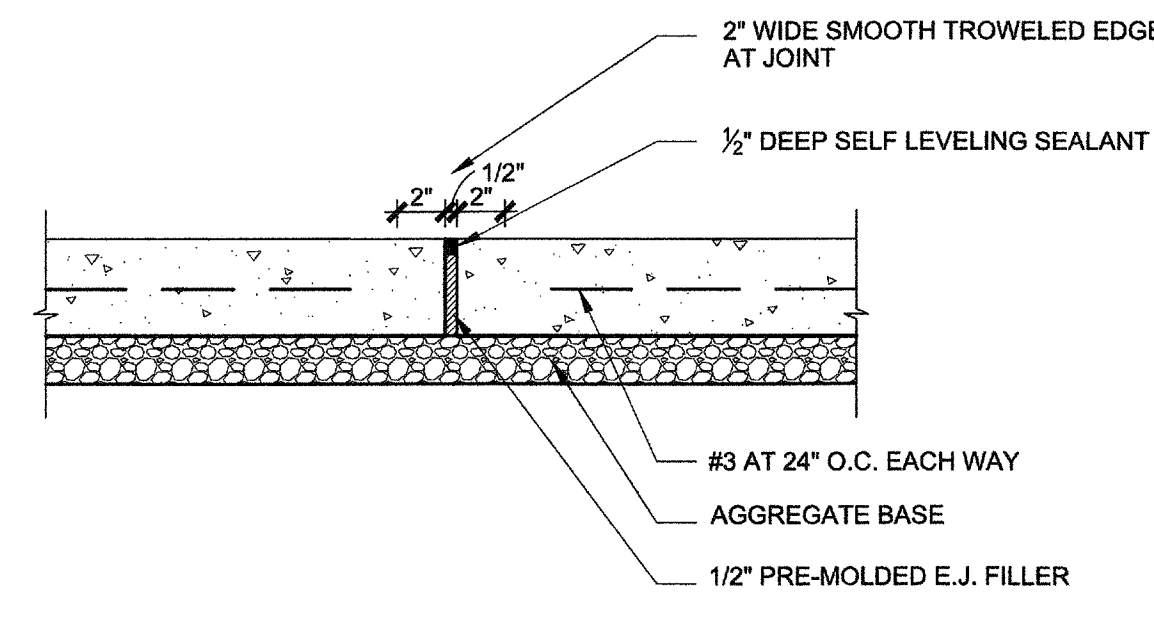
PROVIDE C.J. SPACING EQUAL TO SIDEWALK WIDTH OR 10'-0" MAXIMUM O.C. EACH WAY RE: SITE PLAN DRAWINGS FOR ADDITIONAL REQUIREMENTS.



2 CMU WALL BALL
SCALE: AS NOTED



B. TERMINATION OF NEW CONCRETE AT NEW A.C. PAVING



C. EXPANSION JOINT (E.J.)

KEYNOTES

- EXISTING UPPER ELEMENTARY ACCESSIBLE HARCOURT WITH 2% MAXIMUM SLOPE IN ANY DIRECTION
- EXISTING CHAIN LINK FENCE
- EXISTING FIRE LANE AND STRIPING (A# 03-116278)
- NEW CMU BALL WALL, RE: 2/A1.3
- NEW DISTRICT FURNISHED AND CONTRACTOR INSTALLED METAL SHADE STRUCTURE WITH GUTTERING AND DOWNSPOUTS AND 4" CONCRETE PAD BENEATH RE: 1/A1.3
- SAW CUT AND REMOVE EXISTING ASPHALT PAVING FOR NEW 4" CONCRETE PAVING. PROVIDE A MINIMUM 2" AGGREGATE BASE, RE: 3/A1.3
- EXISTING AC PAVING TO REMAIN, BLACK-OUT EXISTING PAINTED STRIPING IN FOOTPRINT OF NEW WORK
- REPAIR EXISTING ASPHALT PAVING DUE TO NEW CONSTRUCTION
- NEW METAL SHADE STRUCTURE POST WITH CONTINUOUS 1/2" CONTROL JOINT AROUND TRIANGULAR CONCRETE PAVING, RE: 3/A1.3
- PROVIDED THICKENED CONCRETE PAVING EDGE, RE: 3B/A1.3
- NEW CONTRACTOR INSTALLED METAL SHADE STRUCTURE. FRAMING TO BE PRE-ASSEMBLED TO LOCATED POST AND FOOTINGS
- NEW EXPANSION JOINT, RE: 3/A1.3
- NEW 4" PAINTED WHITE STRIPE
- REPAINT FIRE LANE STRIPING AS REQUIRED DUE TO NEW CONSTRUCTION

3 CONCRETE PAVING DETAILS
SCALE: 1-1/2" = 1'-0"

MASONRY

- F_m SPECIFIED COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNIT (CMU) SHALL BE AS FOLLOWS.
F_m = 2000 PSI U.N.O.
- CONCRETE BLOCK SHALL BE MEDIUM WEIGHT COMPLYING ASTM C90, GRADE N-1 AND ARTICLE 2.3 OF TMS 602/ACI 503.1 / ASCE 6.
- GROUT SHALL COMPLY WITH ASTM C476 AND ARTICLE 2.2 OF TMS 602/ACI 503.1 / ASCE 6. COMPRESSIVE STRENGTH SHALL NOT BE LESS THAN 2000 PSI AT 28 DAYS.
- MORTAR SHALL COMPLY WITH ASTM C270, TYPE, S AND ARTICLE 2.1 AND 2.6A OF TMS 602/ACI 503.1 / ASCE 6. MINIMUM STRENGTH AT 28 DAYS OF 2000 PSI.
- CEMENT SHALL CONFORM TO ASTM C150, TYPE I OR II. USE OF MASONRY CEMENT OR PLASTIC CEMENT IS NOT PERMITTED.
- SPECIAL INSPECTION IS REQUIRED FOR ALL STRUCTURAL MASONRY UNITS PER CBC SECTION 1705A.4.
- AGGREGATES FOR MORTAR AND GROUT SHALL BE NATURAL SAND AND ROCK COMPLYING WITH ASTM C144 AND C404.
- SEE REINFORCING STEEL NOTES FOR REINFORCING STEEL, U.N.O.
- REINFORCING STEEL SPLICES (U.N.O.):
 - 7x DIAMETERS @ LAP SPLICES IN WALL
 - 7x DIAMETERS @ FOOTING DOWELS
 - WHEN MINIMUM CLEAR DISTANCE BETWEEN BARS @ ADJACENT SPLICE IS 3 INCHES OR LESS, INCREASE SPLICE LENGTH 30 PERCENT UNLESS SPLICES ARE STAGGERED AT LEAST 24 BAR DIAMETERS.
- GROUT SOLID ALL CELLS UNLESS NOTED OTHERWISE MECHANICALLY VIBRATE GROUT IN CELLS.
- USE LOW LIFT GROUTING METHOD PER CBC SECTION 2104A.1.3.1.2.2 UNLESS NOTED OTHERWISE. FOR HIGH LIFT GROUTING METHOD, SEE IR 21-2 AND CBC SECTION 2104A.1.3.1.2.3.
- SET COURSES IN RUNNING BOND U.N.O. SET CELLS IN VERTICAL ALIGNMENT.
- WHEN WORK IS STOPPED ONE HOUR OR LONGER, PROVIDE HORIZONTAL CONSTRUCTION JOINT BY STOPPING GROUT 1-1/2" BELOW TOP OF MASONRY UNIT

REINFORCING STEEL

- REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 40 FOR #3 AND SMALL AND GRADE 60 FOR #4 AND LARGER. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706, GRADE 60.
- WELDED WIRE FABRIC (WWF) SHALL COMPLY WITH ASTM 185 (F_y=60 KSI), AND SHALL BE LAPPED 1-1/2 SPACES (12"MM).
- ALL REINFORCING STEEL, DOWELS, ANCHOR BOLTS, ETC. SHALL BE WELL SECURED IN PLACE PRIOR TO PLACING CONCRETE.
- ALL REINFORCING STEEL SHALL BE LAPPED AS SPECIFIED ON THE DETAIL. WHERE NOT SPECIFICALLY INDICATED ON THE DRAWING, ALL REINFORCING STEEL SHALL BE LAPPED USING THE TENSION SPLICE LENGTHS IN THE SCHEDULE ON DRAWING UNLESS NOTED OTHERWISE, TERMINATED CONTINUOUS BARS AT DISCONTINUOUS ENDS WITH STANDARD HOOKS.
- DOWELS SHALL BE PROVIDED AT POUR AND CONSTRUCTION JOINTS AND SHALL BE THE SAME SIZE AND SPACING AS THE REINFORCING SHOWN FOR THE SUBSEQUENT CONSTRUCTION.
- REINFORCING STEEL SHALL HAVE THE FOLLOWING MINIMUM COVERS, U.N.O.

CONCRETE AGAINST EARTH (NOT FORMED)	3"
CONCRETE AGAINST EARTH (FORMED AND TROWELED)	2"
WALL AND CURB	1-1/2"
SLAB ON GRADE	CENTER
- WELDING OR REINFORCING STEEL SHALL COMPLY WITH AWS D1.4. ALL BARS TO BE WELDED SHALL CONFORM TO ASTM A706, GRADE 60.
- SUBMIT REINFORCING STEEL SHOP DRAWING TO ARCHITECT FOR APPROVAL.

DESIGN LOADS

- WIND DESIGN LOADS

BASIC WIND SPEED	110 MPH	S _s = 2.04	F _a = 1.00
EXPOSURE	C	S _e = 0.97	F _v = 1.50
WIND LOADING	30 PSF (LRFD)	S ₀ = 1.099	
		S ₁ = 0.97	LATITUDE = 34.2049861; LONGITUDE = -118.225243
- SEISMIC DESIGN LOADS

OCCUPANCY CATEGORY	II
SITE CLASS	D
SEISMIC DESIGN CATEGORY	E
IMPORTANCE FACTOR	1.00

FOUNDATION

- FOUNDATION DESIGN IS BASED ON GEOTECHNICAL REPORT PREPARED BY: NINYO & MOORE PROJECT NUMBER 20846500, DATED DEC. 6, 2016
- ALLOWABLE DESIGN VALUE (SILTY SANDS AND CLAYEY SAND SOIL TYPES):
BEARING PRESSURE: 2000 PSF
PASSIVE PRESSURE: 300 PSF PER FOOT OF EMBEDMENT
FRICTION: 0.35
- FOOTING SHALL REST ON COMPACTED SOIL.
- NO BACKFILL SHALL BE DONE AGAINST FOUNDATION AND RETAINING WALL UNTIL CONCRETE HAS ATTAINED AT LEAST 75% OF ITS DESIGN STRENGTH. ADEQUATELY SHORE RETAINING WALLS DURING BACKFILL.
- CONTRACTOR SHALL BE RESPONSIBLE TO ADEQUATELY PROTECT ALL EXCAVATION SLOPES. WHERE NECESSARY, SHEETING AND SHORING OF EXCAVATION SHALL BE PROVIDED WITH ALL REQUIRED TIE BACKS AND BRACING.
- METHOD EMPLOYED IN ALL SHEETING AND SHORING SHALL BE DESIGNED BY A LICENSED PROFESSIONAL CIVIL ENGINEER.

GENERAL

- ALL WORKS AND MATERIALS SHALL CONFORM TO THE 2016 CALIFORNIA BUILDING CODE AND ALL LOCAL CODES.
- STRUCTURAL DRAWINGS ARE PARTS OF CONTRACT DOCUMENTS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AND COORDINATE WITH ARCHITECTURAL DRAWINGS, DRAWINGS FROM OTHER CONSULTANTS, PROJECT SHOP DRAWINGS AND FIELD CONDITIONS, AND SHALL NOTIFY THE ARCHITECT AND ENGINEERS OF ANY DISCREPANCIES.
- STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. CONTRACTOR SHALL PROVIDE MEANS AND METHODS AS REQUIRED. PROVIDE ADEQUATE BRACING, SHORING, TEMPORARY STRUCTURES AND PARTIALLY COMPLETED PORTIONS OF WORKS COMPLYING WITH NATIONAL, STATE AND ALL LOCAL SAFETY ORDINANCES.
- TYPICAL DETAILS AND SCHEDULES MAY NOT BE REFERENCED ON DRAWINGS. CONTRACTOR SHALL REVIEW AND BE FAMILIAR WITH ALL TYPICAL DETAILS AND SCHEDULES PRIOR TO PROCEED WITH WORK.
- CONTRACTOR SHALL PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITY LINES FROM ALL DAMAGE.
- THE CONTRACTOR SHALL NOT DEVIATE FROM THE TENDERED DOCUMENTS WITHOUT WRITTEN APPROVAL OF THE ARCHITECT AND ENGINEERS.
- JOB SAFETY AND CONSTRUCTION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APPROX 119848
AC: PLS SEE SS CL
DATE: MAY 26 2019

Architecture
PLLLP

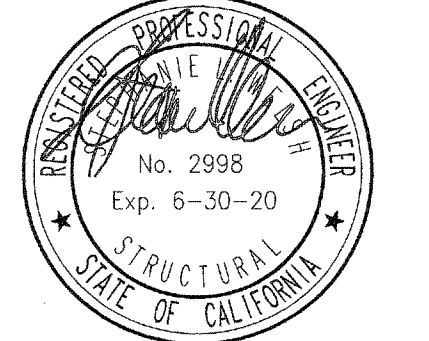
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8816 Foothill Boulevard, Suite 103-224
Rancho Cucamonga, CA 91730
a9contact@architecture9.com

ARCHITECTS STAMP:

CONSULTANT:

CONSULTANTS STAMP:



SCHOOL DISTRICT:
**GLENDALE
UNIFIED
SCHOOL
DISTRICT**

PROJECT:
**VERDUGO
WOODLANDS
PLAYGROUND
SHADE
STRUCTURE**

JOB NUMBER: 10.02.10
DATE: 07.01.18

REVISION: Δ DATE: _____
REVISION: Δ DATE: _____

DRAWING TITLE:
DETAILS

DRAWING NO.:

A1.3

DESIGN VALUES: Table with columns for DESCRIPTION and DESIGN VALUES. Includes sections for DEAD AND LIVE LOADS, ALLOWABLE SOIL PRESSURE, ROOF SNOW LOAD, FLOOD DESIGN, WIND DESIGN, and SEISMIC DESIGN.

ARCHITECTURAL REQUIREMENTS: Table with columns for DESCRIPTION and DESIGN VALUES. Includes TYPE OF CONSTRUCTION, OCCUPANCY CLASSIFICATION, NUMBER OF STORIES, FIRE HAZARD SEVERITY ZONE, and FIRE SPRINKLER SYSTEM.

POLYGON ASSUMES ANY OCCUPANT LOAD CALCULATIONS ARE BASED ON 15 SQ FT/ PERSON. PROJECT ARCHITECT MAY ADJUST OCCUPANT LOAD AS PERMITTED BY THE BUILDING CODE.

RELATED BUILDING CODES AND STANDARDS:

- TITLE 24 CODES: 2013 California Administrative Code (CAC), 2013 California Building Code (CBC), 2013 California Electrical Code, 2013 California Mechanical Code (CMC), 2013 California Plumbing Code (CPC), 2013 California Energy Code, 2013 California Fire Code (CFC), 2013 California Green Building Standards Code, 2013 California Referenced Standards Code.

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 COMPOSED 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 DETAILED 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 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.
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) SPECIFICATION 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, C5 = 2, 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).

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: THE POLYGON ENGINEERING DEPARTMENT IS AVAILABLE TO HELP YOU COMPLETE THESE STEPS (616-399-1963).

- STEP 1: SELECT FRAME DIMENSIONS FOR YOUR PROJECT
- STRUCTURES UP TO 20' WIDE USE THE "RAM 20" BASE FRAME
- STRUCTURES UP TO 30' WIDE USE THE "RAM 30" BASE FRAME
- THE 20' AND 30' WIDTHS ARE SUGGESTED BECAUSE THEY ARE THE MOST ECONOMICAL
- MAXIMUM WIDTH IS 30'; (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 WIDTHS AND 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 3.75)
- FIND Ss VALUES FOR YOUR PROJECT ON THE USGS WEBSITE (SEARCH INTERNET FOR "USGS SEISMIC DESIGN MAPS")
- THIS PC IS NOT APPROVED FOR Ss VALUES GREATER THAN 3.00 (CONTACT POLYGON FOR ADDITIONAL OPTIONS)

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 WHITE Ss REGION WITH A 4 PSF ROOF DEAD LOAD IS LOAD SCENARIO 2
- LOAD SCENARIOS HAVE NO IMPACT ON FRAME DESIGN OR COST (BUT DO AFFECT FOUNDATION SIZE)
- SELECT EITHER SPREAD PAD OR DRILLED PIER FOUNDATION
- FOUNDATION TYPE IMPACTS STEEL FABRICATION (COLUMN LENGTH) AND CONSTRUCTION (TIMING, SEQUENCE, COST, ETC.)
- POLYGON CAN REVIEW THE SITE-SPECIFIC SOILS REPORT TO EVALUATE THE POSSIBILITY OF SMALLER FOUNDATIONS

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 @ (0° 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 PRETENSIONING
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:

- 3. 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., NECESSARY TO SUPPORT CUT AND/OR FILL BANKS DURING EXCAVATION, AND FORMING AND PLACEMENT OF CONCRETE.

CONCRETE:

- 1. MIX DESIGN REQUIREMENTS: (NORMAL WEIGHT CONCRETE)
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 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.

Table with columns: STRENGTH f'c (28 DAYS), W/C RATIO (NONAIR ENTRAINED), W/C RATIO (AIR ENTRAINED), SLUMP (± 1"), UNIT WEIGHT (NORMAL WEIGHT). Values: 5000 PSI, 0.63, 0.55, 3", 150 PCF.

Form for selecting frame dimensions, roof deck, acceleration, regions, and foundation requirements. Includes tables for Ss Regions and Foundation Requirements.

REINFORCING STEEL:

- 1. REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A615. (DEFORMATIONS SHALL BE IN ACCORDANCE WITH ASTM A305) AS FOLLOWS: GR 60: (#4 BARS AND LARGER) GR 40: (#3 BARS)
2. DETAILING, FABRICATION, AND ERECTION OF REINFORCING BARS SHALL CONFORM TO THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES."
3. MIN. COVER FOR CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:
A. CAST AGAINST EARTH..... 3"
B. CAST AGAINST FORM BELOW GRADE..... 2"
C. FORMED SLABS (#11 BAR & SMALLER)..... 3/4"
D. SLABS ON GRADE (FROM TOP OF SLAB)..... 1"
E. COLUMNS AND BEAMS (MAIN BARS)..... 2"
F. WALLS EXPOSED TO WEATHER (#6-#10 BARS)..... 2" (#5 & SMALLER)..... 1 1/2"
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 SPICED 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.

POWDER COATED AND EPOXY PRIMED FINISH:

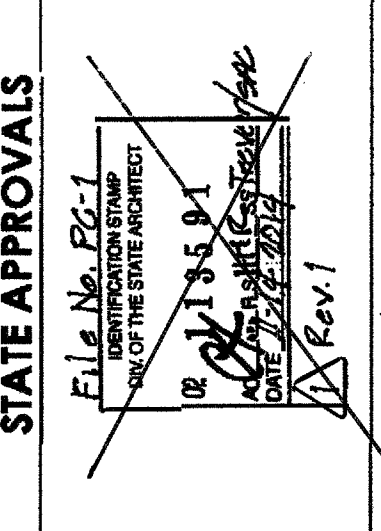
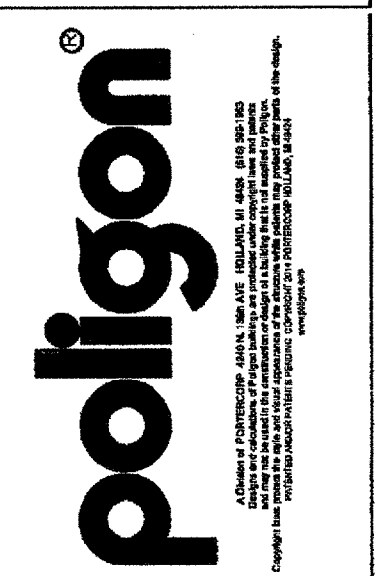
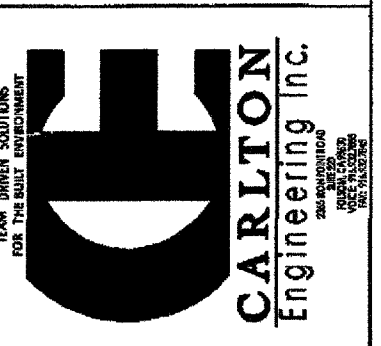
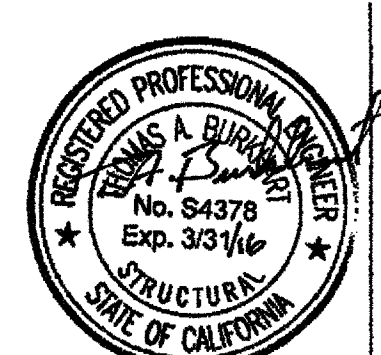
- 1. ENTIRE POWDER COATING PROCESS COMPLETED IN SAME FACILITY AS STEEL FABRICATION.
2. ALL CARBON STEEL MEMBERS (COLUMNS, BEAMS, PLATES, ETC.) PAINTED WITH PRIME COAT PER THE "AISC CODE OF STANDARD PRACTICE" AND THE "AISC SPECIFICATION SECTION M3" (UNLESS NOTED OTHERWISE).
3. PARTS PRETREATED IN A 3 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:

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

SHEET INDEX table showing project name (Verdugo Woodlands Elem. Playfield Shade Structure), school district (Glendale Unified School District), and sheet details for RAM 20 and RAM 30.

IDENTIFICATION OF THE STATE ARCHITECT: AP03 119848, AC FL Ss cc, DATE MAR 20 2019



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

GENERAL NOTES HIP ROOF (RAM) PC DRAWINGS

DRAWN BY: JMD CHECKED BY: CE POLYGON #: 51458

PD1.0

SPECIAL INSPECTION NOTES:

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

DSA DSA-103 rev 12/2013 **Statement of Structural Tests & Special Inspections - 2013 CBC**

INCREMNT # _____ DSA File No.: PC-1
Application No.: 02-113591
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 the 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 selection 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	PERFORMED BY	CODE REFERENCE AND NOTES
	SOILS			
	1. GENERAL: Table 1705A.6			
X	a. Verify that: • site has been prepared properly prior to placement of structural 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, thickness, 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			
	7. CAST IN PLACE CONCRETE			
	Material Verification and Testing:			
X	a. Verify use of required design mix.	Periodic	SI & PI*	* To be performed by batchplant special inspector and project inspector
X	b. Test reinforcing steel.	Test	Lab	1913.2.2 (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	e. 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			
	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	SI*	* 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 certification 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, DSA IR 17-3, AWS D1.1 and AWS D1.3 (AWS D1.3 for cold formed steel).
	19. WELDING:			
	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

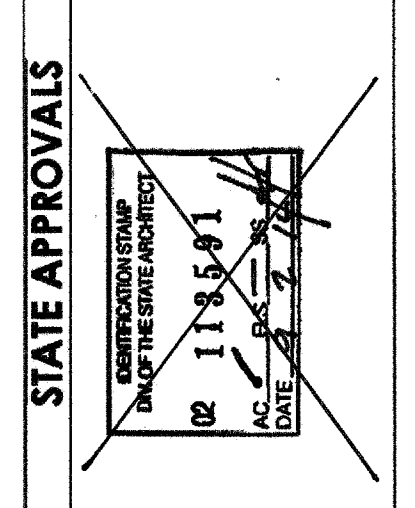
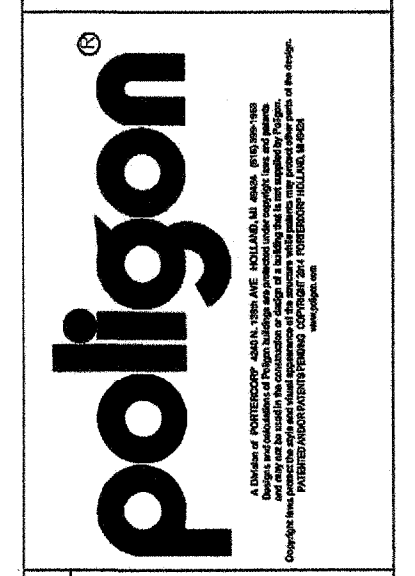
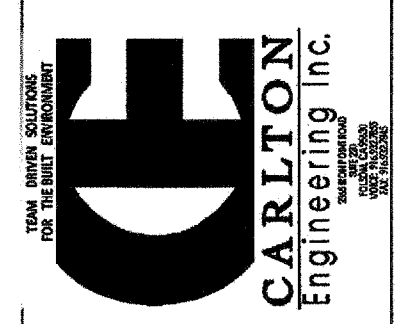
1 Type -	2 Performed By -
Continuous - Indicates that a continuous special inspection is required	GE - Indicates that the special inspection is to be performed by a registered geotechnical engineer or his or her authorized representative
Periodic - Indicates that a periodic special inspection is required	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 2.
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 2/28/14

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. # 02-113591
AC N/A FLS N/A SS
DATE _____

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 11 9 8 4 8
AC FLS SS
DATE _____



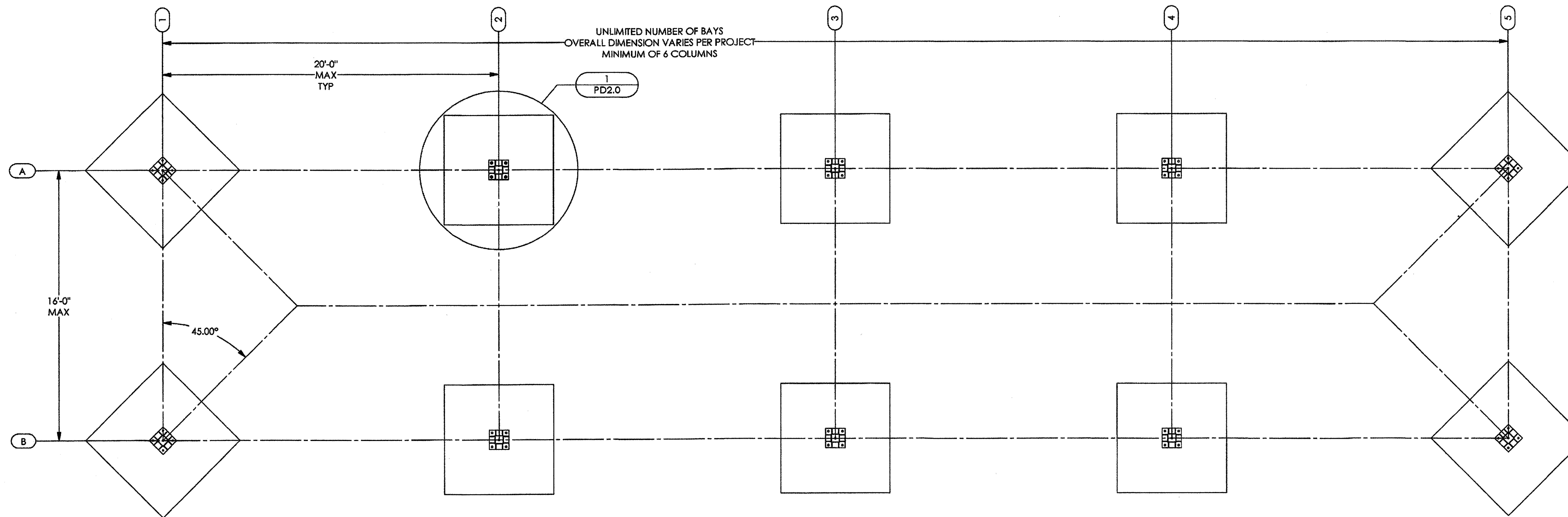
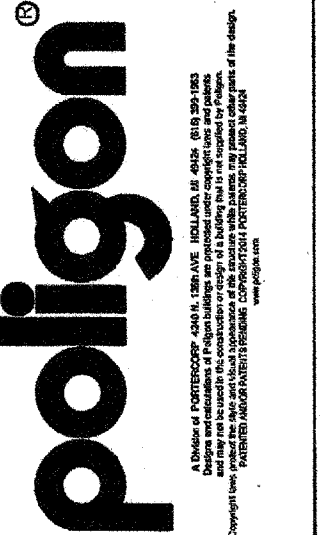
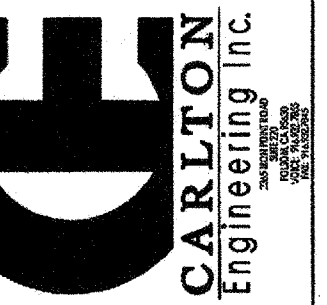
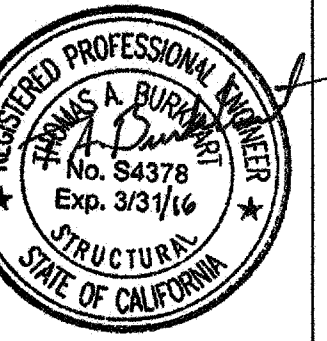
PRE-CHECK (PC) DOCUMENT
CODE: 2013 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

SPECIAL INSPECTIONS
HIP ROOF (RAM)
PC DRAWINGS

PD1.1

FOUNDATION PLAN NOTES:

1. TOP OF ALL FOUNDATIONS MUST BE CONSTRUCTED AT ONE COMMON ELEVATION (COORDINATE WITH SITE PLANS - NOT BY POLYGON)
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 POLYGON.
6. VIBRATE CONCRETE FULL DEPTH OF FOUNDATION.
7. FOR DRILLED PIER FOUNDATIONS, PREVENT SOIL FROM ENTERING EXCAVATED HOLE (FORM, ETC).



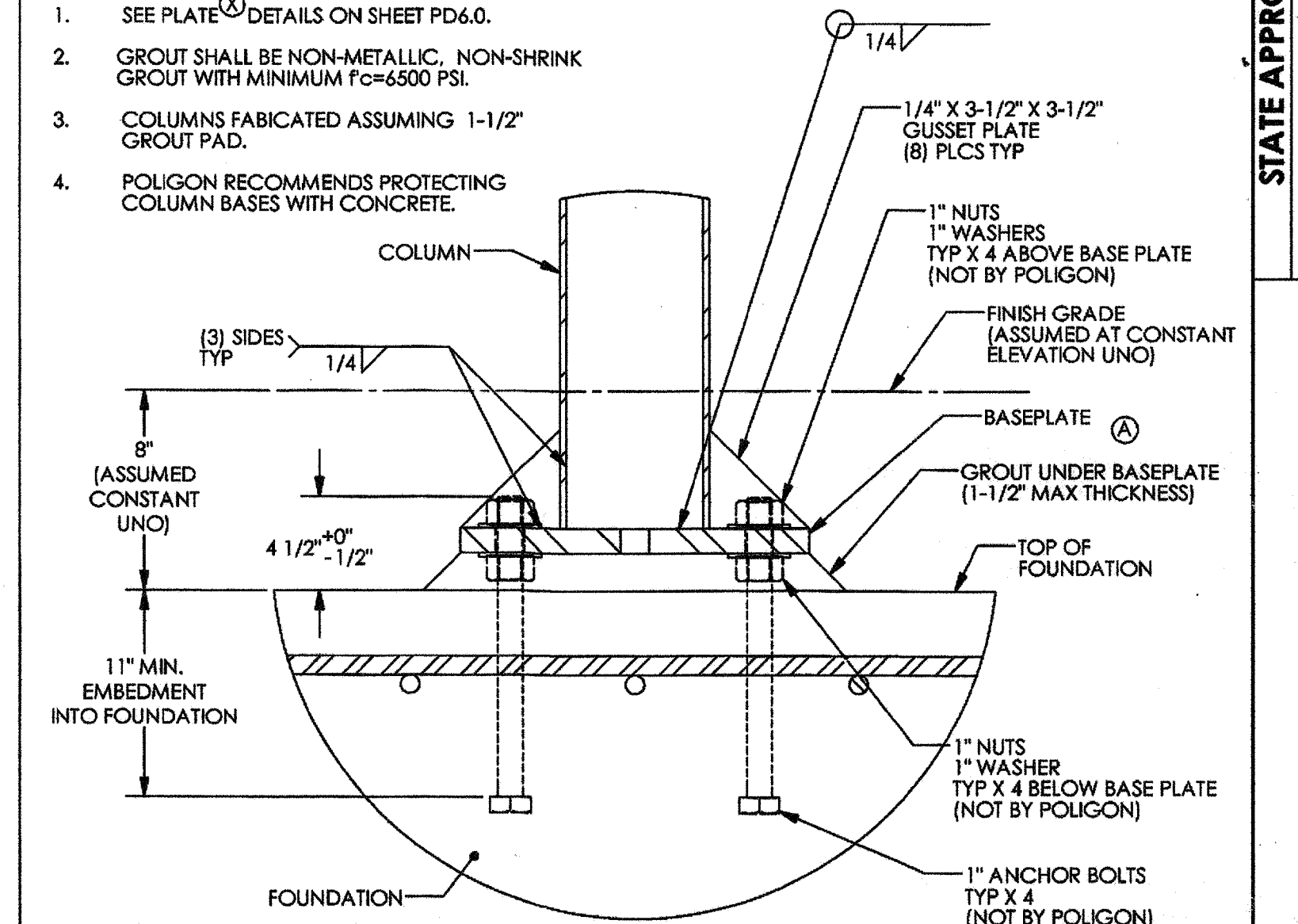
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DIV. OF THE STATE ARCHITECT
APP03 1 1 9 8 4 8
AC / FLS / SS /
DATE MAR 2 6 2019

FOUNDATION PLAN (SPREAD PAD)

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

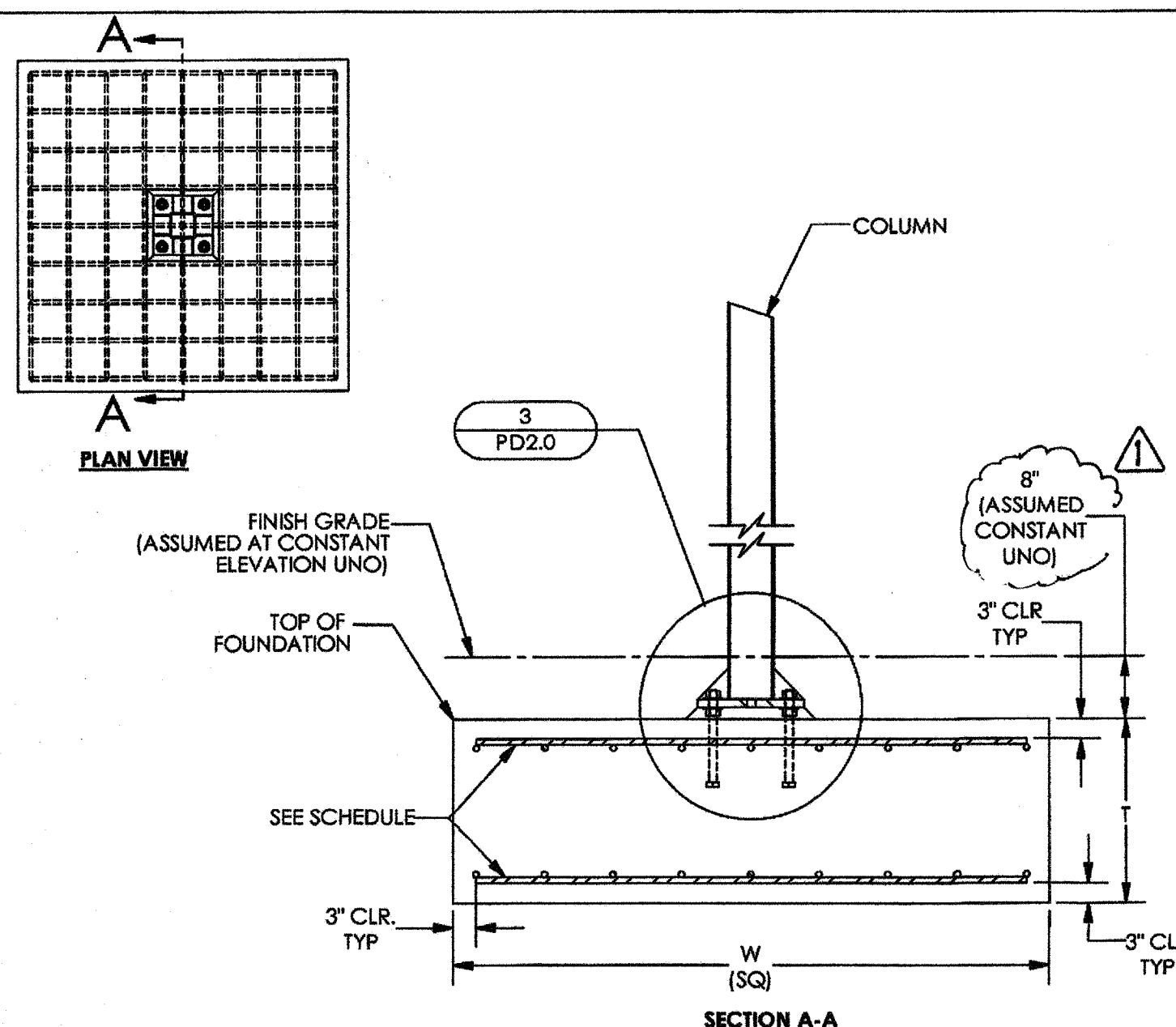
NOTES:

1. SEE PLATE 3 DETAILS ON SHEET PD6.0.
2. GROUT SHALL BE NON-METALLIC, NON-SHRINK GROUT WITH MINIMUM Fc=6500 PSI.
3. COLUMNS FABRICATED ASSUMING 1-1/2" GROUT PAD.
4. POLYGON RECOMMENDS PROTECTING COLUMN BASES WITH CONCRETE.



COLUMN BASE PLATE AND ANCHOR BOLTS

3



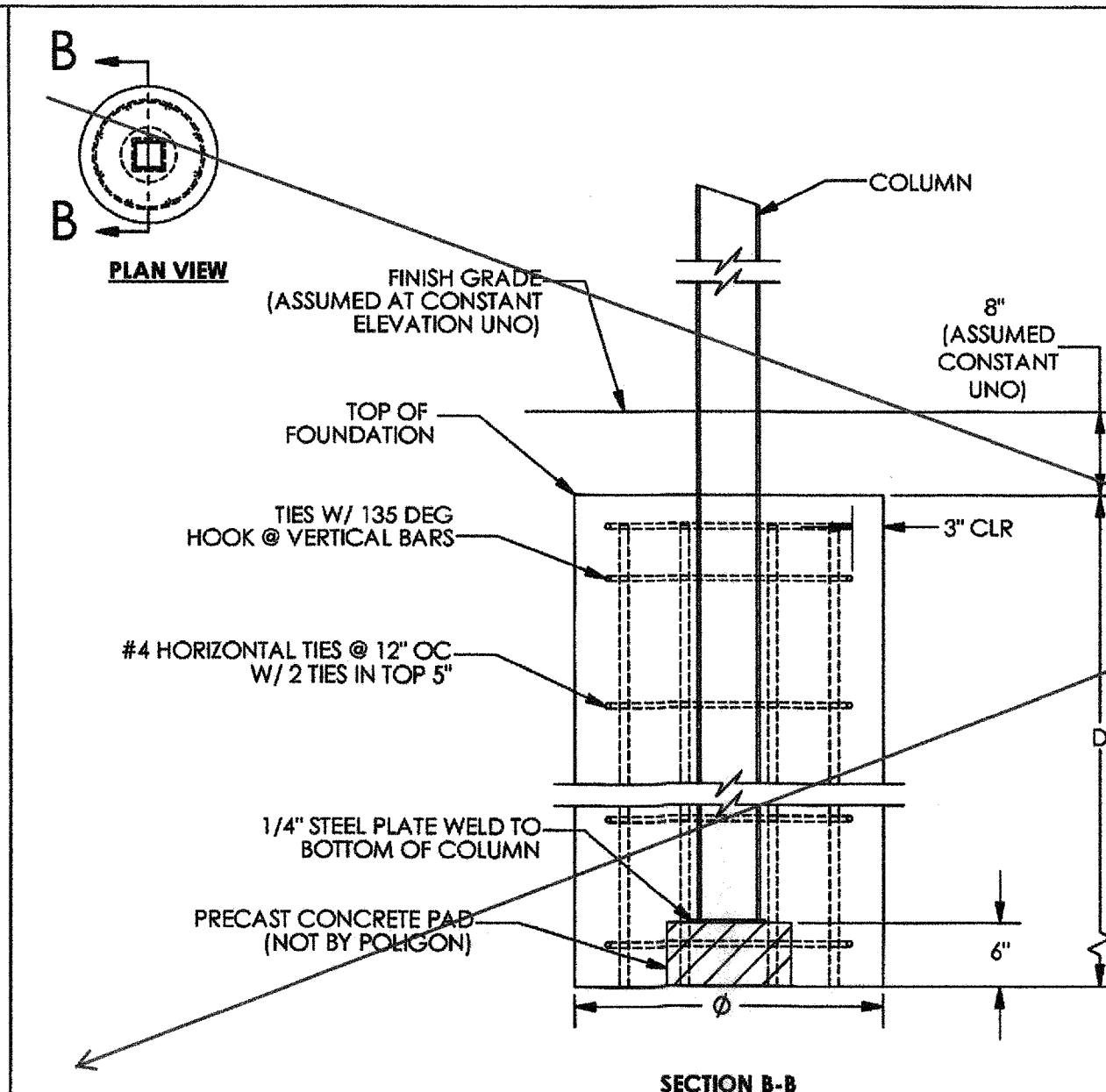
SPREAD PAD FOUNDATION

1

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

SPREAD PAD SIZE AND REINFORCING REQUIREMENTS				
LOAD SCENARIO	WIDTH (W)	THICKNESS (T)	HORIZONTAL REINFORCING ¹	
			QTY	SIZE
1	6'-0"	1'-6"	6	#6
2	6'-0"	2'-0"	8	#6
3	7'-0"	2'-0"	9	#6
4	7'-6"	2'-0"	9	#6

¹ EQUALLY SPACED EACH WAY, TOP AND BOTTOM



DRILLED PIER FOUNDATION (BURIED COLUMN)

2

FOUNDATION REQUIREMENTS VARY PER PROJECT
SEE SHEET PD1.0 FOR REQUIRED LOAD SCENARIO AND FOUNDATION TYPE (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'-6"	8'-0"	6	#6
2	2'-6"	9'-6"	8	#6
3	2'-6"	10'-0"	8	#6
4	2'-6"	10'-0"	8	#6

¹ EQUALLY SPACED AROUND DRILLED PIER

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

STATE APPROVALS

PRE-CHECK (PC) DOCUMENT

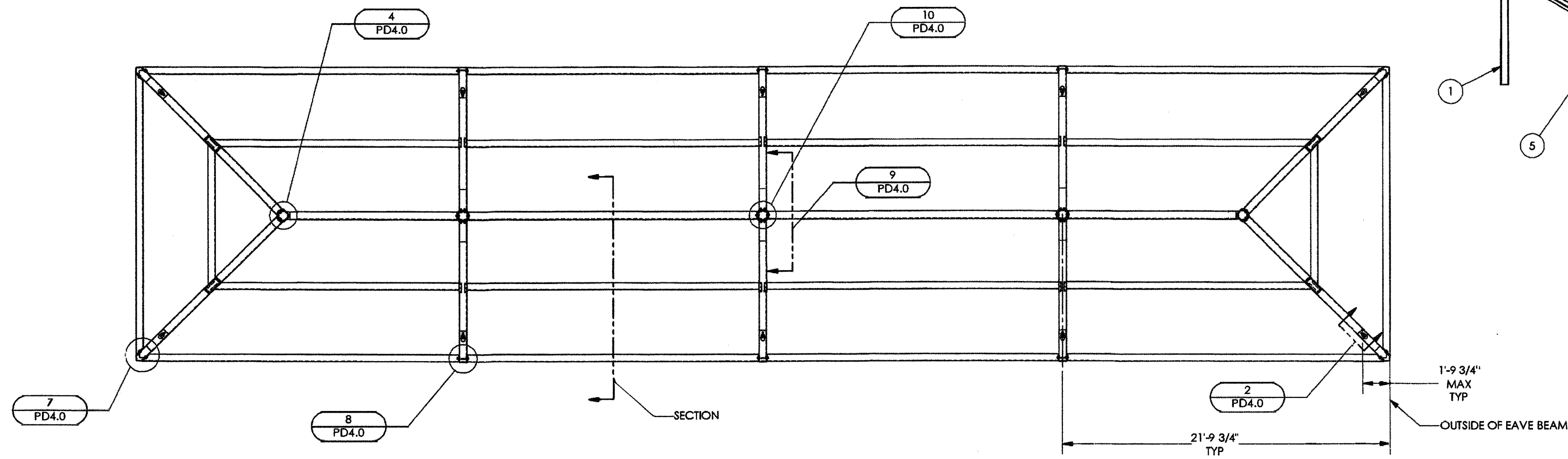
FOUNDATION PLAN
RAM 20

PD2.0

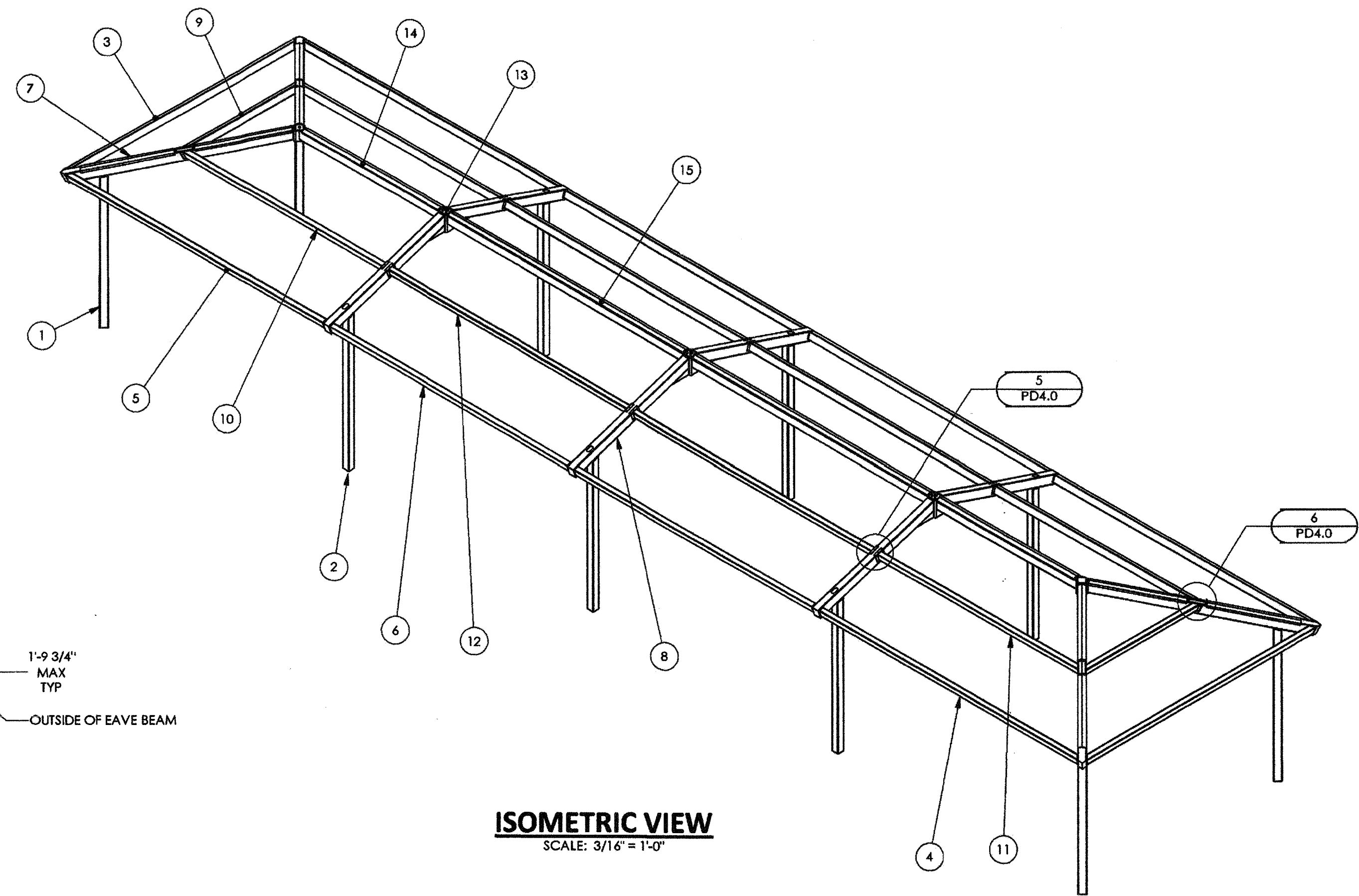
CODE: 2013 CBC

HIP ROOF (RAM)
PC DRAWINGS

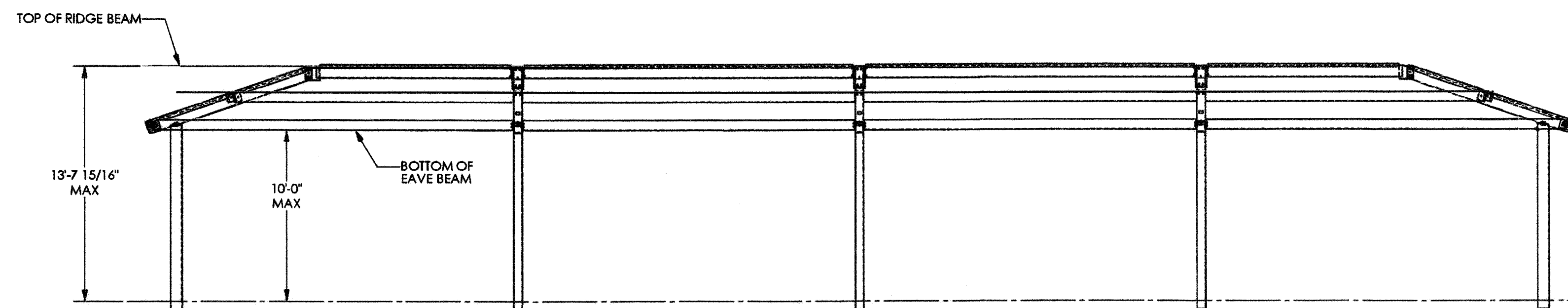
DRAWN BY: JMD
CHECKED BY: CE
POLYGON #: 51458



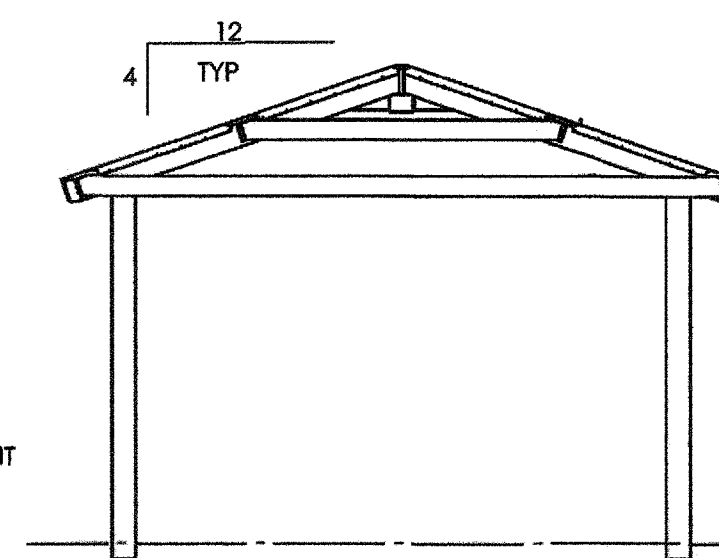
PLAN VIEW
SCALE: 3/16" = 1'-0"



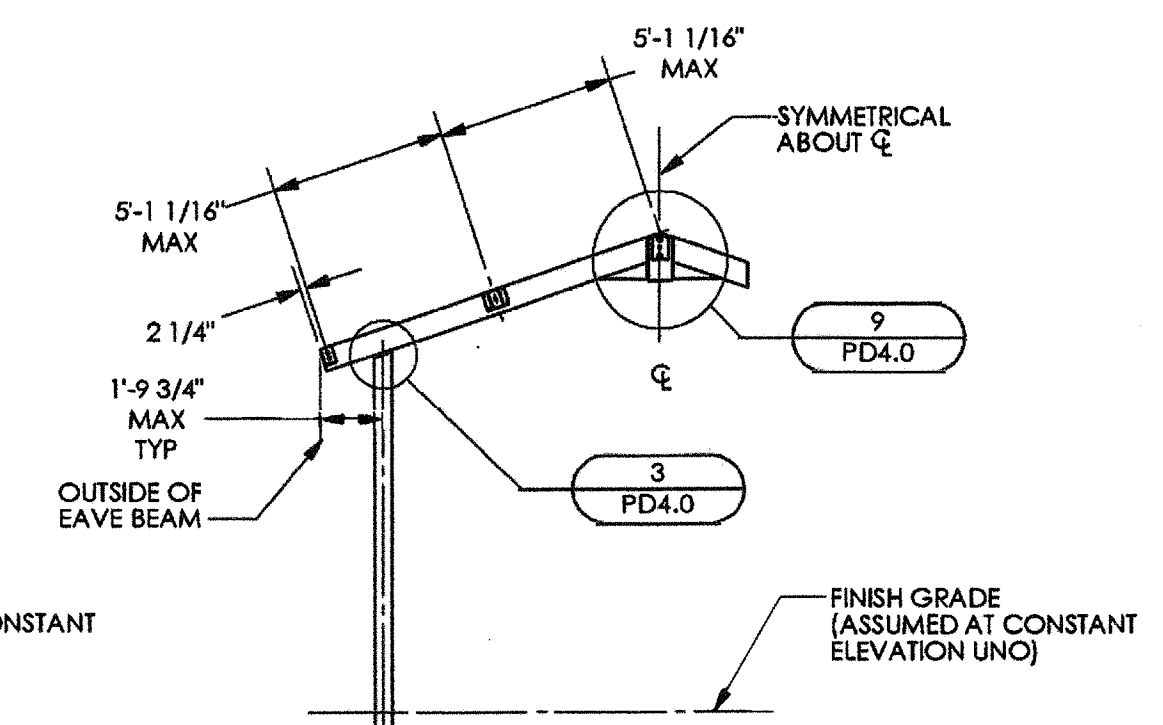
ISOMETRIC VIEW
SCALE: 3/16" = 1'-0"



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



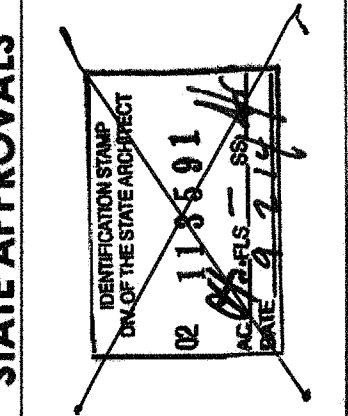
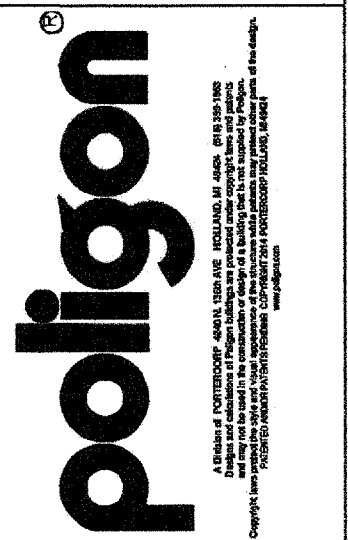
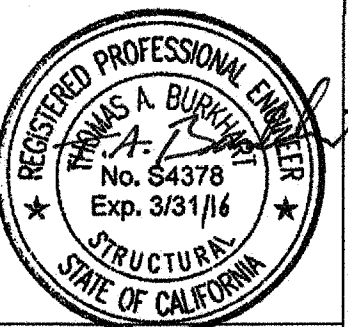
SIDE ELEVATION
SCALE: 3/16" = 1'-0"



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

IDENTIFICATION STAMP
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APP03 1 1 9 8 4 8
AC / FLS *FLS* / *FLS*
DATE *MAR 26 2019*

ITEM	FRAME /QTY.	PART NO.	DESCRIPTION	MATERIAL
15	2	-	RIDGE BEAM ASM, MID	HSS8X6X3/16
14	2	-	RIDGE BEAM ASM, END	HSS8X6X3/16
13	3	-	COMPRESSION TUBE ASM	HSS8X8X5/8
12	4	-	PURLIN ASM, SIDE	HSS6X4X3/16
11	2	-	PURLIN ASM, RH	HSS6X4X3/16
10	2	-	PURLIN ASM, LH	HSS6X4X3/16
9	2	-	PURLIN ASM, END	HSS6X4X3/16
8	6	-	GABLE BEAM ASM	HSS8X6X3/16
7	4	-	HIP BEAM ASM	HSS8X6X3/16
6	4	-	EAVE BEAM ASM, SIDE	HSS6X4X1/8
5	2	-	EAVE BEAM ASM, RH	HSS6X4X1/8
4	2	-	EAVE BEAM ASM, LH	HSS6X4X1/8
3	2	-	EAVE BEAM ASM, END	HSS6X4X1/8
2	6	-	COLUMN ASM, SIDE	HSS6X6X1/4
1	4	-	COLUMN ASM, CORNER	HSS6X6X1/4



PRE-CHECK (PC) DOCUMENT

CODE: 2013 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

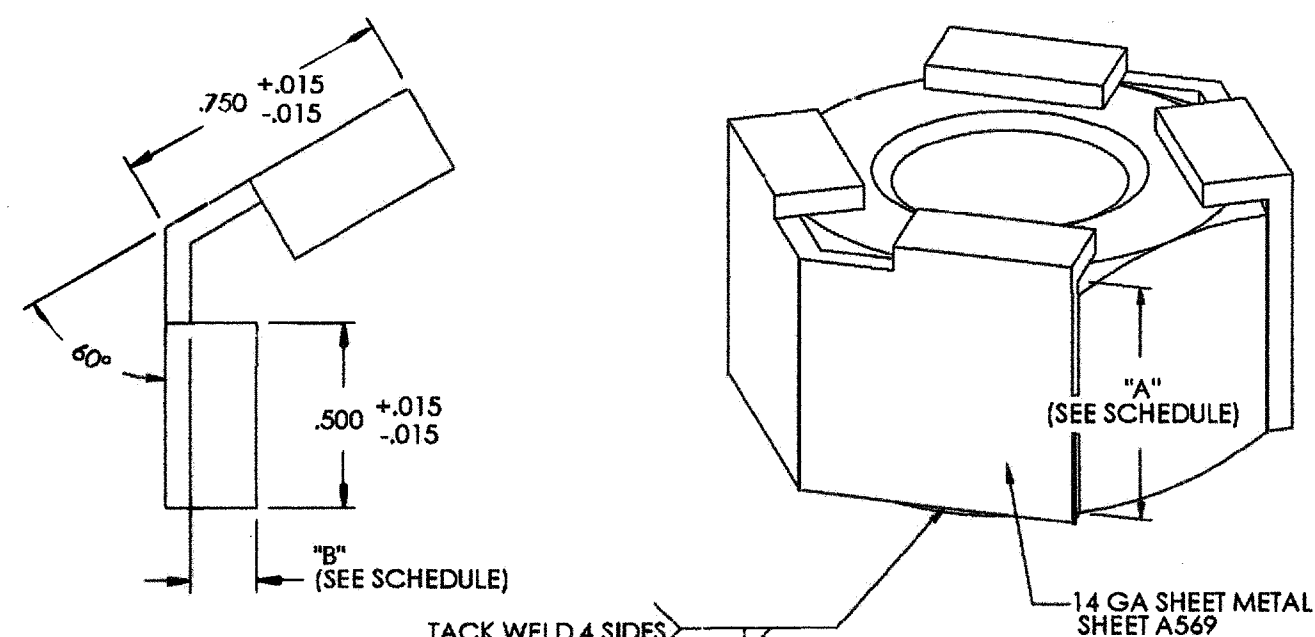
FRAMING PLAN
RAM 20

HIP ROOF (RAM)
PC DRAWINGS

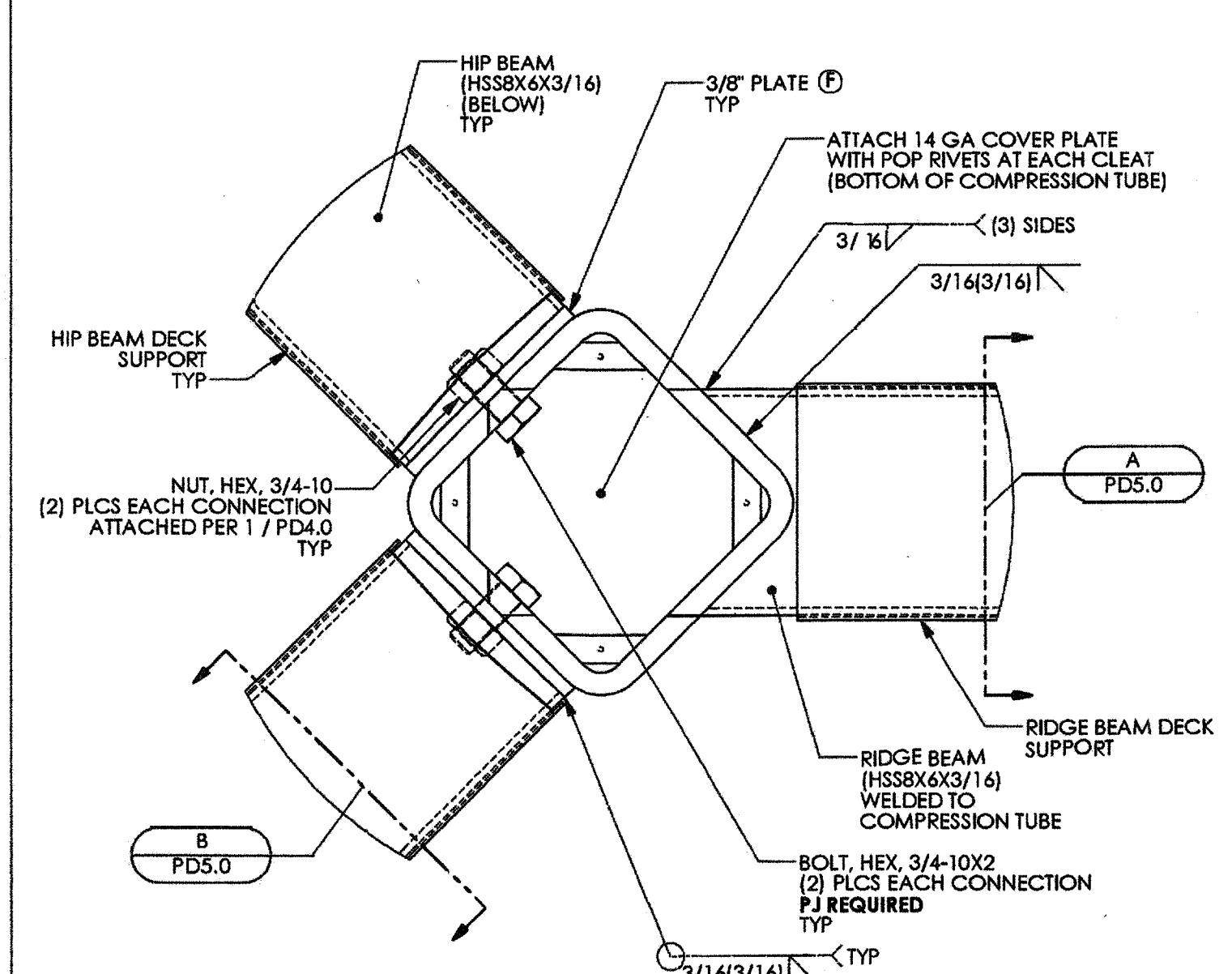
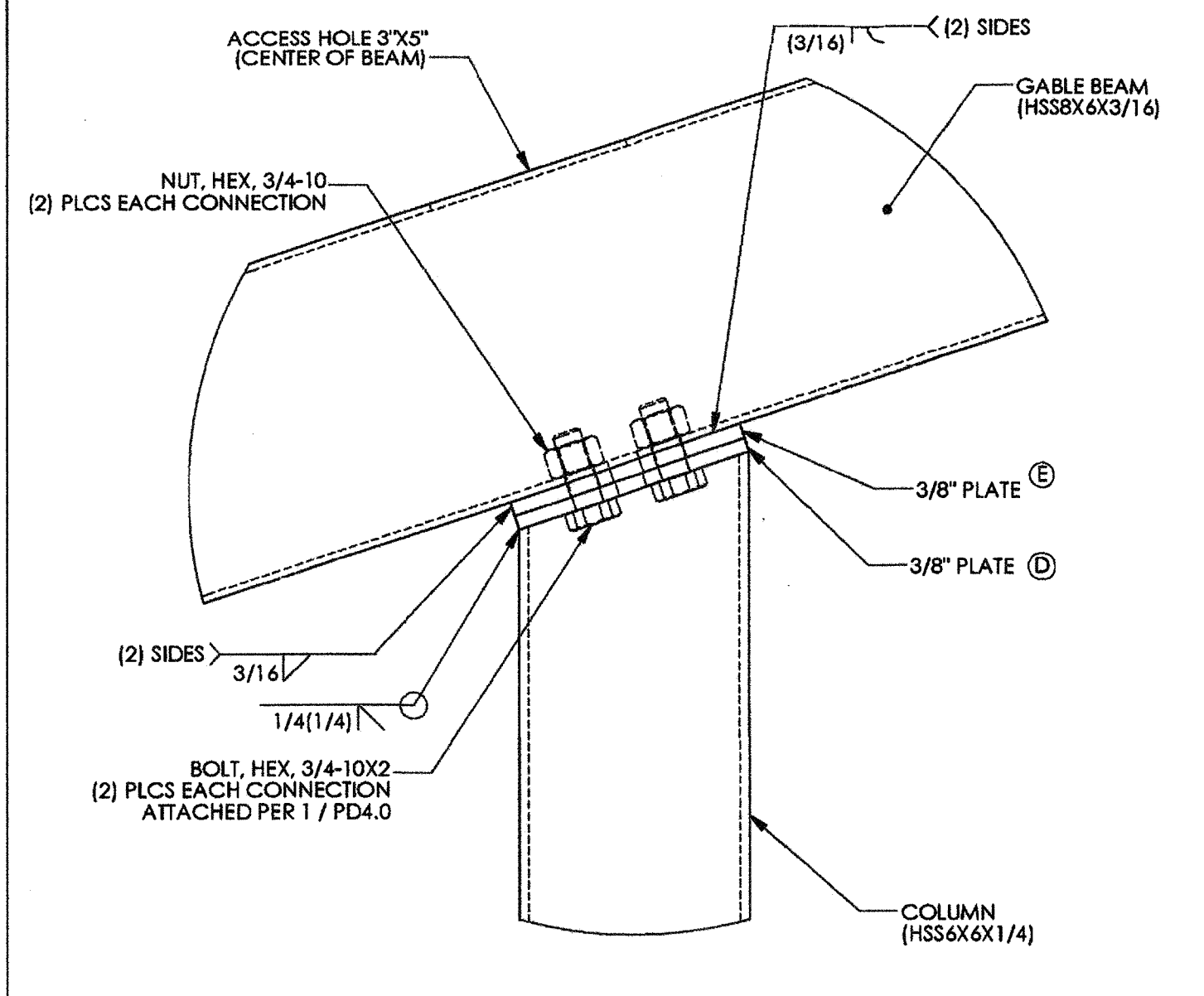
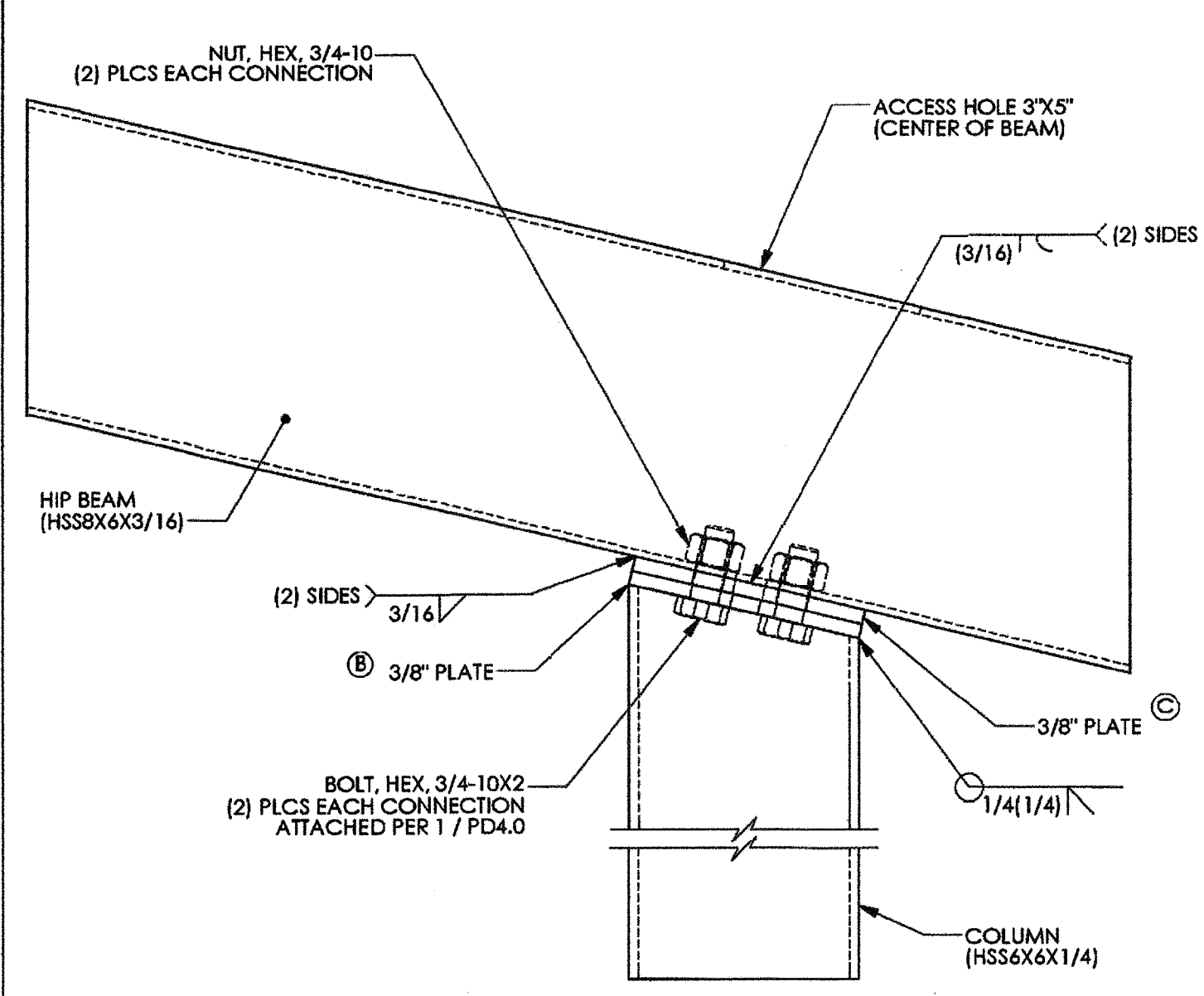
DRAWN BY: JMD
CHECKED BY: CE
POLYGON # : 51488

PD3.0

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



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



NUT & BOLT RESTRAINING SYSTEM

1

HIP BEAM CONNECTION @ COLUMN

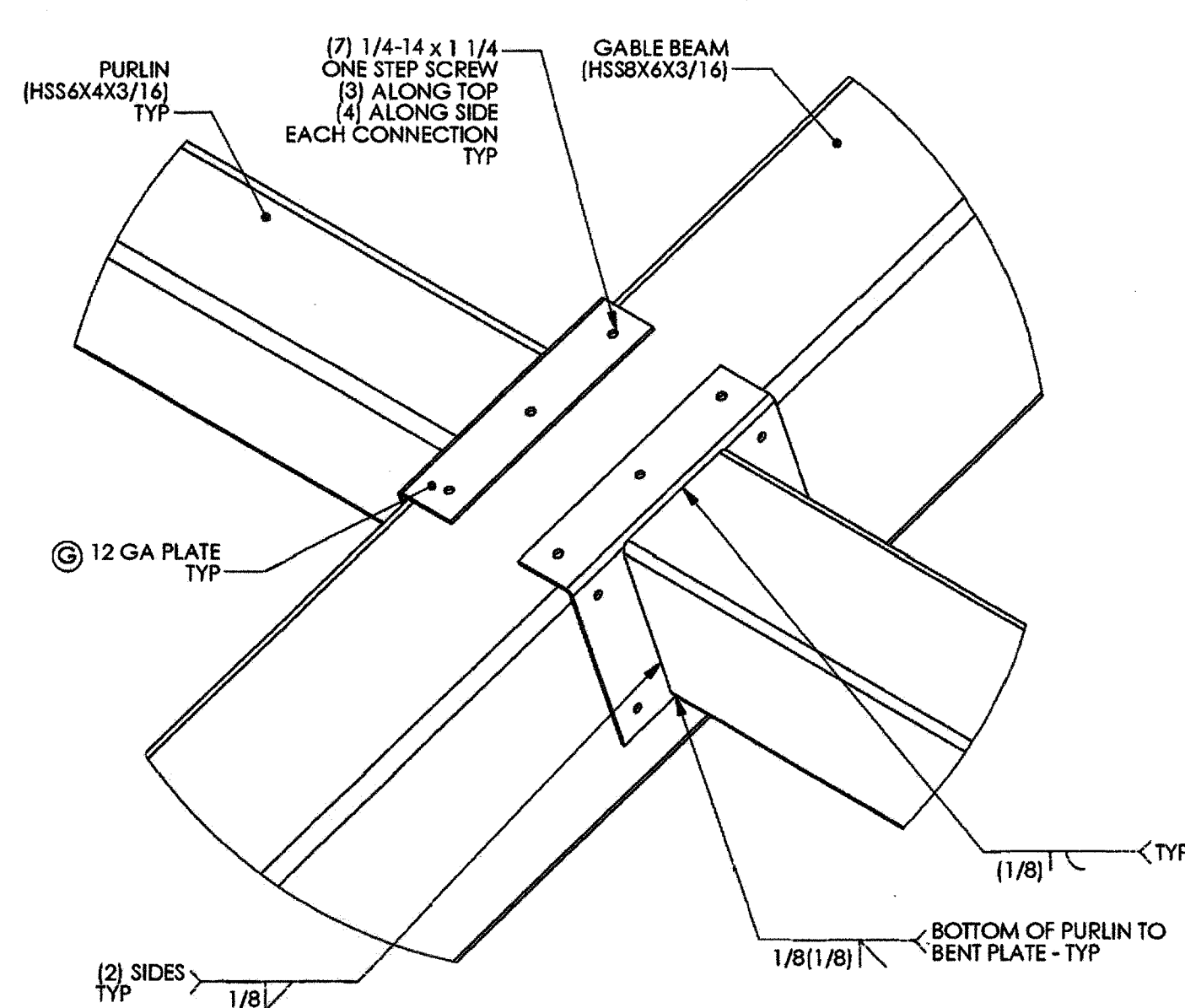
2

GABLE BEAM CONNECTION @ COLUMN

3

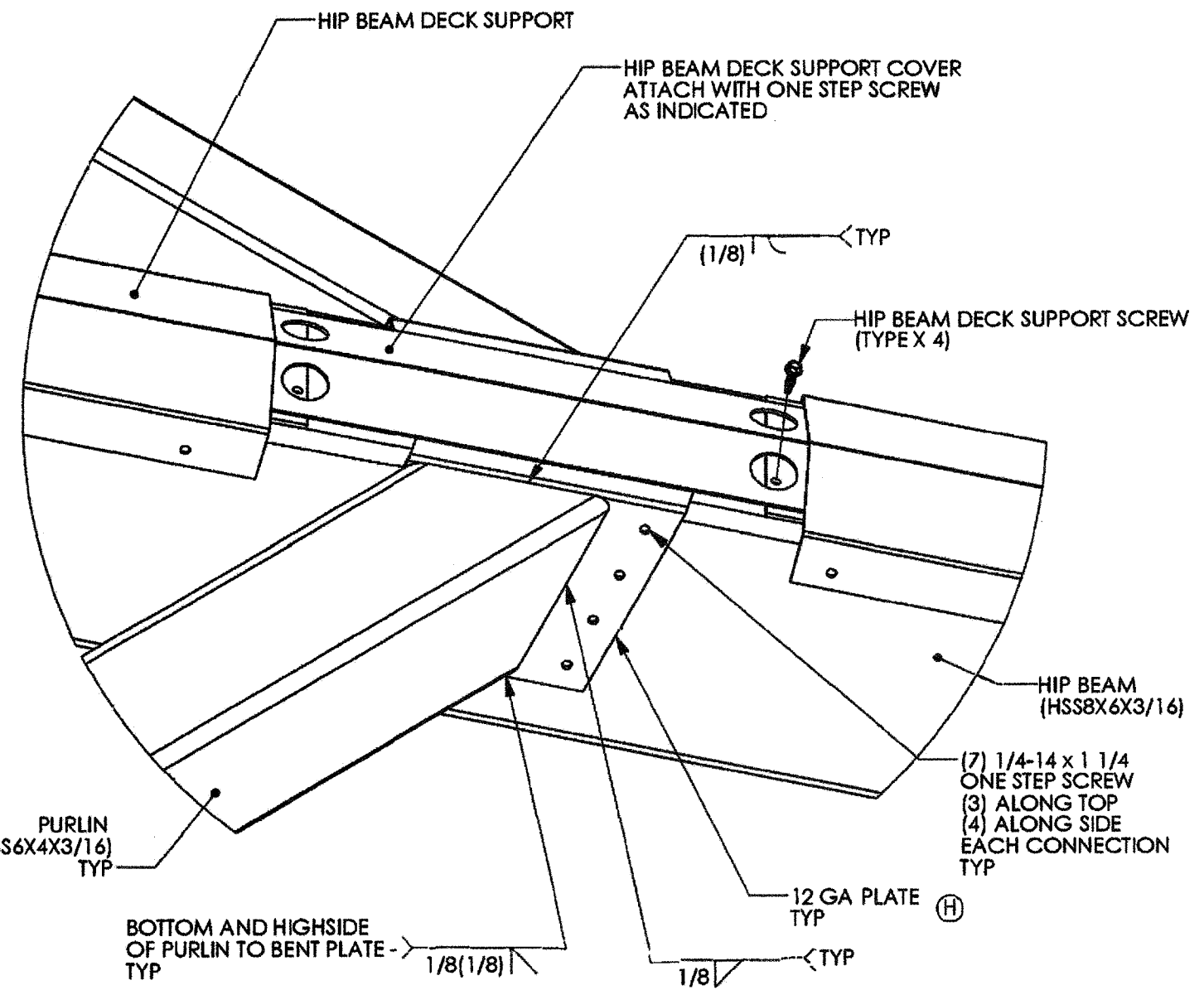
HIP BEAM CONNECTION @ COMPRESSION TUBE

4



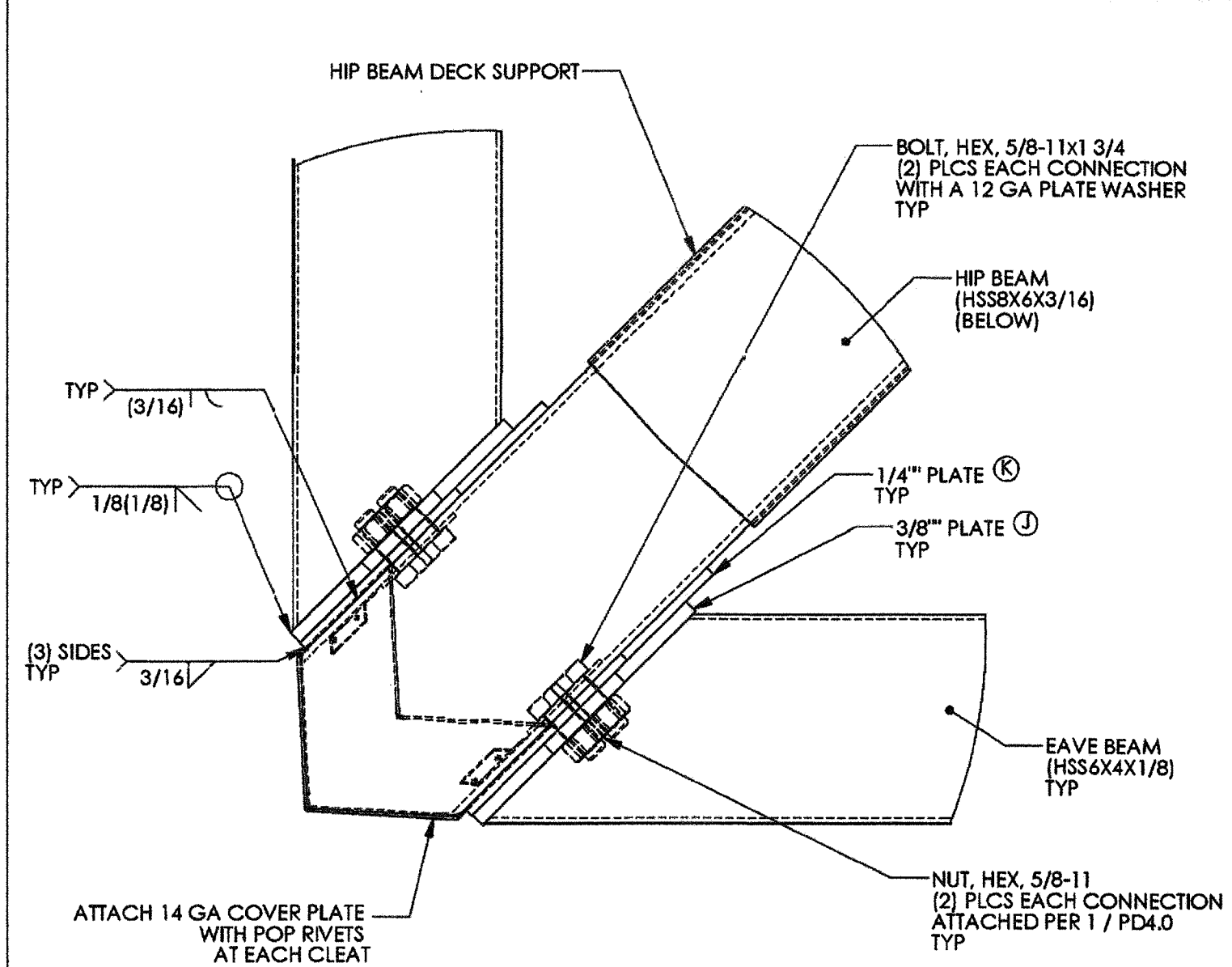
PURLIN CONNECTION @ GABLE BEAM

5



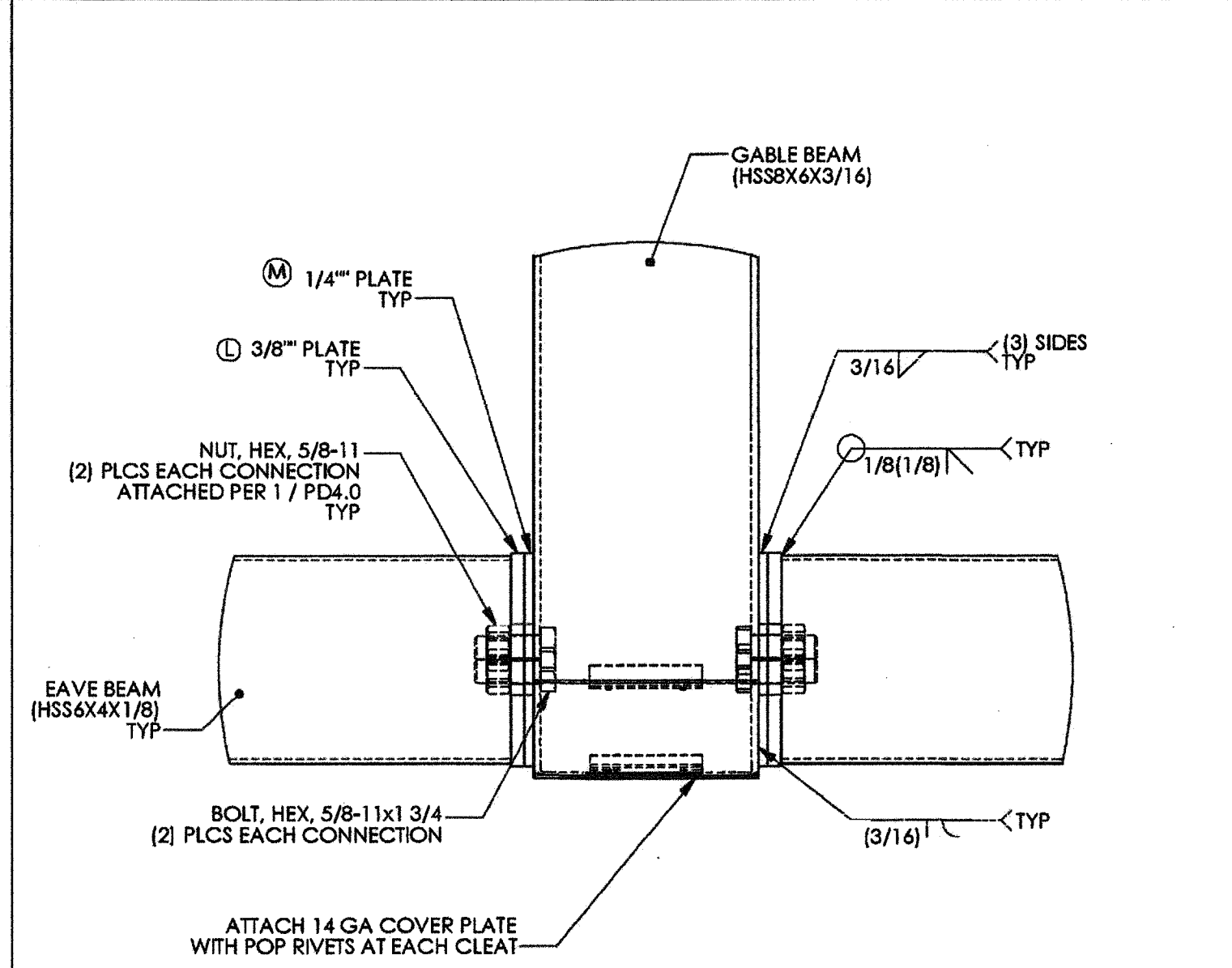
PURLIN CONNECTION @ HIP BEAM

6



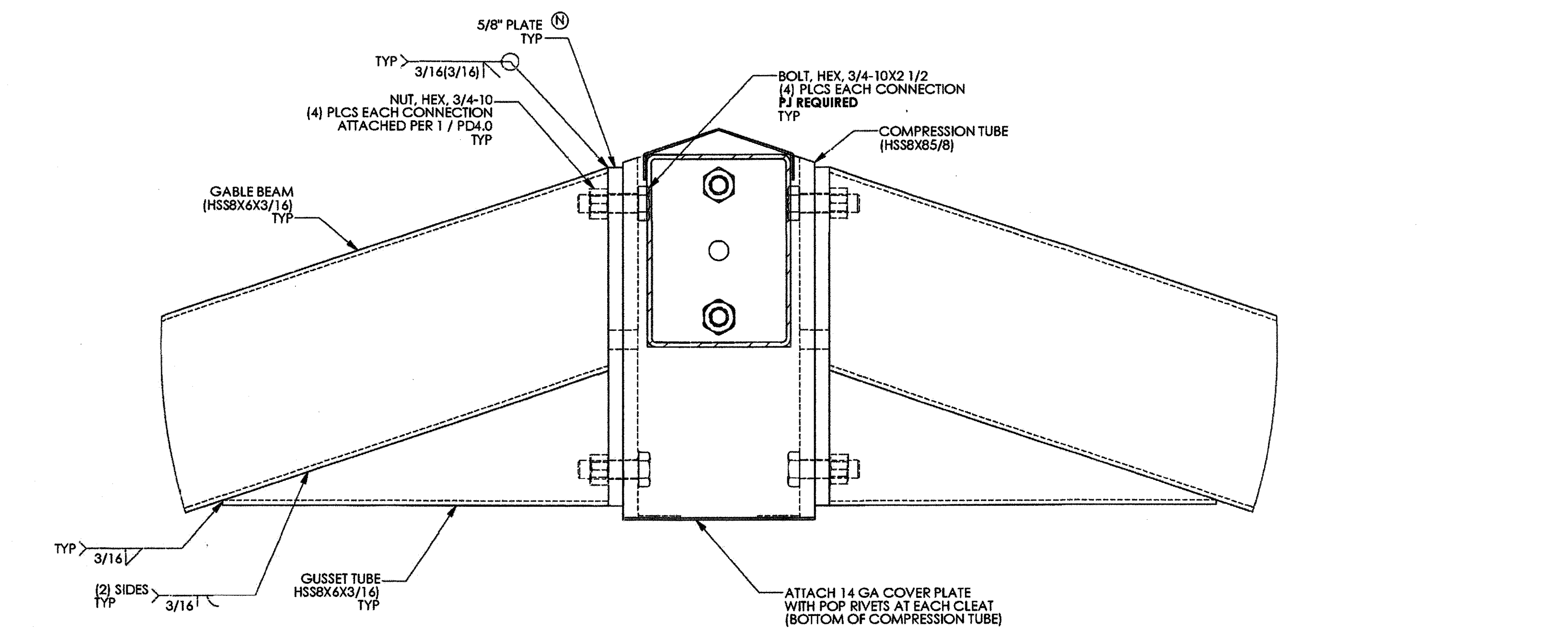
EAVE BEAM CONNECTION @ HIP BEAM

7



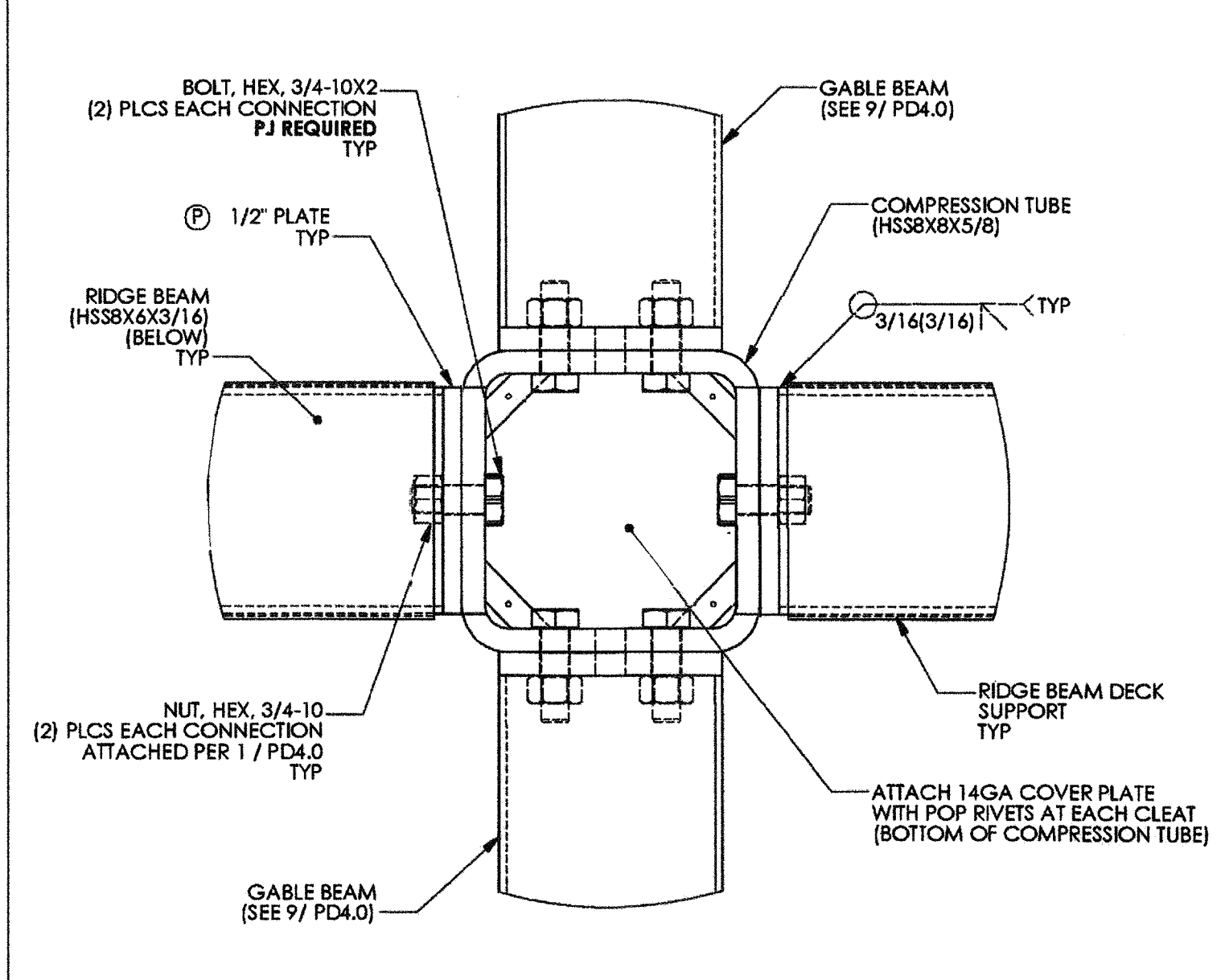
EAVE BEAM CONNECTION @ GABLE BEAM

8



GABLE BEAM CONNECTION @ COMPRESSION TUBE

9



RIDGE BEAM CONNECTION @ COMPRESSION TUBE

10

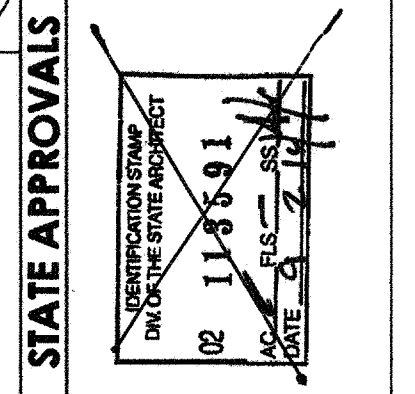
FRAME CONNECTION DETAIL NOTES:

- SEE SECTIONS ON SHEET PD5.0.
- SEE PLATE (C) DETAILS ON SHEET PD6.0 AND PD6.1
- COVER ACCESS HOLES WITH GRACE ICE AND WATER SHIELD BEFORE ATTACHING ROOF DECK.

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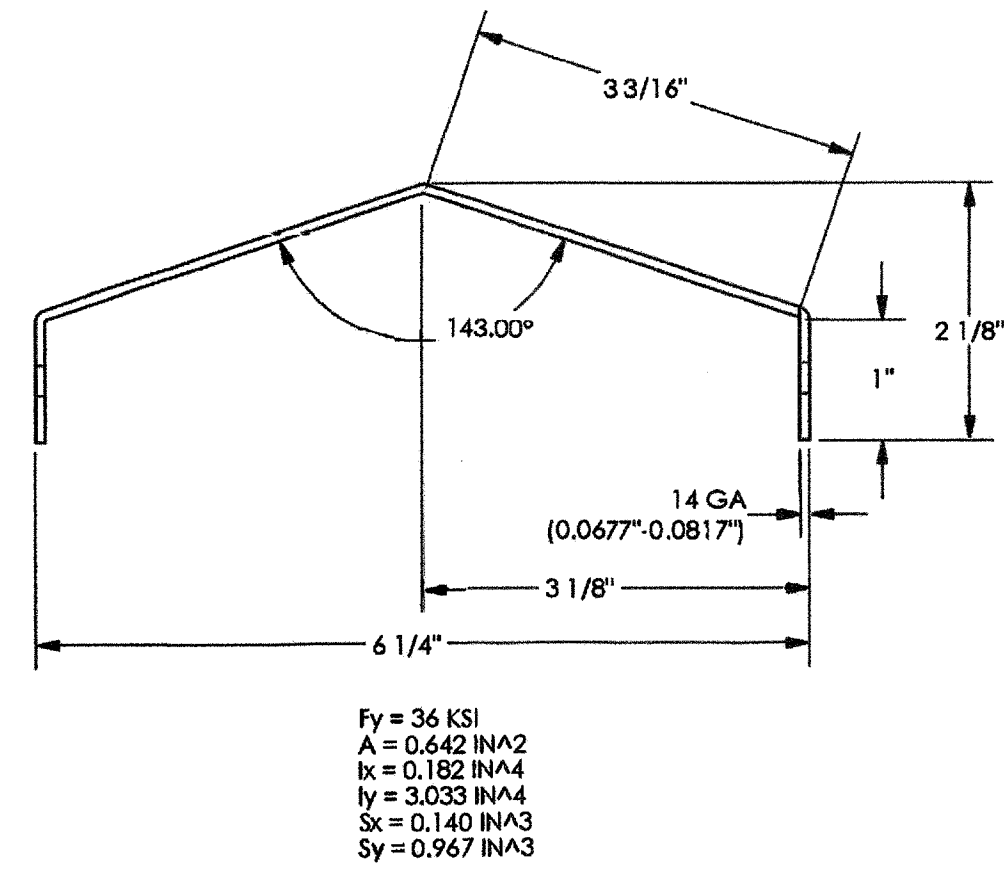
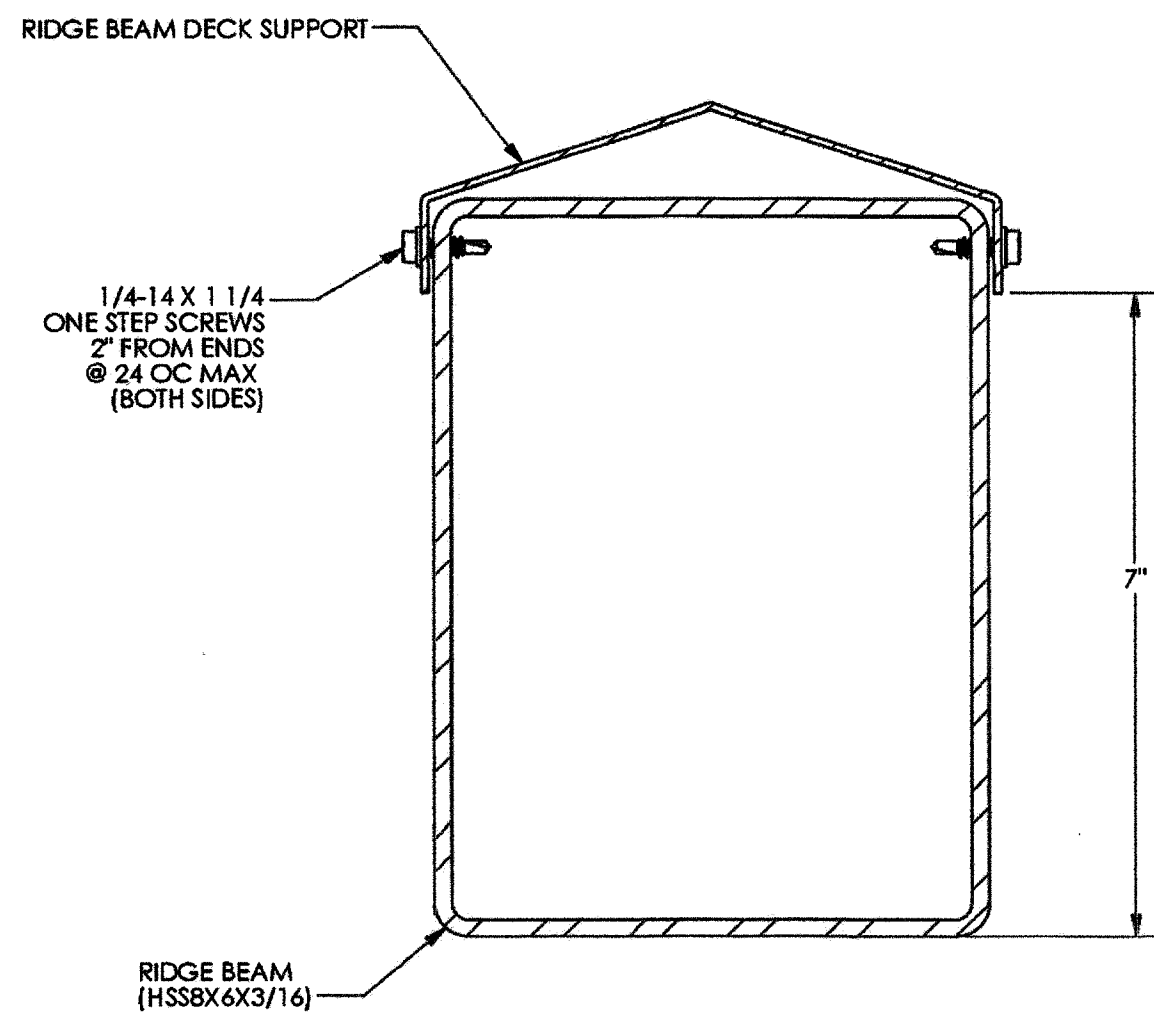
poligon
Engineering Inc.



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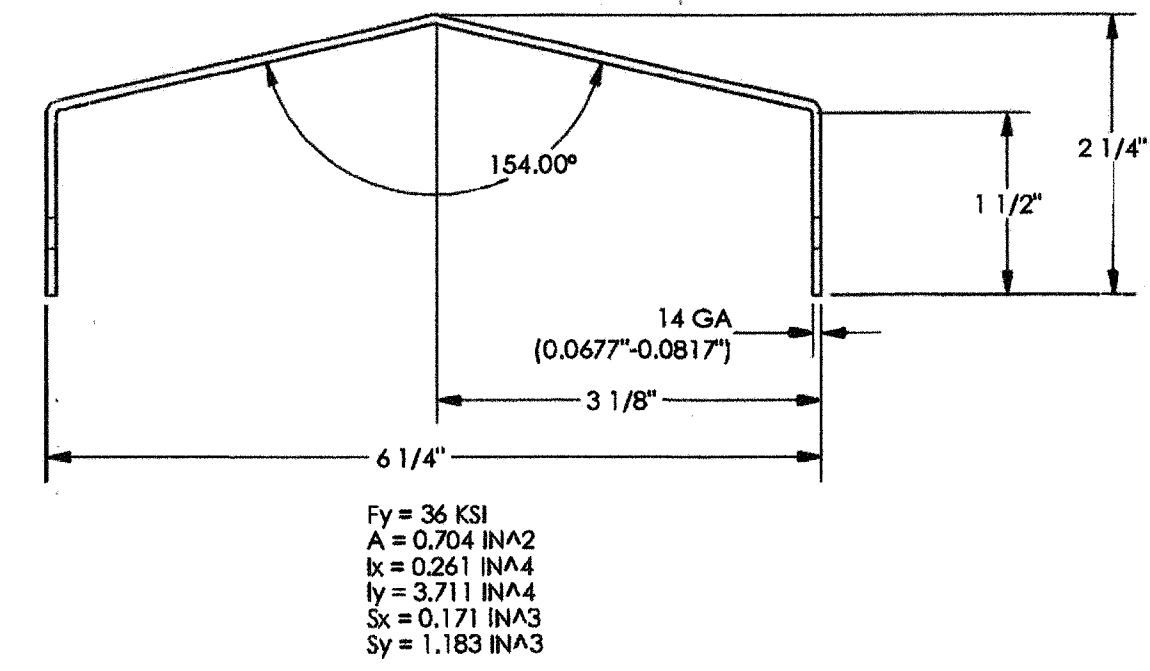
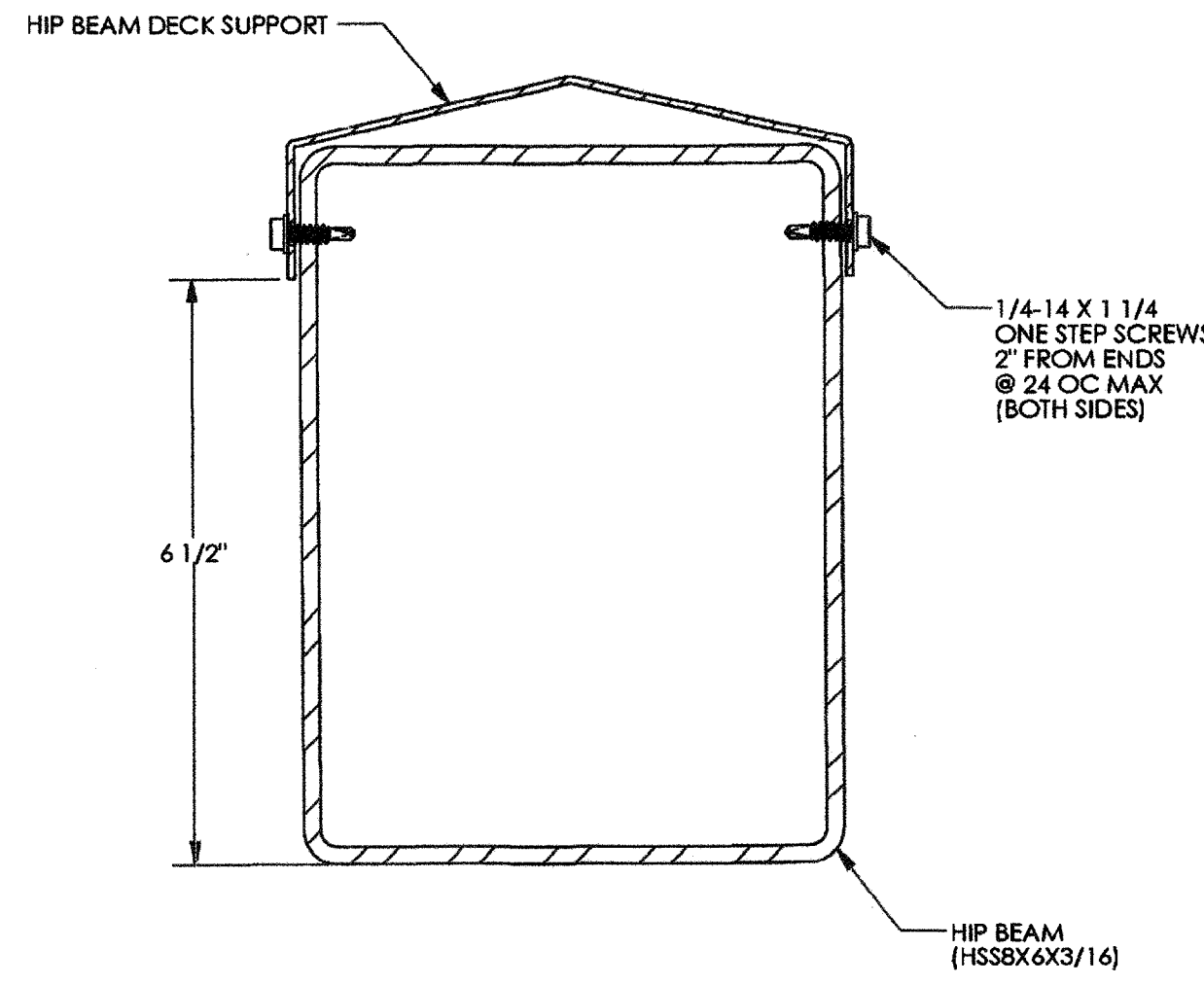
FRAME CONNECTION DETAILS
RAM 20
HIP ROOF (RAM)
PC DRAWINGS

PD4.0



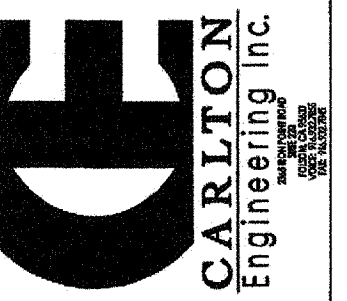
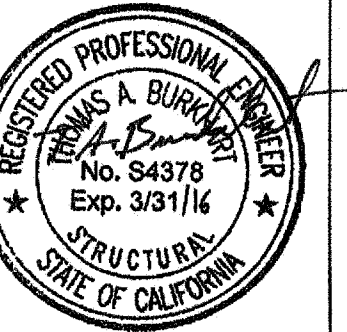
RIDGE BEAM DECK SUPPORT

A

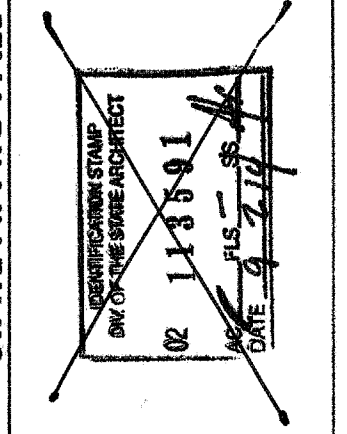


HIP BEAM DECK SUPPORT

B



poligon

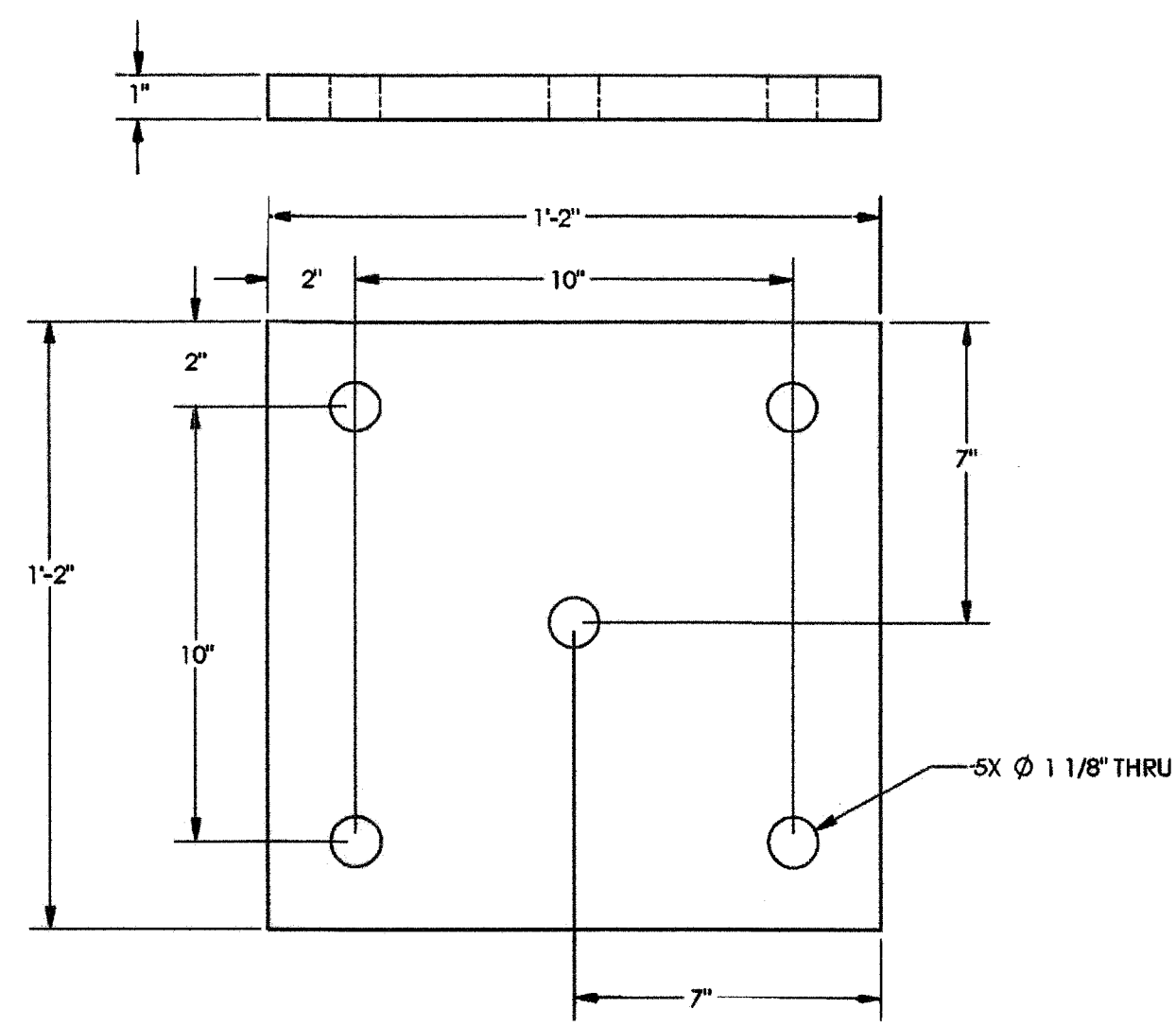


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 CODE: 2013 CBC
 A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

SECTION DETAILS
 RAM 20
HIP ROOF (RAM)
 PC DRAWINGS

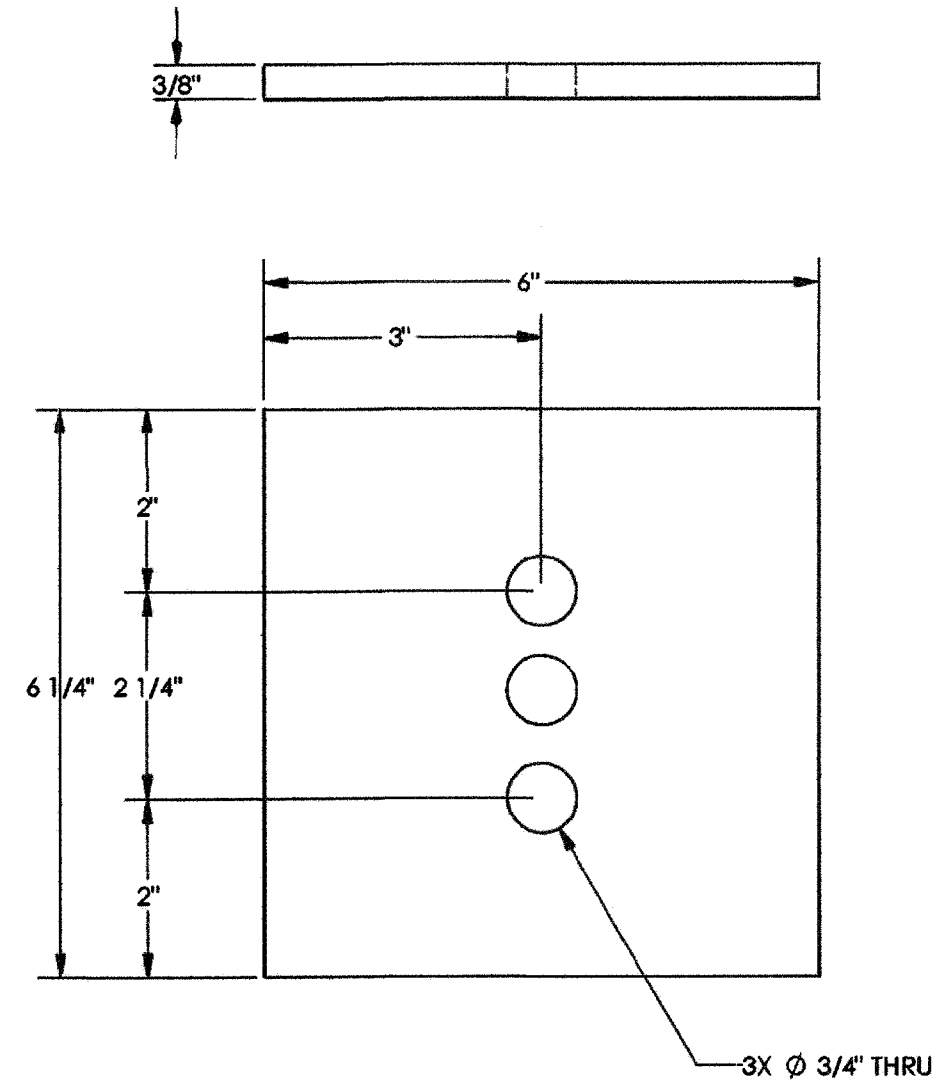
PD5.0

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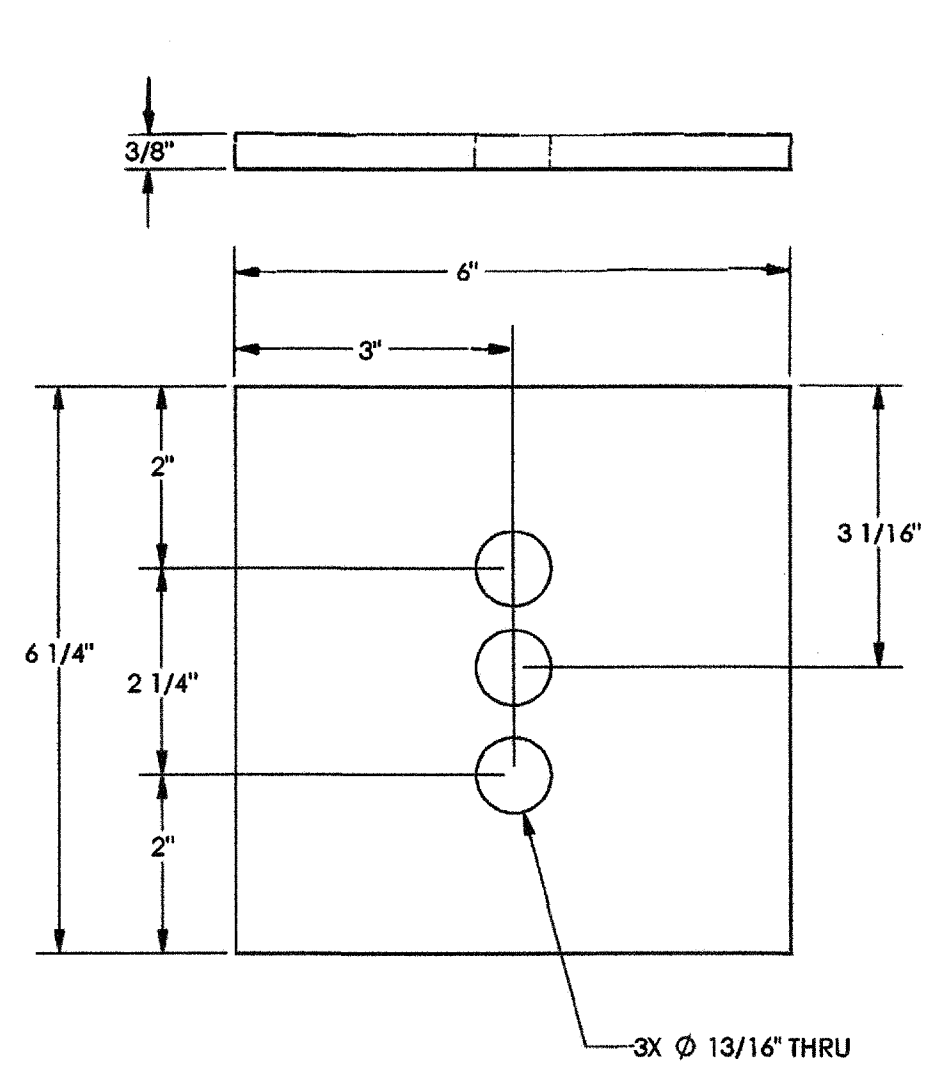
PLATE

A



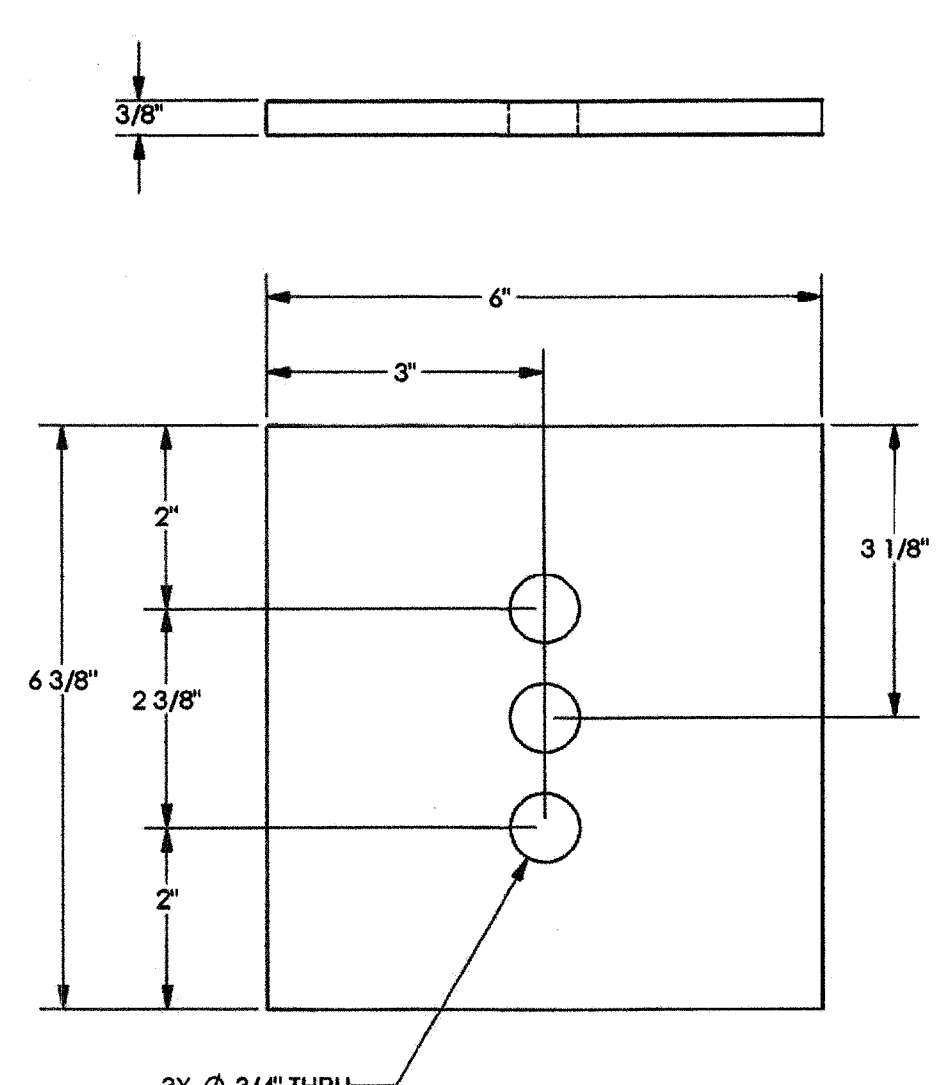
PLATE

B



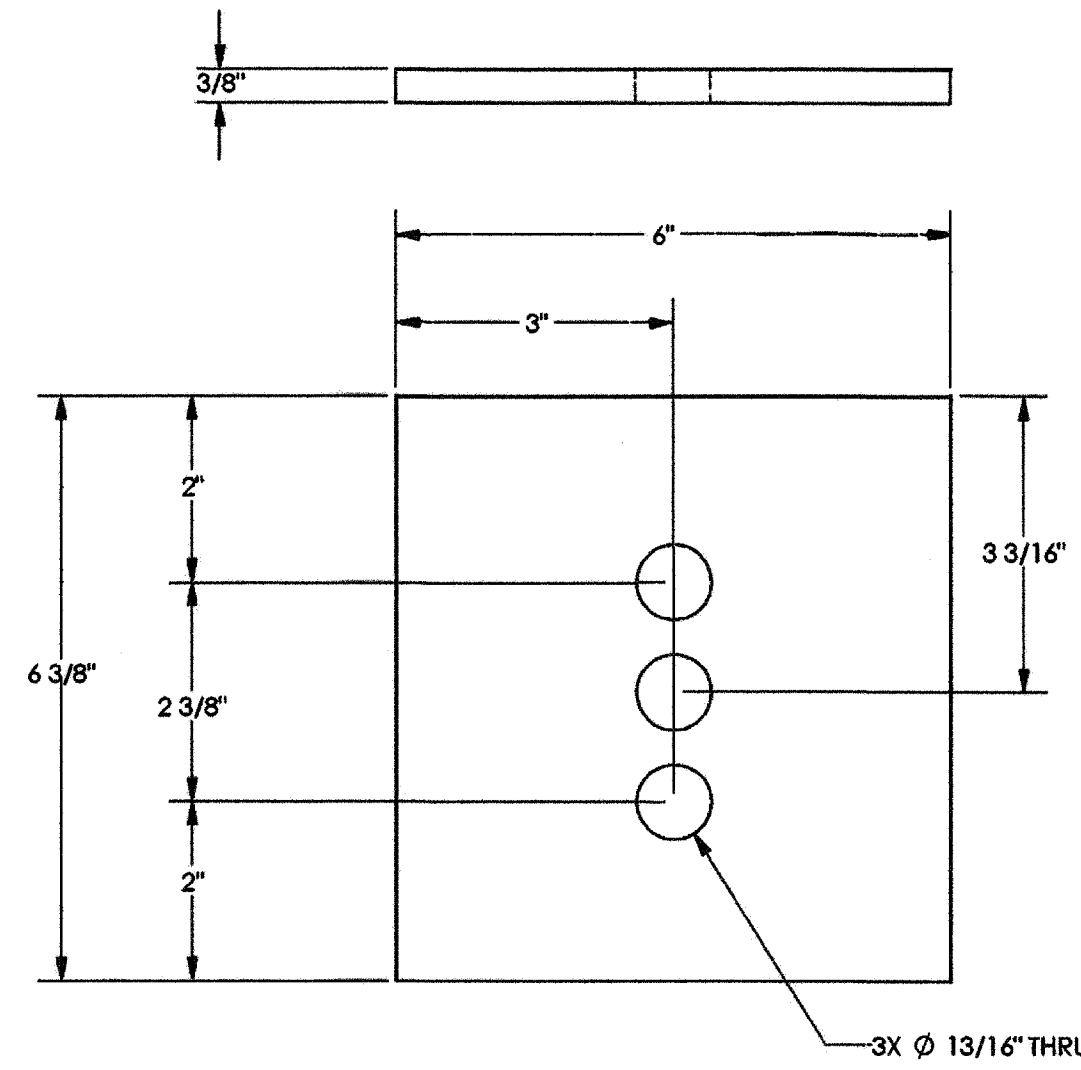
PLATE

C



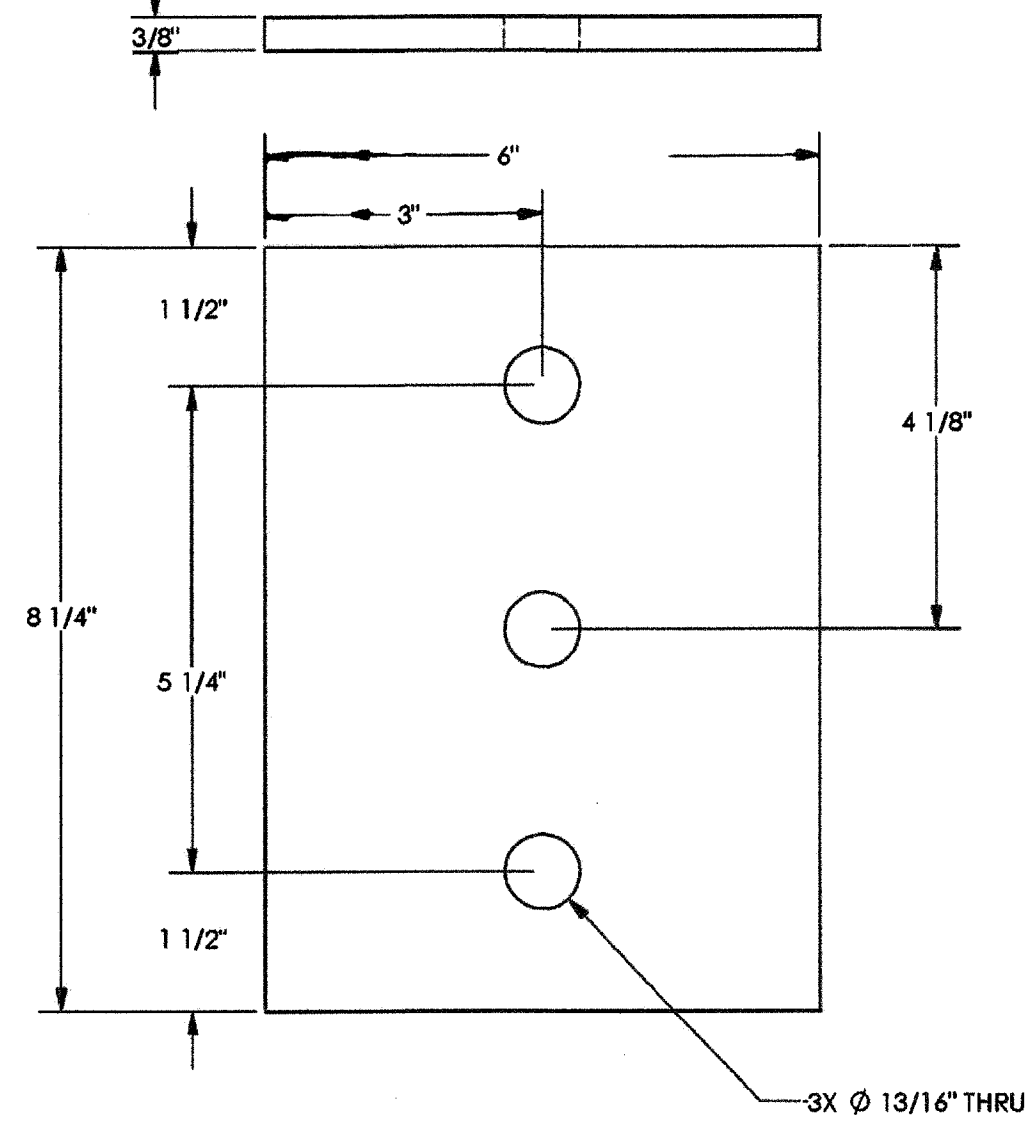
PLATE

D



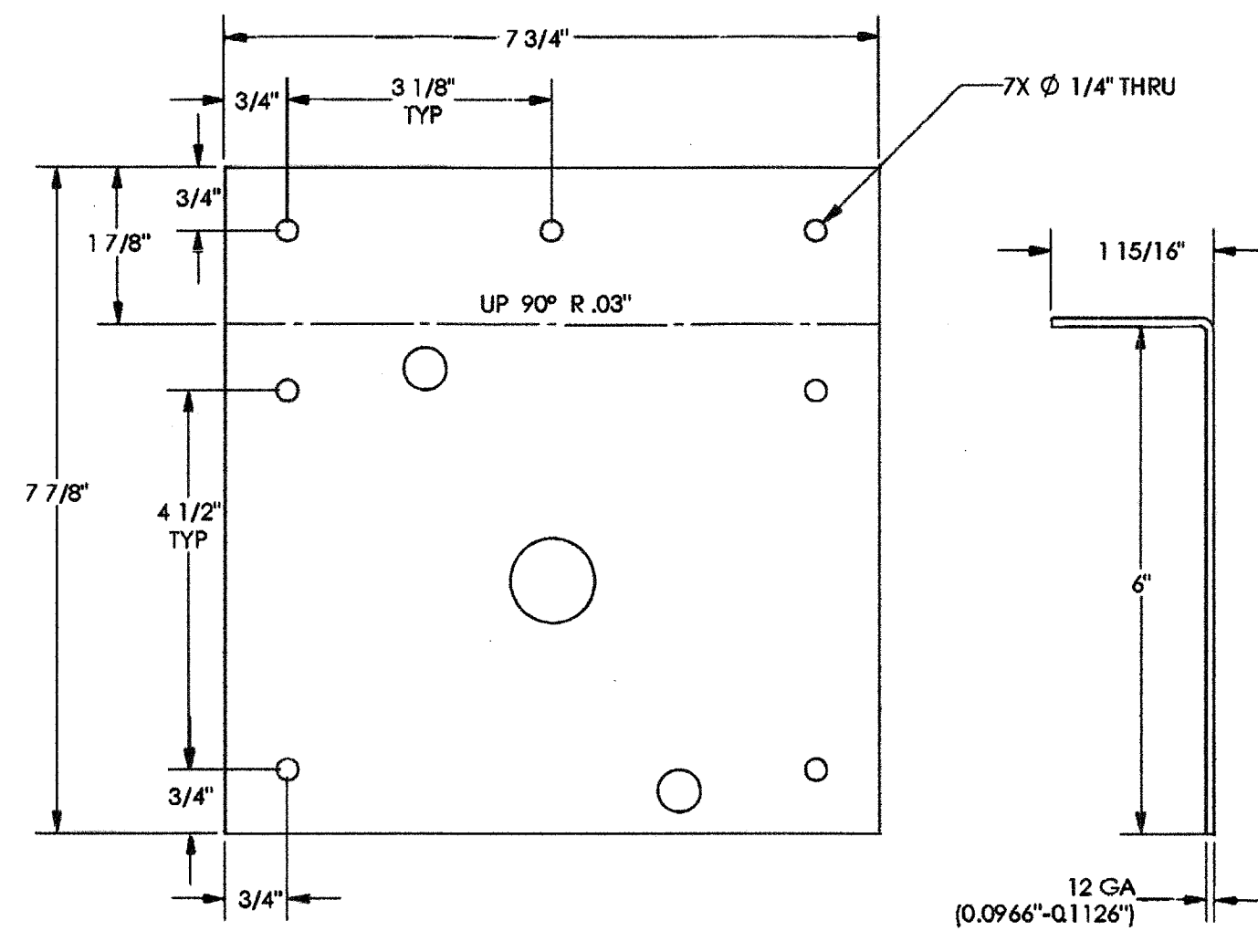
PLATE

E



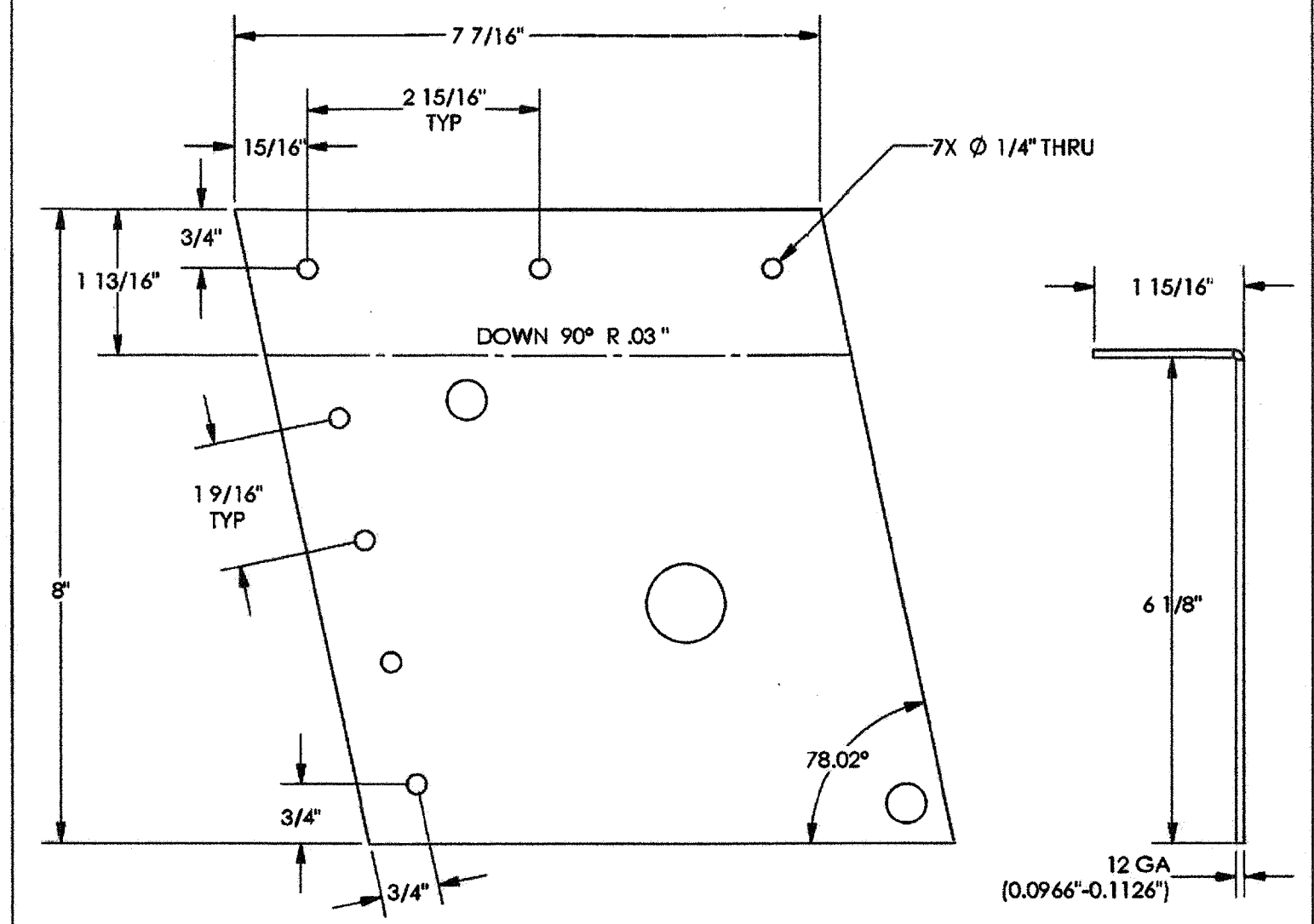
PLATE

F



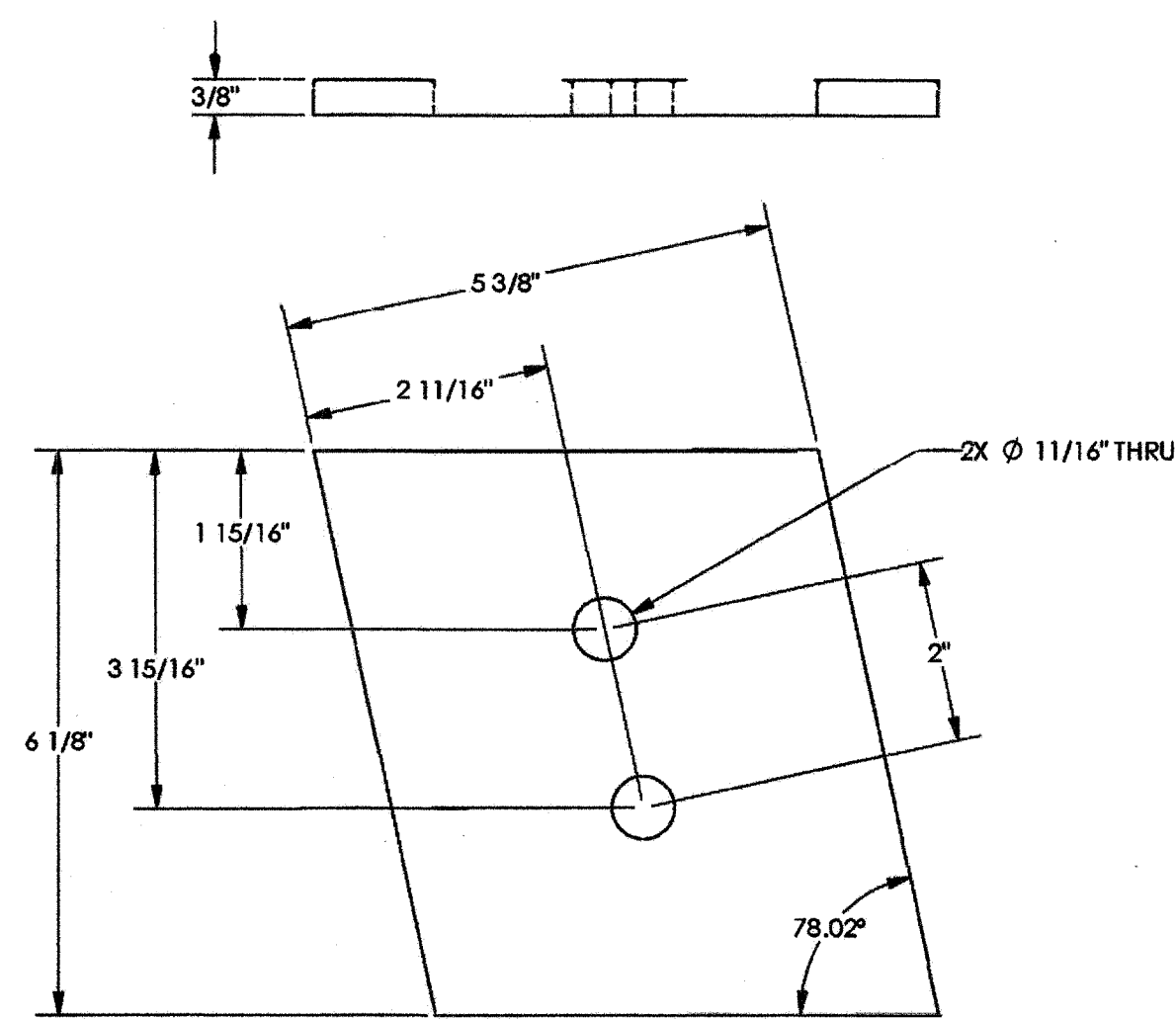
PLATE

G



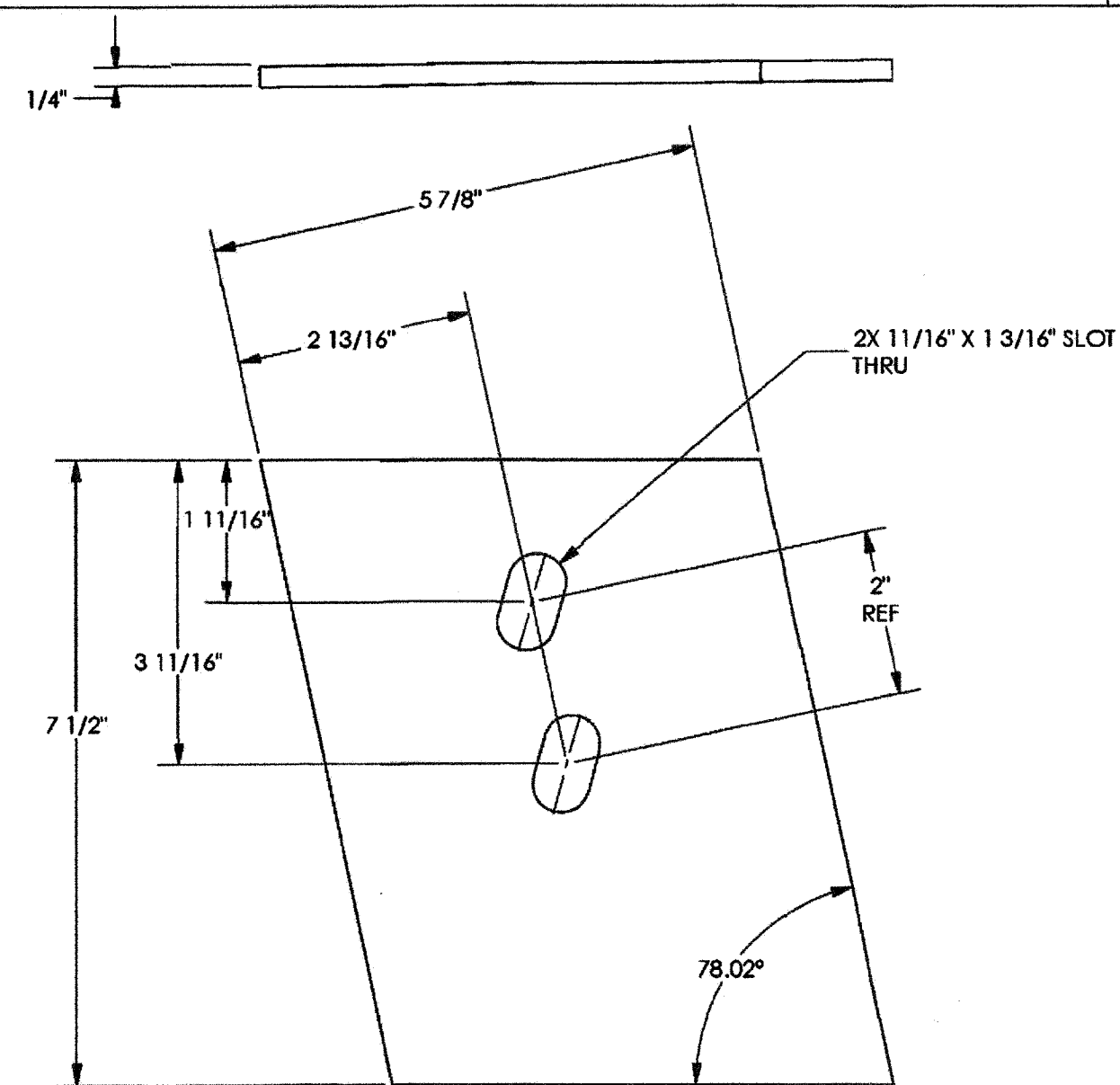
PLATE

H



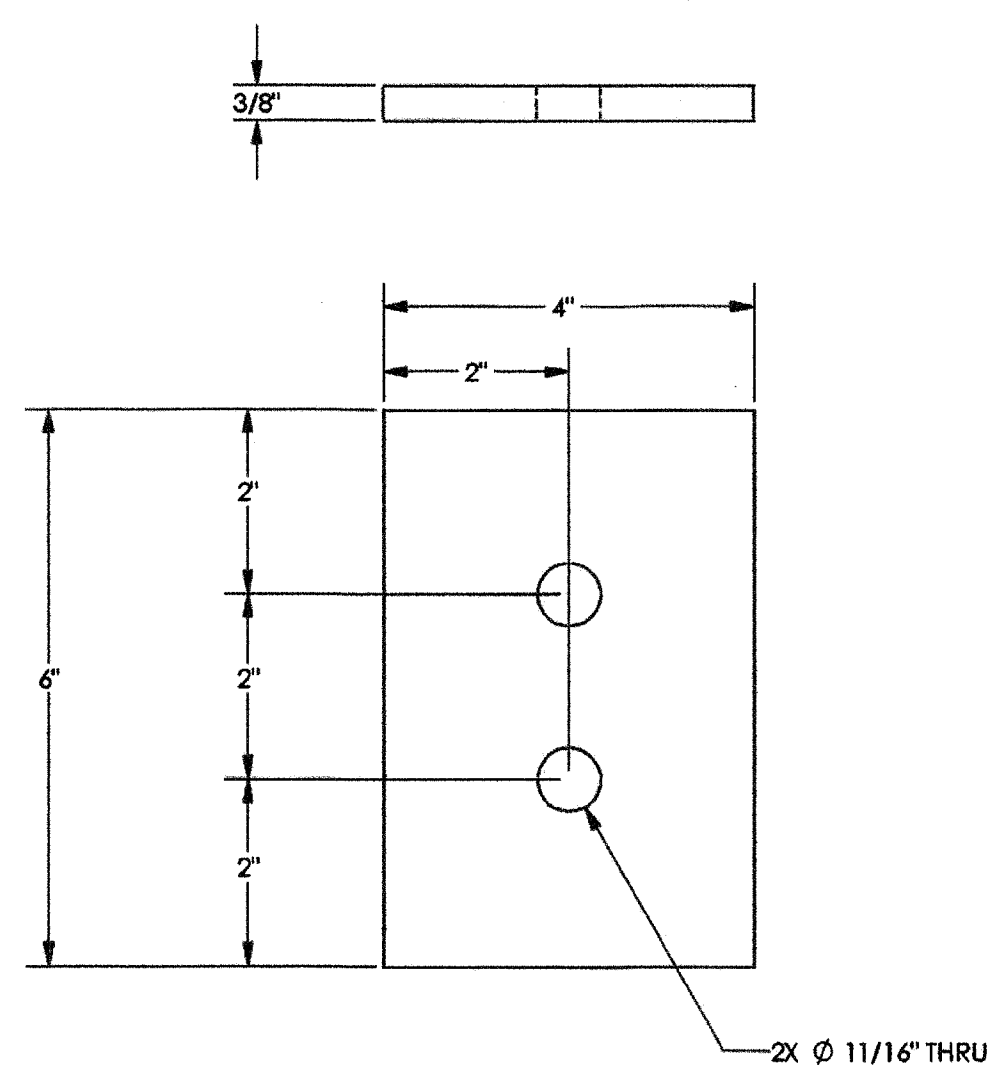
PLATE

J



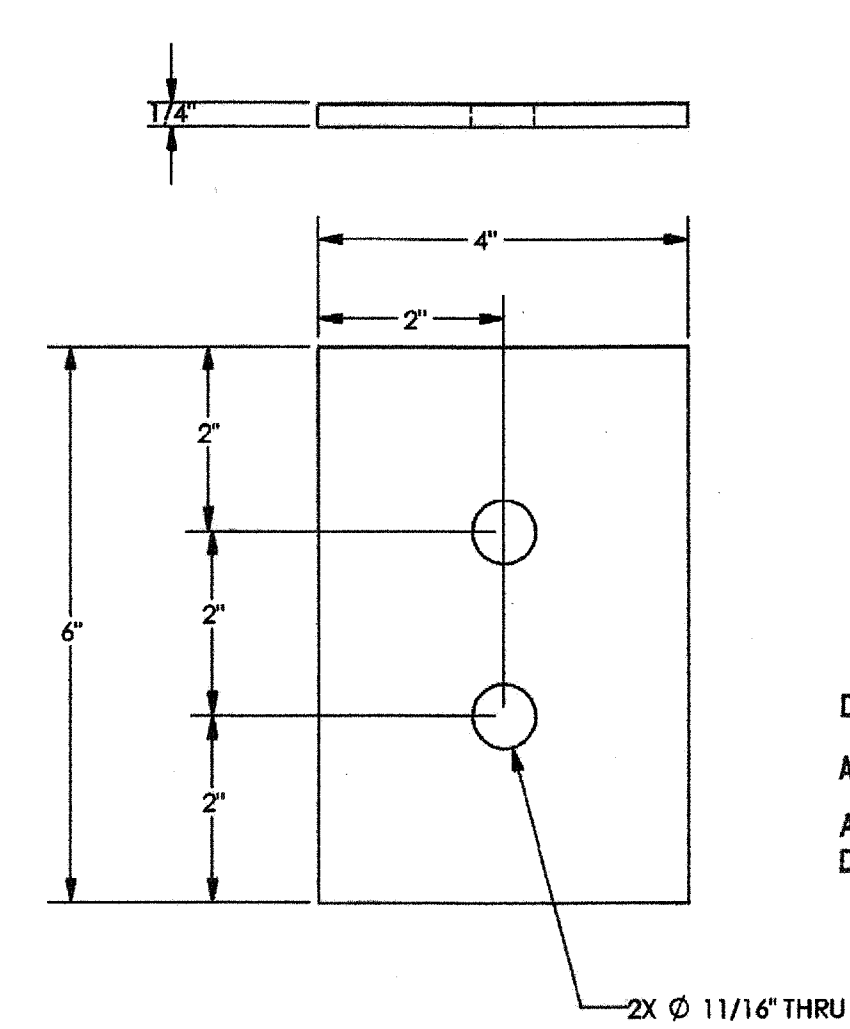
PLATE

K



PLATE

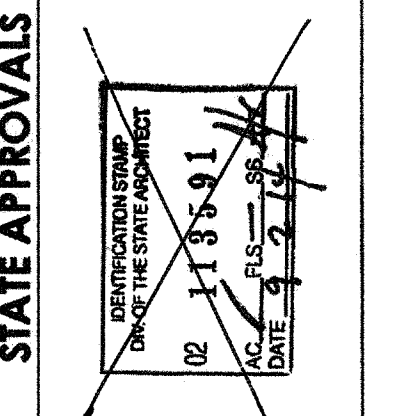
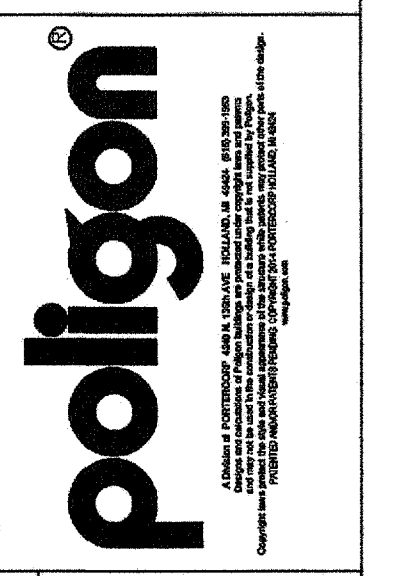
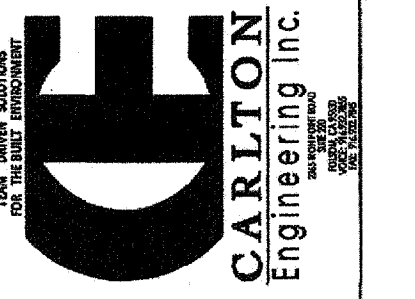
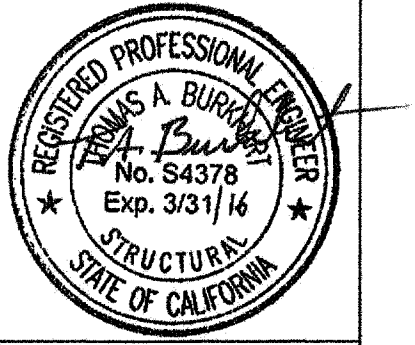
L



PLATE

M

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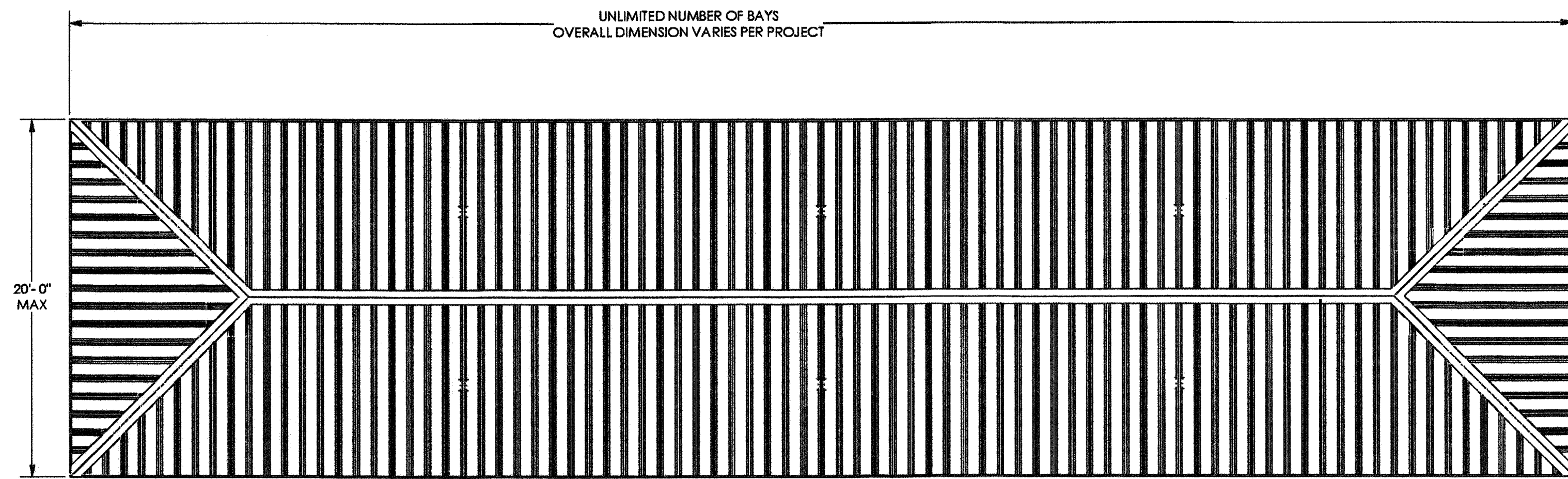


PRE-CHECK (PC) DOCUMENT
 CODE: 2013 CBC
 A SEPARATE PROJECT APPLICATION FOR
 CONSTRUCTION IS REQUIRED.

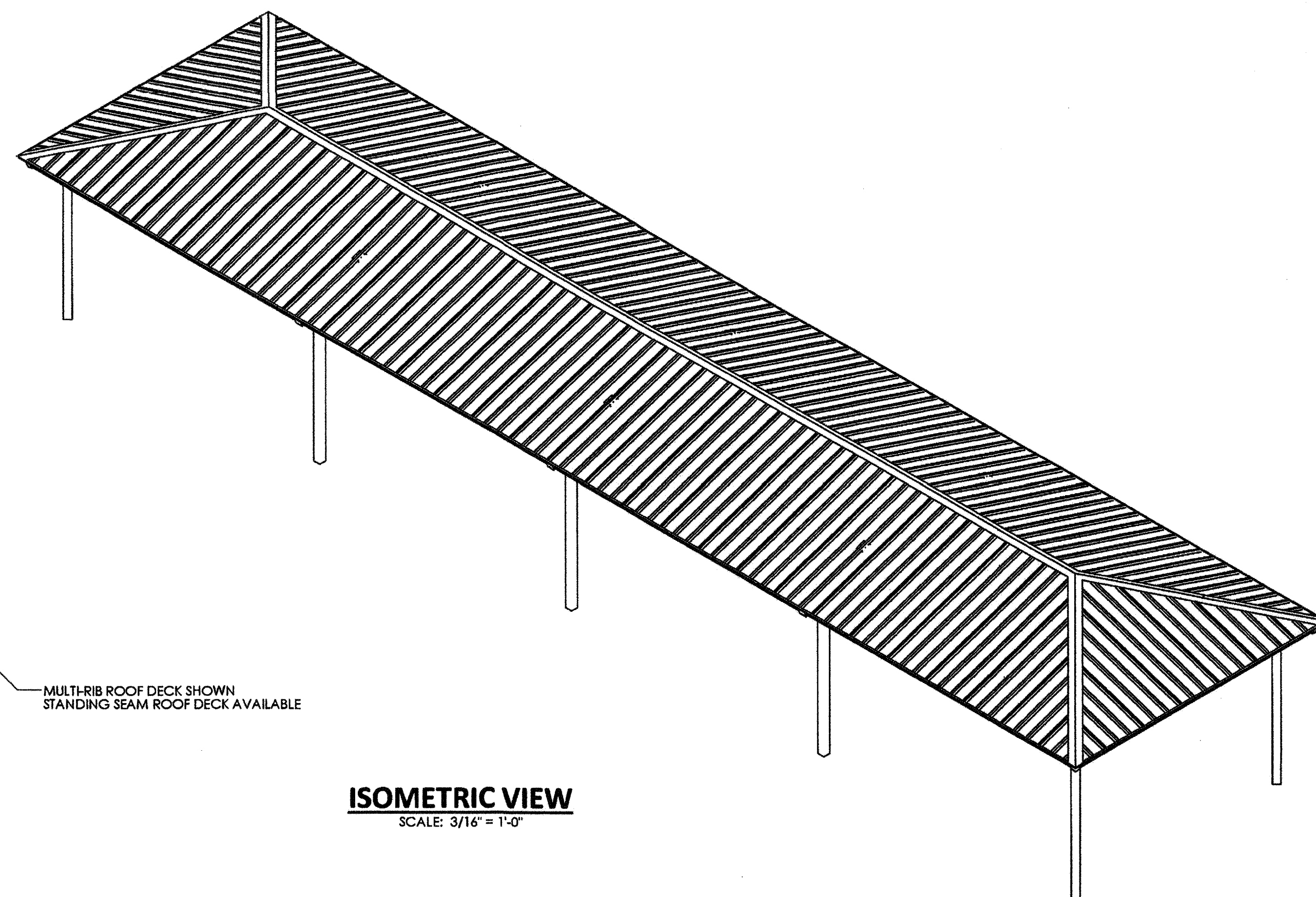
PLATE DETAILS
 RAM 20
 HIP ROOF (RAM)
 PC DRAWINGS

DRAWN BY: JMD
 CHECKED BY: CE
 POLYGON # 51458

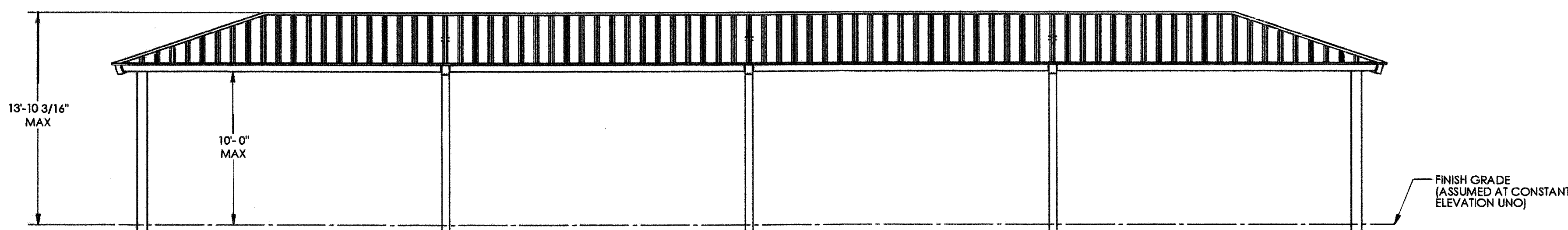
PD6.0



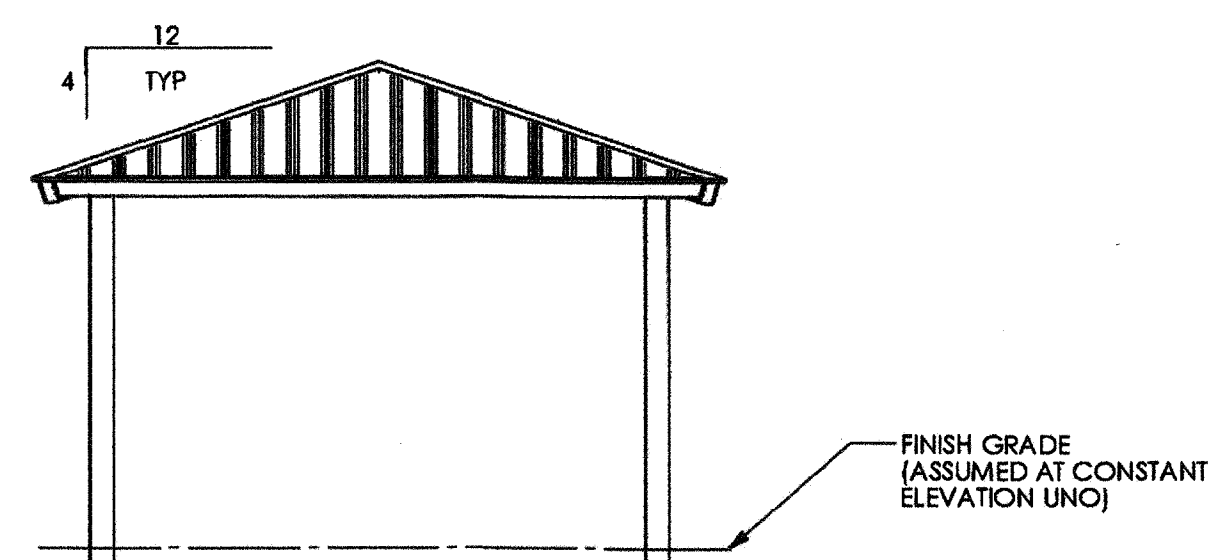
PLAN VIEW
SCALE: 3/16" = 1'-0"



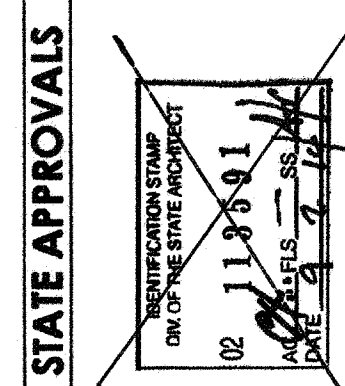
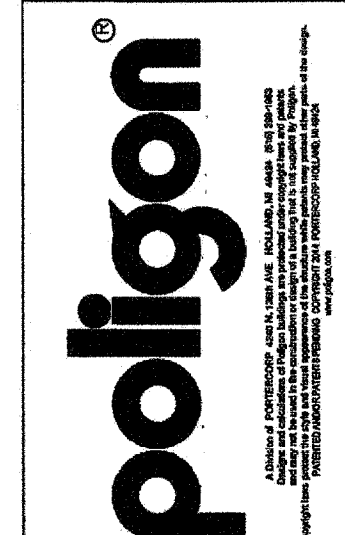
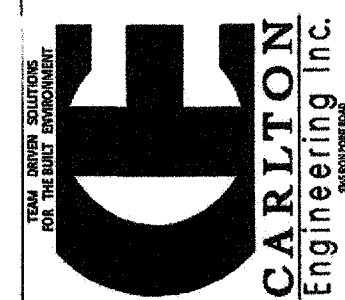
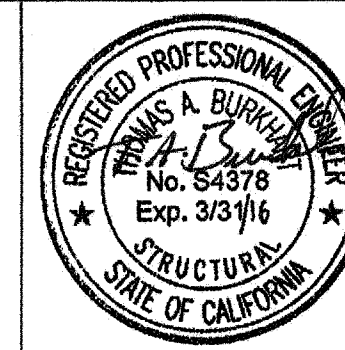
ISOMETRIC VIEW
SCALE: 3/16" = 1'-0"



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



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



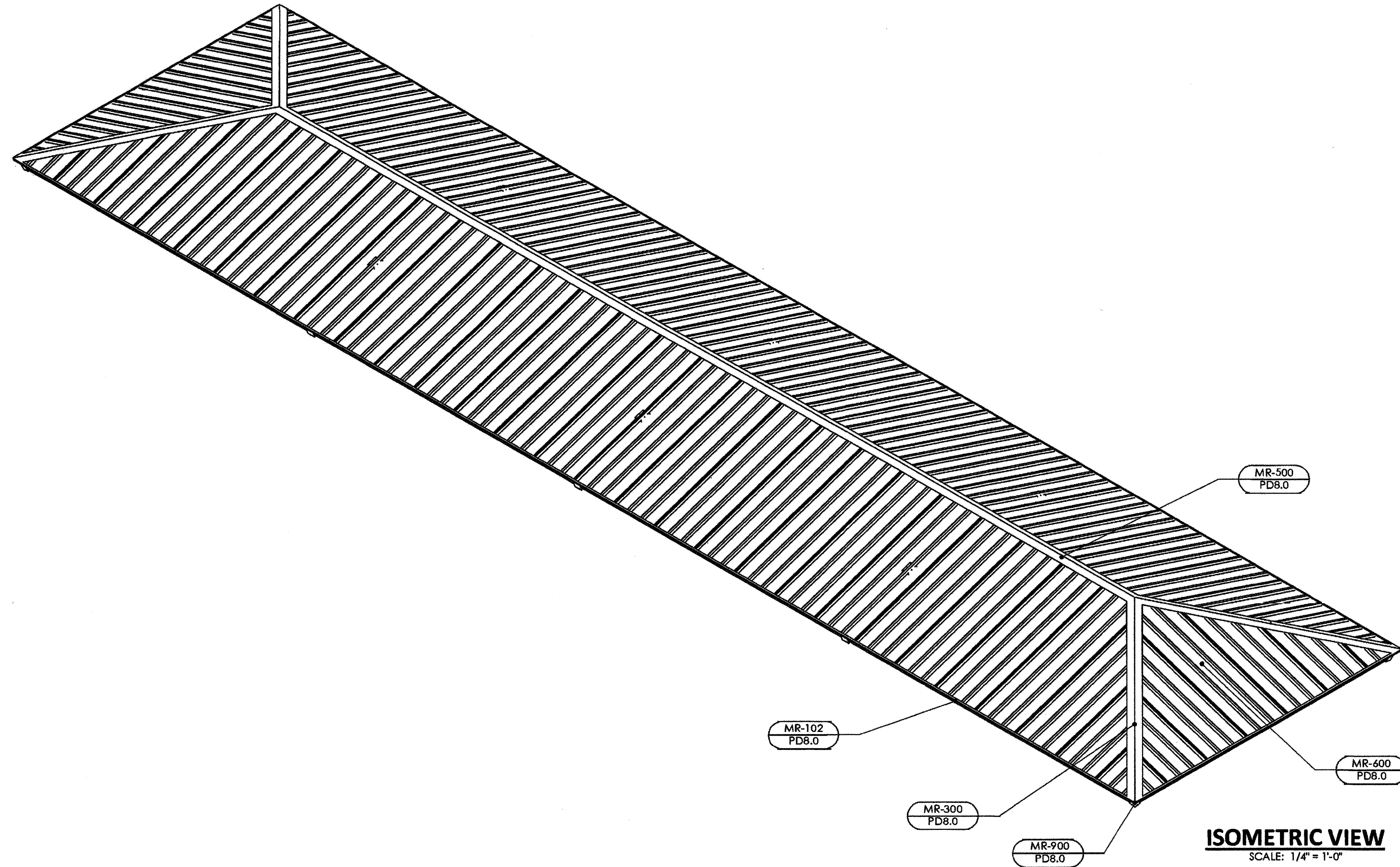
PRE-CHECK (PC) DOCUMENT
CODE: 2013 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

ARCHITECTURAL VIEWS
RAM 20
HIP ROOF (RAM)
PC DRAWINGS

DRAWN BY: JMD
CHECKED BY: CE
POLYGON #.: 51488

PD7.0

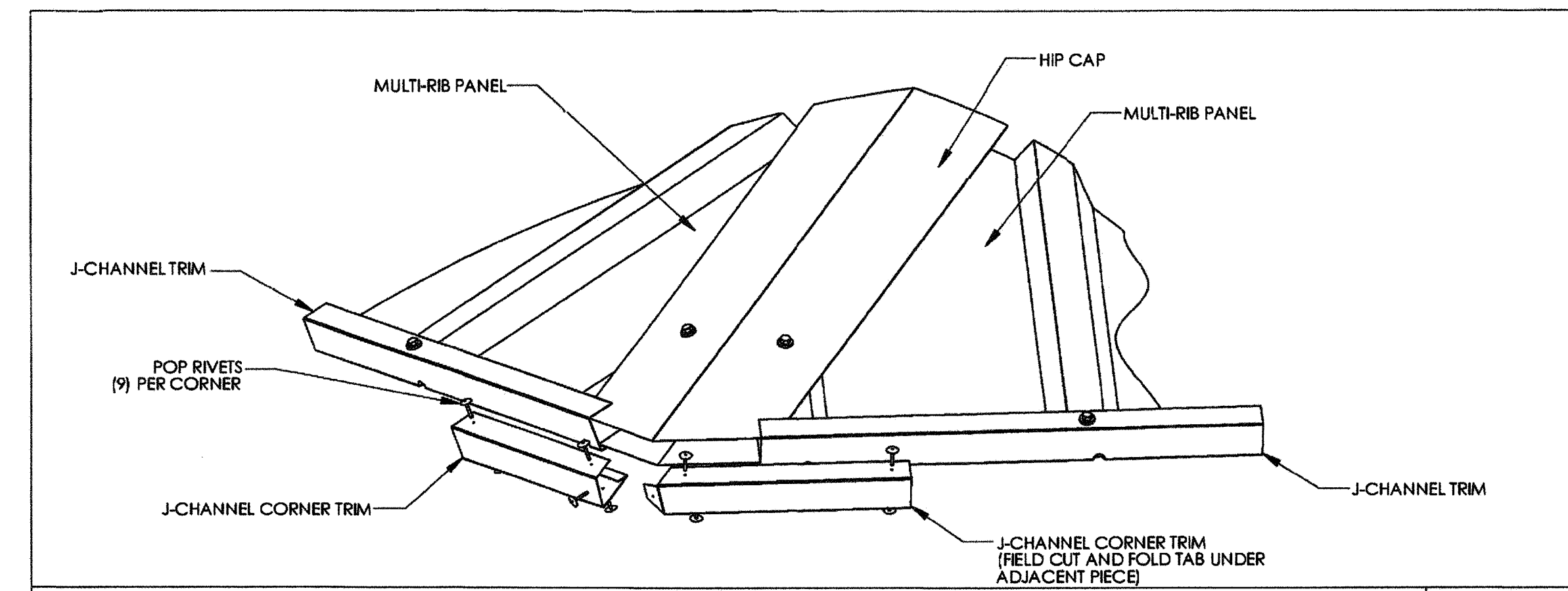
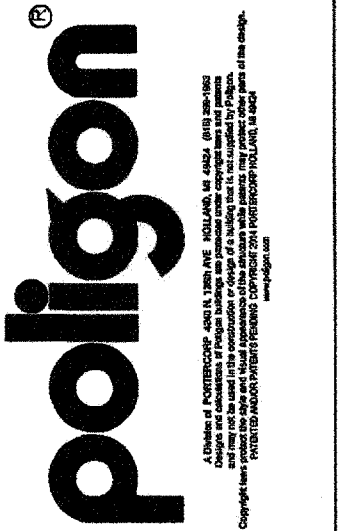
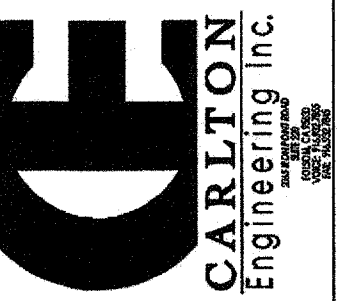
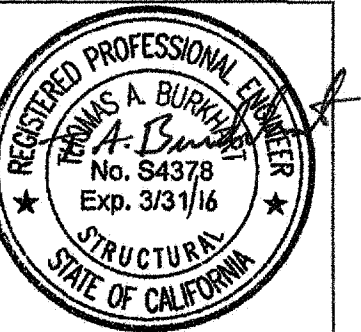
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ISOMETRIC VIEW
SCALE: 1/4" = 1'-0"

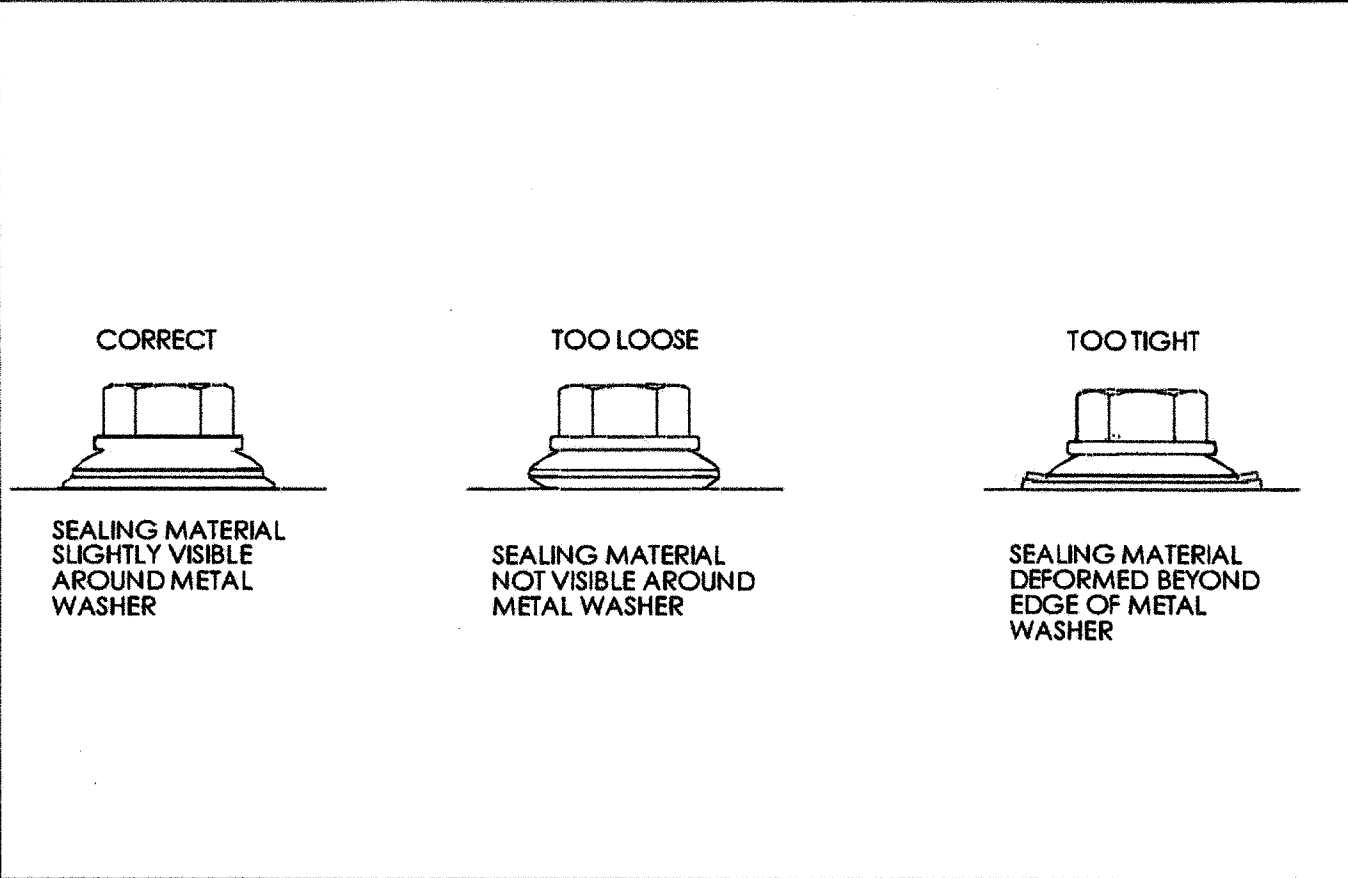
ROOF LAYOUT NOTES (MR):

- IT SHALL BE THE RESPONSIBILITY OF THE ERECTOR TO ENSURE THAT THE DETAILS MEET THE BUILDING REQUIREMENTS AND TO ASSURE ADEQUATE WATER TIGHTNESS.
- THE PANELS SHOULD BE INSTALLED PLUMB, STRAIGHT, AND ACCURATELY TO THE ADJACENT WORK.
- FLASHING AND TRIM SHALL BE INSTALLED TRUE, AND IN PROPER ALIGNMENT, WITH ANY EXPOSED FASTENERS EQUALLY SPACED FOR THE BEST APPEARANCE.
- SEALANT SHALL BE FIELD APPLIED ON DRY, CLEAN SURFACES. SOME FIELD CUTTING AND FITTING OF PANELS AND FLASHING IS TO BE EXPECTED BY THE ERECTOR AND MINOR FIELD CORRECTIONS ARE A PART OF NORMAL ERECTION WORK.
- WORKMANSHIP SHALL BE OF THE BEST INDUSTRY STANDARDS AND INSTALLATION SHALL BE PERFORMED BY EXPERIENCED METAL CRAFTSMEN.
- METAL SHAVINGS FROM DRILLING OR INSTALLATION OF ROOF FASTENERS MUST BE CAREFULLY REMOVED FROM THE ROOF BY BRUSHING OR SWEEPING AT THE END OF EACH DAY DURING INSTALLATION. SHAVINGS LEFT ON THE ROOF WILL QUICKLY RUST AND STAIN THE ROOF FINISH.



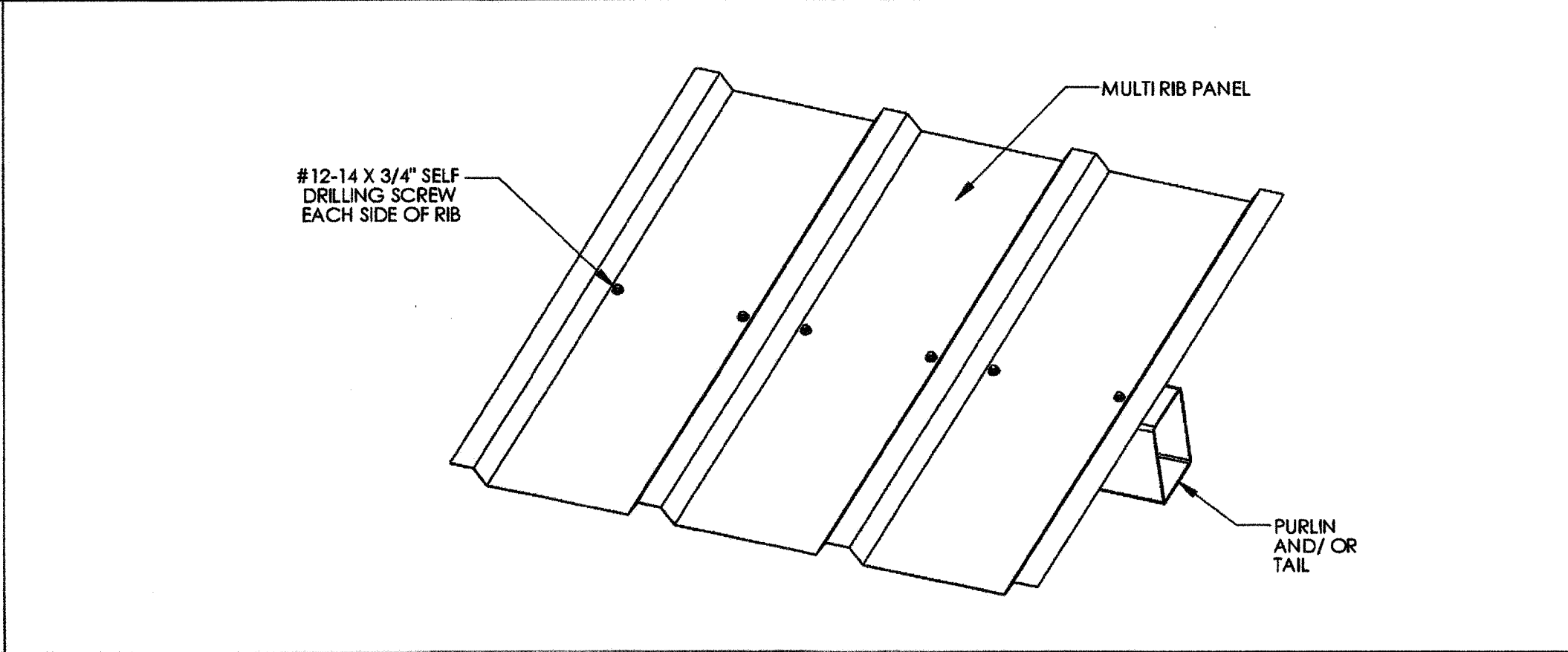
CORNER DETAIL

MR-900



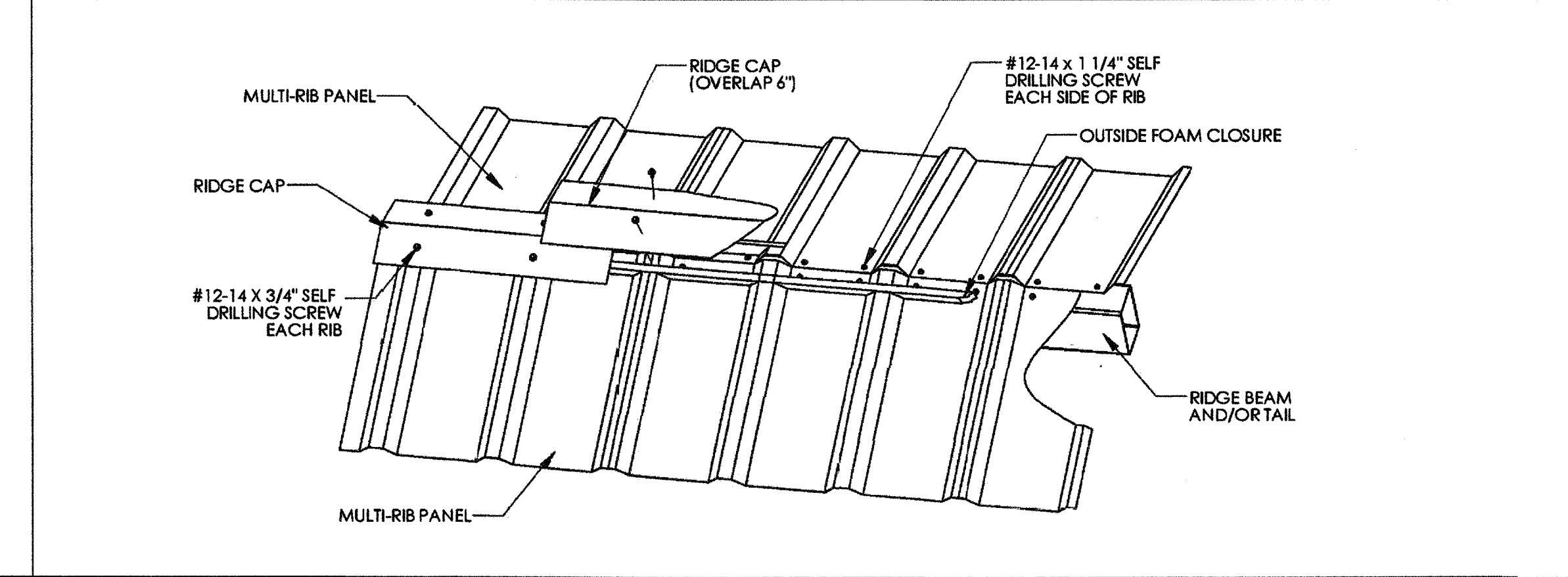
ROOF FASTENER TIGHTENING

MR-950



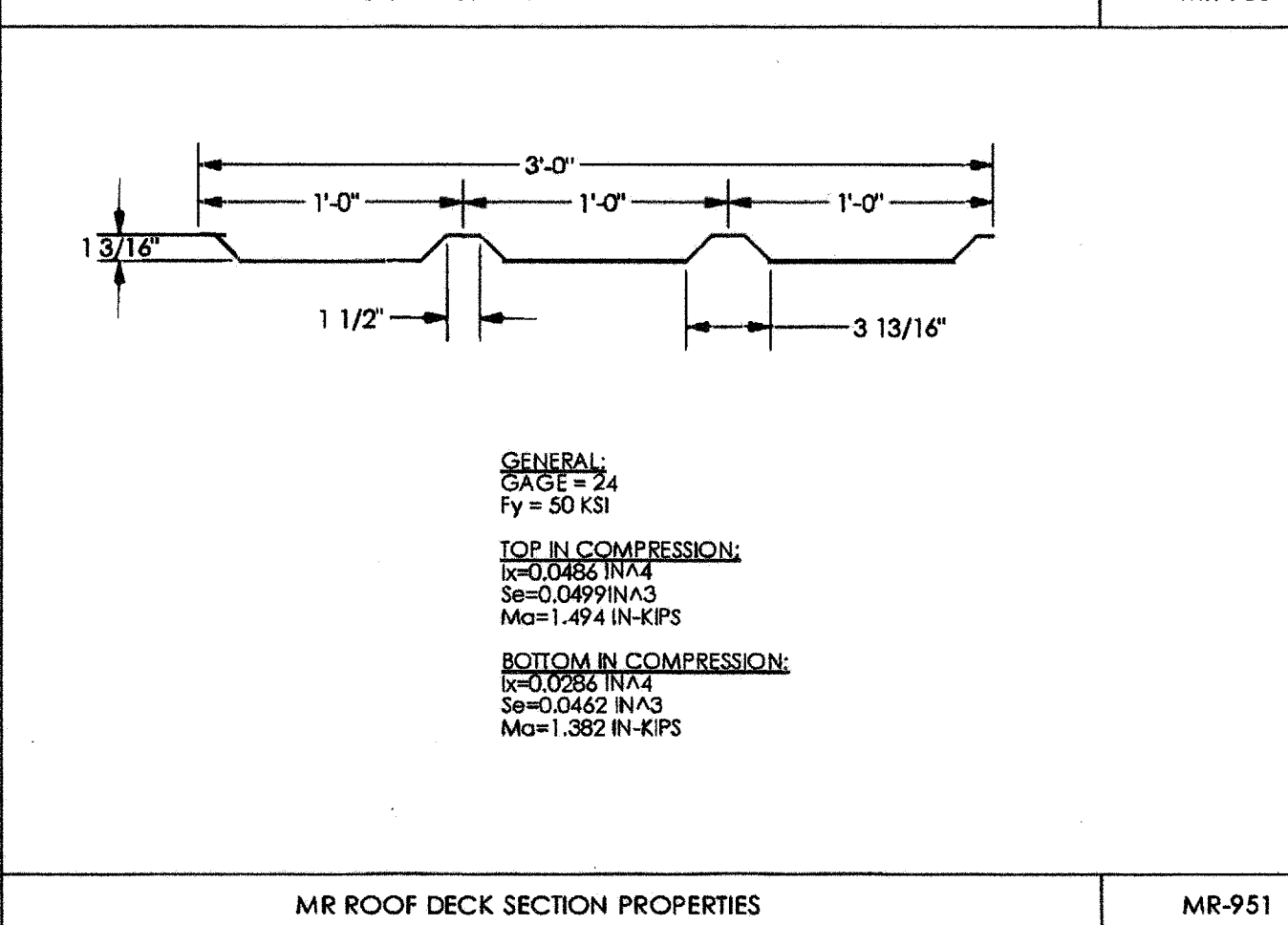
PURLIN DETAIL

MR-600



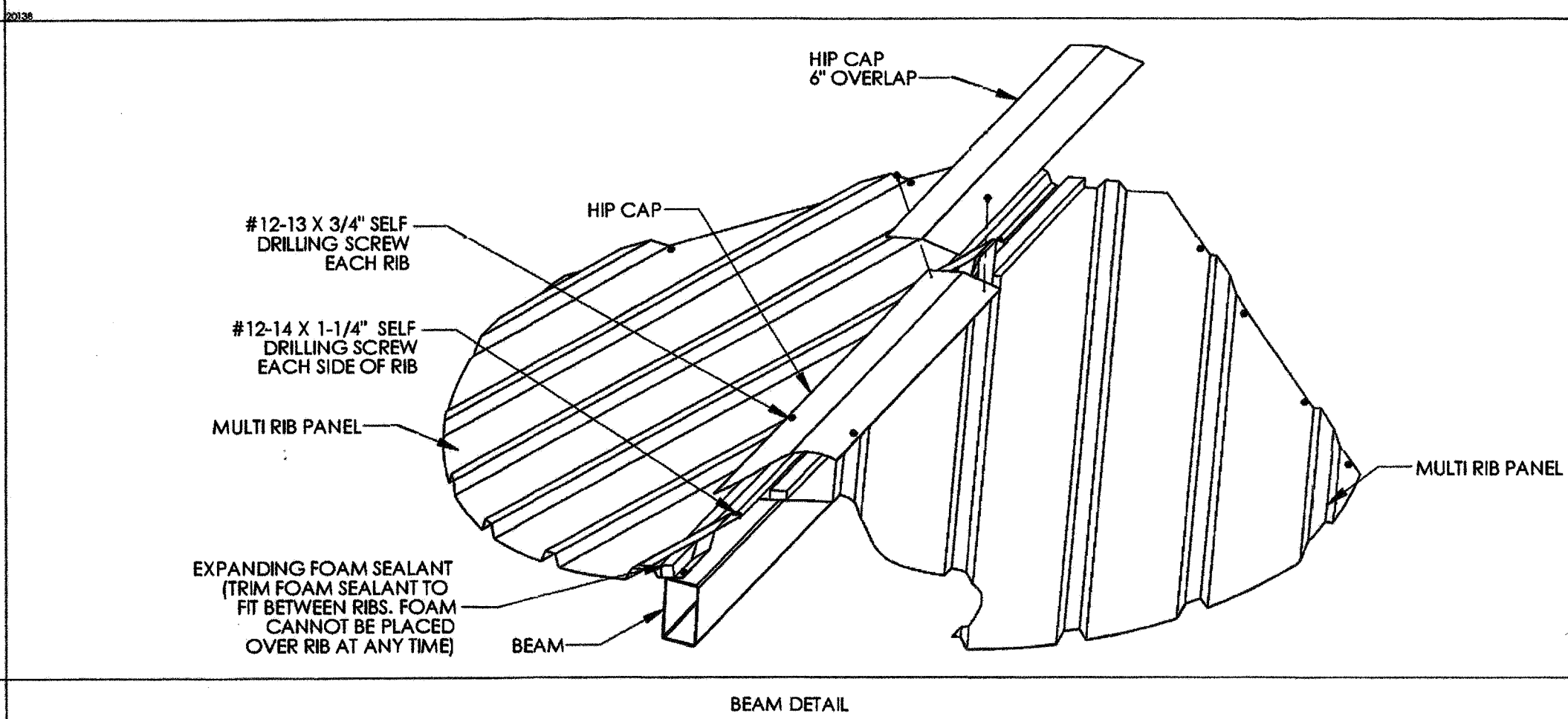
RIDGE DETAIL

MR-500



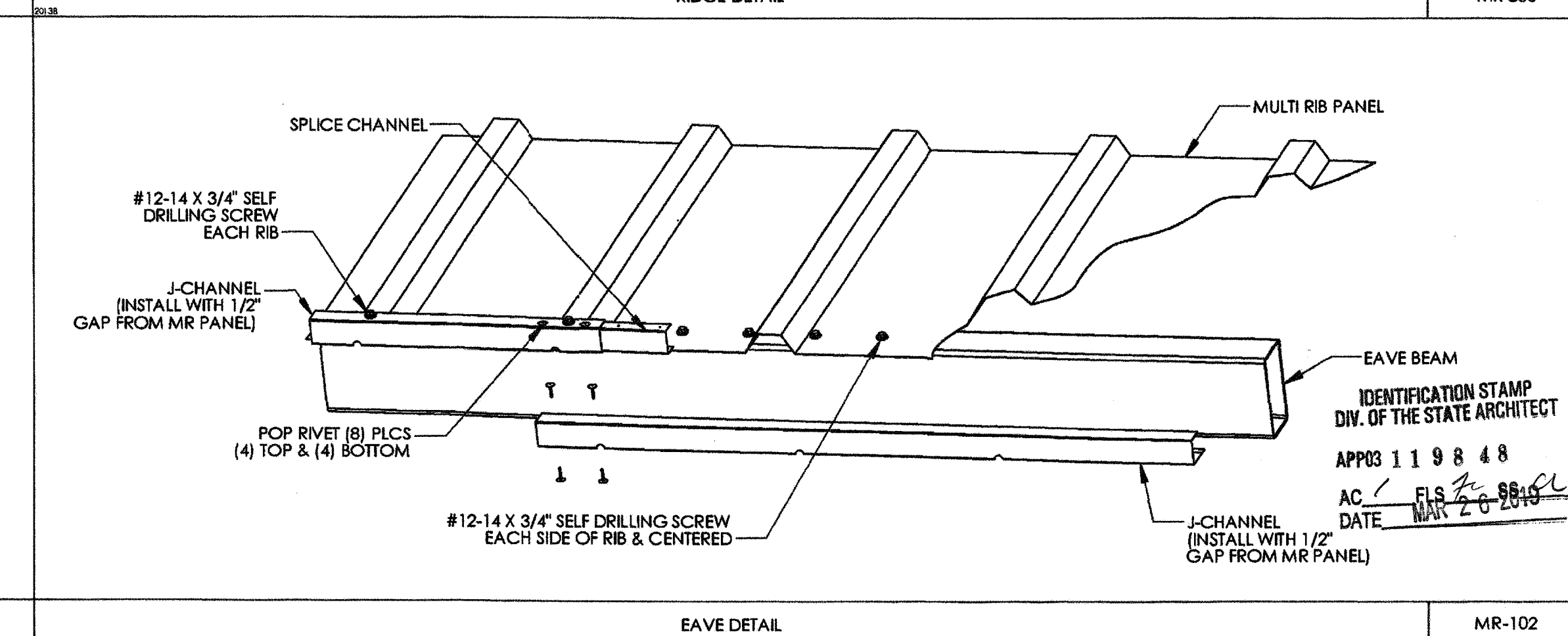
MR ROOF DECK SECTION PROPERTIES

MR-951



BEAM DETAIL

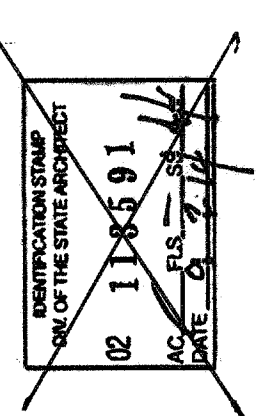
MR-300



EAVE DETAIL

MR-102

STATE APPROVALS



PRE-CHECK (PC) DOCUMENT

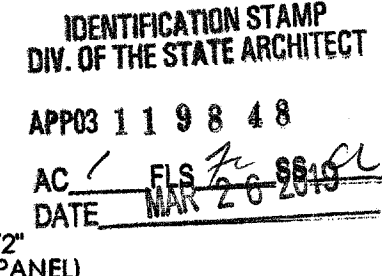
CODE: 2013 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

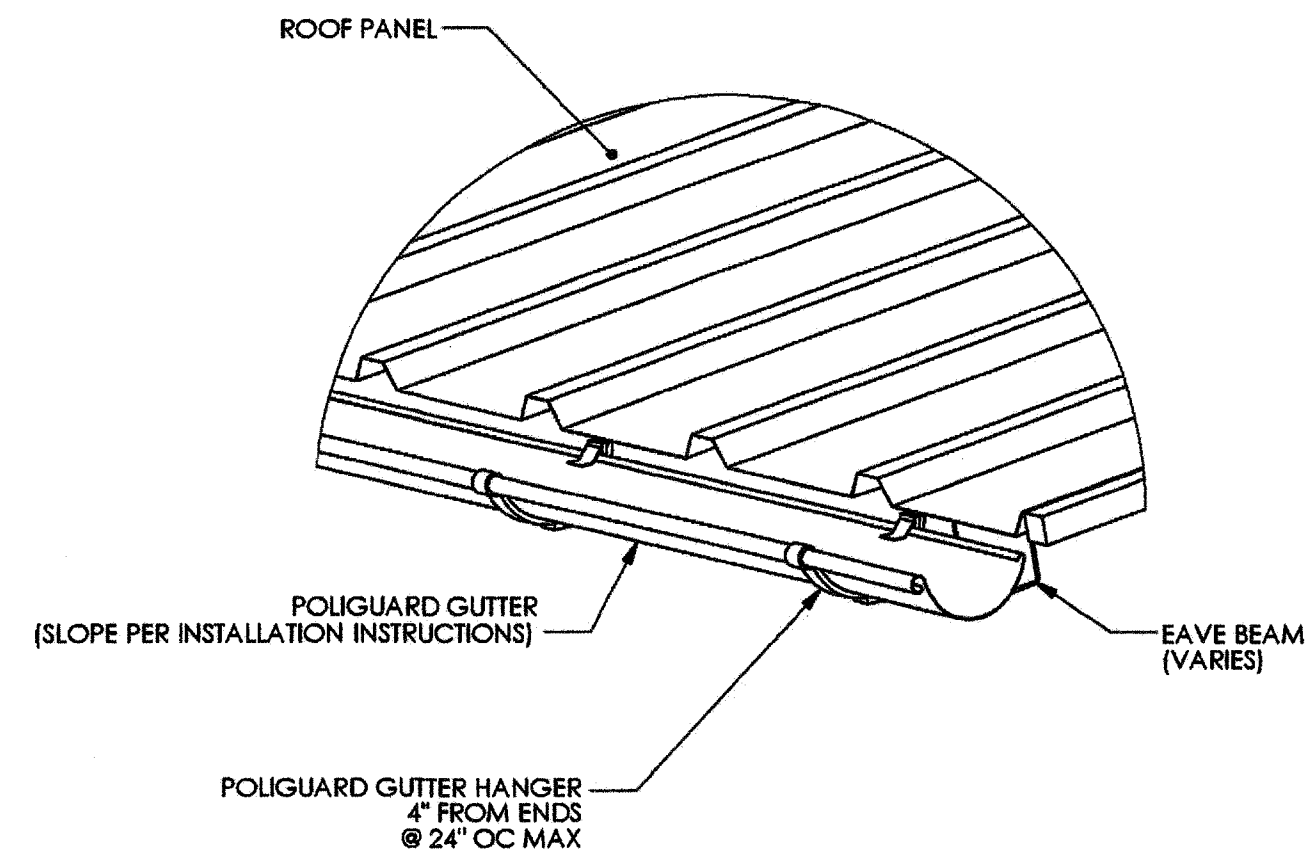
ROOF CONNECTION DETAILS
MR ROOF DECK

HIP ROOF (RAM)
PC DRAWINGS

DRAWN BY: JMD
CHECKED BY: CE
POLYGON # 51458

PD8.0



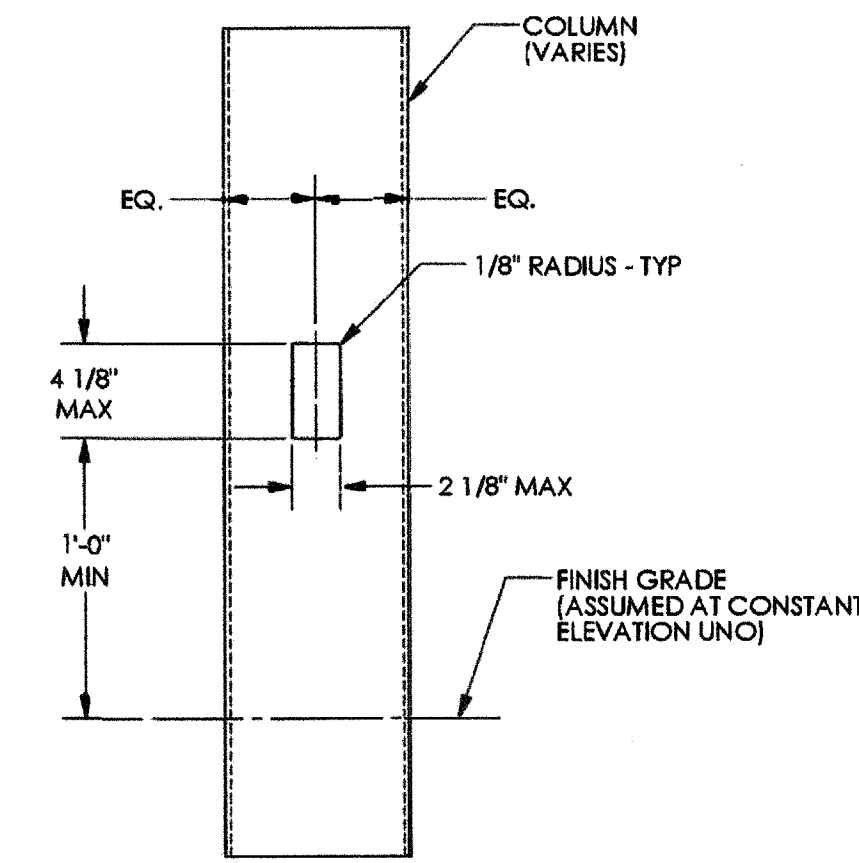


GUTTER DETAIL

GS-100

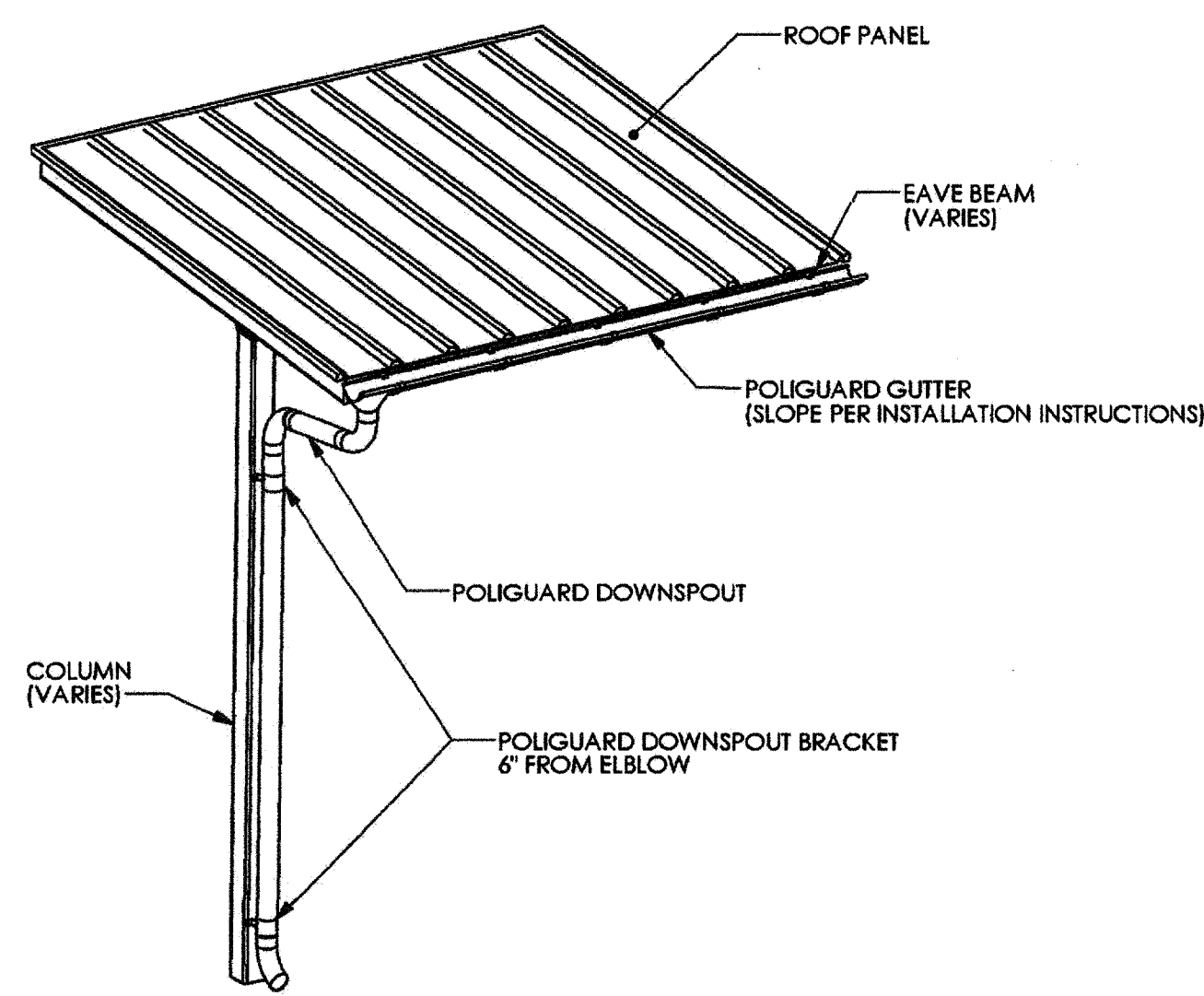
POLIGUARD GUTTER SYSTEM NOTES:

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.



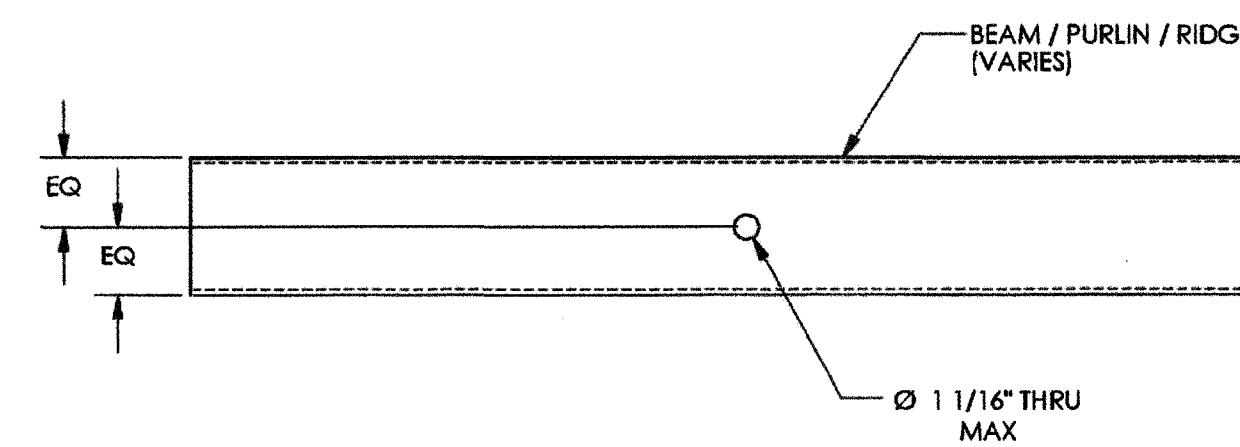
ELECTRICAL CUTOUT IN COLUMNS

EC-100



DOWNSPOUT DETAIL

GS-200

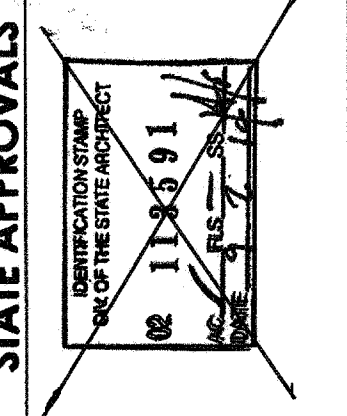
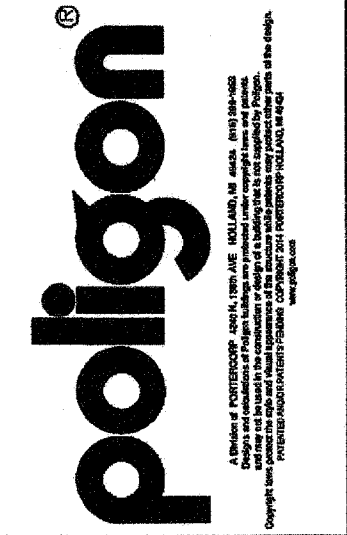


ELECTRICAL CUTOUT IN BEAMS / PURLINS / RIDGES

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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CODE: 2013 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MISC DESIGN OPTIONS
HIP ROOF (RAM)
PC DRAWINGS

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CHECKED BY: CE
POLYGON #: 51458

PD9.0

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