

ABBREVIATIONS

ABBREVIATIONS WHEN USED IN THESE DOCUMENTS SHALL CONFORM TO THE FOLLOWING LIST UNLESS OTHERWISE NOTED. INDIVIDUAL DRAWINGS (SUCH AS CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL) MAY CONTAIN SPECIFIC REFERENCES AND LEGENDS WITH INTERPRETATIONS INTENDED ONLY FOR THOSE DRAWINGS.

&	AND	F.H.M.S.	FLAT HEAD MACHINE SCREW	PLUMB.	PLUMBING
L	ANGLE	F.H.W.S.	FLAT HEAD WOOD SCREW	PLYWD.	PLYWOOD
⊙	AT	FIN.	FINISH	P.O.C.	POINT OF CONNECTION
⊕	CENTERLINE	FL.	FLOOR	PR.	PAIR
∅	DIAMETER OR ROUND	FLASH.	FLASHING	PRCST.	PRECAST
#	POUND OR NUMBER	F.O.C.	FACE OF CONCRETE	PREFIN.	PREFINISHED
(E)	EXISTING	F.O.F.	FACE OF FINISH	PROJ.	PROJECT
(N)	NEW	F.O.M.	FACE OF MASONRY	PT.	POINT
		F.O.P.	FACE OF PLYWOOD	P.T.D.	PAPER TOWEL DISPENSER
A.B.	ANCHOR BOLT	F.O.S.	FACE OF STUDS	P.D.T.R.	COMBINATION PAPER TOWEL DISPENSER AND RECEPTACLE
A/C	AIR CONDITIONING	FPRF.	FIRE PROOF	PTN.	PARTITION
A.C.	ASPHALT CONCRETE	F.R.P.	FIBER REINFORCED PANEL	P.T.R.	PAPER TOWEL RECEPTACLE
ACoust.	ACOUSTICAL	F.R.T.	FIRE RETARDANT TREATED	Q.T.	QUARRY TILE
A.D.	AREA DRAIN	FT.	FOOT OR FEET		
ADJ.	ADJUSTABLE	FTG.	FOOTING		
AGG.	AGGREGATE	FURR.	FURRING		
ALUM.	ALUMINUM	FUT.	FUTURE		
ALT.	ALTERNATE			R.	RADIUS
APPROX.	APPROXIMATE	G.	GAGE	R.A.	RETURN AIR
ARCH.	ARCHITECTURAL (OR ARCHITECT)	GA.	GALVANIZED	R.B.	RUBBER BASE
ASPH.	ASPHALT	G.B.	GRAB BAR	R.D.	ROOF DRAIN
AUTO.	AUTOMATIC	G.J.	GALVANIZED IRON	REF.	REFERENCE
		GND.	GROUND	REFR.	REFRIGERATOR
BEL.	BELOW	GR.	GRADE	REINF.	REINFORCED
BET.	BETWEEN	GYP.	GYPSPUM	REQ.	REQUIRED
BD.	BOARD			RESIL.	RESILIENT
BLDG.	BUILDING	H.	HIGH	RM.	ROOM
BLK.	BLOCKING	H.B.	HOSE BIBB	R.O.	ROUGH OPENING
BM.	BEAM	H.C.	HOLLOW CORE	R.O.W.	RIGHT-OF-WAY
B.O.	BOTTOM OF	HD.	HEAD	R.D.WD.	REDWOOD
BOT.	BOTTOM	HDWD.	HARDWOOD	RWL.	RAIN WATER LEADER
B.U.R.	BUILT-UP ROOF	HGT.	HEIGHT	S.	SOUTH
BRD.	BOARD	H.M.	HOLLOW METAL	S.A.	SUPPLY AIR
		HORIZ.	HORIZONTAL	S.C.	SOLID CORE
		HR.	HOUR	S.C.D.	SEAT COVER DISPENSER
CAB.	CABINET	H.V.A.C.	HEATING, VENTILATING, AND AIR CONDITIONING	SCHED.	SCHEDULE
C.B.	CATCH BASIN	H.W.H.	HOT WATER HEATER	S.D.	STORM DRAIN
C.G.	CORNER GUARD			S.DISP.	SOAP DISPENSER
C.I.	CAST IRON			SECT.	SECTION
C.J.	CONTROL JOINT			S.F.	SQUARE FOOT (FEET)
CLG.	CLOSET	I.D.	INSIDE DIAMETER (DIM.)	S.H.	SHELF
CLO.	CLOSET	IN.	INCHES	SHR.	SHOWER
CLR.	CLEAR	INCL.	INCLUDING, INCLUDES	SHT.	SHEET
CNTR.	COUNTER	INSUL.	INSULATION	SHTG.	SHEATHING
COL.	COLUMN	INT.	INTERIOR	SIM.	SIMILAR
C.M.U.	CONCRETE MASONRY UNIT	INV.	INVERT	S.M.S.	SHEET METAL SCREW
CONC.	CONCRETE	I.P.S.	IRON PIPE SIZE	S.N.D.	SANITARY NAPKIN DISPENSER
CONN.	CONNECTION			S.N.R.	
CONSTR.	CONSTRUCTION			S.O.V.	SHUT OFF VALVE
CONT.	CONTINUOUS	JAN.	JANITOR	SPEC.	SPECIFICATIONS
CONTR.	CONTRACTOR	J.B.	JAMB	SG.	SQUARE
CNTR.	COUNTER	JT.	JOINT	ST.STL.	STAINLESS STEEL
CORR.	CORRIDOR	JST	JOIST	S.S.	SERVICE SINK
CTR.	CENTER	K.	KITCHEN	S.T.	SELF TAPPING
CTSK.	COUNTERSUNK			STA.	STATION
C.Y.	CUBIC YARD	L.	LONG	STD.	STANDARD
		LAB.	LABORATORY	STL.	STEEL
DBL.	DOUBLE	LAM.	LAMINATE	STOR.	STORAGE
DEPT.	DEPARTMENT	LAV.	LAVATORY	STRUC.T.	STRUCTURAL
DET.	DETAIL	LKR.	LOCKER	SUSP.	SUSPENDED
D.F.	DRINKING FOUNTAIN	LT.	LIGHT	S.V.	SHEET VINYL
D.I.	DROP INLET			S.Y.	SQUARE YARD
DIA	DIAMETER	MAX.	MAXIMUM	SYM.	SYMMETRICAL
DIAG.	DIAGONAL	M.B.	MACHINE BOLT	T.B.	TOWEL BAR
DIM.	DIMENSION	M.C.	MEDICINE CABINET	T.C.	TERMINAL CABINET
DISP.	DISPENSER	MATL.	MATERIAL	TEL.	TELEPHONE
DN.	DOWN	MECH.	MECHANICAL	TEMP.	TEMPERED
D.O.	DOOR OPENING	MET.	METAL	TERR.	TERRAZO
DP.	DEEP	MFR.	MANUFACTURER	T&G	TONGUE AND GROOVE
DR.	DOOR	MH.	MANHOLE	THK.	THICK
DS.	DOWNSPOUT	MIN.	MINIMUM	T.P.D.	TOILET PAPER DISPENSER
DW.	DOMESTIC WATER	MISC.	MISCELLANEOUS	T.O.M.	TOP OF MASONRY
DWG.	DRAWING	M.O.	MASONRY OPENING	T.P.L.	TOP OF PLATE
DWR.	DRAWER	MOD.	MODULE, MODULAR	T.O.S.	TOP OF STEEL
		MTD.	MOUNTED	TRD.	TREAD
		MUL.	MULLION	T.S.R.	TOP SET RUBBER
				T.V.	TELEVISION
E.	EAST	N.	NORTH	T.W.	TOP OF WALL
EA.	EACH	N.I.C.	NOT IN CONTRACT (N.I.C. ITEMS NOT A PART OF THIS APPROVAL)	TYP.	TYPICAL
E.J.	EXPANSION JOINT			UNF.	UNFINISHED
ELEV.	ELEVATION	NO. OR #	NUMBER	U.O.N.	UNLESS OTHERWISE NOTED
ELEC.	ELECTRICAL	NOM.	NOMINAL	UR.	URINAL
EMBED.	EMBEDMENT	N.T.S.	NOT TO SCALE	V.B.	VINYL BASE
ENCL.	ENCLOSURE	O/	OVER	V.C.T.	VINYL COMPOSITION TILE
ENGR.	ENGINEER	O.A.	OVERALL	VCTB	VINYL COVERED TACKBOARD
E.P.B.	ELECTRICAL PANEL BOARD	OBS.	OBSCURE	VWC	VINYL WALLCOVERING
EO.	EQUAL	O.C.	ON CENTER	VERT.	VERTICAL
EQUIP.	EQUIPMENT	O.D.	OUTSIDE DIAMETER	VEST.	VESTIBULE
E.W.C.	ELECTRIC WATER COOLER	OFF.	OFFICE	W.	WEST
EXP.	EXPANSION	O.H.	OPPOSITE HAND	W/	WITH
EXIST.	EXISTING	O.H.M.S.	OVAL HEAD MACHINE SCREW	W.C.	WATER CLOSET
EXT.	EXTERIOR	O.H.W.S.	OVAL HEAD WOOD SCREW	WWF	WELDED WIRE FABRIC
		OPNG.	OPENING	WD.	WOOD
F.A.	FIRE ALARM	OPP.	OPPOSITE	W/O	WITHOUT
F.B.	FLAT BAR	P.E.N.	PLYWOOD EDGE NAILING	WP.	WATERPROOF
F.D.	FLOOR DRAIN	PL.	PLATE	W.R.	WATER RESISTANT
FDN.	FOUNDATION	P. LAM.	PLASTIC LAMINATE	W.S.	WOOD SCREW
F.E.	FIRE EXTINGUISHER	PL.	PLATE	WSCT	WAINSCOT
F.E.C.	FIRE EXTINGUISHER AND CABINET	PLAS.	PLASTER	WT.	WEIGHT
F.F.E.	FINISH FLOOR ELEVATION				
F.H.C.	FIRE HOSE CABINET				
F.H.M.S.	FLAT HEAD MACHINE SCREW				

DEFERRED APPROVALS

- NONE THIS APPLICATION

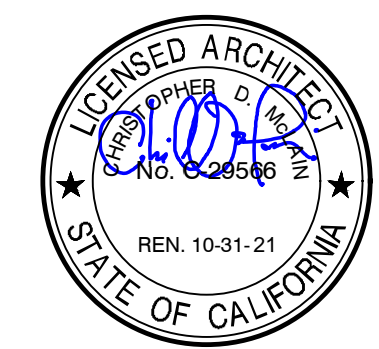
ALTERNATIVE EDUCATION COMPLEX

914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257

PORTERVILLE UNIFIED SCHOOL DISTRICT

600 WEST GRAND AVE., PORTERVILLE, CA 93257

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-117736 INC.
REVIEWED FOR
SS FLS ACS
DATE: 02/13/2020



DATE: JULY 10, 2019

GENERAL NOTES

- CUTTING, BORING, SAW CUTTING, OR DRILLING THROUGH NEW EXISTING STRUCTURAL MEMBERS WILL BE PERMITTED ONLY WHERE INDICATED ON THE DRAWINGS, OR WHEN ACCEPTED BY THE ARCHITECT AND THE DIVISION OF STATE ARCHITECT.
- CHANGES TO THE APPROVED PLANS AND SPECIFICATIONS THAT AFFECT STRUCTURAL SAFETY, FIRE & LIFE SAFETY OR ACCESS COMPLIANCE SHALL BE MADE BY A CONSTRUCTION CHANGE DOCUMENT, ADDENDA OR BULLETIN AS REQUIRED IN SECTION 4-338, PART 1, CAC, AND SHALL BE SUBMITTED TO AND APPROVED BY DSA PRIOR TO COMMENCEMENT OF THE WORK. CONSTRUCTION CHANGE DOCUMENTS SHALL BE PREPARED AND SUBMITTED TO DSA IN COMPLIANCE WITH DSA INTERPRETATION OF REGULATION IN A-6.
- A PROJECT INSPECTOR EMPLOYED BY THE OWNER AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND ARCHITECT/ENGINEER OF RECORD SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS. THIS PROJECT REQUIRES A CLASS 3 INSPECTOR.
- THE STORAGE OF MATERIAL AND EFFECTS OF WORK SHALL BE APPROVED BY LOCAL FIRE AUTHORITY. COMPLY WITH CALIF. FIRE CODE CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION. COMPLY WITH CBC CHAPTER 33, SAFETY DURING CONSTRUCTION.
- 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, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITION SUCH AS DETERIORATION OR NONCOMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK.
- TITLE 24, PARTS 1-5 MUST BE KEPT ON THE SITE DURING CONSTRUCTION

APPLICABLE CODES - BUILDING

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND THE FOLLOWING REGULATIONS :

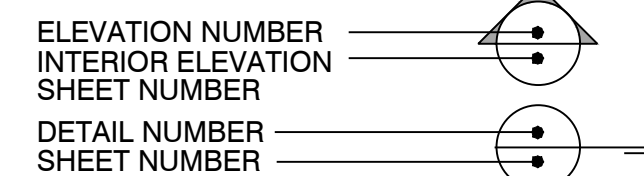
- 2019 California Administrative Code, Part 1, Title 24 C.C.R.
- 2016 California Building Code (CBC), Vol. 1 & 2, Part 2, Title 24 C.C.R. (2015 International Building Code & California Amendments)
- 2016 California Electrical Code (CEC), Part 3, Title 24 C.C.R. (2014 National Electrical Code & California Amendments)
- 2016 California Mechanical Code (CMC), Part 4, Title 24 C.C.R. (2015 Uniform Mechanical Code & California Amendments)
- 2016 California Plumbing Code (CPC), Part 5, Title 24 C.C.R. (2015 Uniform Plumbing Code & California Amendments)
- 2016 California Energy Code, Part 6, Title 24 C.C.R.
- 2016 California Fire Code (FCF), Part 9, Title 24 C.C.R. (2015 International Fire Code & California Amendments)
- 2016 California Green Building Standards, Part 11, Title 24 C.C.R.
- 2016 California Referenced Standards, Part 12, Title 24 C.C.R.
- Title 19 C.C.R., Public Safety, State Fire Marshal Regulations.
- 2016 NFPA 72, National Fire Alarm Code (California amended)
- 2016 NFPA 13, Automatic Sprinkler Systems

Reference code section for NFPA standards - 2016 CBC (SFM) Chapter 35. See Chapter 35 for State of California amendments to NFPA standards.

PROJECT SCOPE

THE WORK INCLUDES THE ALTERATION AND RELOCATION OF (13) EXISTING RELO. 24'X40' CLASSROOM BUILDINGS AND THE RELOCATION OF (1) EXISTING RELO. 36'X40' ADMIN. BUILDING AND ASSOCIATED SITE WORK.

SYMBOLS LEGEND



CONSULTANTS

ARCHITECT
CHRIS D. McCLAIN C-29566
MANGINI ASSOCIATES INC.
4320 W. MINERAL KING AVE., VISALIA, CA 93291
PHONE: (559) 627-0530 FAX: (559) 627-1926

CIVIL ENGINEER
WA YANG RCE-73146
LANE ENGINEERS INC.
979 NORTH BLACKSTONE STREET, TULARE, CA 93274
PHONE: (559) 688-5263 FAX: (559) 688-8893

MECHANICAL ENGINEER
RYAN CARLSON M-34846
LAWRENCE ENGINEERING GROUP
7084 N. MAPLE AVE., SUITE 101, FRESNO, CA 93720
PHONE: (559) 431-0101 FAX: (559) 431-1362

ELECTRICAL ENGINEER
THEODORE W. ROSE E-14920
ROSE SING AND ASSOCIATES INC.
131 S. DUNWORTH STREET, VISALIA, CA 93292
PHONE: (559) 733-2671 FAX: (559) 733-0372

DESIGN DATA

GOVERNING CODE: 2016 CALIFORNIA BUILDING CODE (CBC) (PART TITLE 24 CCR)

DESIGN LOADS: UNIFORM: CONCENTRATED:
ROOF LIVE LOAD: 20 psf 300 lbs.
ROOF SNOW LOAD: N/A
*LIVE LOAD REDUCTION PER CBC 1607A.12.2.1

FLOOD DESIGN DATA:
THIS PROJECT DOES NOT FALL WITHIN A FLOOD HAZARD ZONE.

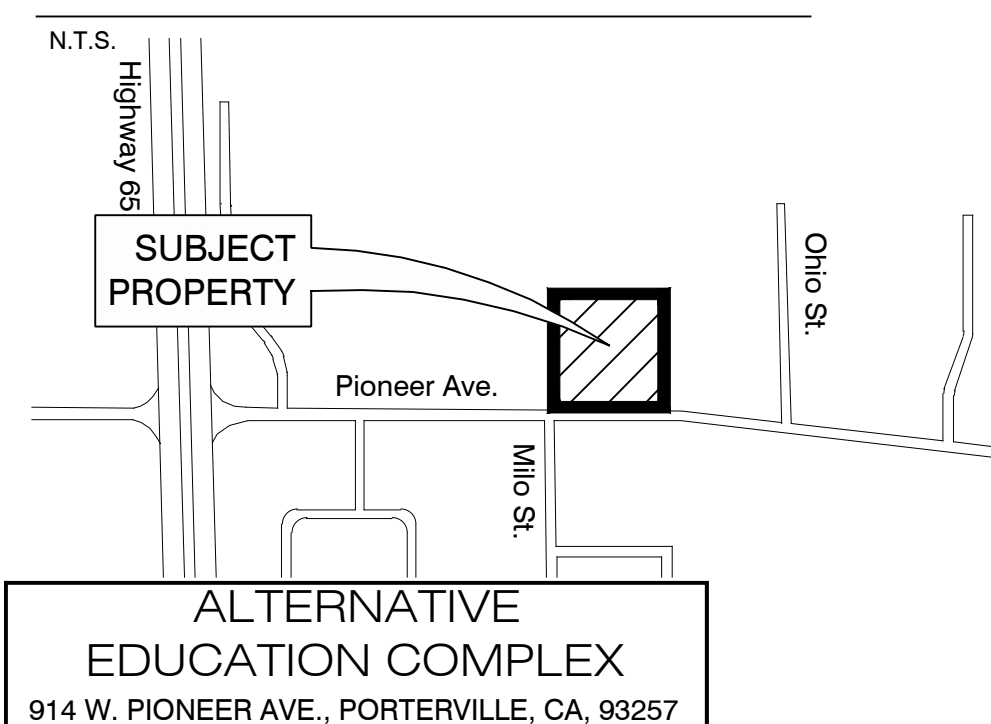
WIND DESIGN:
METHOD: ALTERNATE ALL-HEIGHTS METHOD (CBC 1609A.6)
BASIC WIND SPEED: 110 MPH
EXPOSURE CATEGORY: C

SEISMIC DESIGN:
RISK CATEGORY: II
IMPORTANCE FACTOR: 1
SEISMIC DESIGN CATEGORY: D
S_g 0.586 S₁ 0.249
SD₁ 0.520 SD₂ 0.316

SOIL DATA:
CHARACTER OF SOIL: SANDY
SITE CLASS: D
DESIGN SOIL PRESSURE: 2000 psf (DEAD PLUS LIVE, MAY BE INCREASED 1/3 FOR TRANSIENT LOADS)

GEOTECHNICAL REPORT #1578-16 PREPARED BY CTL-SEE'S INC. DEC. 23, 2016

VICINITY MAP



SHEET INDEX (78 SHEETS TOTAL)

GENERAL INFORMATION
G1 COVER SHEET, SHEET INDEX, VICINITY MAP
FC1 FIRE CODE SITE PLAN, CODE SUMMARY
CIVIL

CO.1 COVERSHEET
C1.1 PARTIAL TOPOGRAPHIC SURVEY
C2.1 OVEREXCAVATION
C3.1 GRADING PLAN
C3.2 ENLARGED GRADING DETAILS
C4.1 STORM DRAIN PLAN
C5.1 OFFSITE DEMOLITION
C5.1 OFFSITE IMPROVEMENTS
C7.1 CIVIL DETAILS
C7.2 CITY STANDARD DETAILS

SITE DEVELOPMENT
SD1 OVERALL SITE PLAN, SITE DEMO. PLANS (FOR RELOCATION)
SD2 SITE DEMO. PLAN / SITE PLAN
SD3 ENLARGED SITE PLAN
SD4 FOUNDATION DETAILS
SD5 SITE DETAILS
SD6 SITE DETAILS
SD7 SITE DETAILS
A1 RELO. TOILET PLANS, INTERIORS & DETAILS
A2 DETAILS

PLUMBING
P1 OVERALL SITE PLAN
P2 ENLARGED PLUMBING PLAN
P3 PLUMBING SCHEDULES & DETAILS

FIRE
F1 FIRE PROTECTION SITE PLAN
F2 SPRINKLER PLAN PORTABLES 1-4
F3 SPRINKLER PLAN PORTABLES 5 & 6
F4 SPRINKLER PLAN PORTABLES 7-10
F5 SPRINKLER PLAN PORTABLES 11-14
F6 BUILDING SECTIONS
F7 RISER DETAILS
F8 INSTALLATION DETAILS
F9 SITE DETAILS
F10 STRUCTURAL DETAILS

ELECTRICAL
EG1.1 CODES, NOTES AND ELECTRICAL SYMBOLS & FIXTURE SCHEDULE
EG1.2 OUTDOOR LIGHTING COMPLIANCE
EG1.3 OUTDOOR LIGHTING COMPLIANCE
EG1.4 OUTDOOR LIGHTING COMPLIANCE
EG1.5 POWER COMPLIANCE
EG1.6 INDOOR LIGHTING COMPLIANCE TYP. FOR ALL RELOCS
EG1.7 INDOOR LIGHTING COMPLIANCE TYP. FOR ALL RELOCS
EG1.8 INDOOR LIGHTING COMPLIANCE TYP. FOR ALL RELOCS
ES1.1 NEW SITE ELECTRICAL PLAN
E1.1 POWER AND FIRE ALARM PLANS
E1.2 POWER AND FIRE ALARM PLANS
E2.1 FIRE ALARM SYSTEM EQUIP. SPECS, CODES AND NOTES
E2.2 FIRE ALARM SYSTEM RISER DIAGRAM
E2.3 FIRE ALARM DETAILS AND CALCULATIONS
E3.2 ONE LINE DIAGRAM
E3.2 DETAILS
TS1.1 NEW SITE SIGNAL PLAN
T1.1 SIGNAL PLANS
T1.2 SIGNAL PLANS

STATEMENT OF GENERAL CONFORMANCE

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

THE DRAWINGS 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 DWGS. 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 DWGS. 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 (OR FOR WHICH HAVE BEEN DELEGATED RESPONSIBILITY FOR THIS PORTION OF WORK).

LIST OF DWGS. REVIEWED ARE ATTACHED AND LISTED BELOW:
SIGNATURE OF THE ARCHITECT/ENGINEER DATE
C-29566 2/10/2020
LICENSE NUMBER EXPIRATION DATE

RELOCATABLE MANUFACTURER DRAWINGS

CENTRAL COAST MODULAR PC#118, DSA#55622 (FOR BLDGS. "1"-5", "7"-14")
INDEX SHEET INDEX
A-1 ARCHITECTURAL
M-1,E-1-ELECTRICAL/MECHANICAL
D-1 DETAILS
S-1 FOUNDATION DETAILS
S-2 FRAMING PLAN & ELEVATIONS
S-3 ROOF FRAMING DETAILS
S-4 FLOOR FRAMING DETAILS
S-5 WOOD WALL ELEV. & DETAILS
S-6 SPECIFICATIONS

RELOCATABLE MANUFACTURER DRAWINGS

DSM1 PC#246, DSA#62159 (FOR BLDG. "6")
C COVER SHEET
MA1 FLOOR PLAN
MA2 DETAILS
MA3 SPECIFICATIONS
MA4 ROOFING LAYOUT
ME1 ELECTRICAL PLAN
MM1 MECHANICAL PLAN & CEILING DETAILS
RF1 MODULE LAYOUT & STRUCTURAL NOTES
RF2 FLOOR FRAMING PLAN & DETAILS
RF2.1 ALTERNATE FLOOR FRAMING PLANS
RF3 FRAME ELEVATIONS & COLUMN POCKET DETAILS
RF4 BUILDING SECTION
RF5 ROOF FRAMING PLAN & DETAILS
RF6 WALL FRAMING ELEVATIONS & DETAILS
SF1 FOUNDATION PLAN

ALTERNATIVE EDUCATION COMPLEX
PORTERVILLE UNIFIED SCHOOL DISTRICT
914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257

REVISIONS	DATE	DESCRIPTION

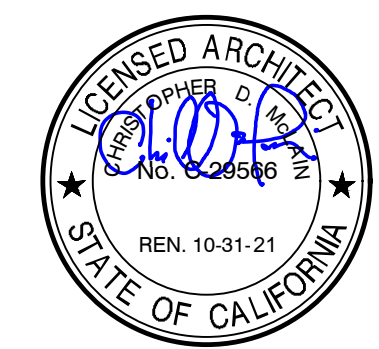
MANGINI ARCHITECTURE
INGENUITY
MANGINI ASSOCIATES INC.
4320 West Mineral King Avenue
Visalia, California 93291
www.mangini.us
(559) 627-0530 Office
(559) 627-1926 Fax

McLAIN BARENG MORRELLI

TITLE
COVER SHEET,
SHEET INDEX,
VICINITY MAP

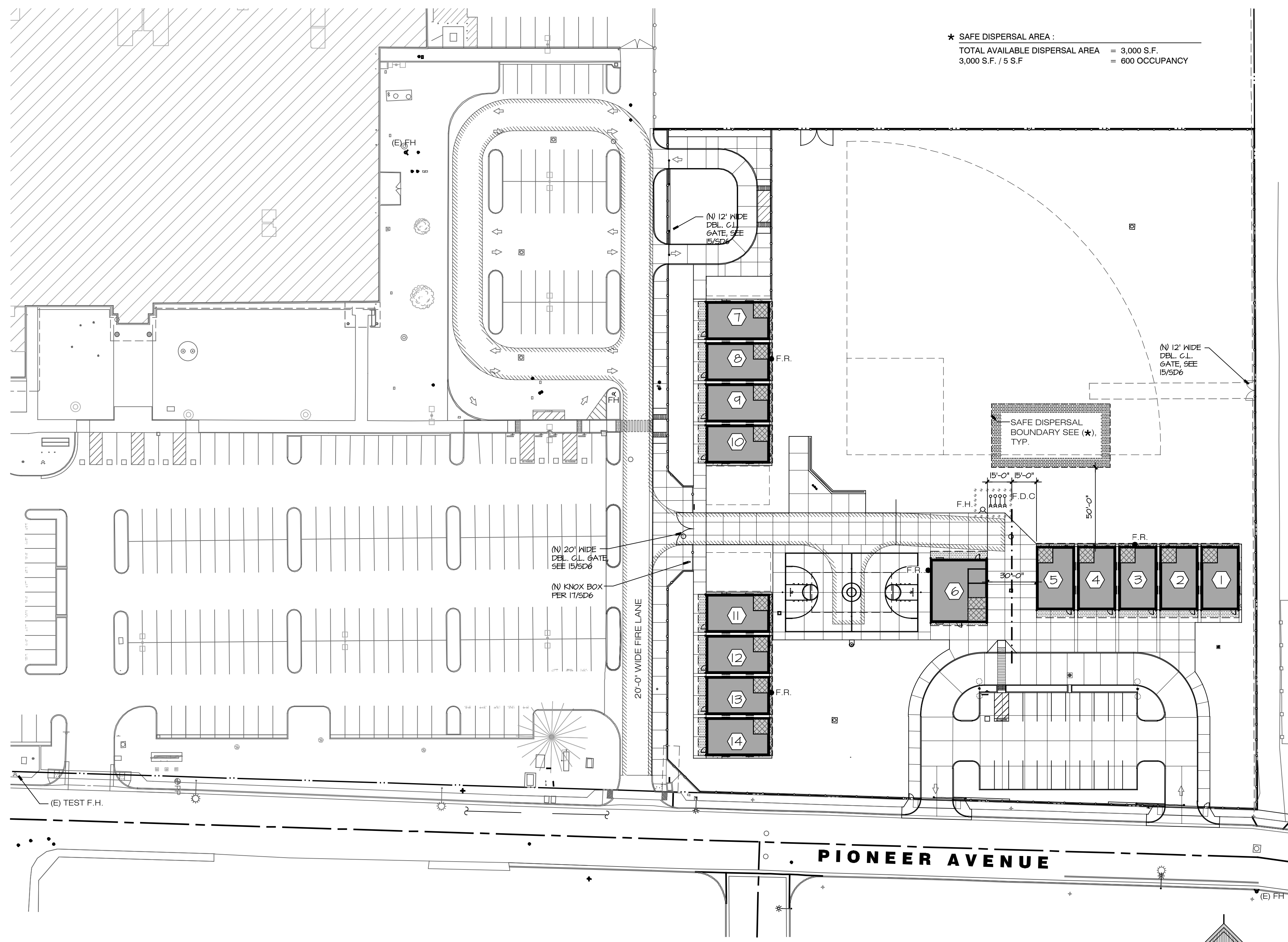
G1
PROJECT 1901

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP. 02-117736 INC.
 REVIEWED FOR:
 SS FLS ACS
 DATE: 02/13/2020



DATE: JULY 10, 2019

ALTERNATIVE EDUCATION COMPLEX
 PORTERVILLE UNIFIED SCHOOL DISTRICT
 914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257



* SAFE DISPERSAL AREA:
 TOTAL AVAILABLE DISPERSAL AREA = 3,000 S.F.
 3,000 S.F. / 5 S.F. = 600 OCCUPANCY

LEGEND AND NOTES

- RELOCATED BUILDING
- ACCESSIBLE RESTROOMS, SEE FLOOR PLANS FOR GENDER
- PROPERTY LINE / RIGHT OF WAY LINE
- BUILDING SETBACK (IMAGINARY PROPERTY LINE)
- 20'-0" WIDE FIRE LANE
- PERIMETER (P)
- FRONTAGE (F)
- *OCC.*** BUILDING OCCUPANCY PER CBC CHAPTER 3.
- F.D.C. FIRE DEPARTMENT CONNECTION
- F.H. FIRE HYDRANT / SHUT-OFF VALVE
- F.R. FIRE SPRINKLER RISER

ADSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, ADSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new buildings, addition to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1-3 below is to be provided for all project sites indicated above. Information associated with items 4-7 is to be completed when an alternate means is utilized. Acknowledgment by the school district and signature from the local fire authority (LFA) is only required when an alternate design means is being requested.

Page 1 of the completed form must be imaged onto the fire access site plan. When an alternate design means is proposed, completed pages 1 and 2 are to be imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and [ADSA Policy 09.01](#).

PROJECT INFORMATION

School District/Owner:	PORTERVILLE UNIFIED SCHOOL DISTRICT
Project Name/School:	ALTERNATIVE EDUCATION COMPLEX
Project Address:	914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257

FIRE & LIFE SAFETY INFORMATION

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

CONDITION MEANS AND METHODS RESOLUTION

Item	Condition		Alternate Accepted	
	Yes	No	Yes	No
4. Emergency vehicle access roadways do not meet CFC requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4a. Acceptable Alternate: Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Fire Hydrants: Number and spacing does not meet CFC requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5a. Acceptable Alternate: Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Fire Hydrants: Water flow and pressure are less than CFC minimum.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6a. Acceptable Alternate: The available flow and pressure is acceptable for providing fire suppression and protection of life and property.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Location of fire department connections serving fire sprinkler systems or standpipe systems does not meet CFC requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7a. Acceptable Alternate: The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

School District Acceptance of Acceptable Design Alternates

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

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

LOCAL FIRE AUTHORITY (LFA) INFORMATION

LFA Agency Name: CITY OF PORTERVILLE FIRE DEPARTMENT
 LFA Review Official: MITCHELL SANDOVAL
 Title: _____ Work Phone: (559)782-7537
 Work E-mail: _____

LFA Reviewer's Signature: _____ Date: _____

FIRE CODE SITE PLAN
 1" = 40'-0"

BUILDING CODE SUMMARY

BUILDING DESCRIPTION	BUILDING NAME	OCCUPANCY CLASSIFICATION CBC CHAPTER 3	ALLOWABLE BUILDING AREA CBC 506.2	ACTUAL BUILDING AREA CBC 202			CONSTRUCTION TYPE CBC TABLE 503	SEPARATION OF OCCUPANCIES CBC 506.3	ACTUAL BUILDING HEIGHT CBC TABLE 504.3	ALLOWABLE BUILDING HEIGHT CBC TABLE 504.3	ACTUAL # OF STORIES CBC TABLE 504.4	ALLOWABLE # OF STORIES CBC TABLE 504.4	BUILDING SEPARATION (FIRE WALLS) CBC 705.1	AUTOMATIC FIRE SPRINKLER SYSTEM CBC 903.2.3	USE OF FIRE SPRINKLERS	FRONTAGE INCREASE i = F / P - 0.25 (W / 30) CBC 506.2	AREA MODIFICATION A _i = NS, S, S13, OR SM CBC 506.2	TOTAL ALLOWABLE AREA CALCULATION			MINIMUM REQUIRED FIRE FLOW CFC TABLE 801.0.1	FIRE RESISTANCE RATINGS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE CBC TABLE 602	FIRE RESISTANCE RATINGS REQUIREMENTS CBC TABLE 601		CHECK DRAFT STOP REQUIREMENTS RIP UP 8" O.C. FULLY SPRINKLERED BLDGS. ATIC AREA MAY NOT EXCEED 9000 S.F. OR 100' LONGEST DIMENSION OR 300 S.F. NON-SPRINKLERED
				B	E	SUM OF RATIO CBC 506.3.3.2												CONSTRUCTION TYPE	VB						
RELOC. BLDGS. 1/20/16/15 (AREA CALCULATED AS BUILDINGS)	CLASSROOM 1	E	-	940 SF	168 SF	1,128 SF	VB	N/A	11'-0"	40'-0"	1	1	N/A	YES CBC 903.2.1.3	AREA INCREASE CBC 506.3	N/A	A _i = 38,000 SF	TABULAR BUILDING AREA-CBC TABLE 503	A _i	N/A	CONST. TYPE: VB TOTAL AREA: 5,640 SF FLOW: 2,000 GPM 50% = 1,000 GPM DURATION: 2 HOURS	CONSTRUCTION TYPE: VB SEPARATION DISTANCE: >=10'; E OCC. NO RATING <=10'; E OCC. 1 HOUR	INTERIOR BEARING WALLS	0	OK
	CLASSROOM 2	E	-	940 SF	168 SF	1,128 SF												INTERIOR NON-BEARING WALLS	0						
	CLASSROOM 3	E	-	940 SF	168 SF	1,128 SF												FLOOR CONSTRUCTION	0						
	CLASSROOM 4	E	-	940 SF	168 SF	1,128 SF												ROOF CONSTRUCTION	0						
	CLASSROOM 5	E	-	940 SF	168 SF	1,128 SF																			
TOTAL			38,000 SF	TOTAL 4,800 SF	TOTAL 840 SF																				
RELOC. BLDG. 6	ADMIN. BLDG.	B	-	1,440 SF	252 SF	1,692 SF	VB	N/A	11'-3"	60'-0"	1	3	N/A	YES CBC 903.2.1.3	AREA INCREASE CBC 506.3	N/A	A _i = 36,000 SF	TABULAR BUILDING AREA-CBC TABLE 503	A _i	N/A	CONST. TYPE: VB TOTAL AREA: 1,692 SF FLOW: 1,500 GPM 50% = 750 GPM DURATION: 2 HOURS	CONSTRUCTION TYPE: VB SEPARATION DISTANCE: >=10'; E OCC. NO RATING <=10'; E OCC. 1 HOUR	STRUCTURAL FRAME	0	OK
				36,000 SF	TOTAL 1,440 SF	TOTAL 252 SF																			
RELOC. BLDGS. 7/8/9/10 (AREA CALCULATED AS BUILDINGS)	CLASSROOM 7	E	-	940 SF	168 SF	1,128 SF	VB	N/A	11'-0"	40'-0"	1	1	N/A	YES CBC 903.2.1.3	AREA INCREASE CBC 506.3	N/A	A _i = 38,000 SF	TABULAR BUILDING AREA-CBC TABLE 503	A _i	N/A	CONST. TYPE: VB TOTAL AREA: 4,512 SF FLOW: 1,750 GPM 50% = 875 GPM DURATION: 2 HOURS	CONSTRUCTION TYPE: VB SEPARATION DISTANCE: >=10'; E OCC. NO RATING <=10'; E OCC. 1 HOUR	INTERIOR BEARING WALLS	0	OK
	CLASSROOM 8	E	-	940 SF	168 SF	1,128 SF												INTERIOR NON-BEARING WALLS	0						
	CLASSROOM 9	E	-	940 SF	168 SF	1,128 SF												FLOOR CONSTRUCTION	0						
	CLASSROOM 10	E	-	940 SF	168 SF	1,128 SF												ROOF CONSTRUCTION	0						
TOTAL			38,000 SF	TOTAL 3,840 SF	TOTAL 4,72 SF																				
RELOC. BLDGS. 11/12/13/14 (AREA CALCULATED AS BUILDINGS)	CLASSROOM 11	E	-	940 SF	168 SF	1,128 SF	VB	N/A	11'-0"	40'-0"	1	1	N/A	YES CBC 903.2.1.3	AREA INCREASE CBC 506.3	N/A	A _i = 38,000 SF	TABULAR BUILDING AREA-CBC TABLE 503	A _i	N/A	CONST. TYPE: VB TOTAL AREA: 4,512 SF FLOW: 1,750 GPM 50% = 875 GPM DURATION: 2 HOURS	CONSTRUCTION TYPE: VB SEPARATION DISTANCE: >=10'; E OCC. NO RATING <=10'; E OCC. 1 HOUR	INTERIOR BEARING WALLS	0	OK
	CLASSROOM 12	E	-	940 SF	168 SF	1,128 SF												INTERIOR NON-BEARING WALLS	0						
	CLASSROOM 13	E	-	940 SF	168 SF	1,128 SF												FLOOR CONSTRUCTION	0						
	CLASSROOM 14	E	-	940 SF	168 SF	1,128 SF												ROOF CONSTRUCTION	0						
TOTAL			38,000 SF	TOTAL 3,840 SF	TOTAL 4,72 SF																				

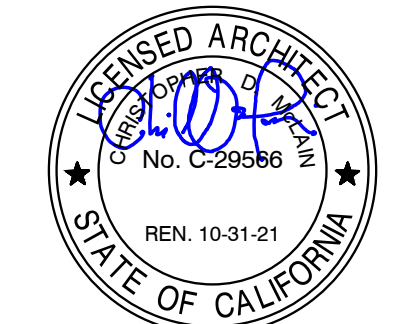
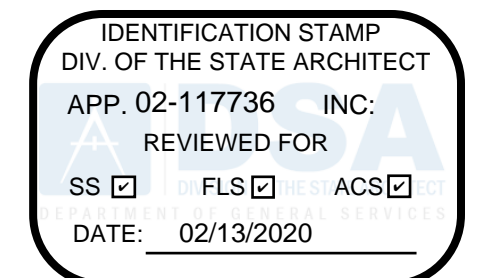
REVISIONS

MANGINI ARCHITECTURE
 INGENUITY
 MCLAIN BARENG MORRELLI
 MANGINI ASSOCIATES INC.
 4320 West Mineral King Avenue
 Visalia, California 93291
 www.mangini.us
 (559) 627-0530 office
 (559) 627-1268 fax

TITLE
FIRE CODE SITE PLAN
CODE SUMMARY

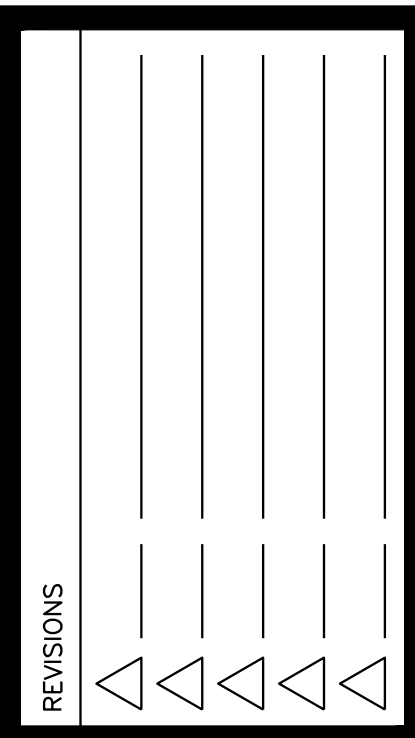
FC1

PROJECT **1901**



DATE: 7-10-19

ALTERNATIVE EDUCATION COMPLEX PORTERVILLE UNIFIED SCHOOL DISTRICT 914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257



MANGINI ARCHITECTURE INGENUITY McLAIN BARENG MORRELLI MANGINI ASSOCIATES INC. 4320 West Mineral King Avenue Visalia, California 93291

TITLE COVERSHEET PROJECT 1901

CIVIL ABBREVIATIONS table with columns for symbols and descriptions. Includes entries for MAS (Masonry), MAX (Maximum), MECH (Mechanical), MED (Medium), MET (Metal), MFR (Manufacturer), MH (Man Hole), MIN (Minimum), MISC (Miscellaneous), MTL (Material), MTR (Meter), N (North), NE (North East), NAT (Natural), NIC (Not in Contract), NTS (Not to Scale), OC (On Center), OD (Outside Diameter), OG (Original Ground), OH (Opposite Hand), OPNG (Opening), OPP (Opposite), P (Top of Paving), PAR (Parallel), PC (Property Corner), PCC (Point of Compound Curvature), PERI (Perimeter), PK (Parking), P/L (Property Line), PDC (Point of Connection), PP (Power Pole), PRC (Point of Reverse Curvature), PRKG (Parking), PRKP (Property), PT (Point), PVC (Polyvinyl Chloride), PVM (Pavement), R (Ridge), RAD (Radius), RCP (Reinforced Concrete Pipe), RDR (Roof Drain), REF (Reference), REQ (Required), RET (Return), RETG (Retaining), REV (Revision), RP (Radius Point), RR (Railroad), RT (Right), RW (Right of Way), RWC (Rainwater Conductor), RWL (Rainwater Leader), S (South), SCHED (Schedule), STD (Standard), STL (Steel), STR (Structural), SW (Swale), SYM (Symmetrical), T&B (Top and Bottom), TBM (Temporary Bench Mark), TC (Top of Curb), TD (Top of Dike), TEL (Telephone), TEMP (Temporary), TFC (Face of Concrete), TFF (Face of Finish), TH (Top of Redwood Header), THK (Thickness), TM (Top of Mow Strip), TOM (Top of Masonry), TOS (Top of Steel), TNR (Top of North Rail), TR (Top of Rail), TRK (Top of Rock), TSL (Top of Slab), TSR (Top of South Rail), TW (Top of Wall), TWR (Top of West Rail), TYP (Typical), UGD (Underground), UNO (Unless Noted Otherwise), VCP (Vertical Clay Pipe), VERT (Vertical), VIF (Verify in Field), W (West), WI (With), WO (Without), WD (Wood), WHB (Wheel Bumper), WM (Water Meter), WP (Working Point), WTR (Water), WV (Water Valve).

ABBREVIATIONS: WHEN USED IN THESE CIVIL DRAWINGS SHALL CONFORM TO THE ABOVE LIST, UNLESS NOTED OTHERWISE. OTHER SECTIONS (SUCH AS ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL PLANS) MAY CONTAIN SPECIFIC REFERENCES AND LEGENDS WITH INTERPRETATIONS INTENDED ONLY FOR THOSE SECTIONS.

CIVIL ABBREVIATIONS



CONSULTANT LANE ENGINEERS INC. CIVIL • STRUCTURAL • SURVEYING 979 N. BLACKSTONE TULARE, CALIFORNIA 93274 (559) 888-5263

CONSTRUCTION STAKING LIABILITY WAIVER

THESE IMPROVEMENT PLANS HAVE BEEN PREPARED WITH THE INTENT THAT THE FIRM OF LANE ENGINEERS, INC. WILL BE PERFORMING THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT. IF ANYONE OTHER THAN THE DESIGN ENGINEER IS EMPLOYED TO USE THESE PLANS FOR THE PURPOSE OF CONSTRUCTION STAKING, NOTICE IS HEREBY GIVEN THAT LANE ENGINEERS, INC. WILL NOT ASSUME ANY RESPONSIBILITY FOR ERRORS OR OMISSIONS, IF ANY, WHICH MIGHT OCCUR AND COULD HAVE BEEN AVOIDED, CORRECTED, OR MITIGATED IF THE FIRM OF LANE ENGINEERS, INC. HAD PERFORMED THE CONSTRUCTION STAKING WORK.

BENCHMARKS:

CITY BENCHMARK NO. 13: DISK WITH CENTER MARK STAMPED RCE 24075, ALSO THE NORTHEAST CORNER OF SECTION 22, T. 21 S., R. 27 E. M.D.B. & M. PER. AN UNRECORDED SHEET OF LS 21/68.

ELEV = 432.261 (NAVD 1988).

TBM No. 1: CHISELED 'X' IN TOP OF CURB ON THE NORTH SIDE OF PIONEER AVE., 29± WEST OF THE EAST PROPERTY LINE ON THE NORTH SIDE OF PIONEER AVE.

ELEV = 435.93 (NAVD 1988).

TBM No. 2: CHISELED 'X' IN TOP OF CURB, 10± WEST OF THE NORTHWEST CURB RETURN AT THE FIRE ROAD ENTRANCE.

ELEV = 434.12 (NAVD 1988).

VERTICAL DATUM NOTE:

1. ADD 400 FEET TO ELEVATIONS SHOWN ON PLAN TO OBTAIN DATUM BASED ON NORTH AMERICAN VERTICAL DATUM 1988.

STANDARD GENERAL NOTES

- 1. THE CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXEMPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF ENGINEER.
2. THE CONTRACTOR SHALL ACCEPT THE SITE IN ITS PRESENT CONDITION AND DEMOLISH AND/OR REMOVE FROM THE AREA OF DESIGNATED PROJECT EARTHWORK ALL STRUCTURES, BOTH SURFACE AND SUBSURFACE, TREES, BRUSH, ROOTS, DEBRIS, ORGANIC MATTER, AND ALL OTHER MATTER DETERMINED BY THE INSPECTOR TO BE DELETERIOUS. SUCH MATERIAL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.
3. EXCAVATIONS SHALL BE ADEQUATELY SHORED, BRACED AND SHEETED SO THAT THE EARTH WILL NOT SLIDE OR SETTLE AND SO THAT ALL EXISTING IMPROVEMENTS OF ANY KIND WILL BE FULLY PROTECTED FROM DAMAGE. ANY DAMAGE RESULTING FROM A LACK OF ADEQUATE SHORING, BRACING AND SHEETING, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND HE SHALL EFFECT NECESSARY REPAIRS OR RECONSTRUCTION AT HIS OWN EXPENSE. WHERE THE EXCAVATION FOR A CONDUIT TRENCH, AND/OR STRUCTURE IS FIVE FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL PROVIDE ADEQUATE SHEETING, WHICH SHALL CONFORM TO THE APPLICABLE CONSTRUCTION SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA. THE CONTRACTOR SHALL ALWAYS COMPLY WITH OSHA REQUIREMENTS.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN PERMITS NECESSARY TO PERFORM THE WORK SHOWN IN THESE PLANS FROM THE APPROPRIATE AGENCIES.
5. THE CONTRACTOR SHALL TAKE EFFECTIVE ACTION TO PREVENT THE FORMATION OF AN AIRBORNE DUST NUISANCE AND SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM HIS FAILURE TO DO SO.
6. THE CONTRACTOR SHALL PROVIDE FOR INGRESS AND EGRESS FOR PRIVATE PROPERTY ADJACENT TO WORK THROUGHOUT THE PERIOD OF CONSTRUCTION.
7. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR SAFETY, TRAFFIC CONTROL, AND ALL TRAFFIC CONTROL DEVICES SHALL BE IN CONFORMANCE WITH THE MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE ZONES, LATEST EDITION AS PUBLISHED BY THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION.
8. THE CONTRACTOR SHALL POST EMERGENCY TELEPHONE NUMBERS FOR POLICE, FIRE, AMBULANCE, AND THOSE AGENCIES RESPONSIBLE FOR MAINTENANCE OF UTILITIES IN THE VICINITY OF JOBSITE.
9. ALL RETURN RADII AND CURB DATA ARE TO FACE OF CURB UNLESS SHOWN OR NOTED OTHERWISE.
10. ALL QUANTITIES AND PAY ITEMS ARE AND WILL BE BASED ON HORIZONTAL MEASUREMENTS.
11. LENGTHS OF SANITARY SEWERS AND STORM DRAINS ARE HORIZONTAL DISTANCES FROM CENTER TO CENTER OF STRUCTURES, ROUNDED OFF TO THE NEAREST FOOT.
12. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AT LEAST 2 WORKING DAYS IN ADVANCE OF CONSTRUCTION TO FIELD LOCATE UTILITIES. CALL UNDERGROUND SERVICE ALERT (U.S.A.), AT 1-800-227-2600. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED AND MERGED IN THE CONTRACT UNIT PRICE.
13. ALL EXISTING UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE LOCAL AGENCY ENGINEER, AT THE CONTRACTOR'S SOLE EXPENSE.
14. ANY RELOCATION OF PUBLIC UTILITIES SHALL BE CONDUCTED IN ACCORDANCE WITH ANY AND ALL REQUIREMENTS OF THE UTILITY COMPANY, INCLUDING FEES, BONDS, PERMITS AND WORKING CONDITIONS, ETC.
15. IF ARCHAEOLOGICAL MATERIALS ARE UNCOVERED DURING GRADING, TRENCHING OR OTHER EXCAVATION, EARTHWORK WITHIN 100 FEET OF THESE MATERIALS SHALL BE STOPPED UNTIL A PROFESSIONAL ARCHAEOLOGIST WHO IS CERTIFIED BY THE SOCIETY OF CALIFORNIA ARCHAEOLOGY (SCA) AND/OR THE SOCIETY OF PROFESSIONAL ARCHAEOLOGY (SOPA) HAS HAD AN OPPORTUNITY TO EVALUATE THE SIGNIFICANCE OF THE FIND AND SUGGEST APPROPRIATE MITIGATION MEASURES, IF THEY ARE DEEMED NECESSARY.
16. LANE ENGINEERS, INC. DOES NOT SPECIFY NOR RECOMMEND THE USE OR INSTALLATION OF ANY MATERIAL OR EQUIPMENT WHICH IS MADE FROM, OR WHICH CONTAINS ASBESTOS FOR USE IN THE CONSTRUCTION OF THESE IMPROVEMENTS. ANY PARTY INSTALLING OR USING SUCH MATERIALS OR EQUIPMENT SHALL BE SOLELY RESPONSIBLE FOR ALL INJURIES, DAMAGES, OR LIABILITIES OF ANY KIND, CAUSED BY THE USE OF SUCH MATERIALS OR EQUIPMENT. THE PROVISIONS OF THIS NOTE SHALL APPLY UNLESS THEY ARE EXPRESSLY WAIVED IN WRITING BY LANE ENGINEERS, INC..
17. SHOULD IT APPEAR THAT THE WORK TO BE DONE OR ANY MATTER RELATIVE THERETO IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT MANGINI ASSOCIATES, INC. (559) 627-0630 FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
18. THE CONTRACTOR SHALL MEET AND FOLLOW ALL NPDES REQUIREMENTS IN EFFECT AT THE TIME OF CONSTRUCTION.
19. CONTRACTOR SHALL COMPLY WITH SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT (SJVAPCD) REGULATION VIII TO LIMIT FUGITIVE DUST.
20. APPROPRIATE APPROVAL SHALL BE OBTAINED PRIOR TO PROCEEDING WITH ANY WORK IN THE VICINITY OF IRRIGATION DITCHES, CREEKS AND ASSOCIATED IRRIGATION FACILITIES WHETHER OR NOT SHOWN ON THESE PLANS.

SYMBOL LEGEND table with columns for symbols and descriptions. Includes entries for FIRE HYDRANT, WATER VALVE, EXISTING LIGHT POLE, SIGN, CHAIN LINK FENCE, FLOW ARROW AS NOTED ON PLANS, MANHOLE, GUY WIRE, PROPOSED ELEVATION, EXISTING ELEVATION.

UTILITIES

UTILITIES table with columns for symbols and descriptions. Includes entries for UNDERGROUND ELECTRIC, FIRE LINE (WATER), UNDERGROUND FIBER OPTIC LINE, UNDERGROUND GAS LINE, UNDERGROUND IRRIGATION LINE, STORM DRAIN, SANITARY SEWER, UNDERGROUND TELEPHONE LINE, UNDERGROUND CABLE TELEVISION LINE, WATER.

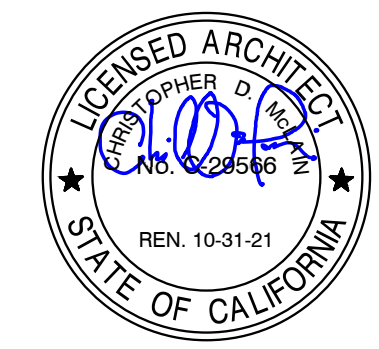
LEGEND: WHEN USED IN THESE CIVIL DRAWINGS SHALL CONFORM TO THE ABOVE LIST, UNLESS NOTED OTHERWISE. OTHER SHEETS WITHIN THESE PLANS MAY CONTAIN SPECIFIC REFERENCES AND LEGENDS WITH INTERPRETATIONS INTENDED ONLY FOR THOSE SHEETS.

SYMBOL LEGEND

BENCHMARK

CONSTRUCTION STAKING

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-117736 INC.
REVIEWED FOR
SS FLS ACS
DATE: 02/13/2020



DATE: 7-10-19

**ALTERNATIVE
EDUCATION COMPLEX**
PORTERVILLE UNIFIED SCHOOL DISTRICT
914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257

REVISIONS

MANGINI ARCHITECTURE
INGENUITY
McLAIN BARENG MORRELLI
www.mangini.us
MANGINI ASSOCIATES INC.
4320 West Mineral King Avenue
Visalia, California 93274
(559) 627-0530 Office
(559) 627-1260 Fax

TITLE
OVEREXCAVATION
C2.1
PROJECT **1901**

POINT TABLE

POINT	NORTHING	EASTING	DESCRIPTION
1007	1916647.1776	6550858.7737	LIMITS OF OVEREXCAVATION
1008	1916644.7976	6550862.7295	LIMITS OF OVEREXCAVATION
1009	1916496.1418	6550912.7115	LIMITS OF OVEREXCAVATION
1010	1916648.4762	6550908.7589	LIMITS OF OVEREXCAVATION
1011	1916472.3206	6550864.0271	LIMITS OF OVEREXCAVATION
1012	1916333.9014	6550866.8796	LIMITS OF OVEREXCAVATION
1013	1916335.1989	6550916.8629	LIMITS OF OVEREXCAVATION
1014	1916473.6182	6550914.0104	LIMITS OF OVEREXCAVATION
1015	1916473.0213	6551004.9796	LIMITS OF OVEREXCAVATION
1016	1916423.0382	6551009.2781	LIMITS OF OVEREXCAVATION
1017	1916424.2319	6551052.2696	LIMITS OF OVEREXCAVATION
1018	1916474.2151	6551050.9631	LIMITS OF OVEREXCAVATION
1019	1916462.8859	6551071.7905	LIMITS OF OVEREXCAVATION
1020	1916432.9128	6551073.0880	LIMITS OF OVEREXCAVATION
1021	1916436.4941	6551211.0416	LIMITS OF OVEREXCAVATION
1022	1916466.4772	6551209.7440	LIMITS OF OVEREXCAVATION
1023	1916311.5609	6551187.4289	LIMITS OF OVEREXCAVATION
1024	1916319.1276	6551184.5791	LIMITS OF OVEREXCAVATION
1025	1916373.3038	6551183.1634	LIMITS OF OVEREXCAVATION
1026	1916414.1984	6551140.0879	LIMITS OF OVEREXCAVATION
1027	1916411.7507	6551045.7632	LIMITS OF OVEREXCAVATION
1028	1916368.6749	6551004.8673	LIMITS OF OVEREXCAVATION
1029	1916312.3524	6551005.3111	LIMITS OF OVEREXCAVATION
1030	1916311.1546	6551006.9374	LIMITS OF OVEREXCAVATION
1031	1916311.0448	6551029.4374	LIMITS OF OVEREXCAVATION
1032	1916312.1812	6551031.0965	LIMITS OF OVEREXCAVATION
1033	1916315.7889	6551030.1619	LIMITS OF OVEREXCAVATION
1034	1916339.3055	6551029.5509	LIMITS OF OVEREXCAVATION
1035	1916339.6508	6551042.8518	LIMITS OF OVEREXCAVATION
1036	1916321.6569	6551043.3190	LIMITS OF OVEREXCAVATION
1037	1916324.3209	6551140.2843	LIMITS OF OVEREXCAVATION
1038	1916342.3239	6551145.6171	LIMITS OF OVEREXCAVATION
1039	1916342.6905	6551159.9512	LIMITS OF OVEREXCAVATION
1040	1916315.5994	6551160.6339	LIMITS OF OVEREXCAVATION
1041	1916311.3889	6551159.5876	LIMITS OF OVEREXCAVATION
1042	1916310.4085	6551161.3308	LIMITS OF OVEREXCAVATION
1043	1916310.2812	6551185.8918	LIMITS OF OVEREXCAVATION
1044	1916640.5820	6550832.4476	LIMITS OF OVEREXCAVATION
1045	1916648.6849	6550840.2393	LIMITS OF OVEREXCAVATION
1046	1916649.5021	6550871.7180	LIMITS OF OVEREXCAVATION
1047	1916676.1681	6550897.0343	LIMITS OF OVEREXCAVATION
1048	1916700.4483	6550886.4040	LIMITS OF OVEREXCAVATION
1049	1916725.7648	6550869.7380	LIMITS OF OVEREXCAVATION
1050	1916724.9476	6550838.2587	LIMITS OF OVEREXCAVATION
1051	1916732.7151	6550830.0544	LIMITS OF OVEREXCAVATION
1052	1916732.6577	6550828.0552	LIMITS OF OVEREXCAVATION
1053	1916640.5396	6550930.4482	LIMITS OF OVEREXCAVATION
1054	1916664.6822	6550939.9288	LIMITS OF OVEREXCAVATION
1055	1916665.4967	6550871.3026	LIMITS OF OVEREXCAVATION
1056	1916675.7528	6550881.0387	LIMITS OF OVEREXCAVATION
1057	1916700.0330	6550880.4094	LIMITS OF OVEREXCAVATION
1058	1916709.7702	6550870.1532	LIMITS OF OVEREXCAVATION
1059	1916708.9532	6550838.6836	LIMITS OF OVEREXCAVATION
1060	1916700.7262	6550830.8945	LIMITS OF OVEREXCAVATION
1061	1916672.4489	6550831.7969	LIMITS OF OVEREXCAVATION

NOTES

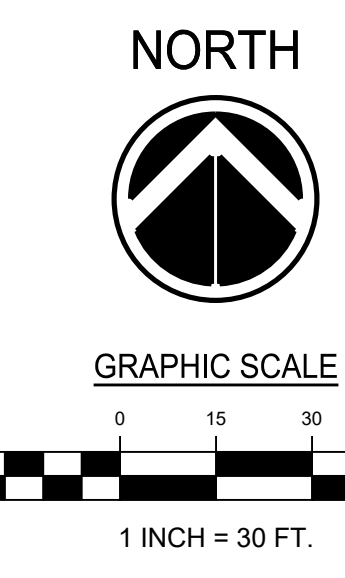
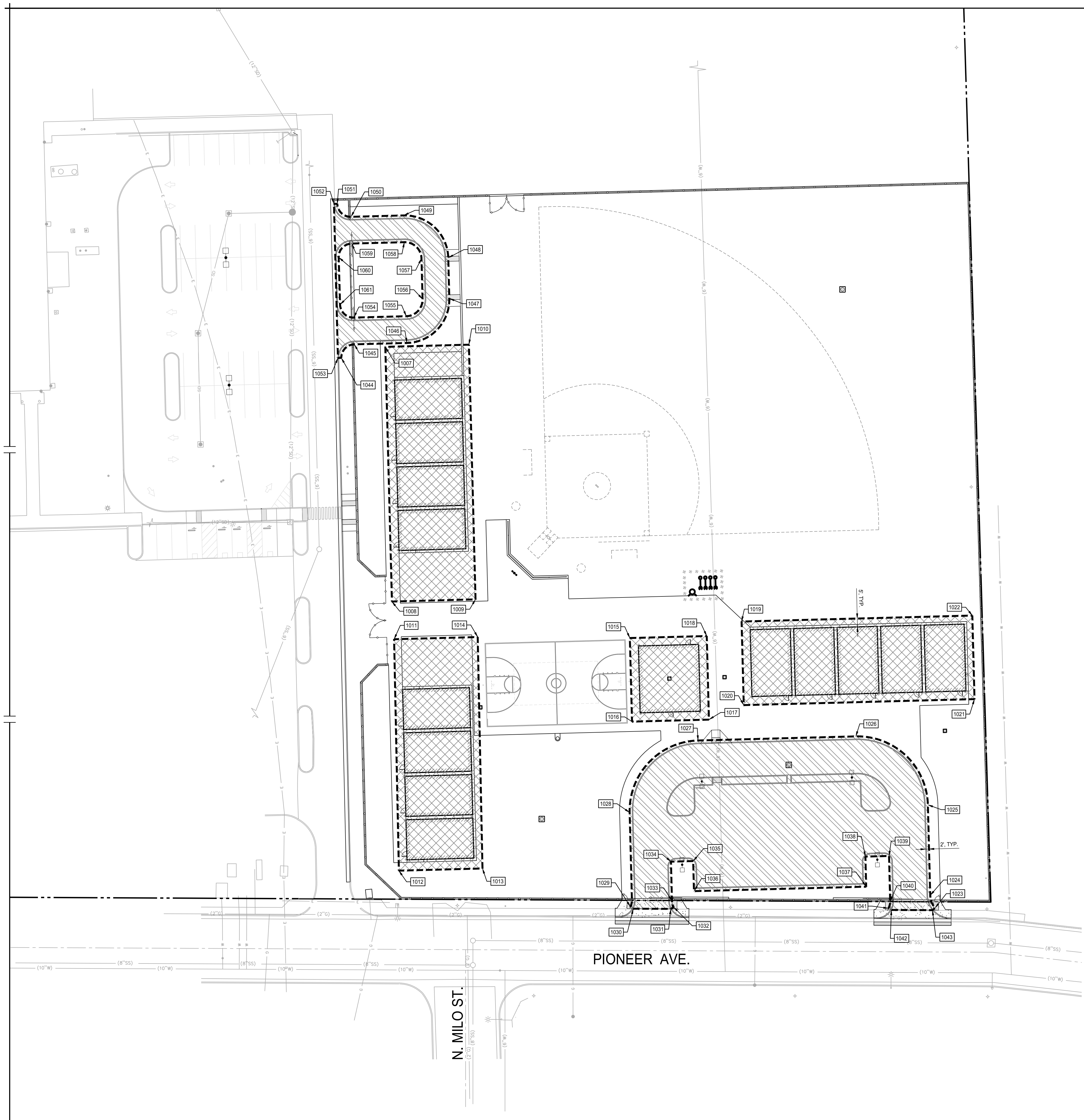
- REFER TO SHEETS C0.1 FOR BENCHMARKS, GENERAL NOTES & INFORMATION.
- REFER TO ARCHITECTURAL DRAWINGS, FOR ADDITIONAL SITE INFORMATION AND DETAILS.

OVEREXCAVATION NOTES

- PRIOR TO EARTHWORK OPERATIONS, THE AREA TO BE DEVELOPED SHALL BE STRIPPED OF VEGETATION, ORGANIC TOPSOIL, GRAVELS PAVEMENT, SLABS, CONCRETE FOOTINGS, UNDOCMENDED FILLS AND CLEARED OF SURFACE AND SUBSURFACE OBSTRUCTIONS, EXCEPT FOR ANY EXISTING UTILITIES TO REMAIN FOR SERVICING THE EXISTING BUILDING. STRIPPING TO BE APPROXIMATELY 2 TO 3 INCHES TO EXPOSE A CLEAN SOIL SURFACE.
- FOLLOWING THE STRIPPING AND CLEARING OPERATIONS AS INDICATED ABOVE, BUILDING SITES SHALL BE OVER-EXCAVATED TO 2 FEET BELOW THE EXISTING GROUND SURFACE OR ONE FOOT BELOW THE BOTTOM OF THE PROPOSED FOOTINGS, WHICHEVER IS DEEPER.
- THE BOTTOM OF OF THE EXCAVATION FOR BUILDINGS SHALL BE SCARIFIED AT LEAST 6 INCHES, UNIFORMLY MOISTURE CONDITIONED FROM 0 TO 2 PERCENT OVER THE OPTIMUM MOISTURE CONTENT AND COMPACTED TO 90 PERCENT OF THE MAXIMUM DRY DENSITY. THE OVEREXCAVATION SHOULD BE REVIEWED BY THE PROJECT GEOTECHNICAL ENGINEER.
- AFTER THE COMPLETION OF THE REQUIRED EXCAVATION, EXISTING UTILITIES, UNDERGROUND PIPES, OR SUBSTRUCTURES PRESENT BENEATH THE PROPOSED BUILDING AREA MUST BE EXCAVATED AND RELOCATED TO A POINT AT LEAST 4 FEET HORIZONTALLY FROM THE EDGE OF THE PROPOSED FOUNDATIONS, WHICH EVER DISTANCE IS GREATER.
- FOLLOWING THE STRIPPING AND CLEARING OPERATIONS AS INDICATED ABOVE, PAVEMENT AREAS MUST BE OVER-EXCAVATED TO A MINIMUM DEPTH OF 2 FEET BELOW STRIPPED GROUND SURFACE.
- THE SUBGRADE AT THE BASE OF EXCAVATIONS FOR PAVEMENT AREAS MUST BE SCARIFIED AT LEAST 6 INCHES, UNIFORMLY MOISTURE CONDITIONED FROM 0 TO 2 PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT AND COMPACTED TO 90 PERCENT OF THE MAXIMUM DRY DENSITY. THE UPPER 12" OF PAVEMENT SUBGRADE SHALL BE FURTHER COMPACTED TO 95% RELATIVE COMPACTION PER ASTM TEST METHOD D1557.
- REFER TO THE PROJECT SPECIFICATIONS FOR ENGINEERED FILL, REQUIRED MOISTURE CONDITIONS AND ADDITIONAL BUILDING PAD PREPARATION REQUIREMENTS.
- COORDINATES SHOWN ON THIS DRAWING ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE 4-NAD 83, AS DETERMINED BY GPS OBSERVATIONS RELATIVE TO THE CALIFORNIA SURVEYING AND DRAFTING, INC. VIRTUAL SURVEY NETWORK, EPOCH DATE 2011.

LEGEND

- OVER-EXCAVATION AT BUILDINGS, SEE OVER-EXCAVATION NOTE NO. 2, THIS SHEET
- OVER-EXCAVATION AT PAVEMENT AREAS, SEE OVER-EXCAVATION NOTE NO. 5, THIS SHEET



OVEREXCAVATION

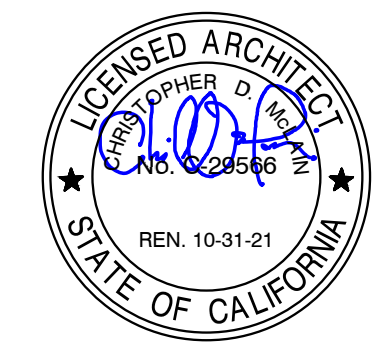
CONSULTANT

LANE ENGINEERS INC.
CIVIL • STRUCTURAL • SURVEYING
979 N. BLACKSTONE
TULARE, CALIFORNIA 93274
(559) 688-5263

BENCHMARKS

CITY BENCHMARK NO. 13: DISK WITH CENTER MARK STAMPED RCE 24675. ALSO THE NORTHEAST CORNER OF SECTION 22, T. 21 S., R. 27 E. M.D.B. & M. PER AN UNRECORDED SHEET OF LS 2165.
 ELEV = 432.261 (NAVD 1988).
 TBM No. 1: CHISELED 'X' IN TOP OF CURB ON THE NORTH SIDE OF PIONEER AVE., 29 1/2 WEST OF THE EAST PROPERTY LINE ON THE NORTH SIDE OF PIONEER AVE.
 ELEV = 435.93 (NAVD 1988).
 TBM No. 2: CHISELED 'X' IN TOP OF CURB, 10 1/2 WEST OF THE NORTHWEST CURB RETURN AT THE FIRE ROAD ENTRANCE.
 ELEV = 434.12 (NAVD 1988).

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DATE: 7-10-19

VERTICAL DATUM NOTE:

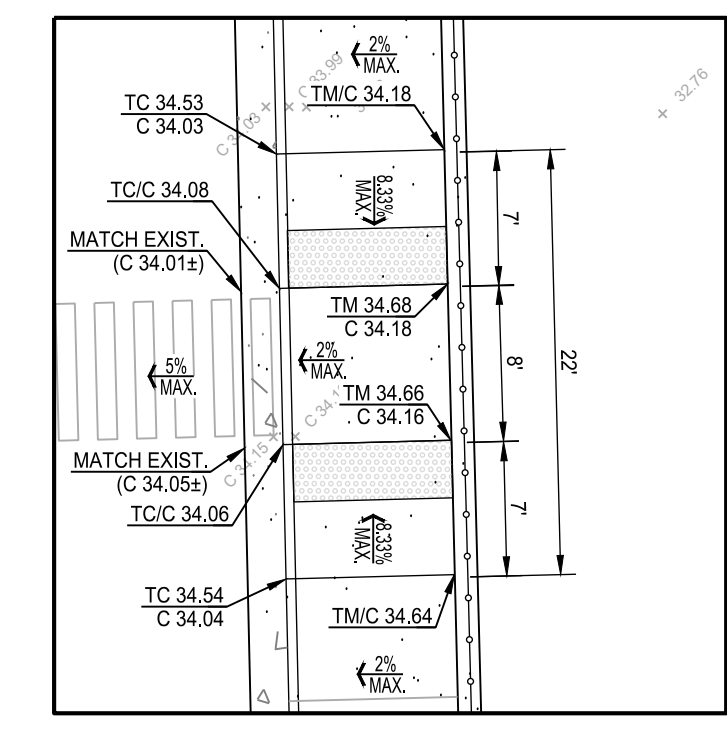
ADD 400 FEET TO ELEVATIONS SHOWN ON PLAN TO OBTAIN DATUM BASED ON NORTH AMERICAN VERTICAL DATUM 1988.

NOTES

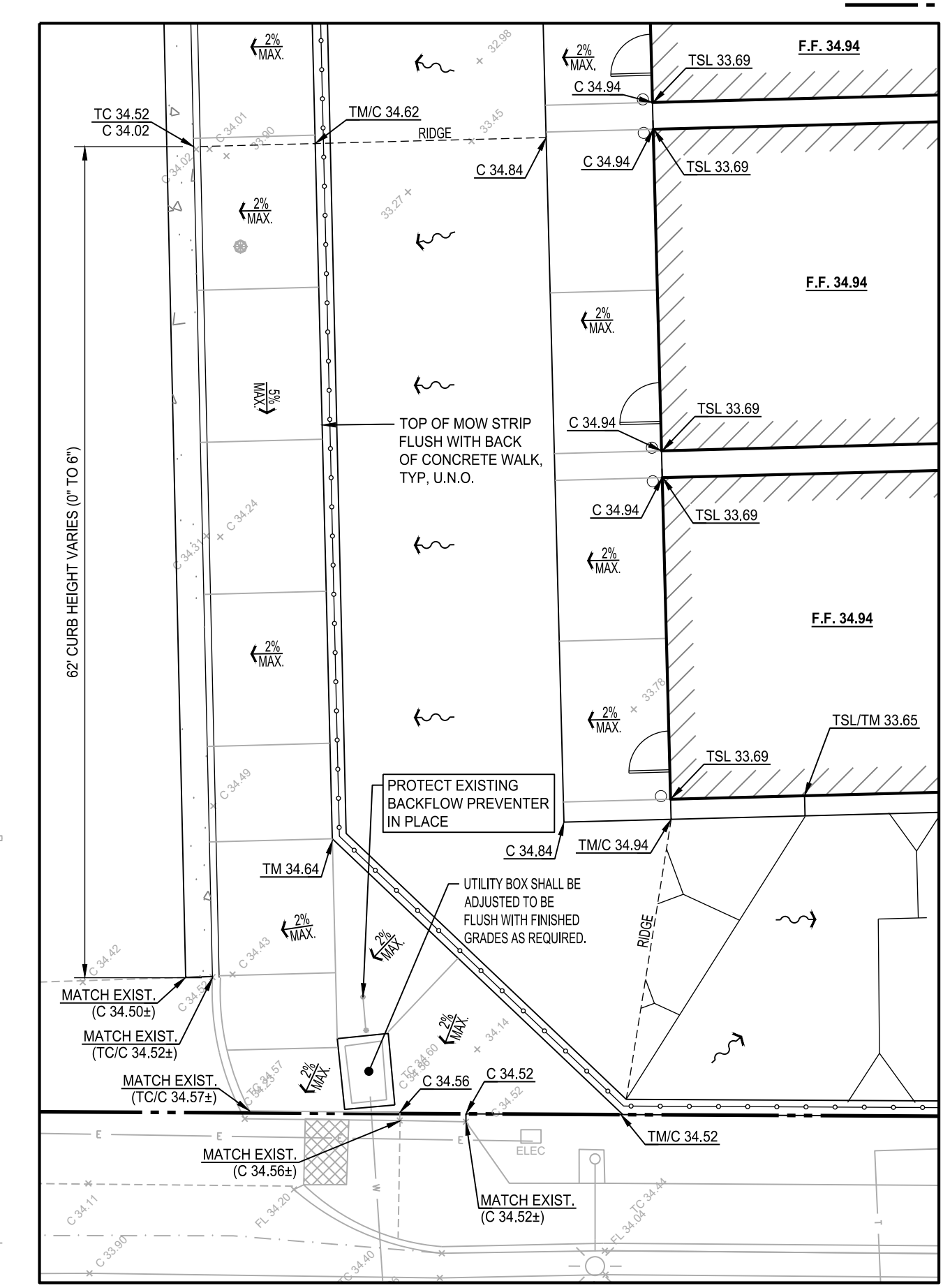
- REFER TO SHEETS C0.1 FOR BENCHMARKS, GENERAL NOTES & INFORMATION.
- UNLESS SHOWN OR NOTED OTHERWISE, WHERE FINISH GRADE ABUTS CONCRETE PAVEMENTS/BACK OF CURBS, FINISH GRADE ELEVATION SHALL BE 1/2 INCH LOWER THAN ADJACENT CONCRETE ELEVATION IN SHRUB AREAS AND 1/4 INCH LOWER IN TURF AREAS.
- FINISHED CONCRETE PAVEMENT ELEVATION IS 0.5' BELOW TOP OF BARRIER/LANDSCAPE CURB IN THE PARKING LOT AND DRIVE AREAS UNLESS SHOWN OR NOTED OTHERWISE ON THE DRAWINGS.
- CROSS SLOPE AT ALL PEDESTRIAN WALKS AND SIDEWALKS SHALL NOT EXCEED 2.0%.
- FINISHED PAVEMENT SLOPES AT ALL ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2.0% IN ANY DIRECTION.
- EXTERIOR CONCRETE SHALL BE WARPED TO BE FLUSH WITH FINISHED FLOOR AT ALL EXTERIOR DOORS.
- FIELD VERIFY ALL ELEVATIONS SHOWN WHERE PROPOSED IMPROVEMENTS ABUT EXISTING IMPROVEMENTS. IMMEDIATELY NOTIFY PROJECT ARCHITECT OF ANY DISCREPANCIES.
- REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL SITE INFORMATION AND DETAILS.
- REFER TO SHEETS C4.1 FOR STORM DRAIN PIPING AND DRAIN INLET INFORMATION.
- REFER TO SHEETS C5.1 FOR OFFSITE IMPROVEMENTS.
- ALL EXISTING VALVE BOXES AND MANHOLES TO REMAIN SHALL BE ADJUSTED AS REQUIRED SO THAT THE TOP OF COVERS ARE FLUSH WITH FINISH GRADES.

LEGEND

- ON-SITE CONCRETE SIDEWALK/FLATWORK OR OTHER CONCRETE IMPROVEMENTS
- RIGHT OF WAY/PROPERTY LINE



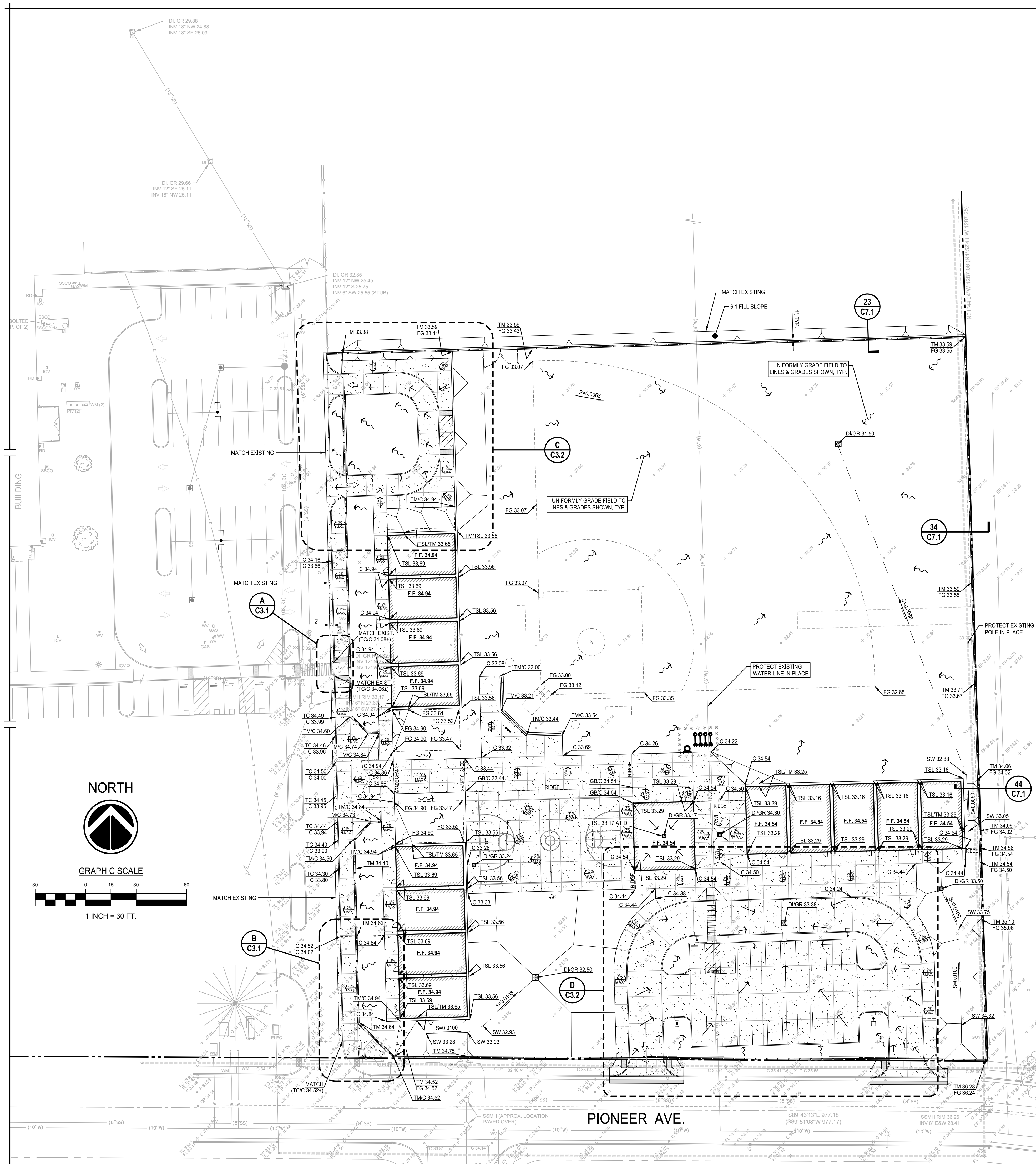
A ACCESS. RAMP DETAIL
 SCALE: 1"=10'



B ENLARGED GRADING PLAN
 SCALE: 1"=10'



GRADING PLAN



PIONEER AVE.

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 914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257

REVISIONS

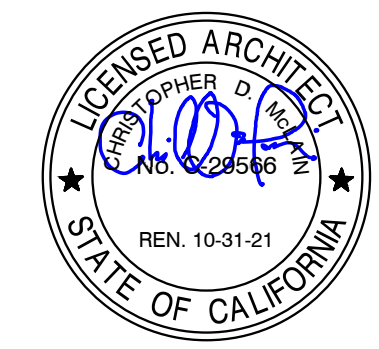
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 INGENUITY
 MCLAIN BARENG MORRELLI
 www.mangini.us
 (959) 627-0530 Office
 4320 West Mineral King Avenue
 Visalia, California 93293

TITLE
 GRADING PLAN
C3.1
 PROJECT 1901



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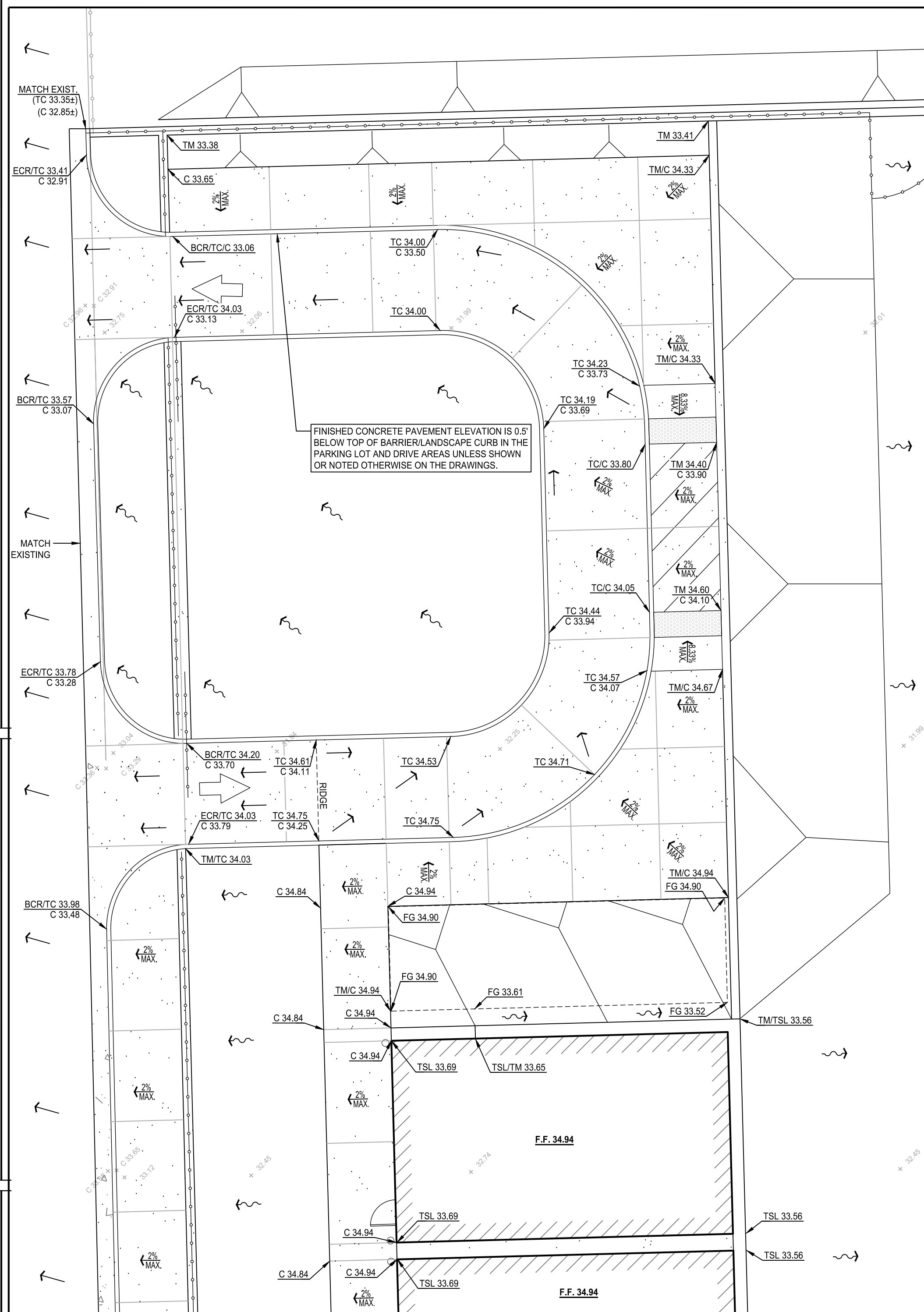
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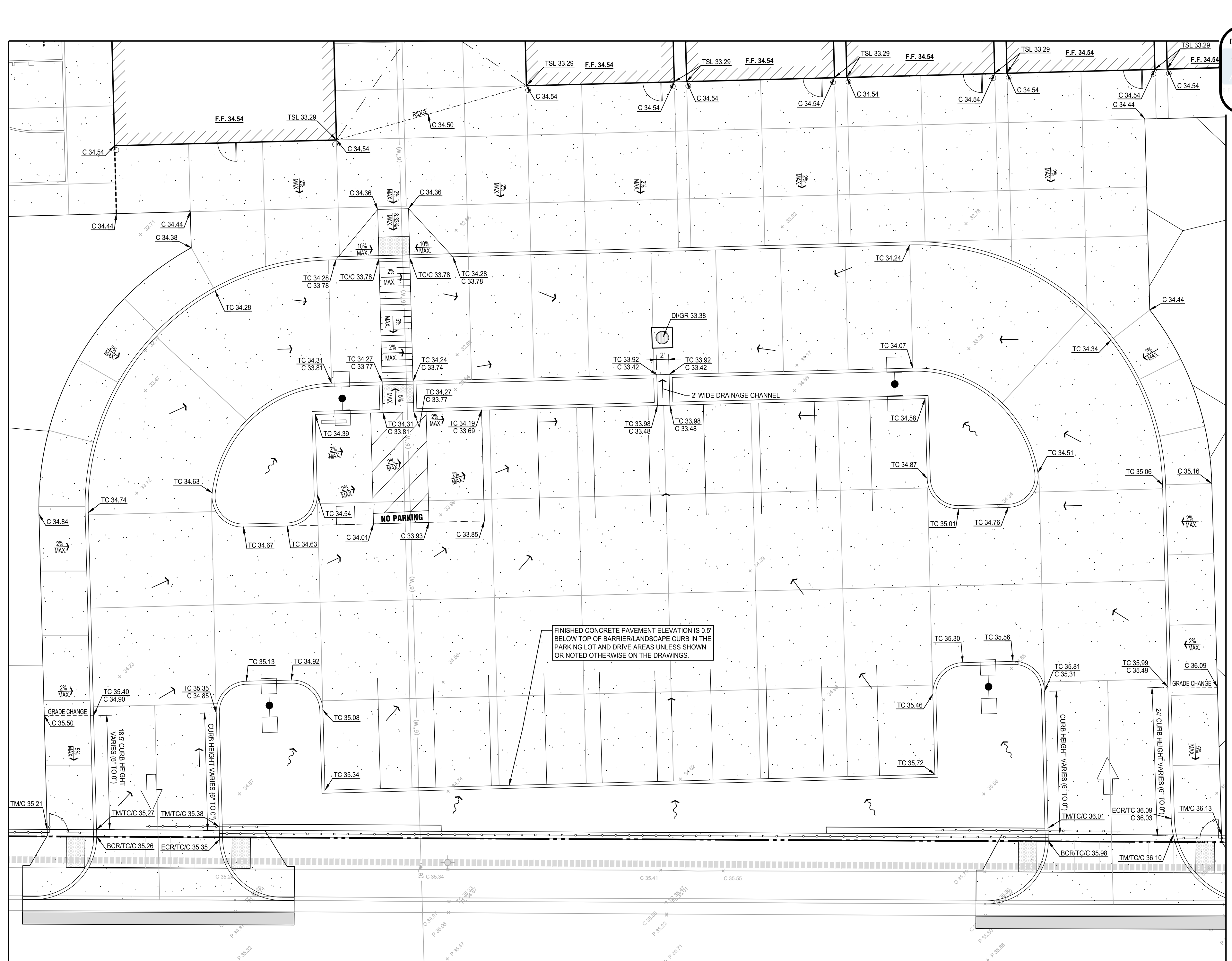
TITLE
ENLARGED GRADING DETAILS

C3.2

PROJECT 1901



C ENLARGED BUS LOOP
SCALE: 1"=10'
NORTH



D ACCESS. RAMP DETAIL
SCALE: 1"=10'
NORTH

BENCHMARKS

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ELEV = 432.261 (NAVD 1988).

TBM No. 1: CHISELED 'X' IN TOP OF CURB ON THE NORTH SIDE OF PIONEER AVE., 22' WEST OF THE EAST PROPERTY LINE ON THE NORTH SIDE OF PIONEER AVE.
ELEV = 435.93 (NAVD 1988).

TBM No. 2: CHISELED 'X' IN TOP OF CURB, 10' WEST OF THE NORTHWEST CURB RETURN AT THE FIRE ROAD ENTRANCE.
ELEV = 434.12 (NAVD 1988).

VERTICAL DATUM NOTE:
ADD 400 FEET TO ELEVATIONS SHOWN ON PLAN TO OBTAIN DATUM BASED ON NORTH AMERICAN VERTICAL DATUM 1988.

NOTES

- REFER TO SHEETS C0.1 FOR BENCHMARKS, GENERAL NOTES & INFORMATION.
- UNLESS SHOWN OR NOTED OTHERWISE, WHERE FINISH GRADE ABUTS CONCRETE PAVEMENTS/BACK OF CURBS, FINISH GRADE ELEVATION SHALL BE 1/2 INCH LOWER THAN ADJACENT CONCRETE ELEVATION IN SHRUB AREAS AND 1/4 INCH LOWER IN TURF AREAS.
- FINISHED CONCRETE PAVEMENT ELEVATION IS 0.5' BELOW TOP OF BARRIER/LANDSCAPE CURB IN THE PARKING LOT AND DRIVE AREAS UNLESS SHOWN OR NOTED OTHERWISE ON THE DRAWINGS.
- CROSS SLOPE AT ALL PEDESTRIAN WALKS AND SIDEWALKS SHALL NOT EXCEED 2.0%.
- FINISHED PAVEMENT SLOPES AT ALL ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2.0% IN ANY DIRECTION.
- EXTERIOR CONCRETE SHALL BE WARPED TO BE FLUSH WITH FINISHED FLOOR AT ALL EXTERIOR DOORS.
- FIELD VERIFY ALL ELEVATIONS SHOWN WHERE PROPOSED IMPROVEMENTS ABUT EXISTING IMPROVEMENTS. IMMEDIATELY NOTIFY PROJECT ARCHITECT OF ANY DISCREPANCIES.
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- REFER TO SHEETS C4.1 FOR STORM DRAIN PIPING AND DRAIN INLET INFORMATION.
- REFER TO SHEETS C5.1 FOR OFFSITE IMPROVEMENTS.
- ALL EXISTING VALVE BOXES AND MANHOLES TO REMAIN SHALL BE ADJUSTED AS REQUIRED SO THAT THE TOP OF COVERS ARE FLUSH WITH FINISH GRADES.

LEGEND

- ON-SITE CONCRETE SIDEWALK/FLATWORK OR OTHER CONCRETE IMPROVEMENTS
- RIGHT OF WAY/PROPERTY LINE

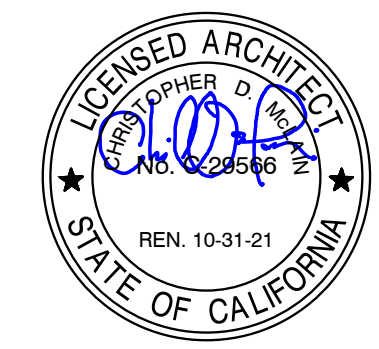
ENLARGED GRADING DETAILS



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- NOTES**
- REFER TO SHEETS C0.1 FOR BENCHMARKS, GENERAL NOTES & INFORMATION.
 - SEE ARCHITECTURAL DWGS. FOR ADDITIONAL SITE INFORMATION AND DETAILS. SEE PLUMBING DRAWINGS FOR ADDITIONAL WET UTILITY PIPING.
 - ALL STORM DRAIN PIPING AND LATERALS SHALL HAVE A MINIMUM OF 3" OF COVER.
 - EXTEND ROOF DRAIN AND DOWNSPOUT LEADERS TO BUILDINGS AS SHOWN. CONTRACTOR SHALL VERIFY ALL DOWNSPOUT LOCATIONS WITH ARCHITECTURAL DRAWINGS.
 - ALL TRENCHES ON-SITE SHALL BE BACKFILLED IN ACCORDANCE WITH DETAIL 13C7.1.
 - CONTRACTOR SHALL VERIFY THAT NO CONFLICTS OCCUR BETWEEN STORM DRAIN PIPE ALIGNMENTS AND CANOPY FOOTINGS.
 - DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, PIPE SLOPES, FITTINGS, ETC., WHICH MAY BE REQUIRED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THESE DRAWINGS AND FURNISH ALL FITTINGS, ETC. NECESSARY TO COMPLETE A FULLY FUNCTIONAL PIPING SYSTEM AND AVOID ANY CONFLICTS WITH OTHER UTILITIES.

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CONSTRUCTION KEYNOTES (SHEET C4.1 ONLY)

- 4"Ø STORM DRAIN LATERAL TO ROOF DOWNSPOUT LEADERS. LATERALS SHALL HAVE A MIN. SLOPE OF 2.0% AND A CLEANOUT PER KEYNOTE NO. 2. SEE ARCHITECTURAL DETAIL 11SD6 FOR CONNECTION TO DOWNSPOUT.
- FURNISH AND INSTALL CLEANOUT TO GRADE. SEE DETAIL 24C7.1.
- FURNISH AND INSTALL AREA DRAIN INLET. SEE DETAIL 43C7.1.
- CONNECT TO ROOF DOWNSPOUTS. SEE ARCHITECTURAL DETAIL 9SD6 FOR MORE INFORMATION.
- FURNISH AND INSTALL CHRISTY V64 AREA DRAIN BOX WITH ADA COMPLIANT GRATE. SEE DETAIL 41C7.1.
- SAWCUT CONCRETE PAVEMENT TO A CLEAN VERTICAL EDGE.
SHOWN THUS:
- TRENCH BACKFILL AND CONCRETE PAVEMENT REPAIR. SEE DETAIL 13C7.1
SHOWN THUS:
- CONSTRUCT STORM DRAIN MANHOLE. SEE DETAIL 22C7.1, 32C7.1 & 33C7.1.
- CAP 4" S.D. PIPE FOR FUTURE ROOF DOWNSPOUT CONNECTION.
- FURNISH AND INSTALL CHRISTY V64 AREA DRAIN BOX WITH CAST IRON GRATE. SEE DETAIL 51C7.1.

LEGEND

- ON-SITE CONCRETE SIDEWALK/FLATWORK OR OTHER CONCRETE IMPROVEMENTS
- RIGHT OF WAY/PROPERTY LINE

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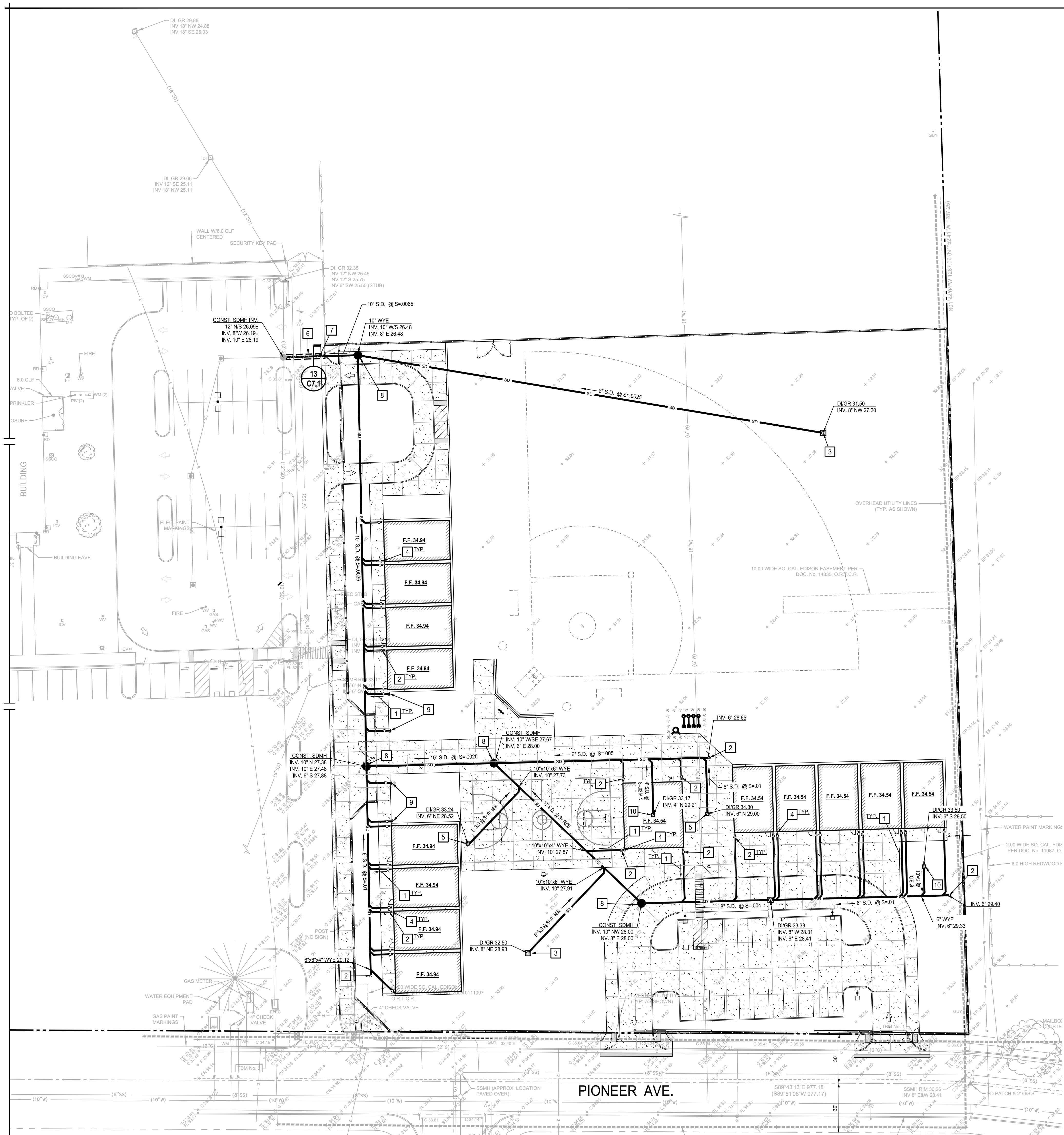
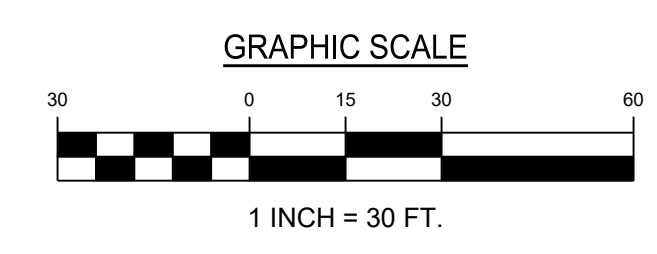
TITLE
STORM DRAIN PLAN

C4.1

PROJECT 1901



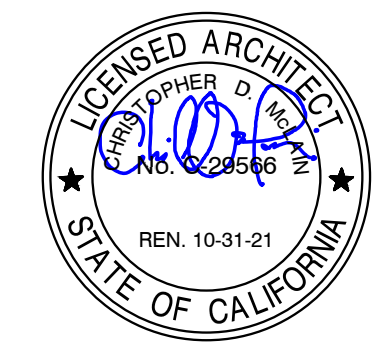
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OFFSITE DEMOLITION NOTES

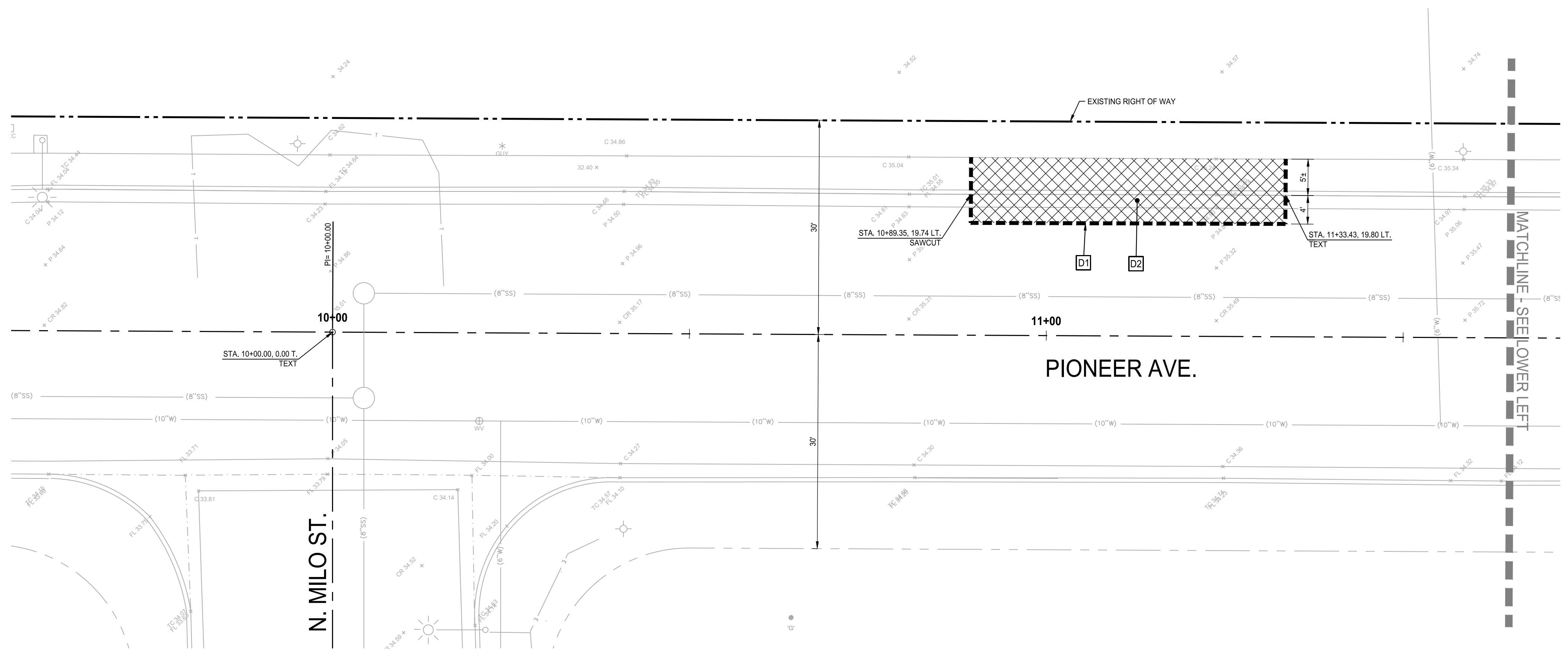
- ALL WORK AND MATERIALS WITHIN CITY RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE CITY OF PORTERVILLE IMPROVEMENT STANDARDS. AN ENCROACHMENT PERMIT SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO DOING ANY WORK WITHIN THE CITY RIGHT-OF-WAY. SIGNING AND FLAGGING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE CURRENT AMENDED VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR USE IN CALIFORNIA.
- TEXT FROM THE TOPOGRAPHIC SURVEY ARE SHOWN FADED ON THIS DRAWING.
- ALL IMPROVEMENTS NOT NOTED FOR SALVAGE, REMOVAL, OR RELOCATION SHALL BE PROTECTED IN PLACE.
- ALL ITEMS NOTED TO BE SALVAGED SHALL BE REMOVED WITHOUT DAMAGING AND STORED ON THE OWNER'S PROPERTY IN A LOCATION DESIGNATED BY THE OWNER UNTIL THEY ARE RE-INSTALLED AS SHOWN ON THESE PLANS.
- ALL HOLES AND TRENCHES CREATED FROM DEMOLITION AND REMOVAL SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE REQUIREMENTS NOTED ON THESE PLANS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL ITEMS NOTED FOR REMOVAL WITH THE OWNER. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY DIMENSIONS FOR DEMOLITION.
- ANY EXISTING SURFACE STRUCTURES OR IMPROVEMENTS (E.G. UTILITY BOXES, METER BOXES, WATER VALVES, TRASH BINS, BENCHES, SIGNS, PAVEMENT STRIPING, STREET LIGHTS, IRRIGATION SYSTEMS ETC.) THAT ARE DAMAGED OR TEMPORARILY REMOVED DURING DEMOLITION SHALL BE REPLACED IN KIND, U.N.O.
- ANY UTILITY BOXES, VALVES AND MANHOLES NOT NOTED TO BE REMOVED SHALL BE ADJUSTED AS REQUIRED TO FINISHED GRADES, TYP.
- ANY EXISTING REGULATORY OR WARNING SIGNS REMOVED FOR CONSTRUCTION SHALL BE REPLACED WITH TEMPORARY SIGNS AS NECESSARY TO SAFELY DIRECT TRAFFIC UNTIL THE NEW PERMANENT SIGNS ARE INSTALLED IN THEIR PERMANENT LOCATIONS PER THESE PLANS. TEMPORARY SIGNAGE MUST BE APPROVED BY THE PROJECT ARCHITECT.
- CONTRACTOR SHALL VERIFY WITH OWNER PRIOR TO REMOVING OR RELOCATING ANY EXISTING STRUCTURES SHOWN ON THIS PLAN.
- REMOVAL OF ANY IMPROVEMENTS FROM THE SITE SHALL BE DISPOSED OF IN A PROPER MANNER PER FEDERAL, STATE, AND OR LOCAL LAWS AND ORDINANCES.
- ANY STRIPING BEING REMOVED SHALL BE COMPLETELY REMOVED BY WET SANDBLASTING. COATING PATCHES OVER EXISTING STRIPING IS NOT PERMITTED.

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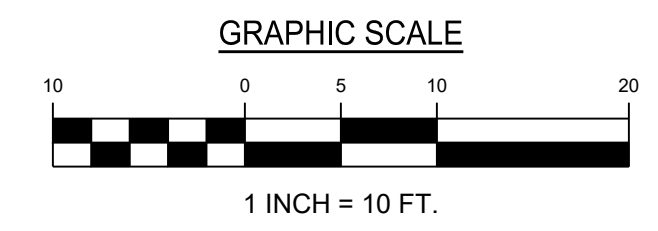
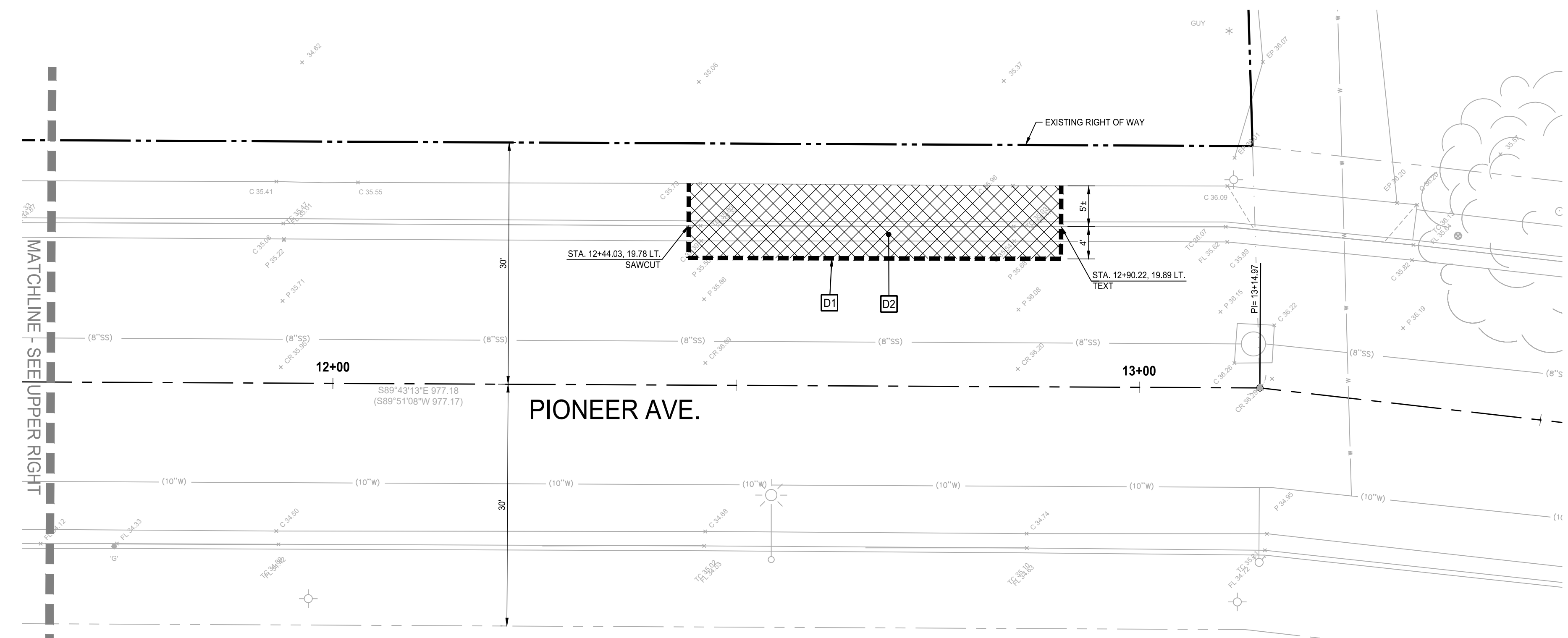


LEGEND

--- RIGHT OF WAY

DEMOLITION KEYNOTES (THIS SHEET ONLY)

- D1** SAWCUT EDGE CONCRETE/ASPHALT TO A NEAT VERTICAL EDGE FOR CONCRETE REMOVAL.
SAWCUT LINE SHOWN THIS: - - - - -
- D2** UNLESS NOTED OTHERWISE, DEMOLISH AND REMOVE ALL EXISTING SURFACE SITE IMPROVEMENTS (CONCRETE, ASPHALT PAVEMENT, CURBS, GUTTERS ETC.) WITHIN DEMOLITION LIMITS.
SHOWN THIS: [Hatched Pattern]



OFFSITE DEMOLITION



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(559) 627-0530 Office
(559) 627-1260 Fax

TITLE
OFFSITE DEMOLITION

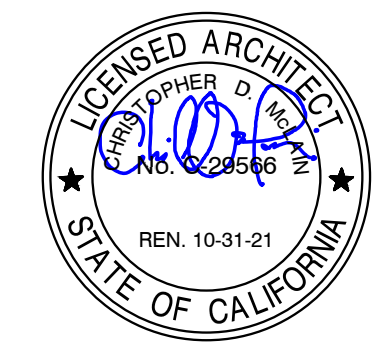
CD5.1

PROJECT **1901**

NOTES

1. FIELD VERIFY ALL ELEVATIONS SHOWN WHERE PROPOSED IMPROVEMENTS ABUT EXISTING IMPROVEMENTS. IMMEDIATELY NOTIFY PROJECT ARCHITECT OF ANY DISCREPANCIES.
2. SEE SHEETS CD.1 FOR OFF-SITE DEMOLITION.
3. ADJUST ALL EXISTING MANHOLES, GATE VALVES, UTILITY BOXES, AND WATER METERS TO BE FLUSH WITH FINISH GRADES.
4. ALL WORK AND MATERIALS WITHIN THE STREET RIGHTS OF WAY SHALL CONFORM TO CITY OF PORTERVILLE STANDARDS AND SPECIFICATIONS.

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BENCHMARKS

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VERTICAL DATUM NOTE:

1. ADD 400 FEET TO ELEVATIONS SHOWN ON PLAN TO OBTAIN DATUM BASED ON NORTH AMERICAN VERTICAL DATUM 1988.

LEGEND

- RIGHT OF WAY
- ASPHALT CONCRETE PAVEMENT REPAIR
- NEW CONCRETE SIDEWALK/FLATWORK

CONSTRUCTION KEYNOTES (THIS SHEET ONLY)

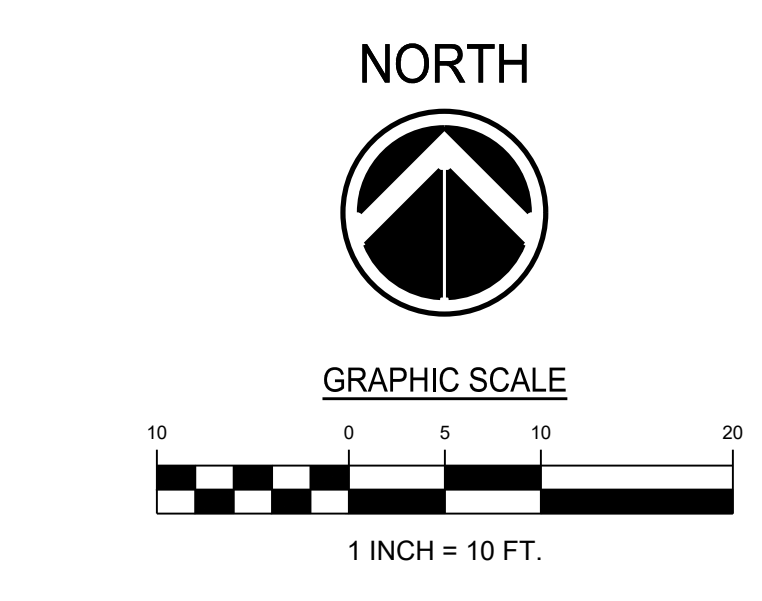
- 1 CONSTRUCT CONCRETE SIDEWALK PER CITY STANDARD DETAIL C-6. SEE SHEET C7.2.
- 2 RE-CONSTRUCT CONCRETE CURB AND GUTTER PER CITY STANDARD DETAIL C-1. SEE SHEET C7.2.
- 3 CONSTRUCT COMMERCIAL / OFFICE DRIVE APPROACH WITH 5' SIDEWALK SIMILAR TO CITY STANDARD DETAIL C-20. SEE SHEET C7.2.
- 4 FURNISH & INSTALL DETECTABLE WARNING SURFACE PER CITY STANDARD DETAIL C-15. SEE SHEET C7.2.
- 5 CONSTRUCT ASPHALT CONCRETE PAVEMENT PATCH SIMILAR TO CITY STANDARD DETAIL P-10. SEE SHEET C7.2.
- 6 CONSTRUCT WEAKENED PLANE JOINT PER CITY STANDARD DETAIL C-23. SEE SHEET C7.2.

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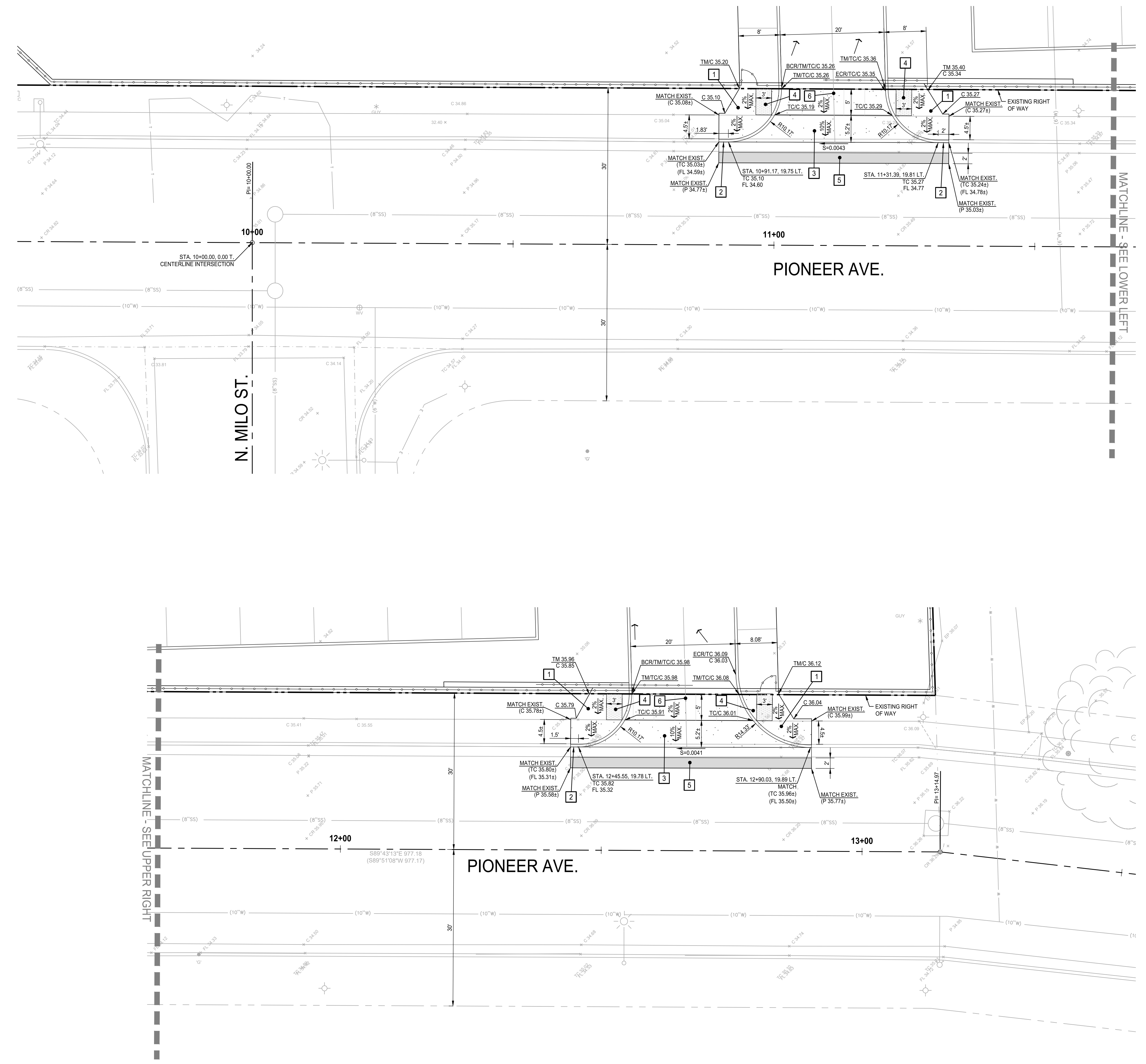
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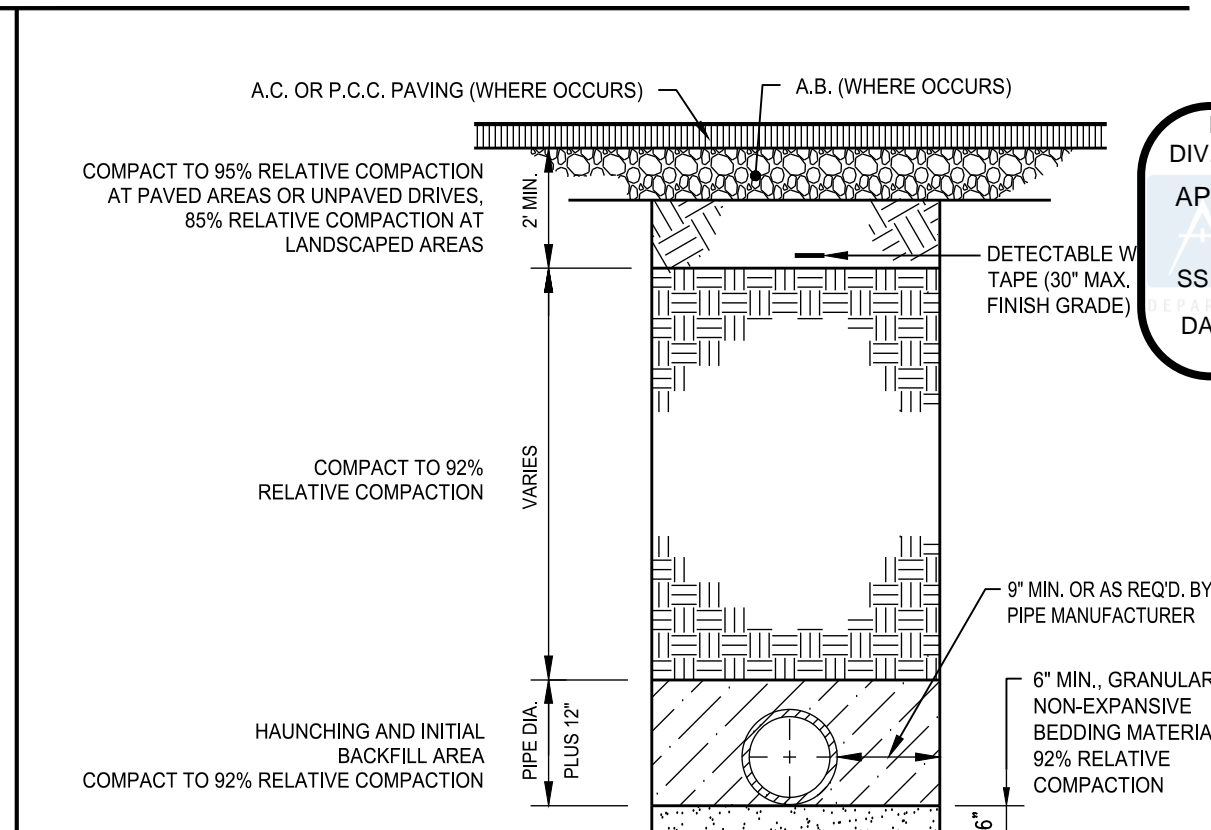
TITLE
OFFSITE IMPROVEMENTS
C5.1
PROJECT **1901**



OFFSITE IMPROVEMENTS

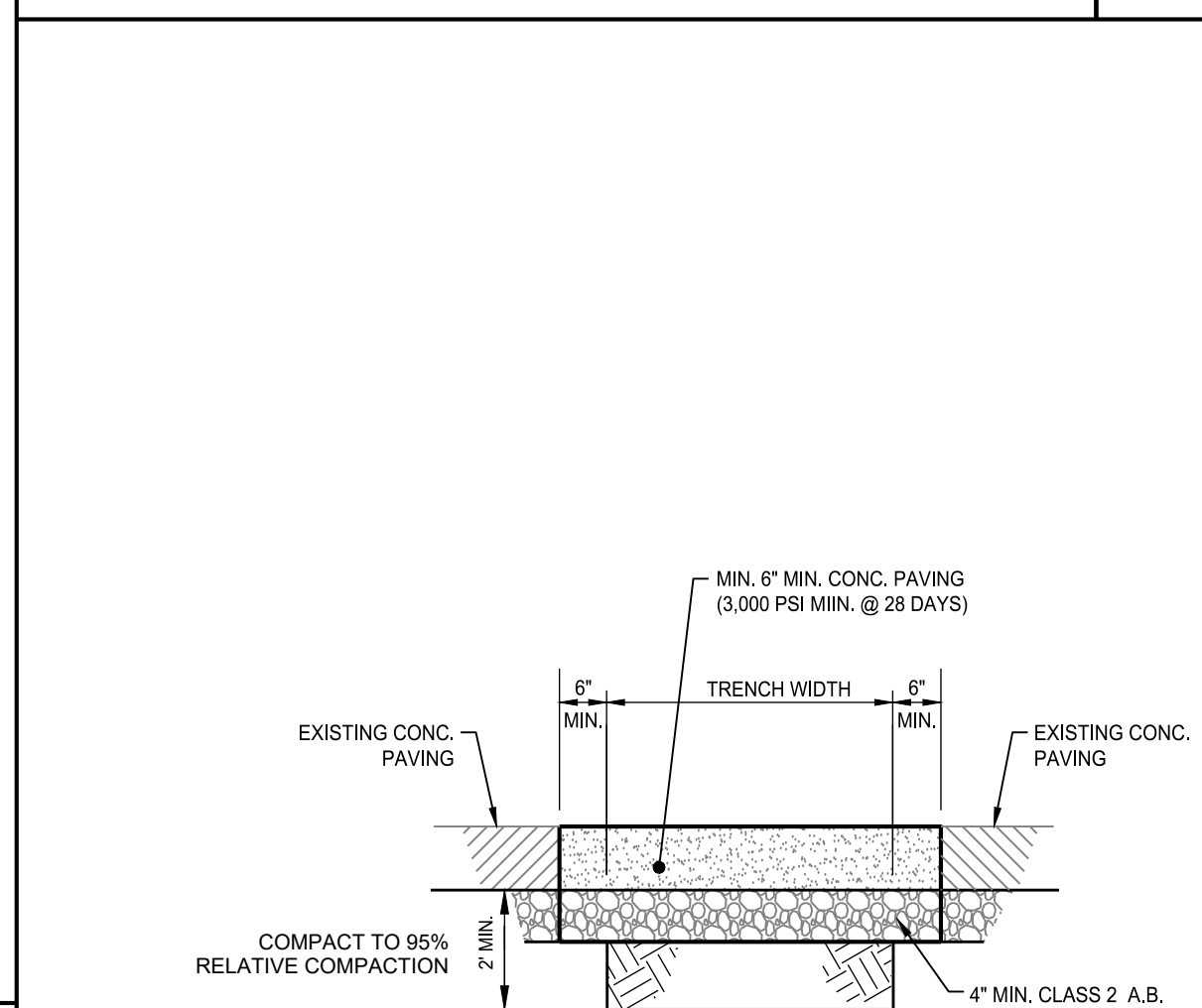
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TULARE, CALIFORNIA 93274
(559) 688-5263



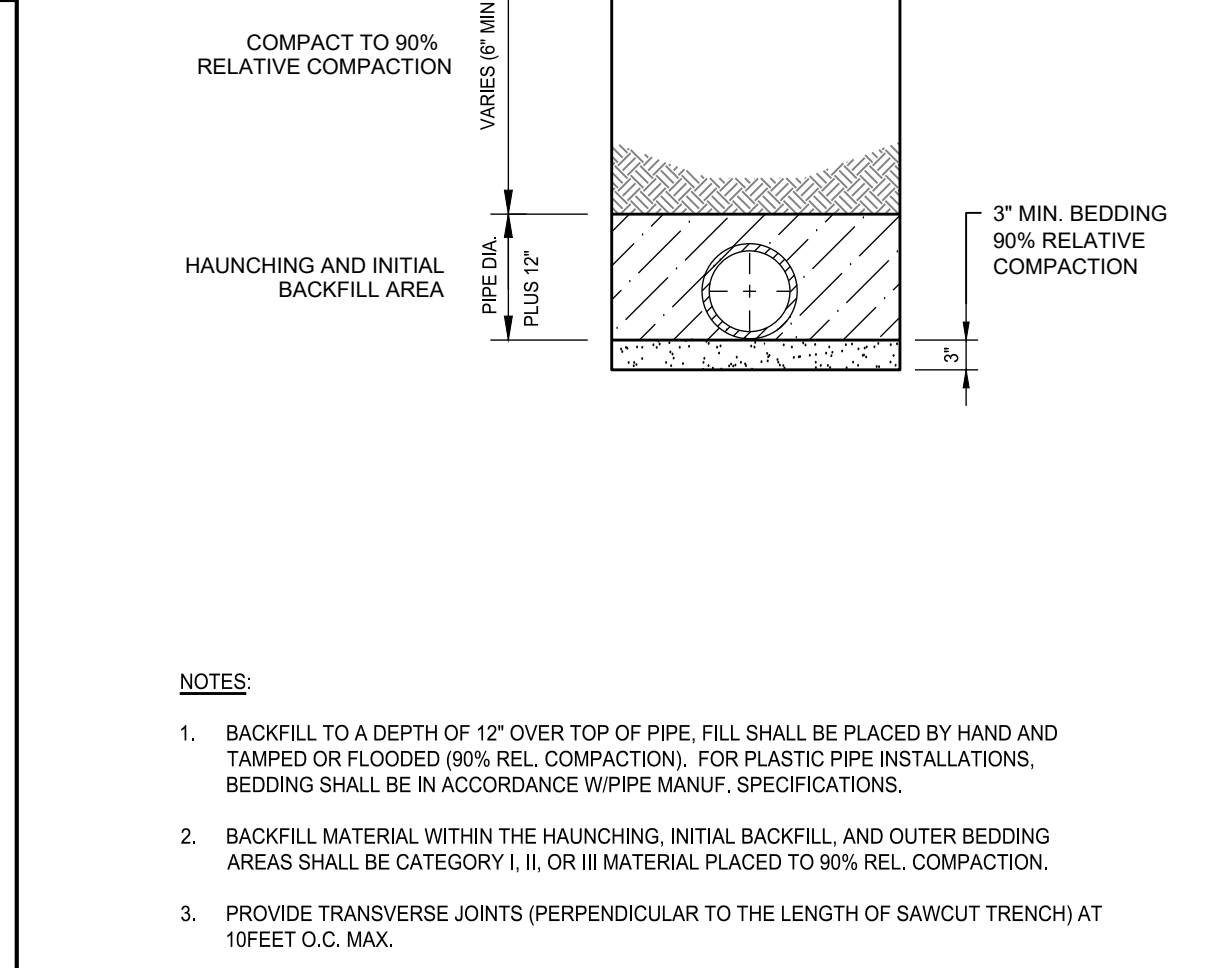


NOTES
1. BACKFILL TO A DEPTH OF 12" OVER TOP OF PIPE. FILL SHALL BE PLACED BY HAND AND TAMPED OR AS PER PIPE MANUFACTURER'S SPECIFICATIONS. FOR PLASTIC PIPE INSTALLATIONS, BEDDING SHALL BE IN ACCORDANCE WITH PIPE MANUFACTURER SPECIFICATIONS.
2. BACKFILL MATERIAL WITHIN THE HAUNCHING, INITIAL BACKFILL, AND OUTER BEDDING AREAS SHALL BE CATEGORY I, II, OR III MATERIAL PLACED TO 90% REL. COMPACTION.

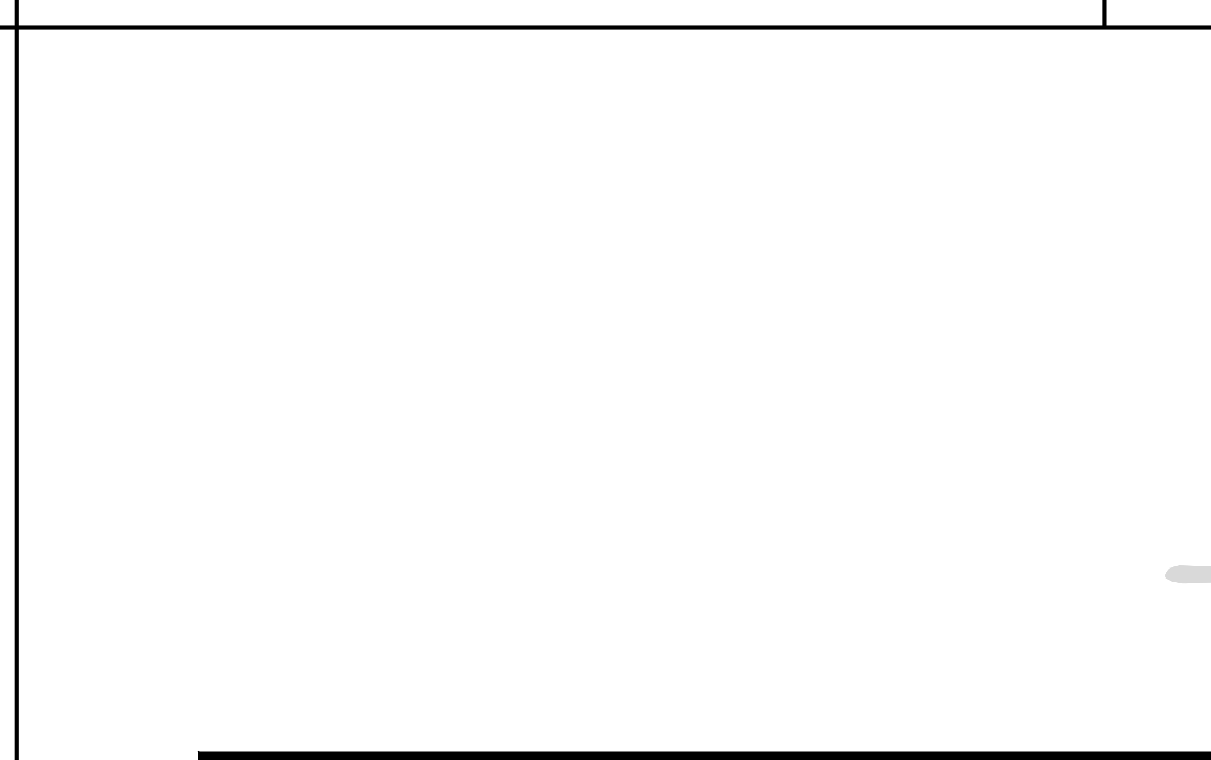
TRENCH BACKFILL AND PAVING NO SCALE 11



TRENCH BACKFILL AND PAVING NO SCALE 11



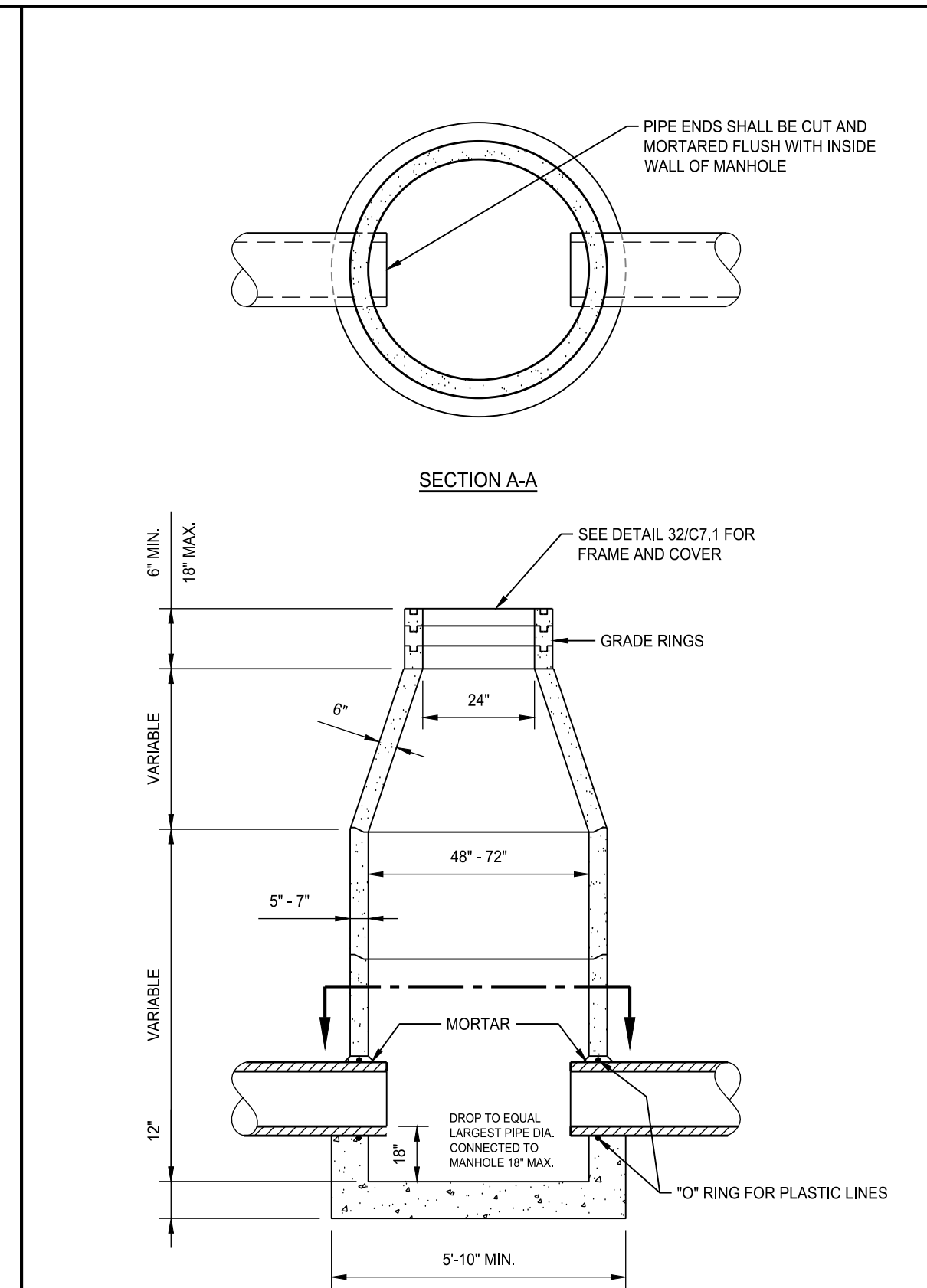
FILL SLOPE BEHIND MOW STRIP NO SCALE 23



REPAIR AT CONCRETE PAVING NO SCALE 13

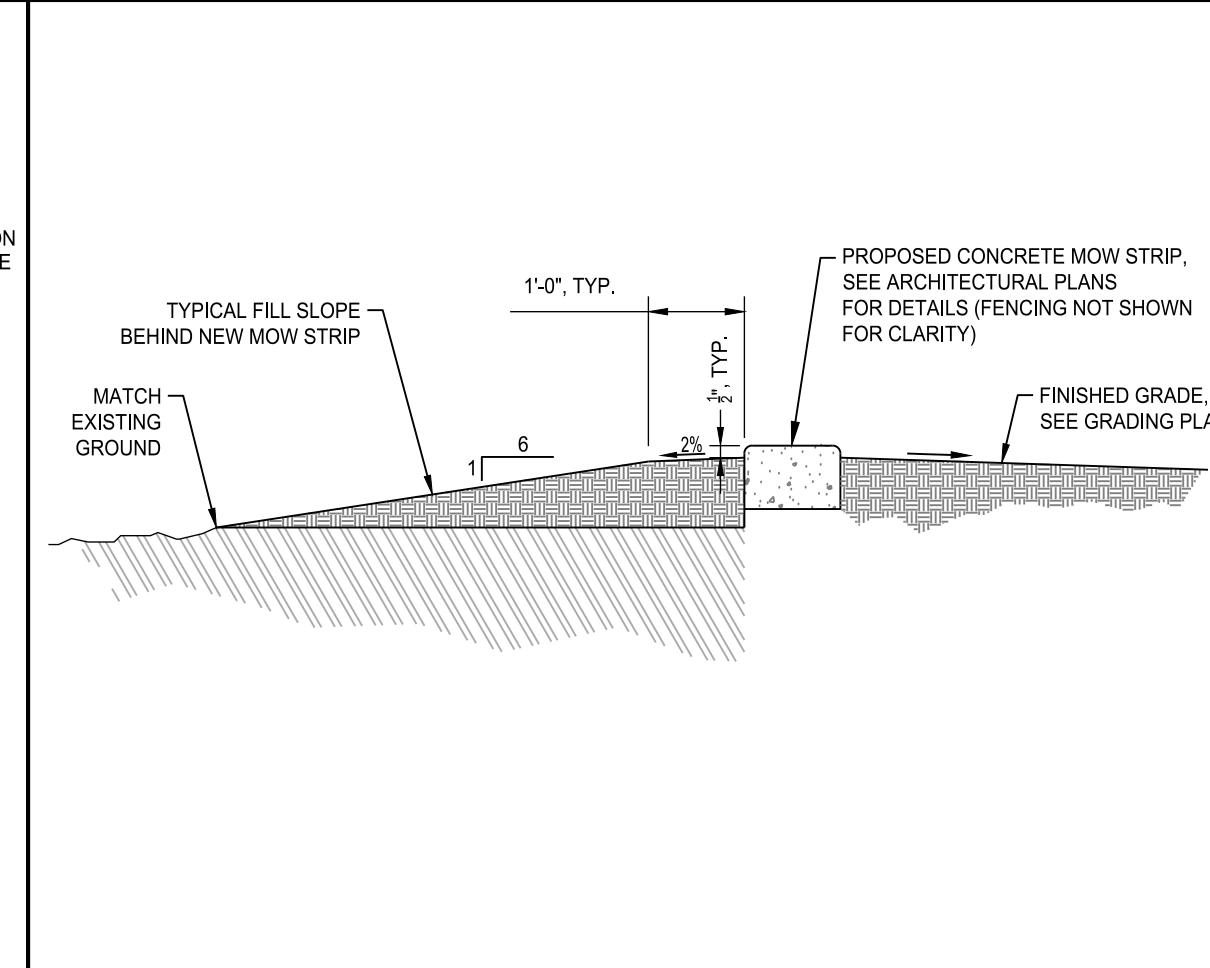
REGISTERED PROFESSIONAL ENGINEER
W. VANG
C.E. 73146
02/06/2020
CIVIL
STATE OF CALIFORNIA

CONSULTANT
LANE ENGINEERS INC.
CIVIL • STRUCTURAL • SURVEYING
979 N. BLACKSTONE
TULARE, CALIFORNIA 93274
(559) 688-5263

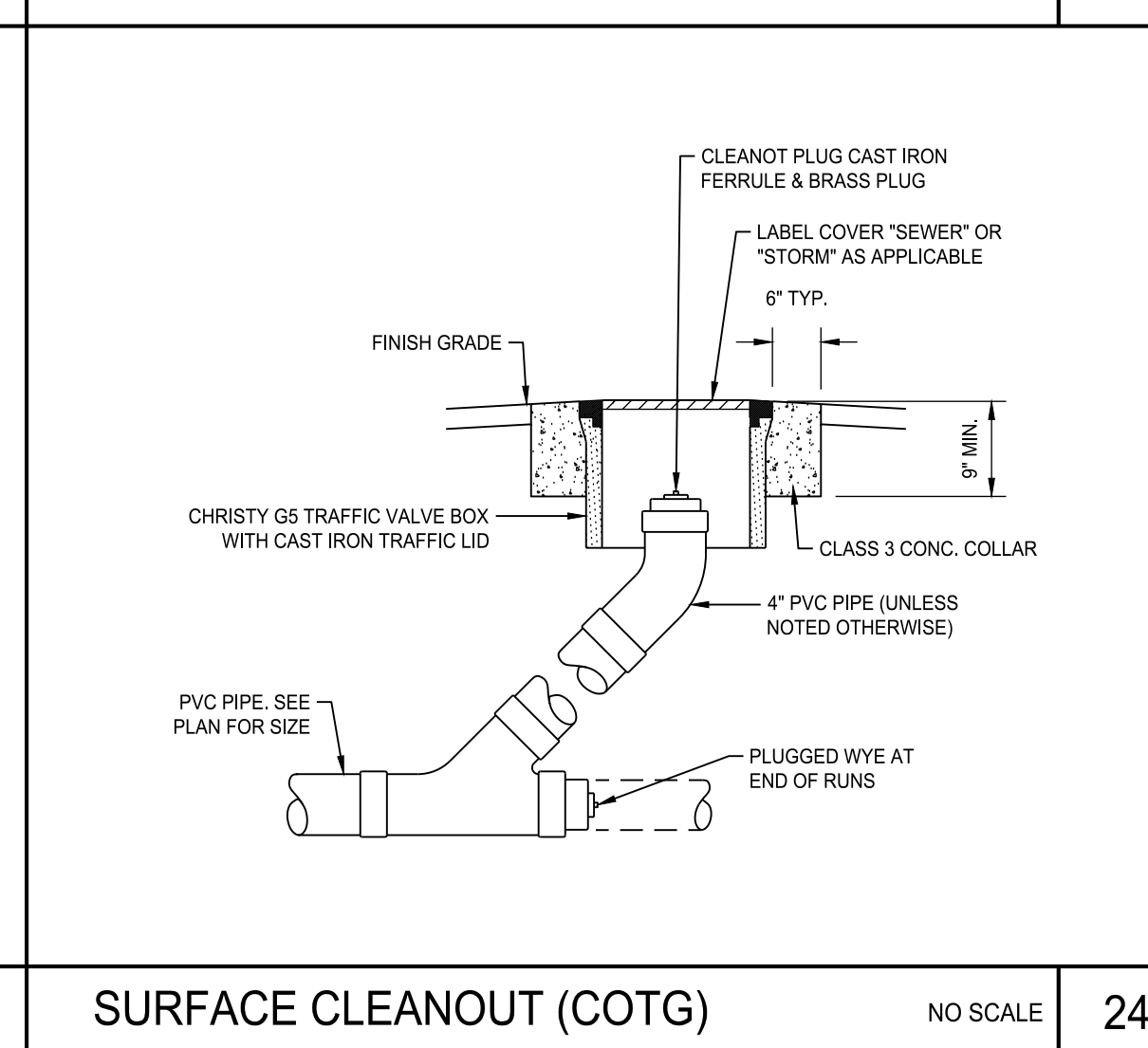


NOTES
1. ALL CONCRETE SHALL BE 2500 PSI MIN. AT 28 DAYS.
2. MANHOLE PIPE, CONE AND GRADE RINGS SHALL BE PRECAST REINFORCED CONCRETE AS PER ASTM C-478.
3. MORTAR AND BAND ALL PIPE JOINTS. MORTAR MIXTURE SHALL BE ONE PART CEMENT PER TWO PARTS SAND.
4. MASTIC (KENT SEAL NO. 2 OR EQUAL) MAY BE SUBSTITUTED AT JOINTS. MASTIC SHALL COVER A MIN. OF ONE-HALF THE COMPRESSED SURFACE. INSIDE OF MANHOLE JOINT SHALL BE MORTAR TO A SMOOTH SURFACE.
5. MAXIMUM DISTANCE BETWEEN MANHOLES SHALL BE 500 FEET OR AS REQUIRED BY THE CITY ENGINEER.
6. SUMP BOTTOM MANHOLES ARE REQUIRED ON ALL STORM DRAIN SYSTEMS WITH PUMPS.
7. 48" MANHOLES ARE REQUIRED FOR STORM DRAIN PIPE SIZES FROM 12" TO 24". 60" MANHOLES ARE REQUIRED FOR STORM DRAIN PIPE SIZES FROM 27" TO 36". 72" MANHOLES ARE REQUIRED FOR STORM DRAIN PIPE SIZES 36" AND LARGER.

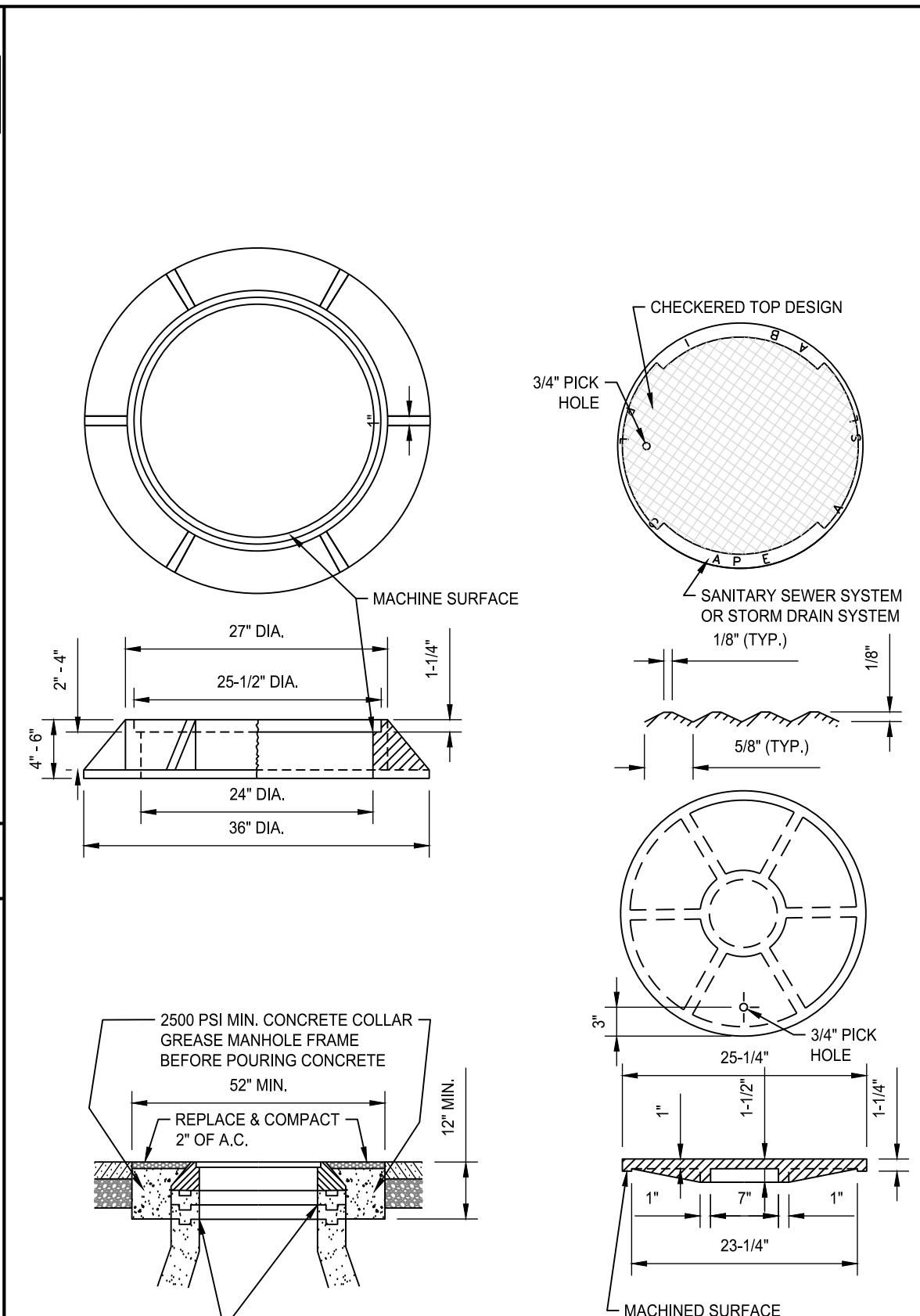
STORMDRAIN MANHOLE NO SCALE 22



PERIMETER MOW STRIP NO SCALE 34

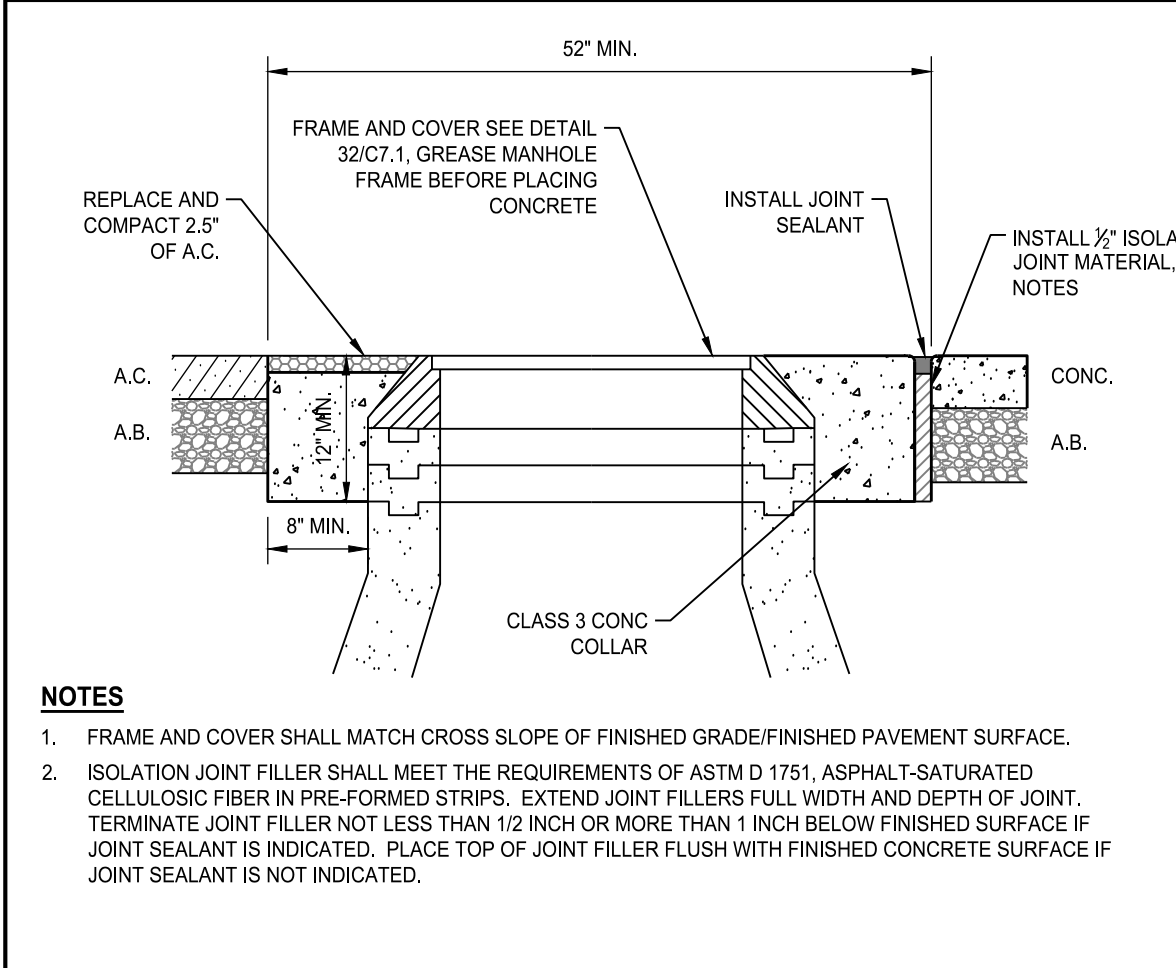


SURFACE CLEANOUT (COTG) NO SCALE 24

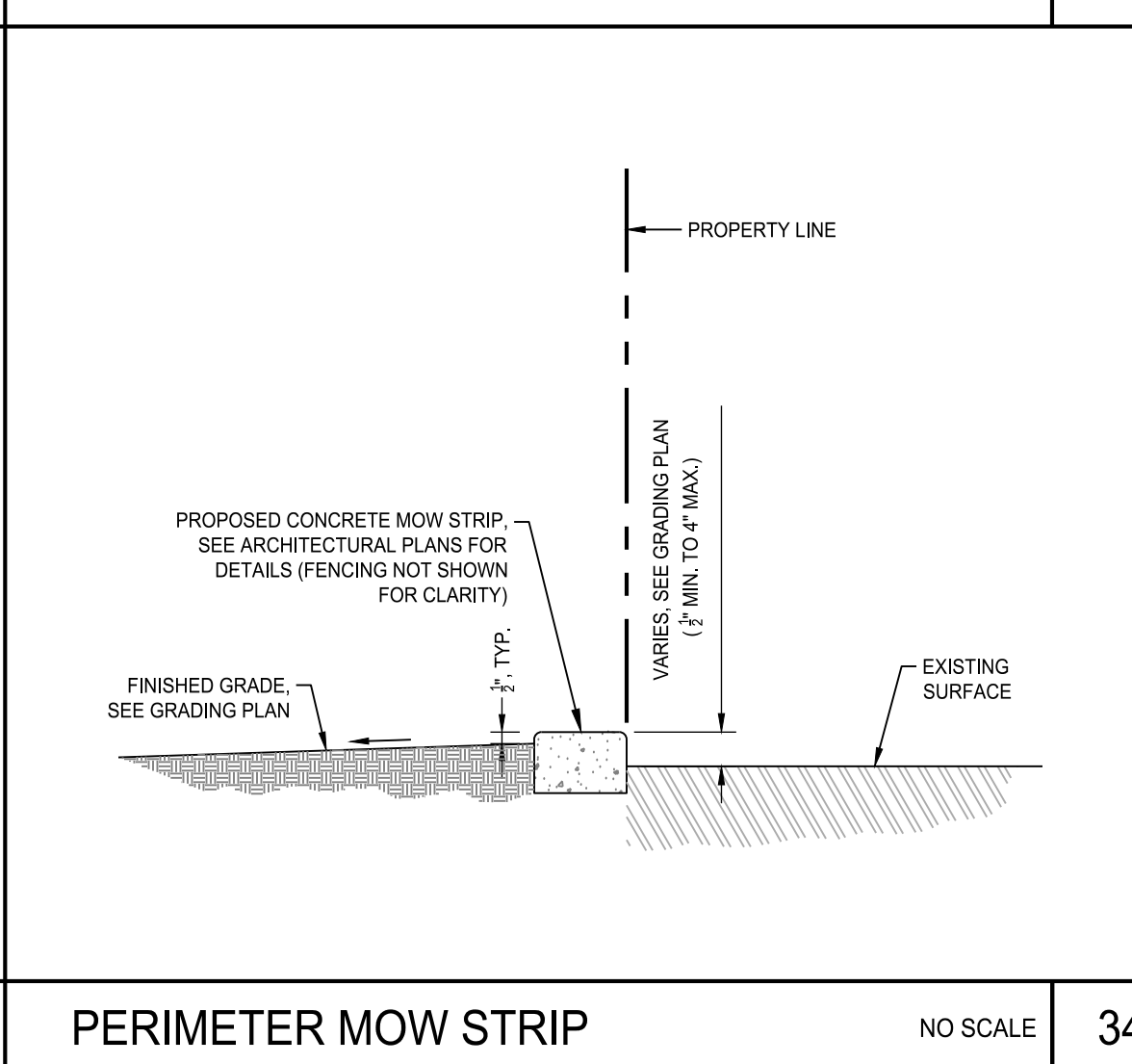


NOTES
1. MATERIAL SHALL BE CAST IRON. FRAME AND COVER TO BE CONSTRUCTED IN ACCORDANCE WITH ASTM DESIGNATION A48, CLASS 25. FRAME AND COVER SHALL BE H20 TRAFFIC RATED.
2. FRAME AND COVER SHALL MATCH CROSS SLOPE OF FINISHED GRADE/FINISHED PAVEMENT SURFACE.

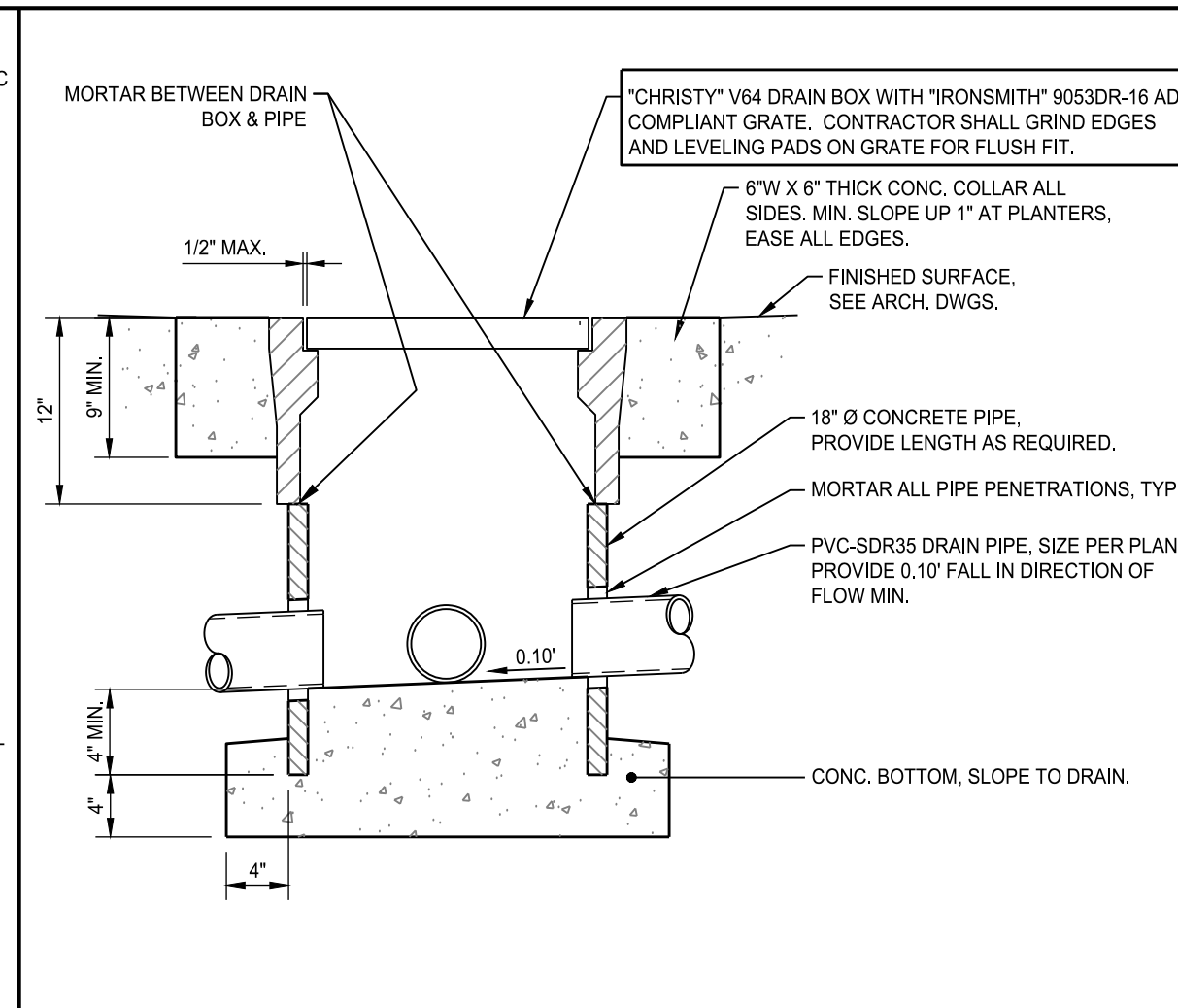
MANHOLE FRAME AND COVER NO SCALE 32



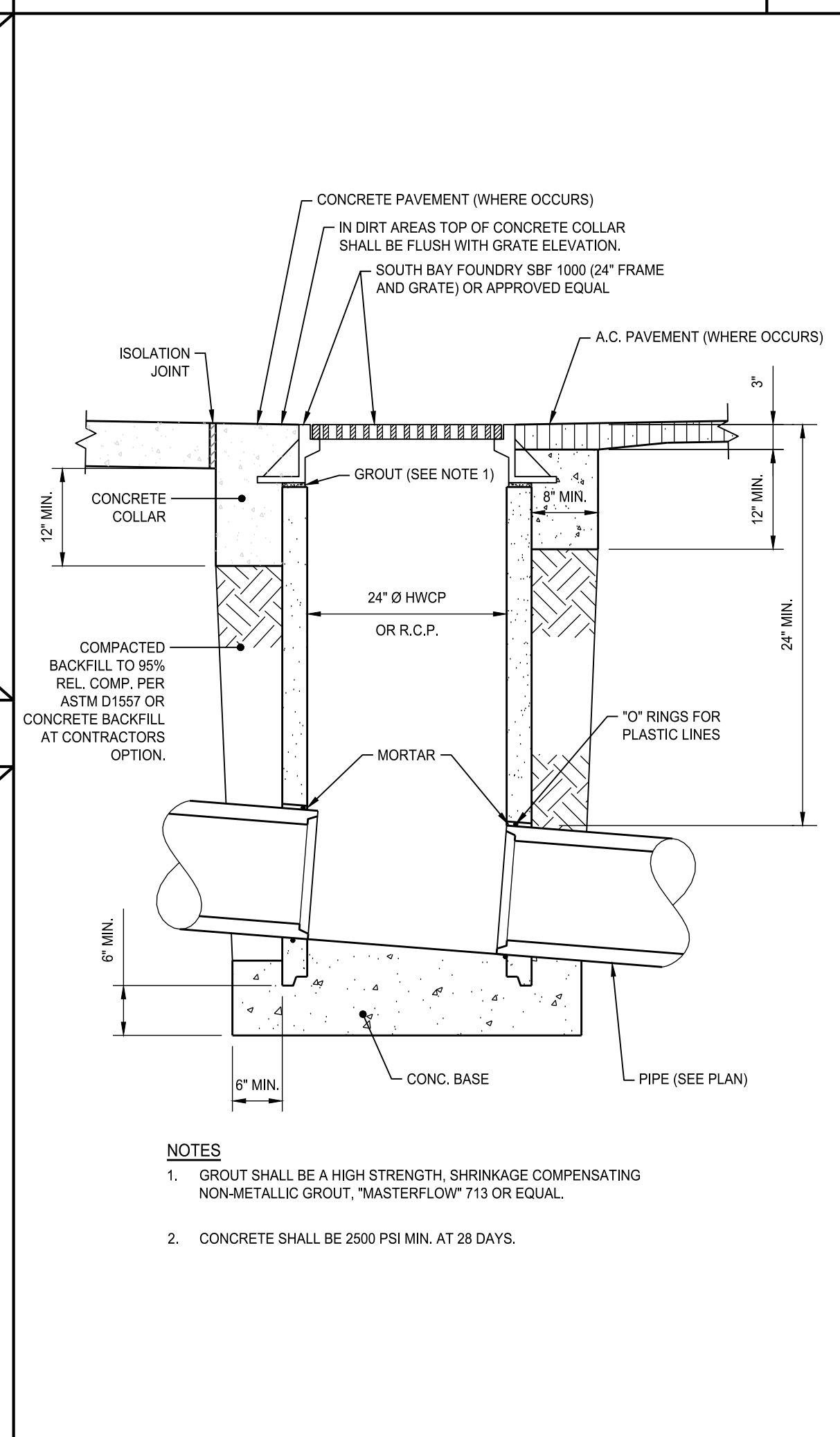
MANHOLE COVER INSTALLATION NO SCALE 33



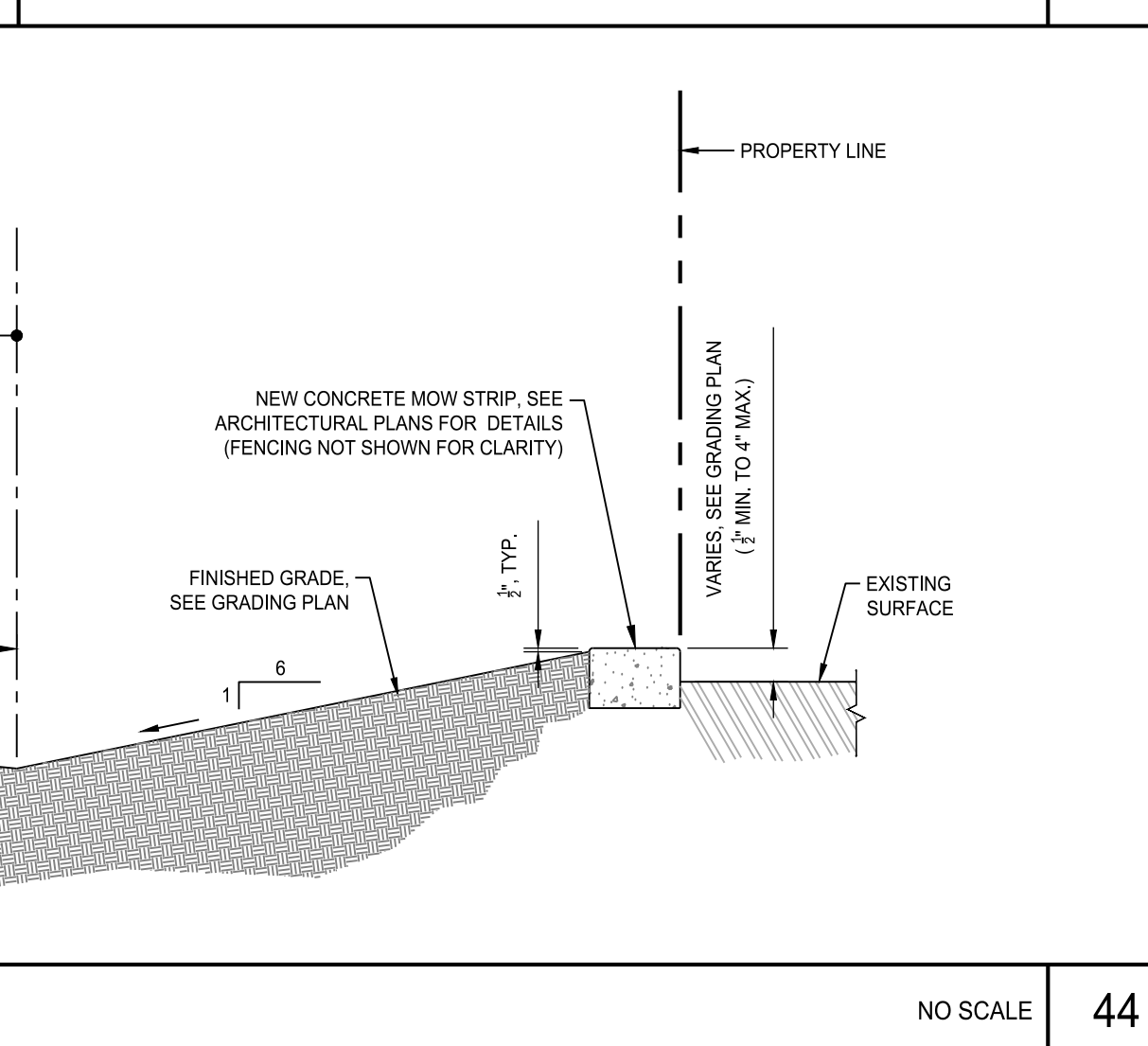
PERIMETER MOW STRIP NO SCALE 34



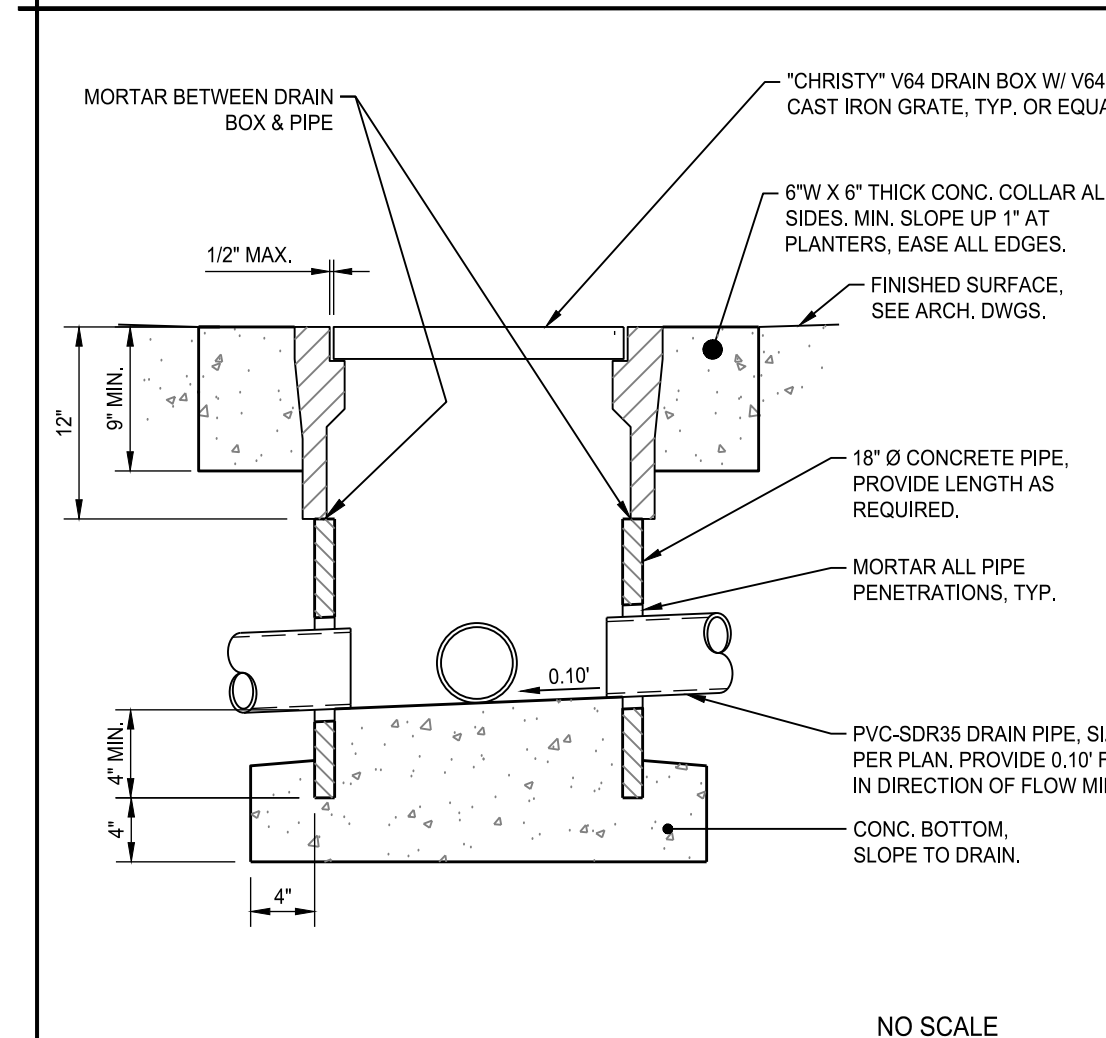
DRAIN INLET W/ ADA GRATE NO SCALE 41



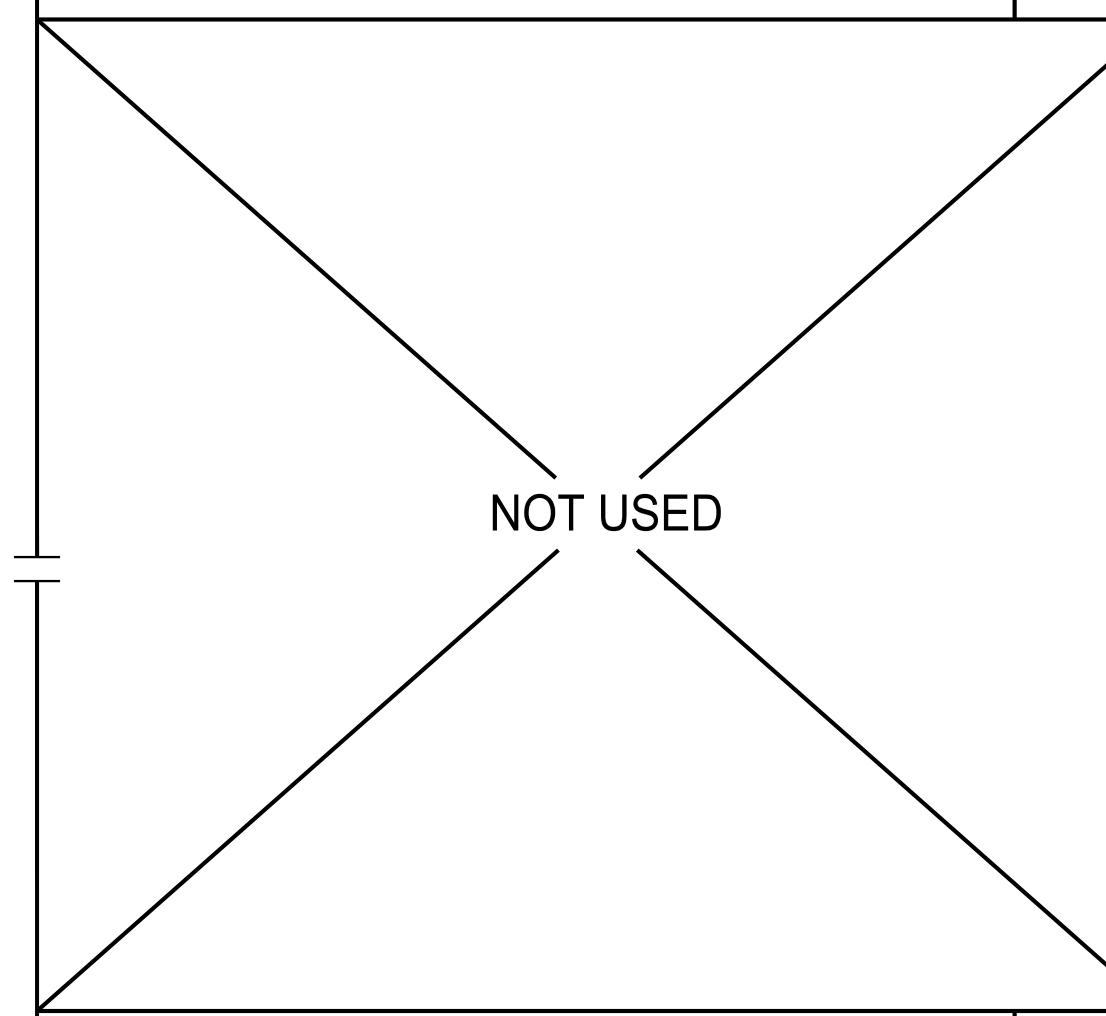
DRAIN INLET NO SCALE 43



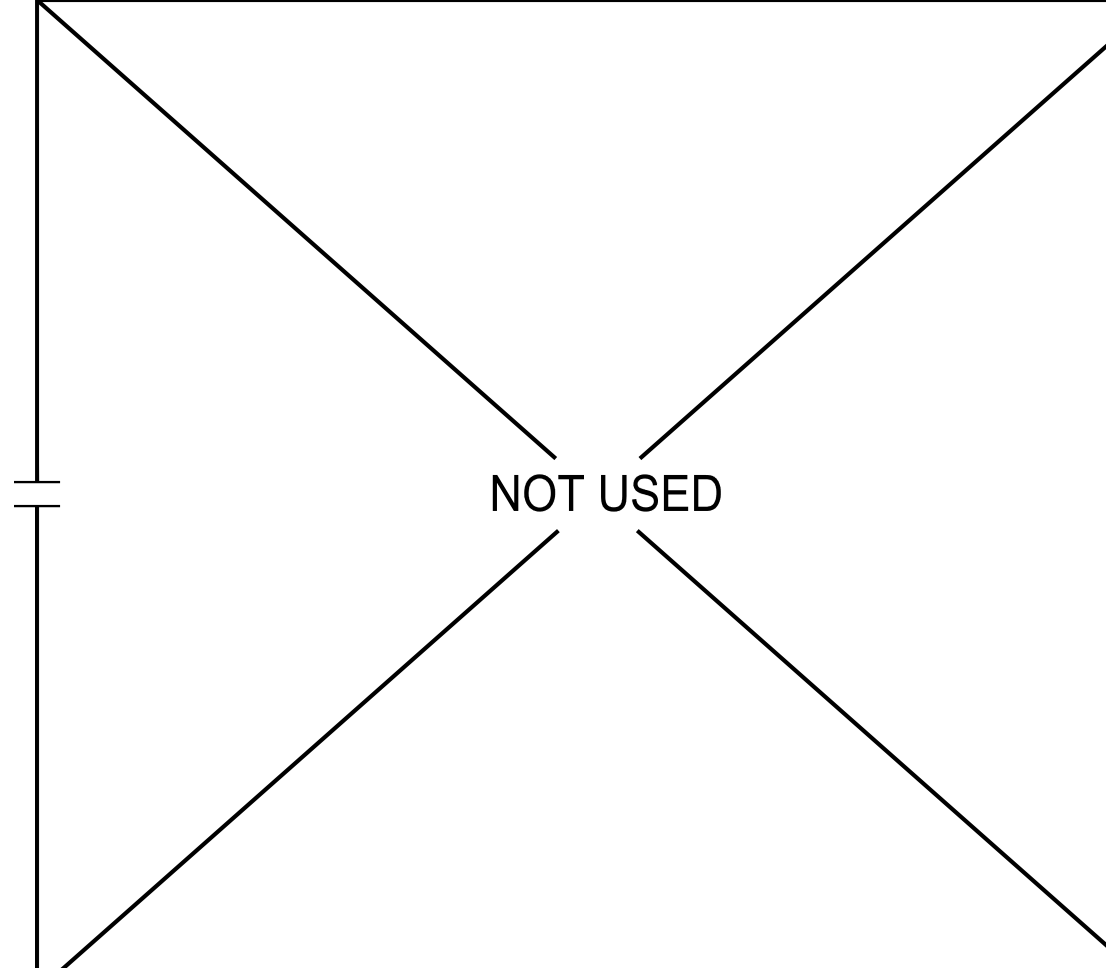
SWALE SECTION NO SCALE 44



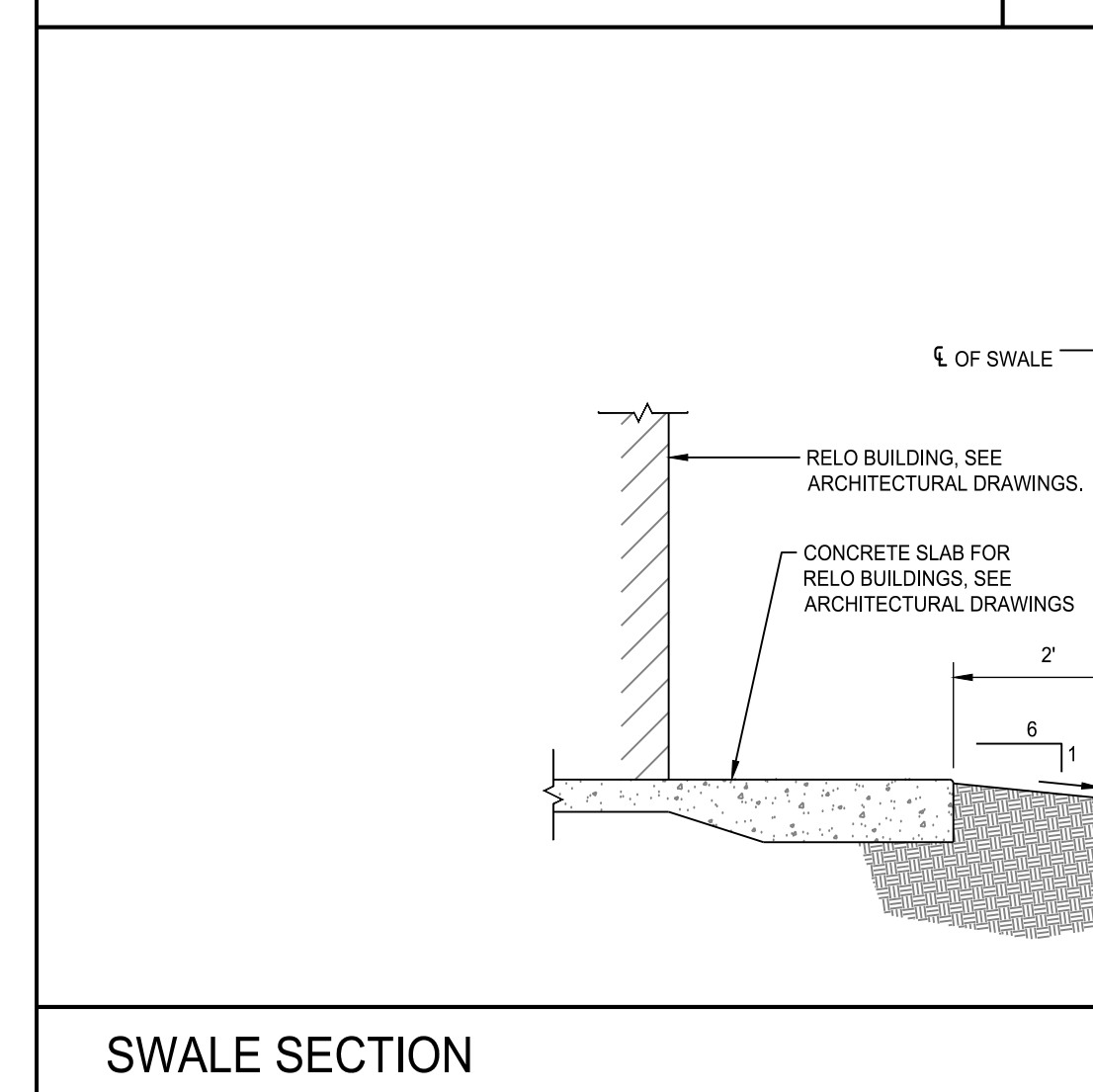
DRAIN INLET W/ CAST IRON GRATE NO SCALE 51



NOT USED



NOT USED



SWALE SECTION NO SCALE 44

COMMERCIAL **OFFICE**

PLAN VIEW

SECTION A-A

PERSPECTIVE

NOTES:

- CONCRETE WORK SHALL BE 2500 P.S.I. DESIGN (5 SACK MIX), 4" MAX. SLUMP.
- ALL CONCRETE SHALL HAVE A LIGHT BROOM FINISH, EXCEPT AS NOTED.
- WEAKENED PLANE JOINTS AT DRIVEWAY APPROACHES AND AT 20' SPACING, PER STANDARD SPECIFICATIONS. (SEE STD. DWG. C-23, DETAIL D) WEAKENED PLANE JOINTS SHALL BE A MIN. DEPTH OF 1-1/2" AND SHALL BE FINISHED WITH A SCORING TOOL, LEAVING THE EDGES ROUNDED.
- REFER TO STD. DWG. C-16 FOR DRIVEWAY SPACING AND WIDTH.
- FINISHED SURFACES SHALL BE TREATED WITH CLEAR CURING COMPOUND COMPLYING WITH SECTION 201-4 OF THE STANDARD SPECIFICATIONS.
- TRANSITIONS FROM RAMPS TO WALKS, GUTTERS OR STREET SHALL BE FLUSH & FREE OF ABRUPT CHANGES.
- REPAIRS SHALL BE MADE BY REMOVING & REPLACING THE ENTIRE UNIT BETWEEN JOINTS.

APPROVED BY: _____ DATE _____
PUBLIC WORKS DIRECTOR

COMMERCIAL/OFFICE DRIVE APPROACH WITH CURB RETURNS **C-20**

RAISED TRUNCATED DOME PATTERN **RAINED TRUNCATED DOME SIZE**

USE DETAIL 8/SDS FOR DETECTABLE WARNING SURFACE

NOTES:

- DETECTABLE WARNING SURFACE SHALL BE INSTALLED AT THE BOTTOM OF ALL CURB RAMPS.
- DETECTABLE WARNING SURFACE SHALL EXTEND THE FULL WIDTH OF THE RAMPS AND BE 3/8" IN DEPTH.
- DETECTABLE WARNING SURFACE SHALL BE YELLOW AND APPROXIMATE FS 3333 OF FEDERAL STANDARD 595C.
- DETECTABLE WARNING SURFACE SHALL BE SAFETY STEP TO PRODUCT OR APPROVED EQUAL.

APPROVED BY: _____ DATE _____
PUBLIC WORKS DIRECTOR

DETECTABLE WARNING SURFACE DETAIL **C-15**

RESIDENTIAL WITH PARKWAY **RESIDENTIAL WITH ADJACENT CURB**

COLLECTOR STREETS **RESIDENTIAL WITH ADJACENT CURB - ALTERNATE**

NOTES:

- CONCRETE WORK SHALL BE 2500 P.S.I. DESIGN (5 SACK MIX), 4" MAX. SLUMP.
- ALL CONCRETE SHALL HAVE A LIGHT BROOM FINISH, EXCEPT AS NOTED.
- WEAKENED PLANE JOINTS AT END OF CURVE AND BEGINNING OF CURVE OF WALK RETURNS, AT DRIVEWAY APPROACHES, AND AT 20' SPACING, PER STANDARD SPECIFICATIONS. (SEE STD. DWG. C-23, DETAIL D) WEAKENED PLANE JOINTS SHALL BE A MIN. DEPTH OF 1-1/2" AND SHALL BE FINISHED WITH A SCORING TOOL, LEAVING THE EDGES ROUNDED.
- FINISHED SURFACES SHALL BE TREATED WITH CLEAR CURING COMPOUND COMPLYING WITH SECTION 201-4 OF THE STANDARD SPECIFICATIONS.
- ALIGN SIDEWALK EXPANSION JOINTS, WEAKENED PLANE JOINTS WITH CURB AND GUTTER EXPANSION JOINTS AND WEAKENED PLANE JOINTS.
- IN RESIDENTIAL WITH PARKWAY AREAS, MAILBOX POST SHALL BE CONFINED TO AN AREA FROM 6" TO 12" BEHIND THE FACE OF CURB. IN RESIDENTIAL WITH ADJACENT CURB AREAS SEE STD. PLAN U-6.
- REPAIRS SHALL BE MADE BY REMOVING & REPLACING THE ENTIRE UNIT BETWEEN JOINTS.

APPROVED BY: _____ DATE _____
PUBLIC WORKS DIRECTOR

CONCRETE SIDEWALKS **C-6**

PLAN VIEW

SECTION A-A

NOTES:

- CONCRETE WORK SHALL BE 2500 P.S.I. DESIGN (5 SACK MIX), 4" MAX. SLUMP.
- ALL CONCRETE SHALL HAVE A LIGHT BROOM FINISH, EXCEPT AS NOTED.
- EXPANSION JOINTS AT CURB RETURN ENDS AND CURVE AT WALK RETURNS.
- WEAKENED PLANE JOINTS AT DRIVEWAY APPROACHES, AND AT 20' SPACING, PER STANDARD SPECIFICATIONS. (SEE STD. DWG. C-23, DETAIL D) WEAKENED PLANE JOINTS SHALL BE A MIN. DEPTH OF 1-1/2" AND SHALL BE FINISHED WITH A SCORING TOOL, LEAVING THE EDGES ROUNDED.
- FINISHED SURFACES SHALL BE TREATED WITH CLEAR CURING COMPOUND COMPLYING WITH SECTION 201-4 OF THE STANDARD SPECIFICATIONS.
- EXTRUDED CURB SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO PLACEMENT. CONCRETE USED FOR EXTRUDED CURB AND GUTTER SHALL HAVE A MAX. SLUMP OF 1-1/2".
- ALL EXPOSED SURFACES OF CURB AND GUTTER SHALL NOT VARY IN EXCESS OF .02" WHEN AN 8" STRAIGHT EDGE IS PLACED ON THE SURFACE, EXCEPT AT GRADE CHANGES OR CURVES.
- REPAIRS SHALL BE MADE BY REMOVING & REPLACING THE ENTIRE UNIT BETWEEN JOINTS.

APPROVED BY: _____ DATE _____
PUBLIC WORKS DIRECTOR

BARRIER TYPE CURB AND GUTTER **C-1**

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-117736 INC.
REVIEWED FOR:
SS FLS ACS
DATE: 02/13/2020



DATE: 7-10-19

ALTERNATIVE EDUCATION COMPLEX
PORTERVILLE UNIFIED SCHOOL DISTRICT
914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257

ASPHALT CONCRETE PAVEMENT PATCH/BACKFILL **CONCRETE PAVEMENT PATCH/BACKFILL**

ROADMIXED ASPHALT PAVEMENT PATCH/BACKFILL

NOTES:

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO CITY STANDARD SPECIFICATIONS.
- SUITABILITY OF BACKFILL MATERIAL SHALL BE AT THE DISCRETION OF THE CITY ENGINEER.
- BACKFILL COMPACTION OUTSIDE OF ROADWAY OR ALLEYWAY STRUCTURAL SECTION SHALL BE 95% (EXCEPT BEHIND BACK OF CURB OR WITHIN EASEMENTS)
- PATCHES LESS THAN TWO FEET FROM EXISTING PATCHES, EDGES OF PAVEMENT OR GUTTERS SHALL BE EXTENDED TO INCLUDE THE INTERMEDIATE ISOLATING STRIP OF EXISTING PAVEMENT.
- CONFORM TO SEC. 26 & 39 OF THE CALTRANS STANDARD SPECIFICATIONS FOR MATERIALS SUPPLIED.

APPROVED BY: _____ DATE _____
PUBLIC WORKS DIRECTOR

PAVEMENT PATCHES AND BACKFILL COMPACTION **P-10**

BASE MATERIAL REQUIRED IN REFERENCE TO THE EXPANSION INDEX:

EXPANSION INDEX LESS THAN 21

- VERY LOW EXPANSION POTENTIAL SOILS, NON-EXPANSIVE BASE MATERIAL IS NOT REQUIRED.

EXPANSION INDEX 21 TO 50

- LOW EXPANSION POTENTIAL SOILS, PLACE A MIN. OF 4" OF NON-EXPANSIVE BASE MATERIAL BENEATH CONCRETE STRUCTURES. SATURATE THE BASE MATERIAL AND SUBGRADE WITH WATER 24 HOURS PRIOR TO POURING CONCRETE.

EXPANSION INDEX 51 TO 90

- MEDIUM EXPANSION POTENTIAL SOILS, PLACE A MINIMUM OF 8" OF NON-EXPANSIVE BASE MATERIAL BENEATH CONCRETE STRUCTURES. SATURATE THE BASE MATERIAL AND SUBGRADE BY FONDING WATER ON IT FOR 24 HOURS PRIOR TO POURING CONCRETE.

EXPANSION INDEX GREATER THAN 90

- VERY HIGH EXPANSION POTENTIAL SOILS, PLACE A MINIMUM OF 16" OF NON-EXPANSIVE BASE MATERIAL BENEATH CONCRETE STRUCTURES. SATURATE THE BASE MATERIAL AND SUBGRADE WITH WATER 24 HOURS PRIOR TO POURING CONCRETE. PLACE TWO NUMBER FOUR REINFORCING BARS IN THE CURB, CONTINUOUSLY. A PRELIMINARY SOILS REPORT CONTAINING RECOMMENDATIONS FOR MITIGATION CONCERNING SIDEWALK, CURB AND GUTTER CONSTRUCTION IS REQUIRED, IN ORDER TO GAIN APPROVAL OF AN ALTERNATIVE TO THE USE OF 16" OF NON-EXPANSIVE MATERIAL.

NOTE:
IN ANY SUBDIVISION WHERE ANY INDIVIDUAL SOIL SAMPLE HAS AN EXPANSION INDEX GREATER THAN 50, THE CITY ENGINEER MAY REQUIRE ADDITIONAL SOIL SAMPLES AND TESTS, UP TO ONE SET PER THREE ACRES, FOR THE PURPOSE OF DETERMINING THE EXPANSIVE INDEX(ES) FOR THE PROPOSED DEVELOPMENT.

SHRINK/SWELL POTENTIALS:

BASE MATERIAL REQUIRED IN REFERENCE TO THE SOIL CONSERVATION SERVICE CRITERIA

- AREAS WITH LOW SHRINK/SWELL POTENTIAL, NON-EXPANSIVE MATERIAL IS NOT REQUIRED. NO SOILS REPORT IS REQUIRED FOR BUILDING PERMITS.
- AREAS CONTAINING SOIL THAT HAS A LOW TO MODERATE SHRINK/SWELL POTENTIAL, REQUIRES A MINIMUM OF 4 INCHES OF NON-EXPANSIVE MATERIAL BENEATH CONCRETE STRUCTURES. SATURATE THE BASE MATERIAL AND SUBGRADE WITH WATER 24 HOURS PRIOR TO POURING CONCRETE. A SOILS REPORT IS REQUIRED FOR ALL BUILDING PERMITS.
- AREAS CONTAINING SOIL THAT HAS A MODERATE SHRINK/SWELL POTENTIAL, REQUIRES A MINIMUM OF 8 INCHES OF NON-EXPANSIVE MATERIAL BENEATH CONCRETE STRUCTURES. SATURATE THE BASE MATERIAL AND SUBGRADE WITH WATER 24 HOURS PRIOR TO POURING CONCRETE. PLACE TWO NUMBER FOUR REINFORCING BARS IN CURB, CONTINUOUSLY. A SOILS REPORT IS REQUIRED FOR ALL BUILDING PERMITS.
- AREAS CONTAINING SOIL THAT HAS A HIGH SHRINK/SWELL POTENTIAL, REQUIRES 16 INCHES OF NON-EXPANSIVE MATERIAL BENEATH CONCRETE STRUCTURES. SATURATE THE BASE MATERIAL AND SUBGRADE WITH WATER 24 HOURS PRIOR TO POURING CONCRETE. PLACE TWO NUMBER FOUR REINFORCING BARS IN CURB, CONTINUOUSLY. A SOILS REPORT IS REQUIRED FOR ALL BUILDING PERMITS.

NOTE:
SEE APPENDIX A FOR SOIL CONSERVATION SERVICE SOILS LEGEND WITH SHRINK/SWELL POTENTIALS AND APPENDIX B FOR SOIL CONSERVATION SERVICE SOILS MAP FOR PORTERVILLE AREA (SEE POCKET AT THE BACK OF THESE STANDARDS).

BASE MATERIAL WILL BE AS SHOWN ABOVE OR AS DETERMINED BY THE CITY ENGINEER.

APPROVED BY: _____ DATE _____
PUBLIC WORKS DIRECTOR

SPECIFICATIONS FOR CONSTRUCTION OF CONCRETE IMPROVEMENTS ON EXPANSIVE SOILS **C-24**

DETAIL A - 1/2" EXPANSION JOINT FOR ALLEY APPROACHES AT CURB & GUTTER, AND CROSS GUTTERS AT CURB & GUTTER

DETAIL B - 1/2" EXPANSION JOINT FOR BARRIER TYPE CURB

DETAIL C - 1/2" EXPANSION JOINT FOR DRIVE APPROACHES AT ALLEY APPROACHES, CATCH BASINS AND MISCELLANEOUS STRUCTURES

DETAIL D - WEAKENED PLANE JOINT FOR DRIVE APPROACHES, SIDEWALK AT 20' O.C., CURB & GUTTER AT 20' O.C. AND V-GUTTER AT 20' O.C.

NOTES:

- 1/2" EXPANSION JOINT AT CONNECTION TO ALLEY APPROACH, CATCHBASINS AND MISC. STRUCTURES.
- 1/2" EXPANSION JOINT AT EACH SIDE OF EVERY STRUCTURE
- WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 20' CENTERS AND SHALL BE A MIN. DEPTH OF 1-1/2" AND SHALL BE FINISHED WITH A SCORING TOOL, LEAVING THE EDGES ROUNDED.

APPROVED BY: _____ DATE _____
PUBLIC WORKS DIRECTOR

EXPANSION JOINT DETAILS **C-23**

REVISIONS

MANGINI ARCHITECTURE
INGENUITY

MANGINI BARENG MORRELLI

McLAIN BARENG MORRELLI
www.mangini.us
MANGINI ASSOCIATES INC.
4320 West Mineral King Avenue
Van Nuys, California 91411



CONSULTANT

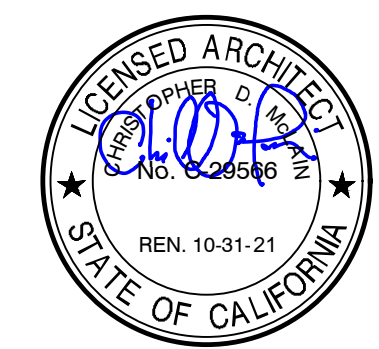
LANE ENGINEERS INC.
CIVIL • STRUCTURAL • SURVIVING
979 N. BLACKSTONE
TULARE, CALIFORNIA 93274
(559) 688-6263

TITLE
CITY STANDARD DETAILS

C7.2

PROJECT **1901**

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP. 02-117736 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 02/13/2020



DATE: JULY 10, 2019

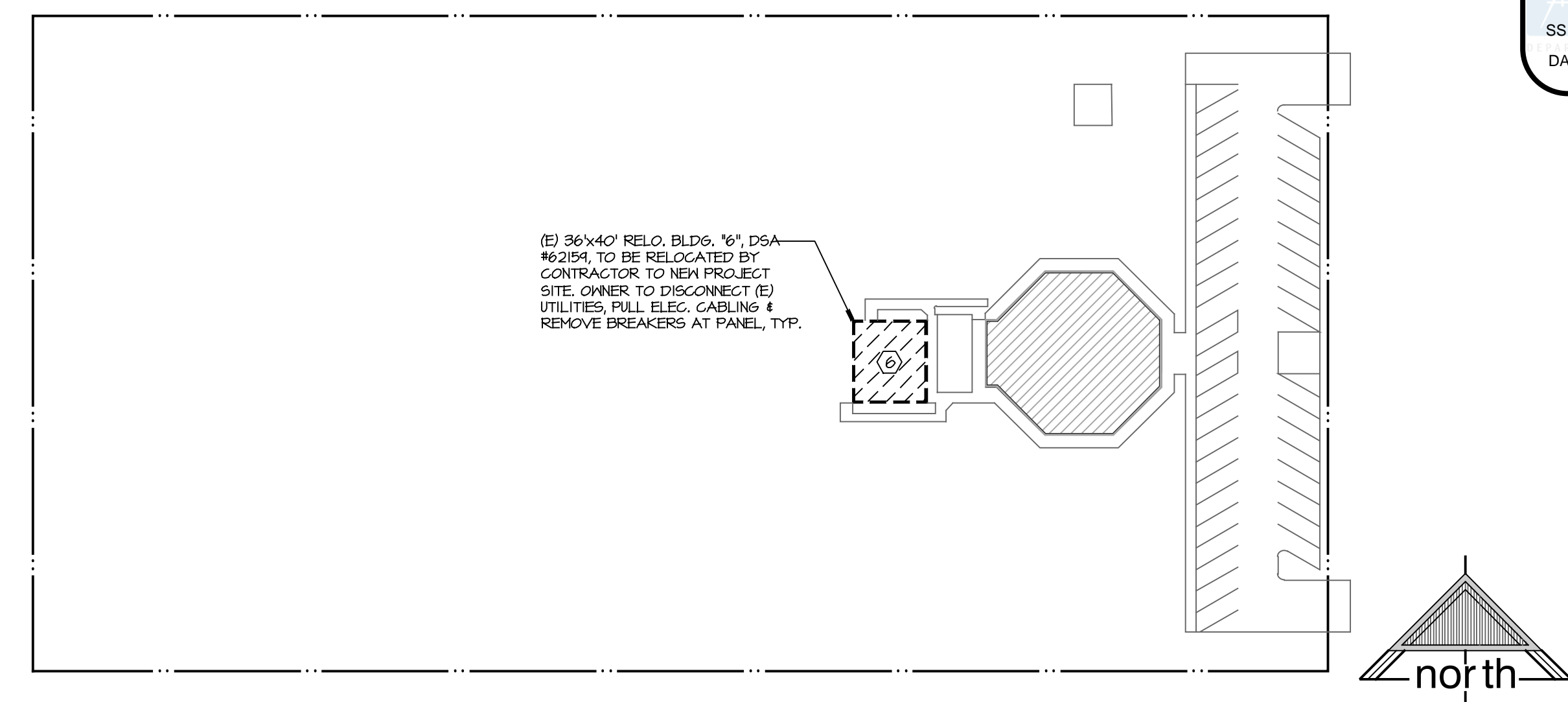
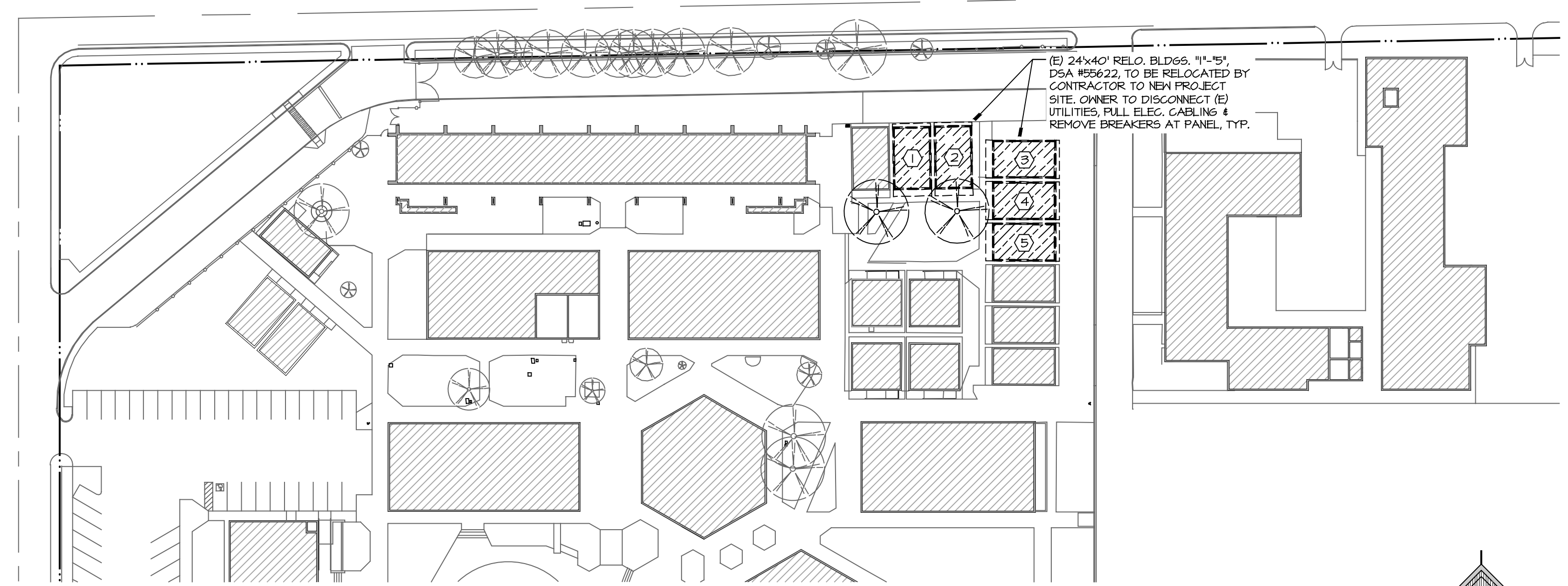
DEMOLITION NOTES:

THE INTENT OF THIS RELOCATION PLAN IS TO LEAVE SITES OF RELOCATABLES OPEN, CLEAN, FREE OF DEBRIS AND READY FOR NEW CONSTRUCTION.

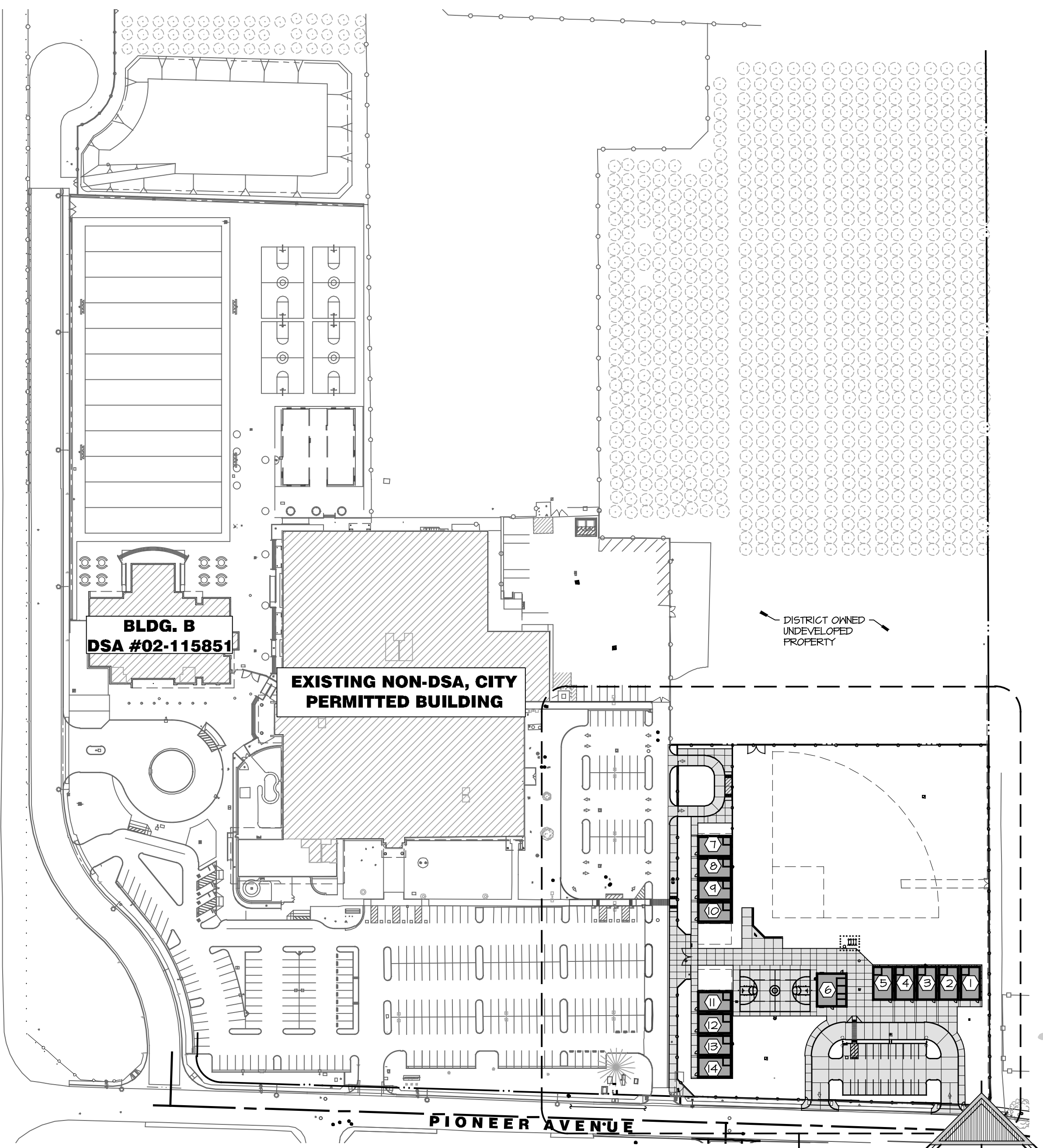
- 1) (E) RELO. BLDGS. TO BE RELOCATED BY CONTRACTOR TO NEW PROJECT SITE, SEE SD3.
- 2) CONTRACTOR TO DISCONNECT & CAP (E) UTILITIES 24" BELOW GRADE, PULL ELEC. CABLING & REMOVE BREAKERS AT PANEL, NOTE UTILITIES ON RECORD DWGS., TYP.
- 3) CONTRACTOR TO SAWCUT & REMOVE (E) CONC. SLAB BELOW WOOD FOUNDATION AT (E) RELO. BLDGS., TYP.
- 4) WHERE (E) RELO. BLDGS. TO BE REMOVED, CONTRACTOR TO BACKFILL AND PROVIDE CLEAN, FERTILE, TOPSOIL, UNIFORMLY GRADED TO MATCH (E) GRADES, TYP.

LEGEND :

- EXISTING BUILDING TO REMAIN
- (E) RELO. BLDGS. TO BE RELOCATED, SEE SD3
- RELOCATED BUILDING

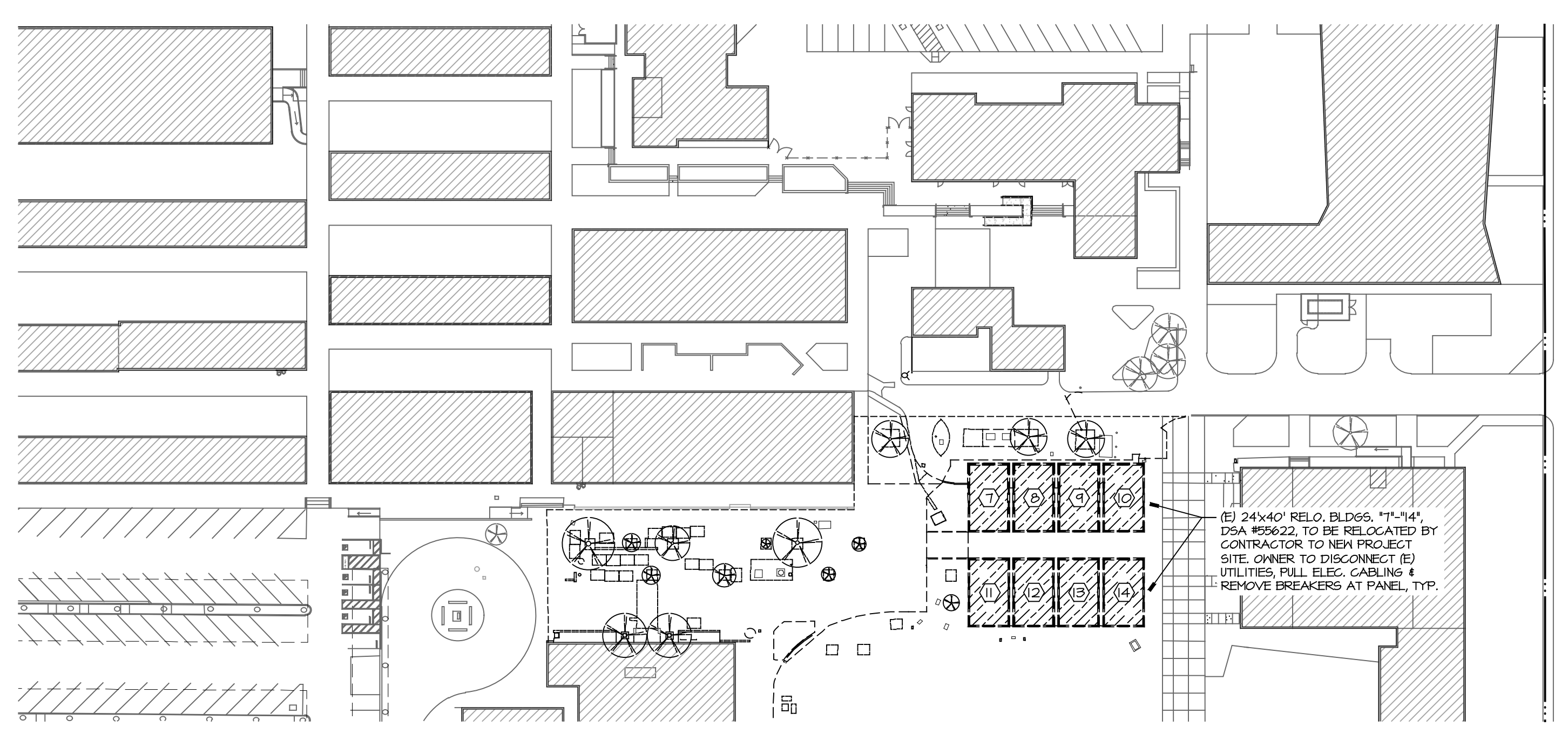


9 SITE DEMO. PLAN - (PROSPECT ED. CENTER)
 SCALE: 1" = 60'-0"
 (FOR RELO. CLRM. BLDG. RELOCATION ONLY)



6 OVERALL SITE PLAN
 SCALE: 1" = 100'-0"

23 SITE DEMO. PLAN - (MONACHE H.S.)
 SCALE: 1" = 60'-0"
 (FOR RELO. CLRM. BLDG. RELOCATION ONLY)



21 SITE DEMO. PLAN - (PORTERVILLE H.S.)
 SCALE: 1" = 60'-0"
 (FOR RELO. CLRM. BLDG. RELOCATION ONLY)

ALTERNATIVE EDUCATION COMPLEX
 PORTERVILLE UNIFIED SCHOOL DISTRICT
 914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257

REVISIONS

MANGINI ARCHITECTURE
 INGENUITY
 McLAIN BARENG MORRELLI
 www.mangini.us
 (559) 627-0530 Office
 (559) 627-1326 Fax
 4320 West Mineral King Avenue
 Visalia, California 93291

TITLE
 OVERALL SITE PLAN
 SITE DEMO. PLANS
 (FOR RELOCATION)

SD1

PROJECT **1901**

DEMOLITION NOTES:

THE INTENT OF THIS DEMOLITION PLAN IS TO LEAVE SITES OF NEW CONSTRUCTION OPEN, CLEAN, FREE OF DEBRIS AND READY FOR NEW CONSTRUCTION.

REMOVE THE FOLLOWING:

- 1) SAWCUT & REMOVE (E) CONC. SIDEWALK AS SHOWN DASHED TO NEAREST CONTROL JOINT (FIELD VERIFY), PREP AND COORDINATE W/ NEW SITE PLAN FOR EXTENT OF NEW CONC. SIDEWALK.
- 2) FOR ADDITIONAL INFORMATION ON THE EXTENT OF CONCRETE DEMOLITION, REFER TO CIVIL DRAWINGS.

PROTECT THE FOLLOWING:

- 1) ALL UTILITY LINES, BOXES AND ANCILLARY EQUIPMENT DESIGNATED FOR NEW CONSTRUCTION.
- 2) EXISTING A/C PAVING, CONCRETE SLABS, WALKS, CURBS, GUTTERS AND SUBGRADE, INDICATED TO REMAIN ON CIVIL DRAWINGS.

DEMO. SITE PLAN LEGEND:

- EXISTING BUILDINGS (NO WORK)
- EXISTING OBJECT TO BE DEMOLISHED
- EXISTING CHAIN LINK FENCE TO BE DEMOLISHED
- PROPERTY LINE
- EXISTING CHAIN LINK FENCE
- EXISTING WOOD FENCE

ACCESSIBLE PATH OF TRAVEL:

THE ACCESSIBLE PATH OF TRAVEL (P.O.T.) (---) AS INDICATED ON THE SITE PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2 INCH IF BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4 INCH MAXIMUM AND AT LEAST 48 INCHES IN WIDTH OR AS APPROVED BY CODE.

SURFACE IS STABLE, FIRM, AND SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL LESS THAN 5%, UNLESS OTHERWISE INDICATED.

ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING PROJECTIONS TO 80 INCHES MINIMUM, AND PROTRUDING OBJECTS GREATER THAN 4 INCH PROJECTION FROM WALL AND ABOVE 27 INCHES AND LESS THAN 80 INCHES.

ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN PATH OF TRAVEL.

ALL EXISTING PEDESTRIAN ROUTES INDICATED AS A PATH OF TRAVEL (P.O.T.) HAVE BEEN VERIFIED BY THE ARCHITECT TO COMPLY WITH THE FOLLOWING, OR THE REMEDIAL WORK NEEDED TO COMPLY WITH THE FOLLOWING IS SHOWN IN THESE DOCUMENTS.

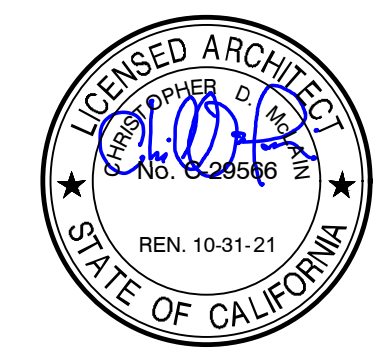
ACCESSIBLE PARKING: (SEE SD1 FOR OVERALL SITE)

- 2) PUBLIC PARKING STALLS, INCLUDING 1 ACCESSIBLE VAN STALL.
- 1 ACCESSIBLE STALL REG, 1 ACCESSIBLE STALL PROVIDED.

SITE PLAN LEGEND:

- EXISTING BUILDINGS (NO WORK)
- RELOCATED BUILDING
- NEW CONCRETE
- ACC. TOILET / UNISEX STUDENT
- PROPERTY LINE
- EXISTING CHAIN LINK FENCE
- NEW CHAIN LINK FENCE
- EXISTING HOOD FENCE
- ACCESSIBLE PATH OF TRAVEL
- (E) FH EXISTING FIRE HYDRANT/ SHUT-OFF VALVE

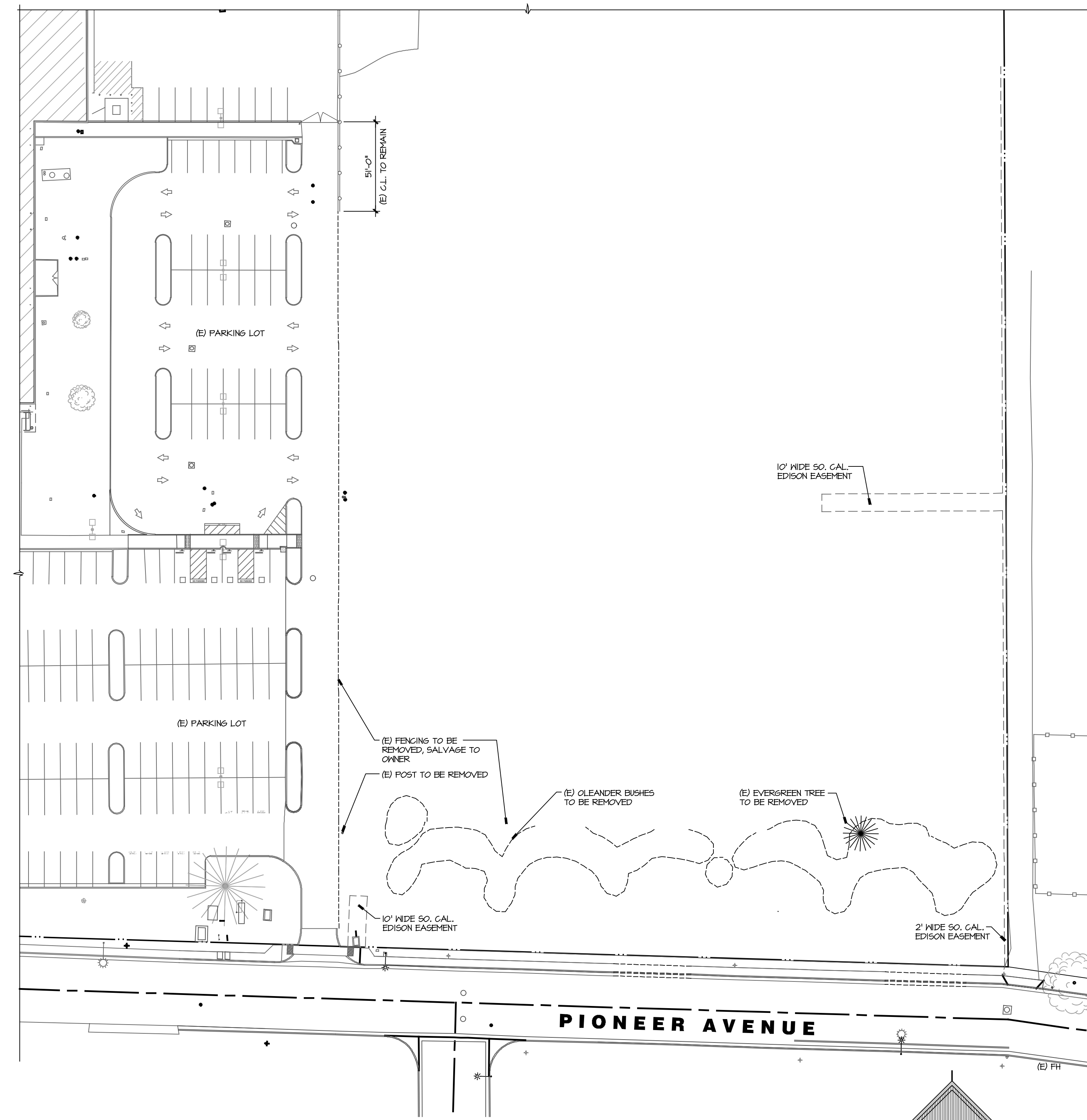
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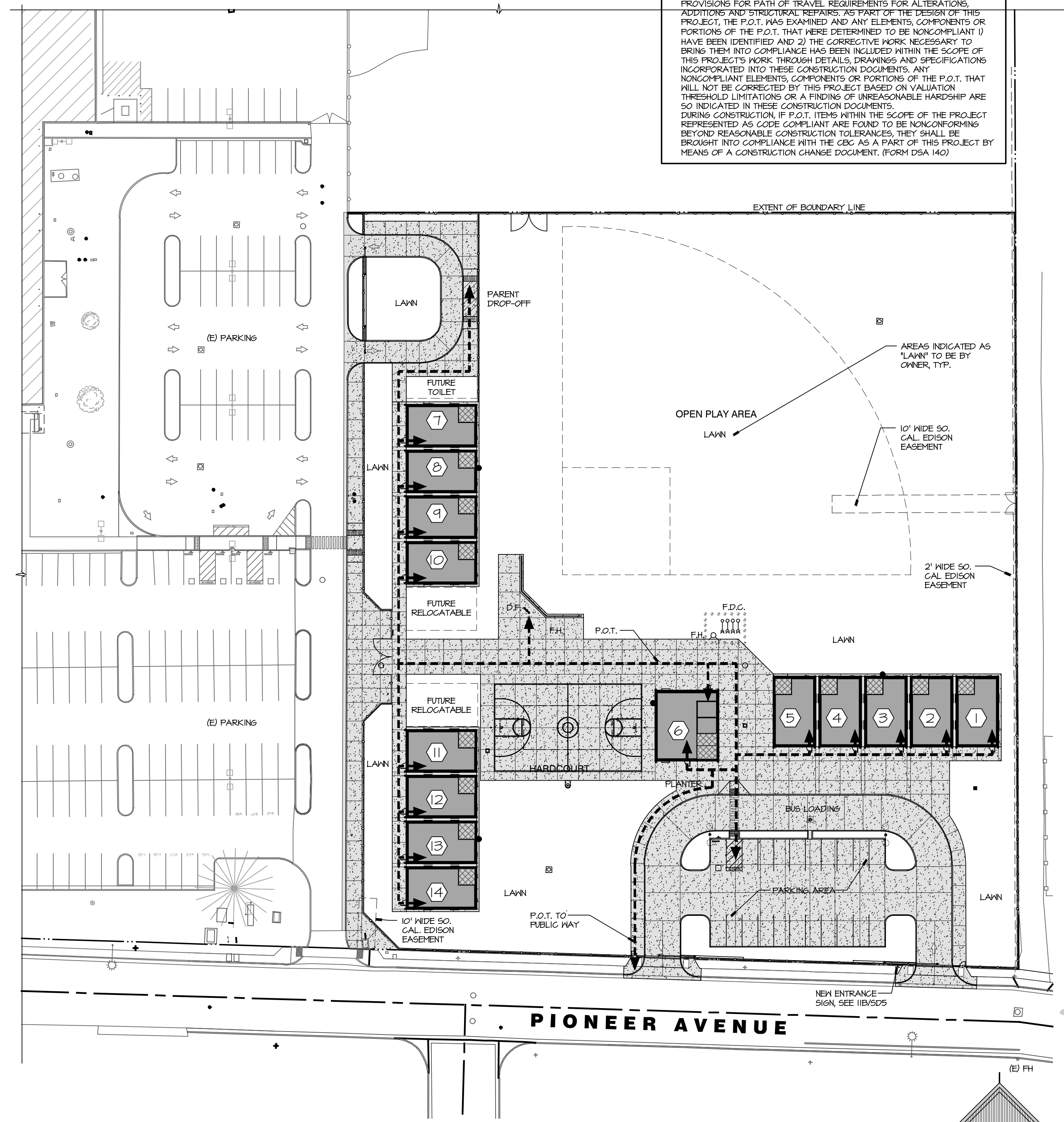
DATE: JULY 10, 2019

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT.

I, DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT, 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, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS. DURING CONSTRUCTION IF P.O.T. ITEMS WITHIN THE SCOPE OF 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. (FORM DSA 140)



② SITE DEMOLITION PLAN
 1" = 40'-0"



① SITE PLAN
 1" = 40'-0"

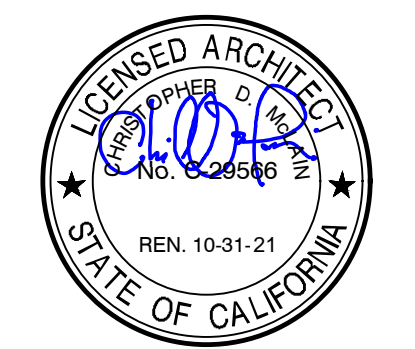
ALTERNATIVE EDUCATION COMPLEX
 PORTERVILLE UNIFIED SCHOOL DISTRICT
 914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257

REVISIONS

MANGINI ARCHITECTURE
 INGENUITY
 McLAIN BARENG MORRELLI
 www.mangini.us
 MANGINI ASSOCIATES INC.
 4320 West Mineral King Avenue
 Visalia, California 93291
 (559) 627-0530 Office
 (559) 627-1326 Fax

TITLE
 SITE DEMOLITION PLAN/
 SITE PLAN
SD2
 PROJECT 1901

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP. 02-117736 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 02/13/2020



DATE: JULY 10, 2019

ALTERNATIVE EDUCATION COMPLEX
 PORTERVILLE UNIFIED SCHOOL DISTRICT
 914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257

NO.	DATE	DESCRIPTION

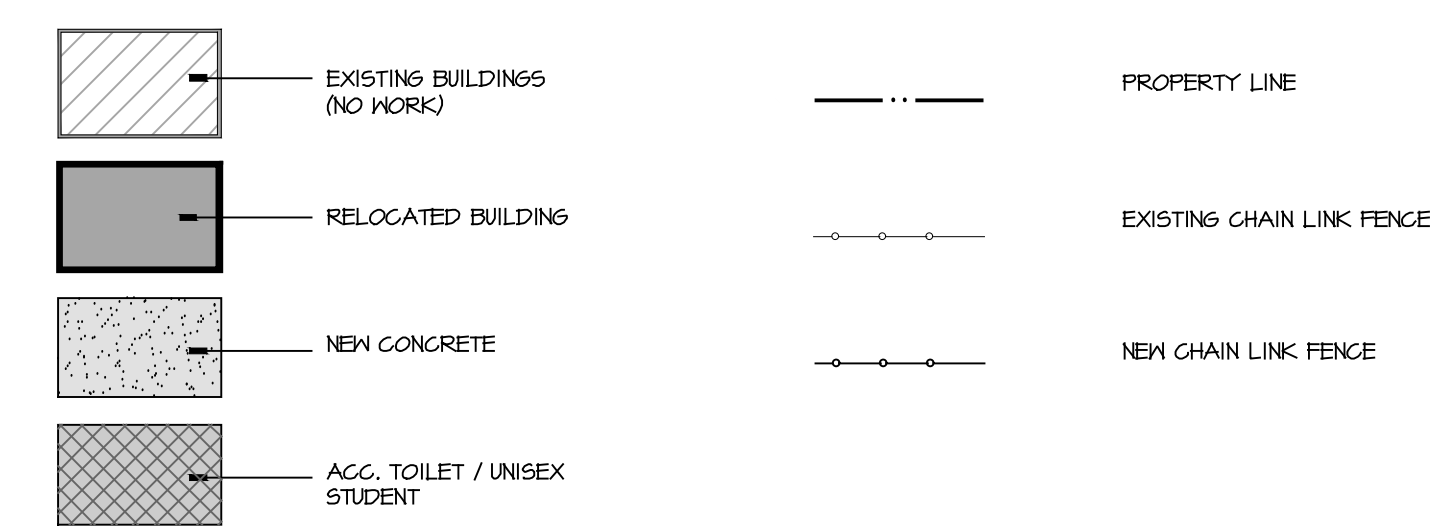
MANGINI ARCHITECTURE
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 MCLAIN BARENG MORRELLI
 www.mangini.us
 (559) 627-5330 Office
 4320 West Mineral King Avenue
 Visalia, California 93291
 (559) 627-1326 Fax

TITLE
 ENLARGED
 SITE PLAN

SD3

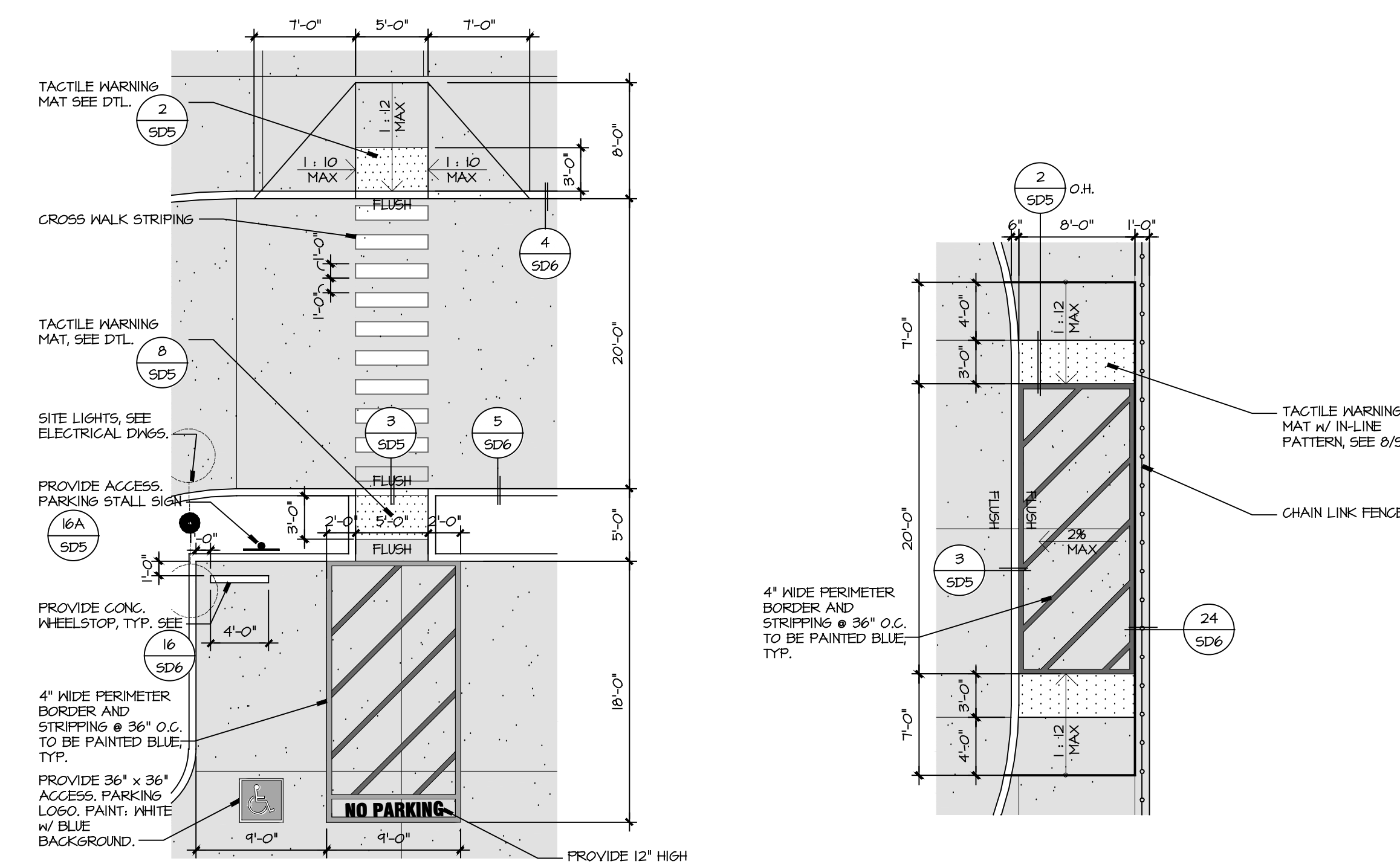
PROJECT 1901

SITE PLAN LEGEND :



- NOTES: (THIS SHEET ONLY)
- FOR SLAB FOUNDATION PLANS AND DETAILS OF BLDGS. 1" - 16", SEE 8/SD4
 - FOR SLAB FOUNDATION PLANS AND DETAILS OF BLDGS. 17" - 14", SEE 12/SD4
 - FOR ALL BLDGS., CONTRACTOR TO PROVIDE "ROOM I.D.", EXIT, 4 ISA SIGNAGE AT ALL EXTERIOR DOORS AT, SEE 10/SD1, TYP.
 - FOR ALL BLDGS., CONTRACTOR TO PROVIDE SIGNAGE AT ALL INTERIOR UNISEX TOILET ROOMS, SEE 10/SD1, TYP.
 - FOR HARD COURTS, FOR VOLLEYBALL/BASKETBALL COURT LAYOUT, SEE 2/SD1, TYP.
 - FOR AREAS INDICATED AS "LAWN" TO BE PROVIDED BY OWNER, TYP.

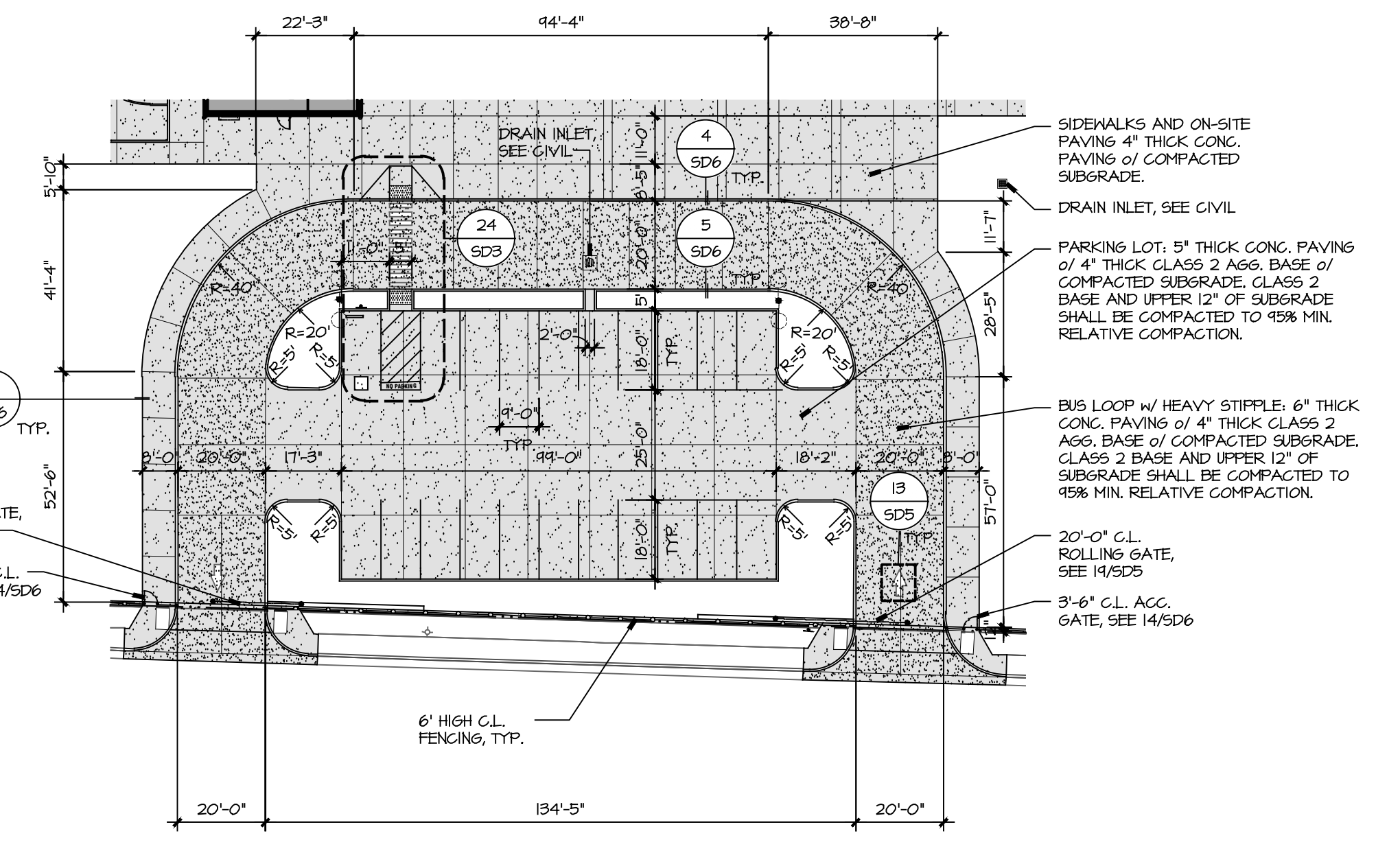
DETERIORATION OR EXISTING NON-COMPLIANT CONSTRUCTION
 IF ANY CONDITION IS DISCOVERED WHICH, IF LEFT UNCORRECTED, WOULD MAKE THE BUILDING NON-COMPLIANT WITH THE REQUIREMENTS OF THE EDITION OF THE CBC IN FORCE AT THE TIME OF ORIGINAL CONSTRUCTION, THE CONDITION MUST BE CORRECTED IN ACCORDANCE WITH CURRENT CODE REQUIREMENTS. A CONSTRUCTION CHANGE DOCUMENT, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK.



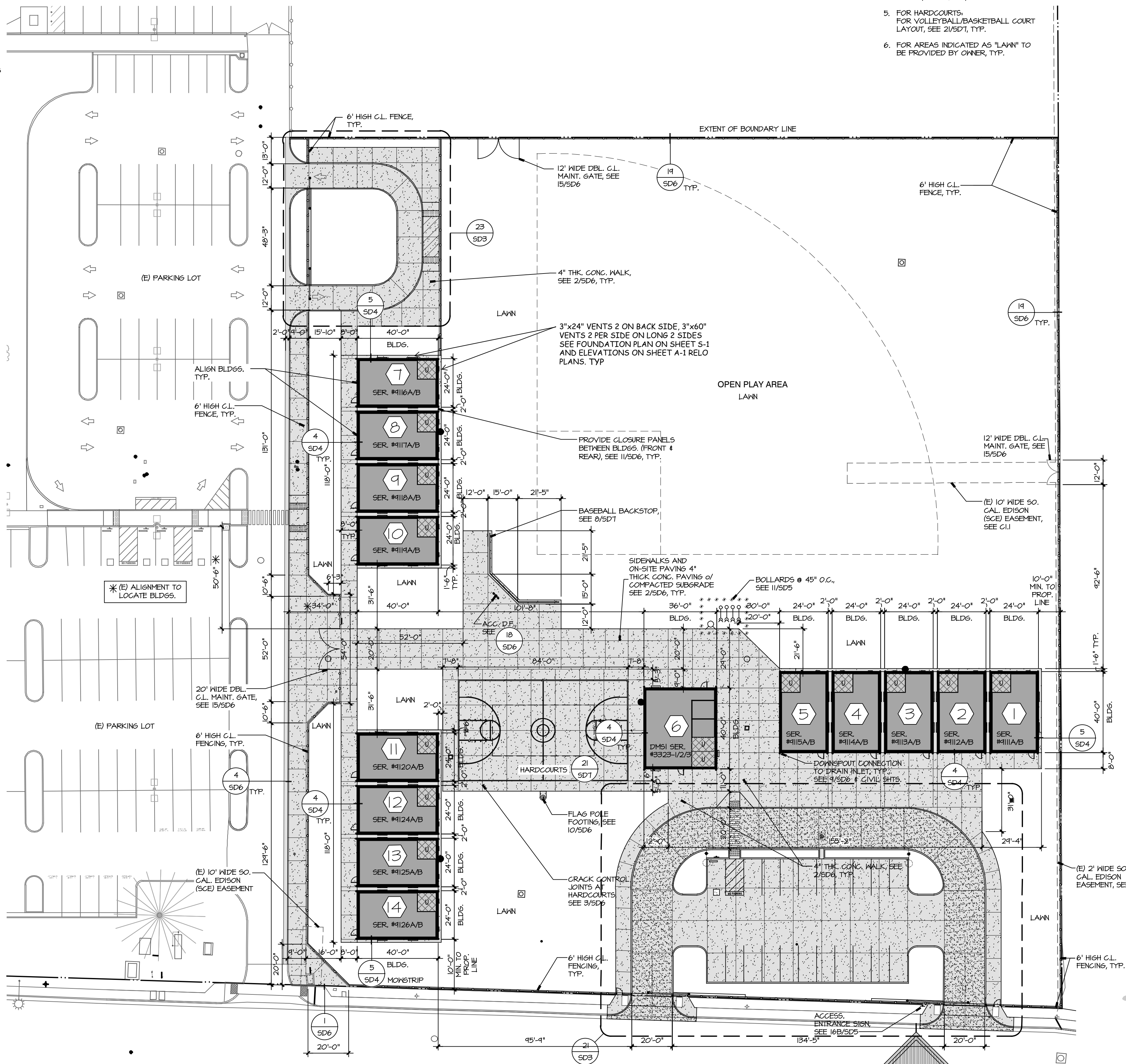
24 ACCESS. PARKING
 SCALE: 1/8" = 1'-0"

19 LOADING ZONE
 SCALE: 1/8" = 1'-0"

23 PARENT LOADING PLAN
 1" = 30'-0"

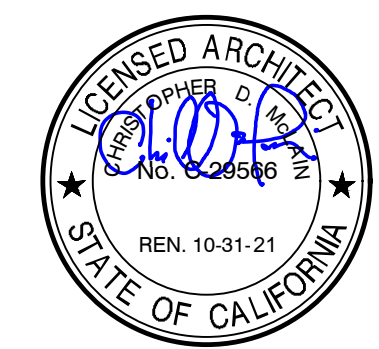


21 PARKING PLAN
 1" = 30'-0"



11 ENLARGED SITE PLAN
 1" = 30'-0"

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**ALTERNATIVE
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 PORTERVILLE UNIFIED SCHOOL DISTRICT
 914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257

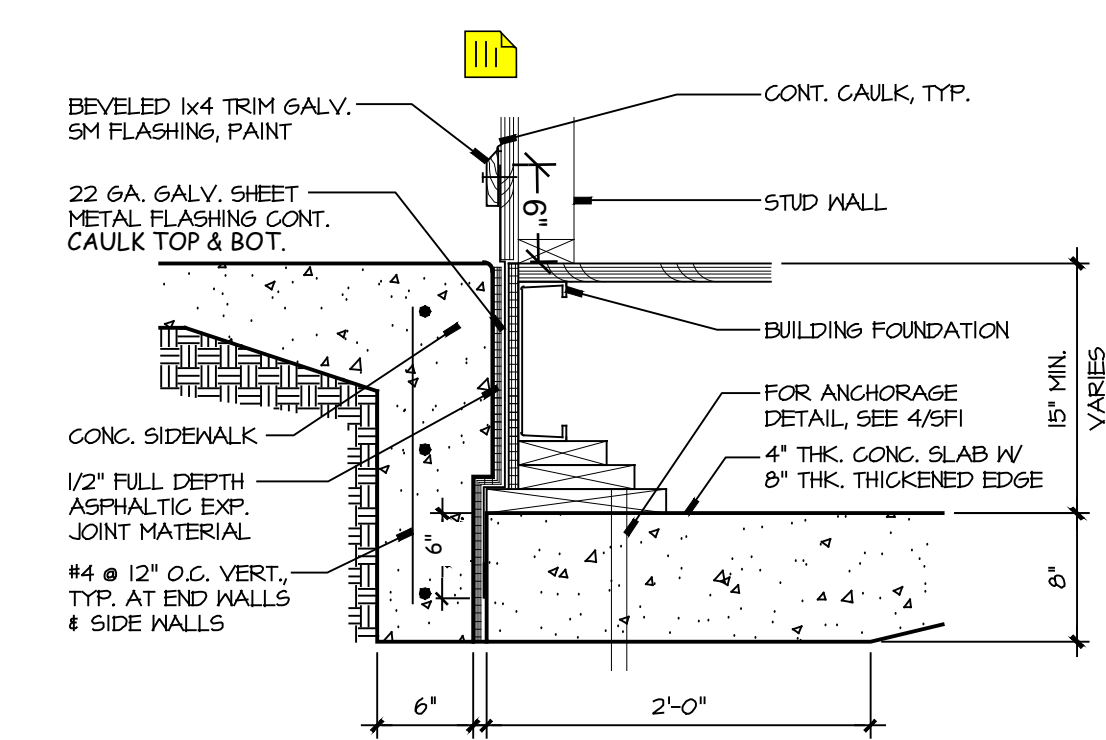
REVISIONS

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TITLE
 FOUNDATION
 DETAILS

SD4

PROJECT 1901

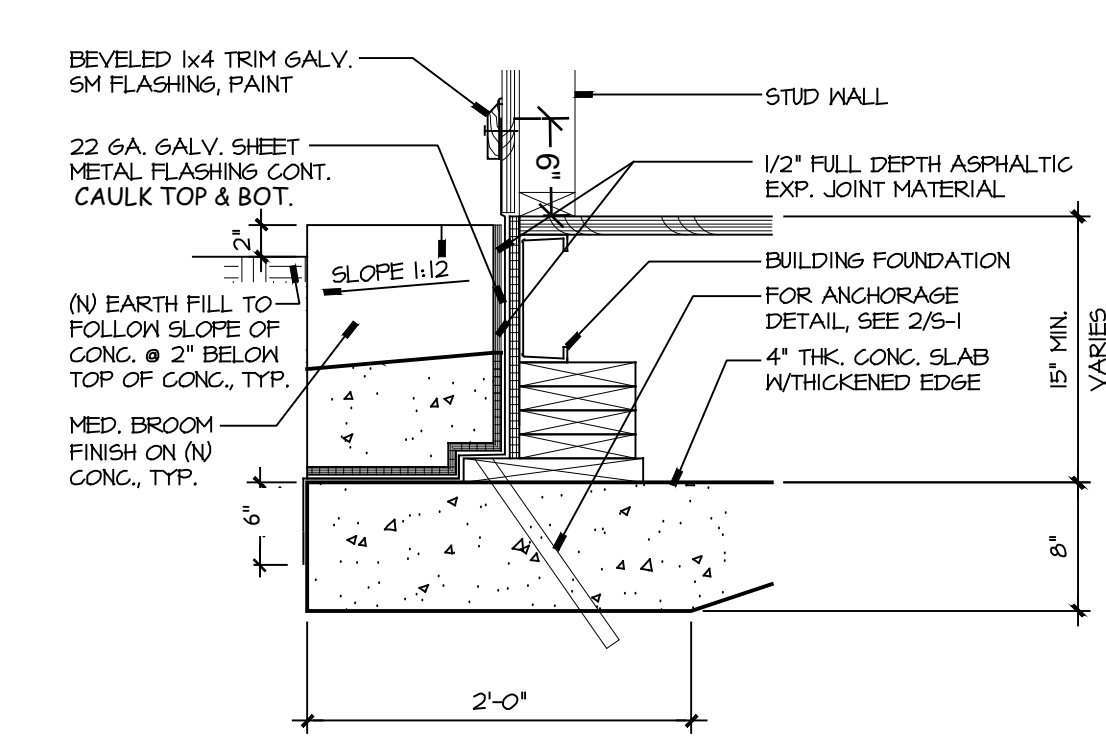


10 CONG. AT BLDG.
 SCALE: 1" = 1'-0"

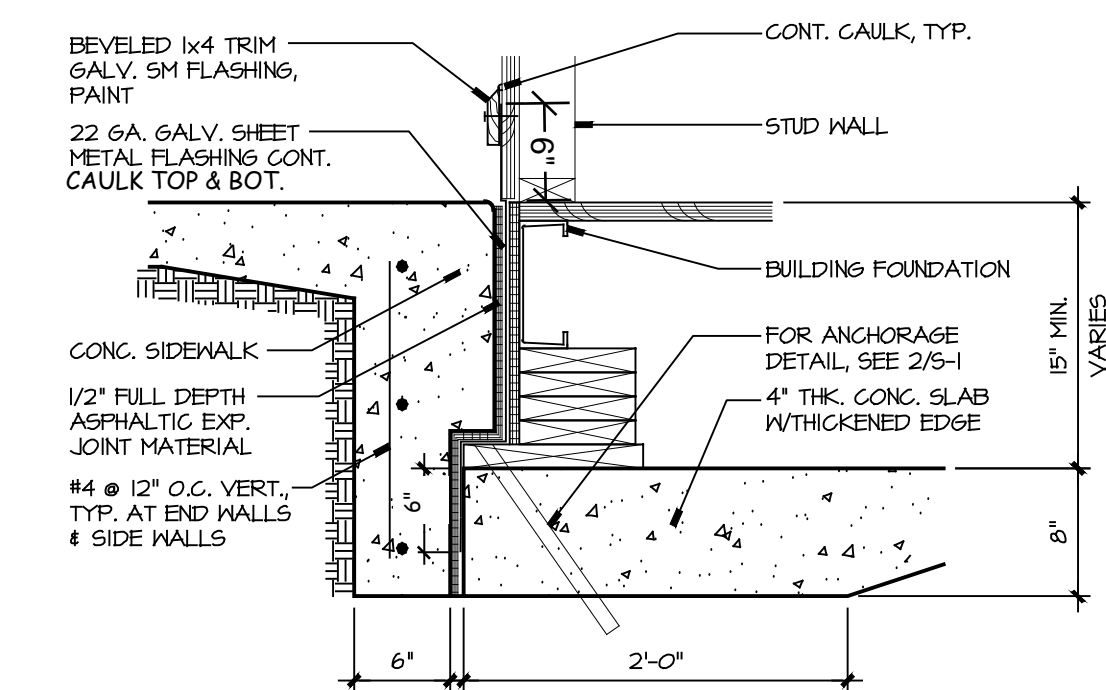
**UNDERFLOOR VENT.
 24'x40' RELOS.**
 900 - 150 = 6.4 SF VENT AREA REQ.
 5' x 25' = 1.25 SF x 4 VENTS = 5 SF VENT
 2' x 25' = .86 SF x 2 VENTS = 1.72 SF VENT
 4.64' + 1.72' = 6.72 SF VENTS
 6.72 SF > 6.4 THEREFORE OKAY

**UNDERFLOOR VENT.
 24'x40' RELO.: BLDG. 5**
 900 - 1,500 = 0.64 SF VENT AREA REQ.
 2' x 25' = .86 SF x 1 VENT = 0.86 SF VENT
 5' x 25' = 1.25 SF x 2 VENT = 2.5 SF VENT
 0.86' + 2.5' SF = 3.36 SF VENTS
 3.36 SF > 0.64 THEREFORE OKAY

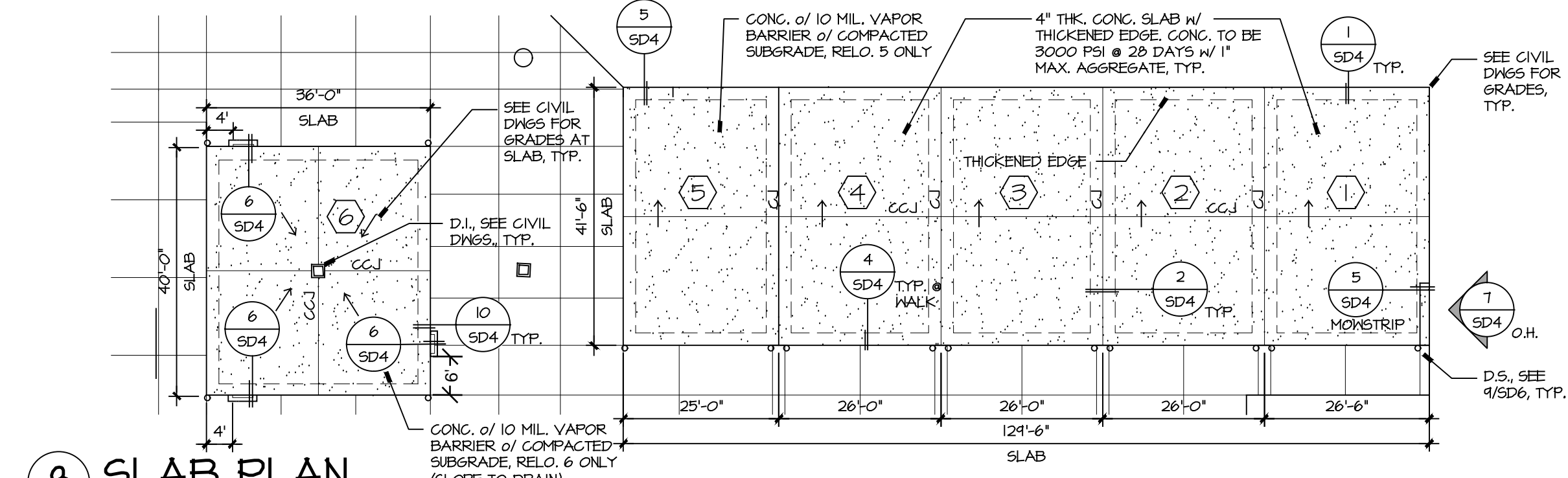
**UNDERFLOOR VENT.
 36'x40' RELO.: BLDG. 6**
 1,440 - 1,500 = 0.96 SF VENT AREA REQ.
 3.85' x 25' = .96 SF x 3 VENT = 2.88 SF VENT
 2.88 SF > 0.96



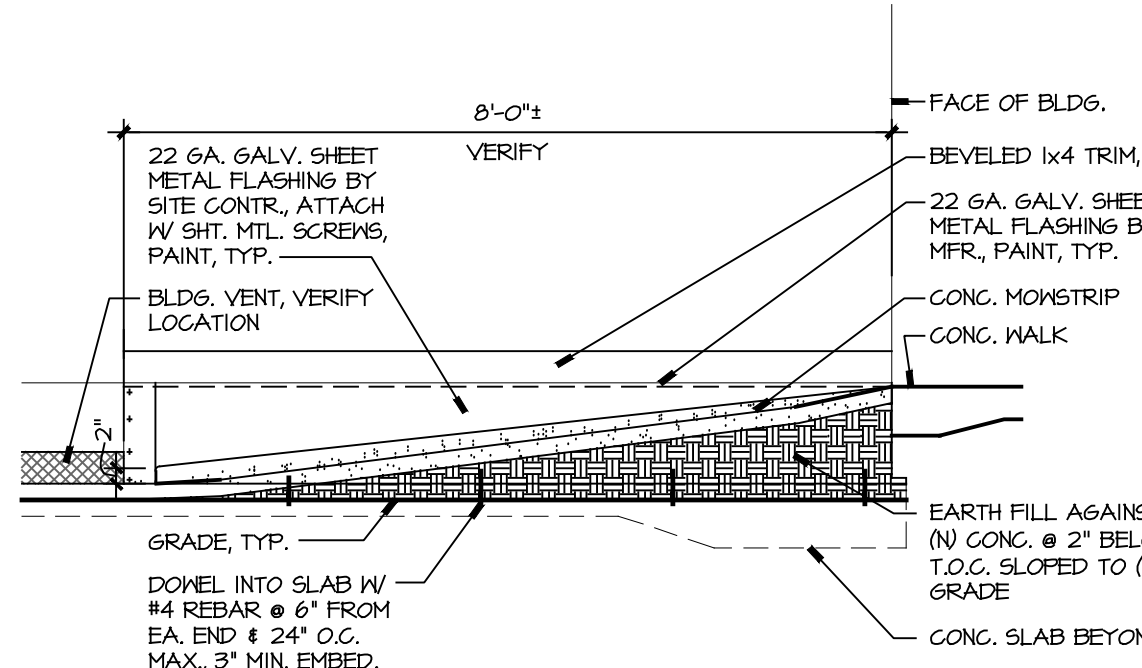
5 CONG. MOWSTRIP AT BLDG.
 SCALE: 1" = 1'-0"



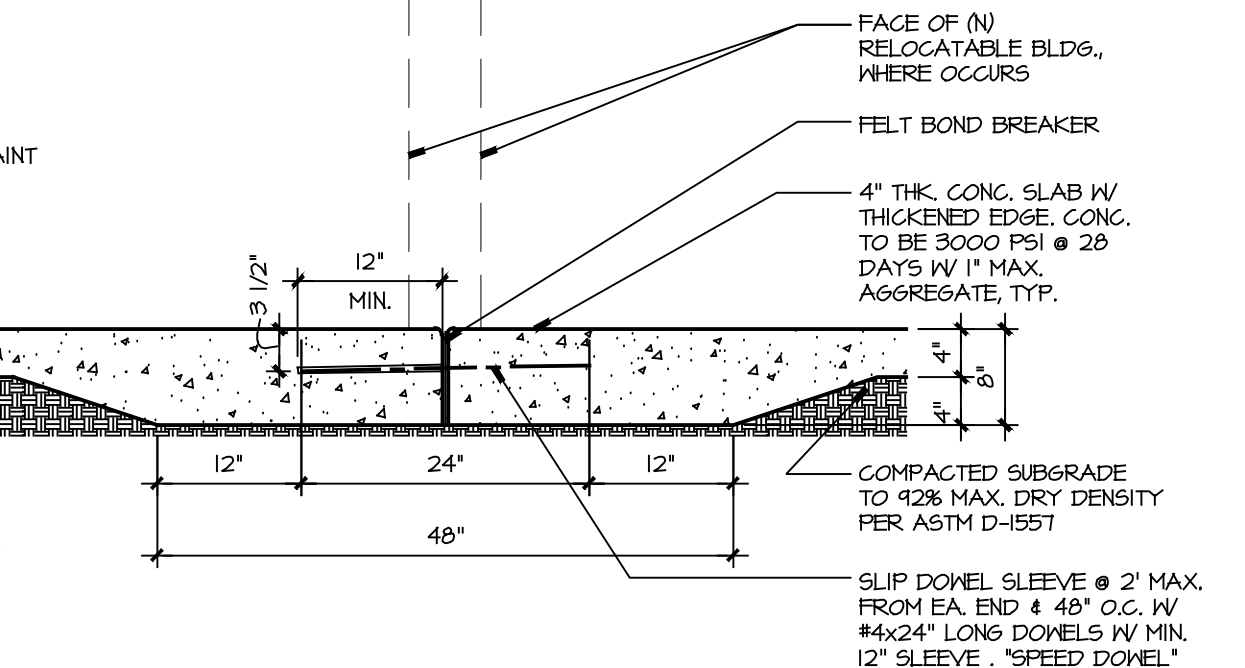
4 CONG. AT BLDG.
 SCALE: 1" = 1'-0"



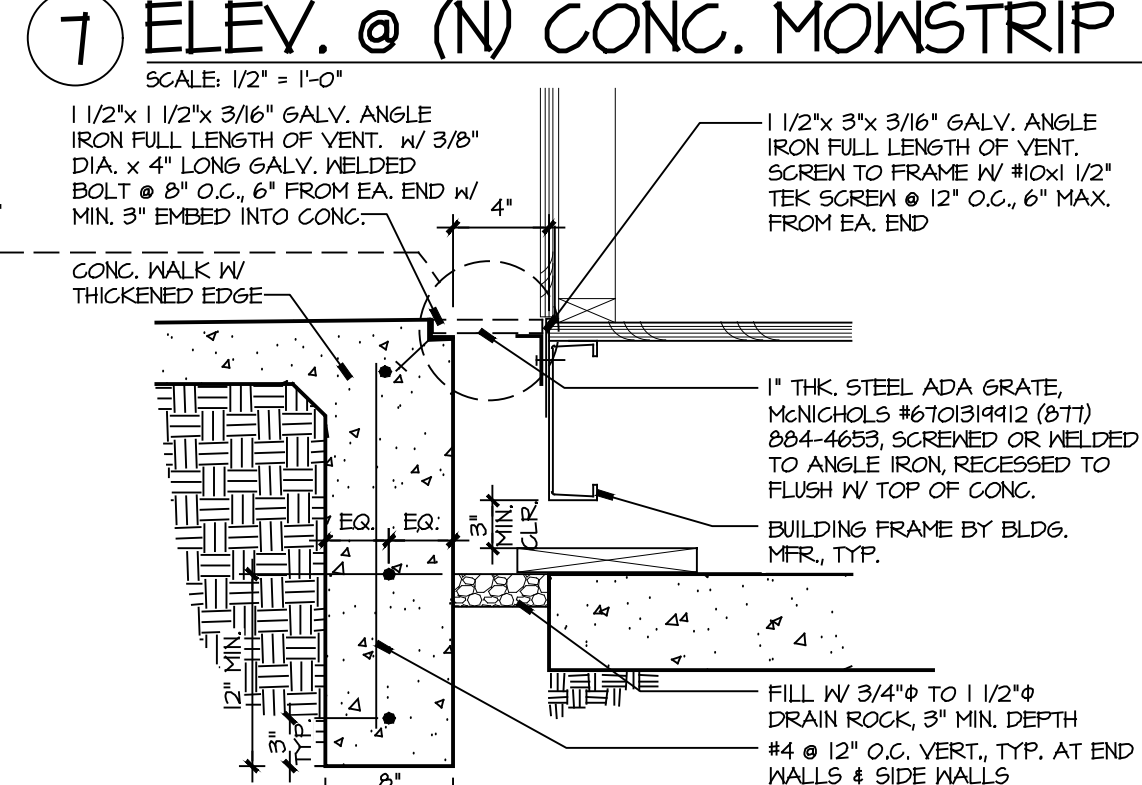
8 SLAB PLAN
 1" = 20'-0"



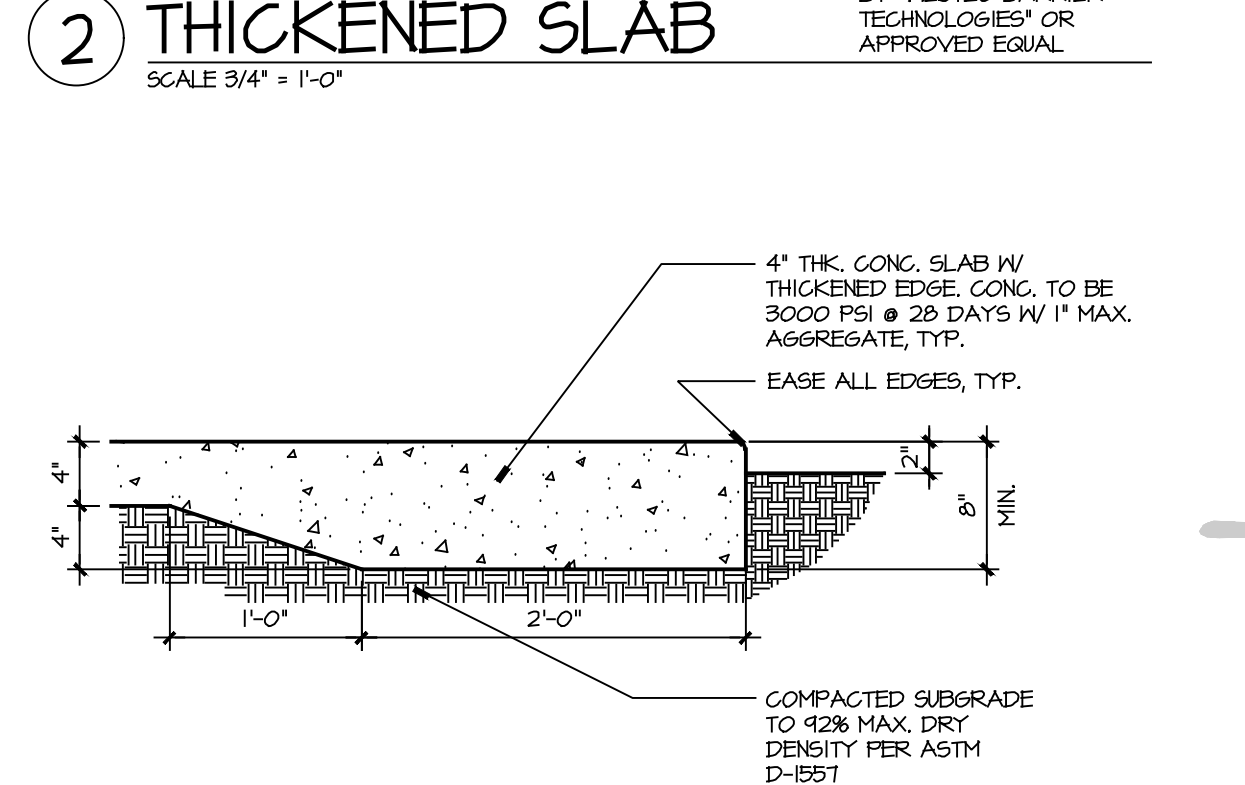
7 ELEV. @ (N) CONG. MOWSTRIP
 SCALE: 1/2" = 1'-0"



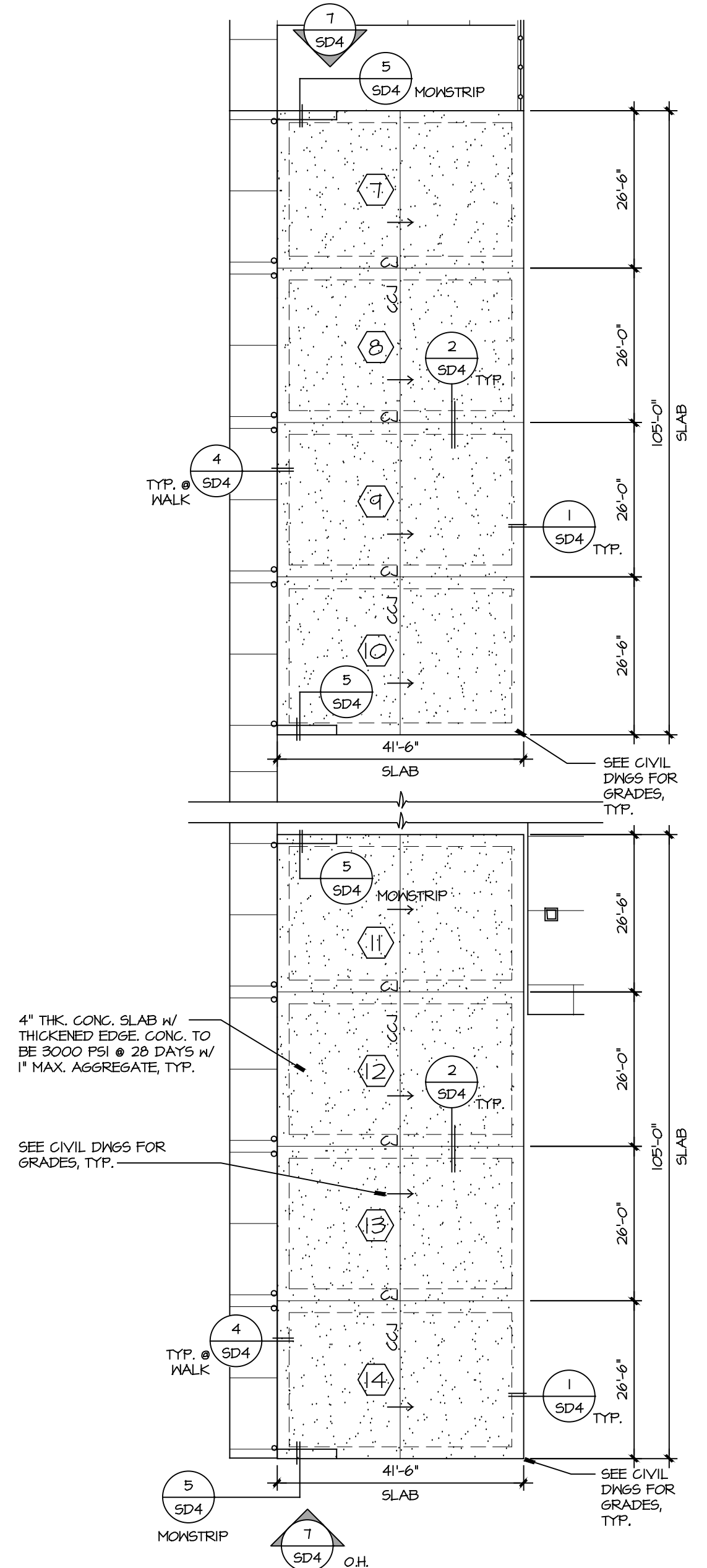
2 THICKENED SLAB
 SCALE: 3/4" = 1'-0"



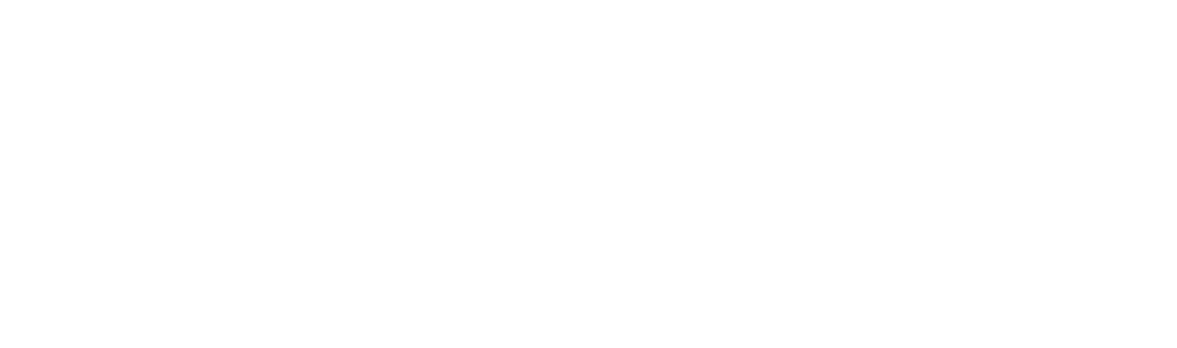
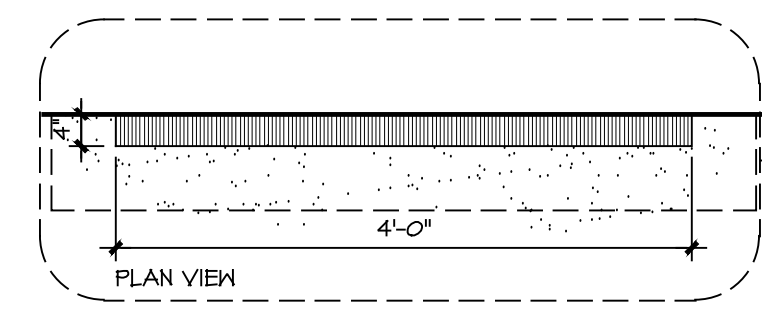
6 VENTING AT BUILDING
 SCALE: 1" = 1'-0"



1 THICKENED EDGE @ SLAB
 SCALE: 1" = 1'-0"

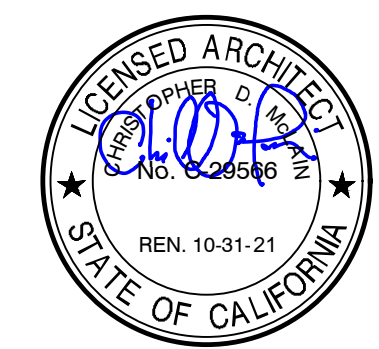


12 SLAB PLAN
 1" = 20'-0"

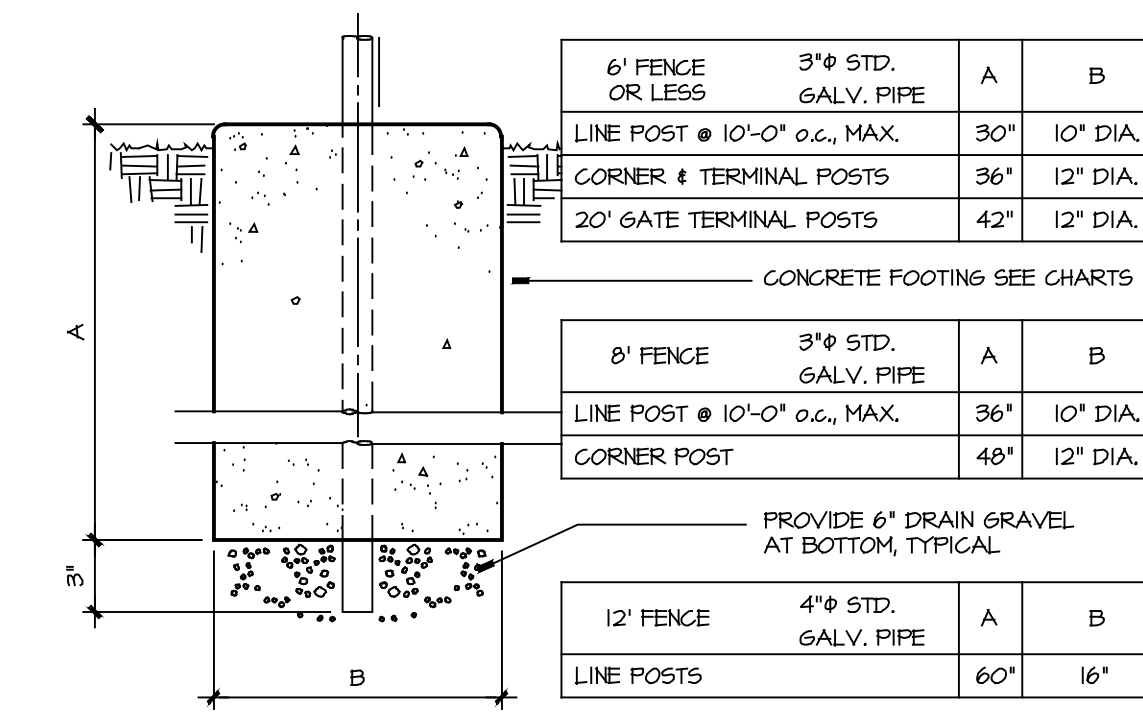


11 THICKENED EDGE
 SCALE: 1" = 1'-0"

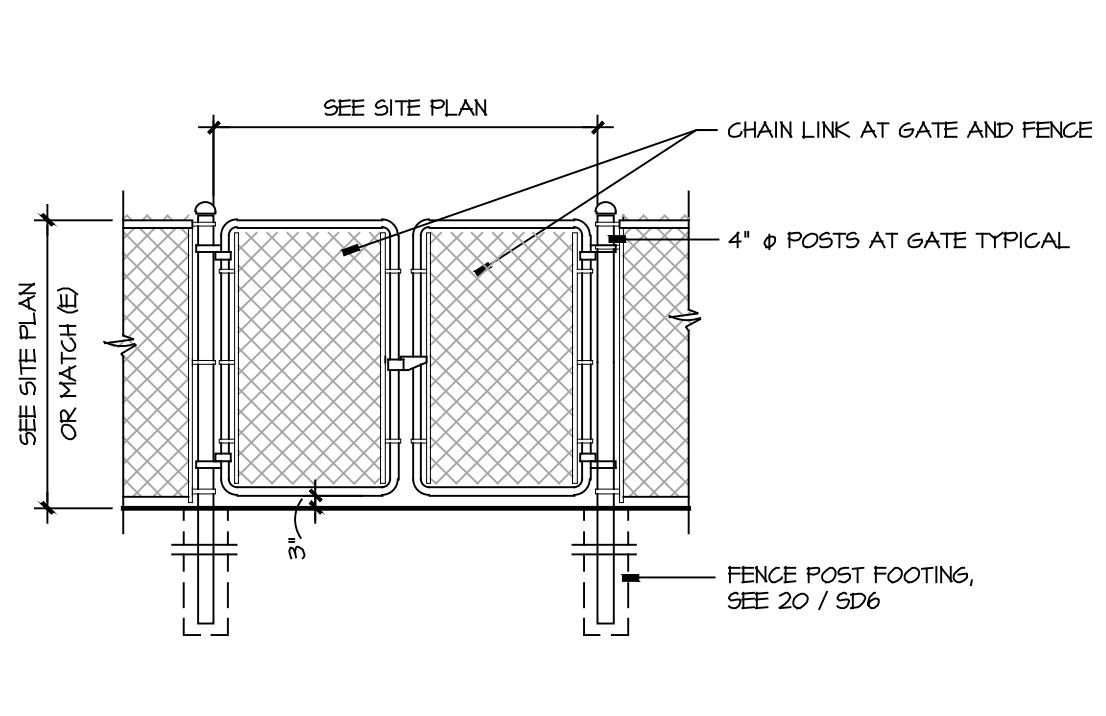
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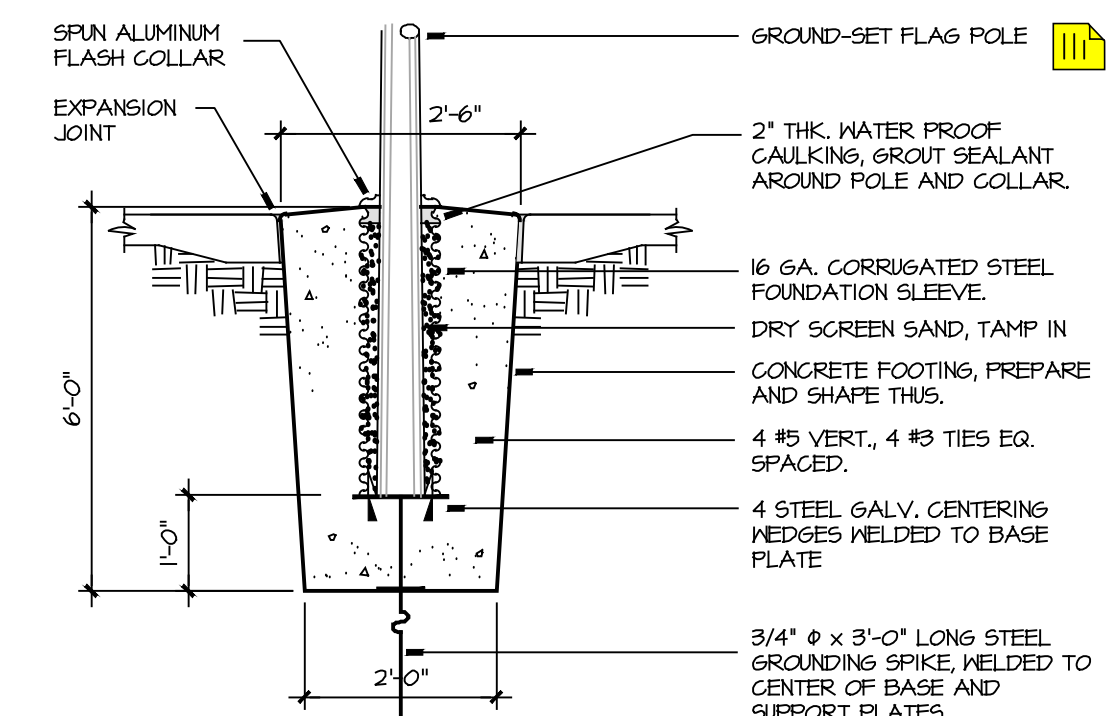
DATE: JULY 10, 2019



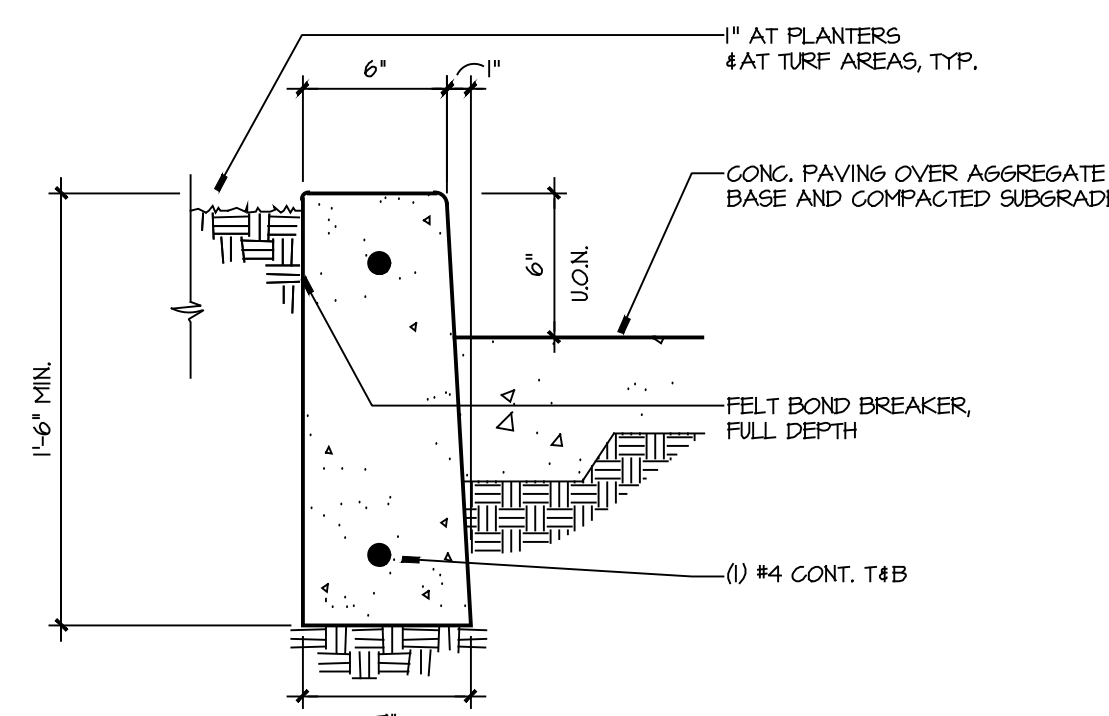
20 C.L. FENCE POST FOOTING
 1/2" = 1'-0"



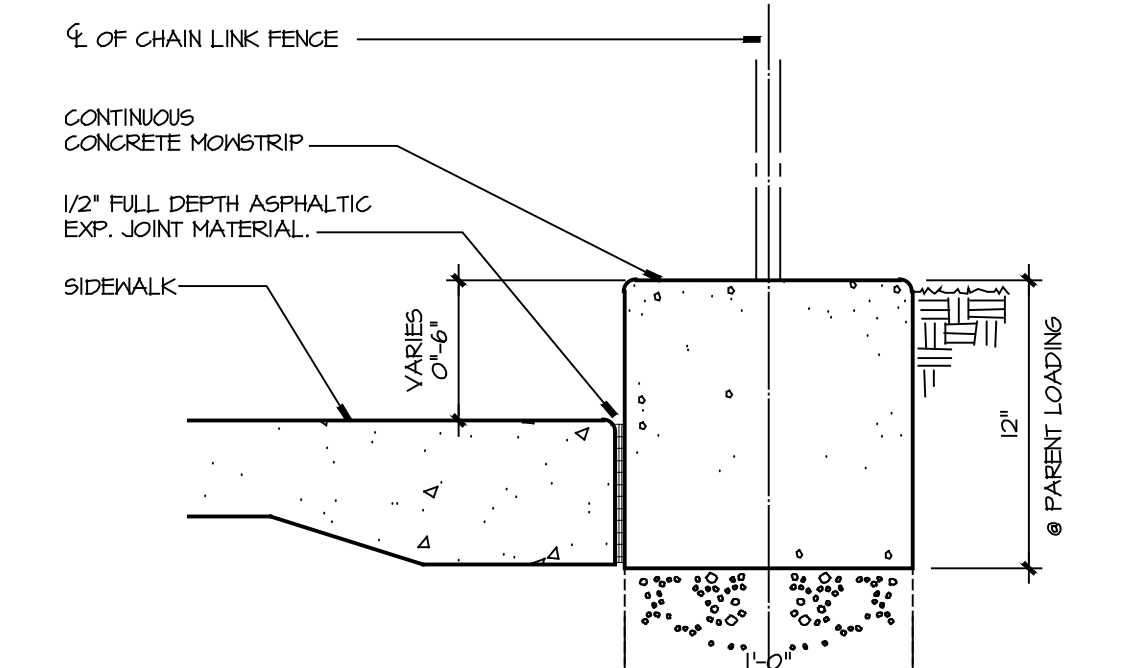
15 C.L. DBL. MAINT. GATES
 SCALE: 1/4" = 1'-0" (NOT ACCESSIBLE)



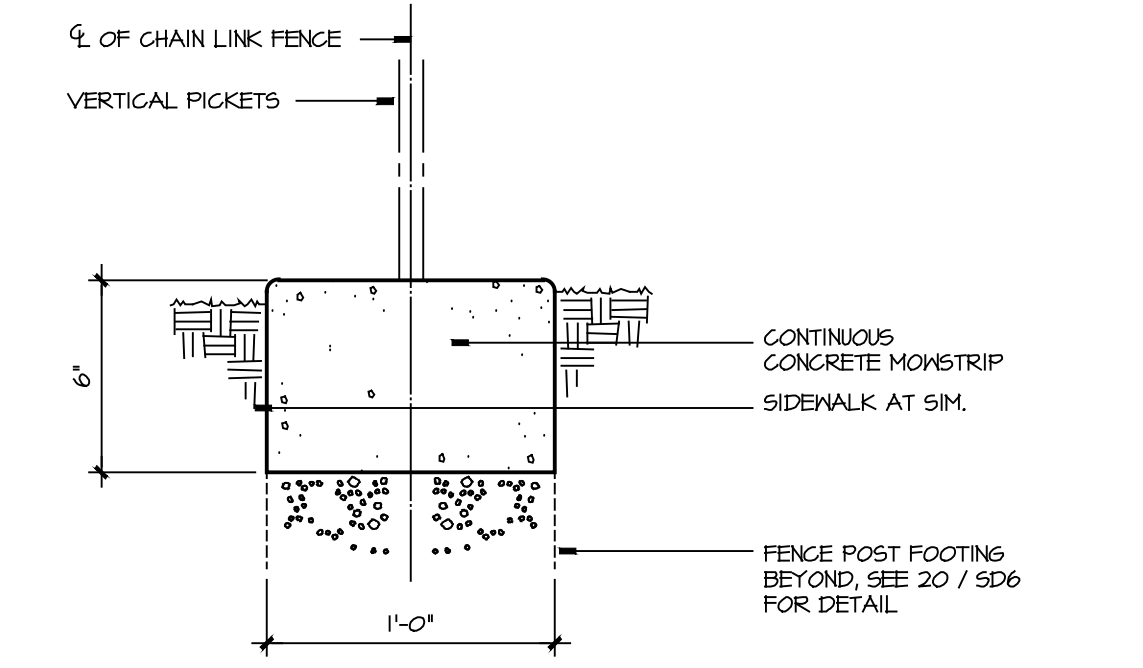
10 FLAG POLE FOOTING
 1/2" = 1'-0" (NOT FOR DSA REVIEW)



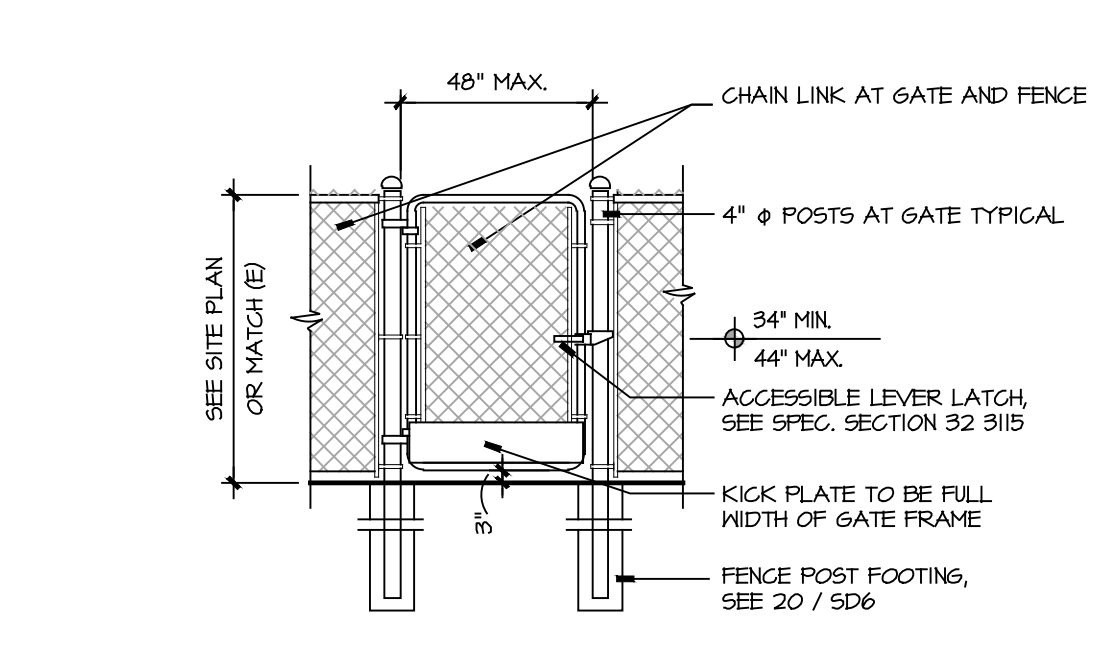
5 CONG. CURB AT PLANTER
 1/2" = 1'-0"



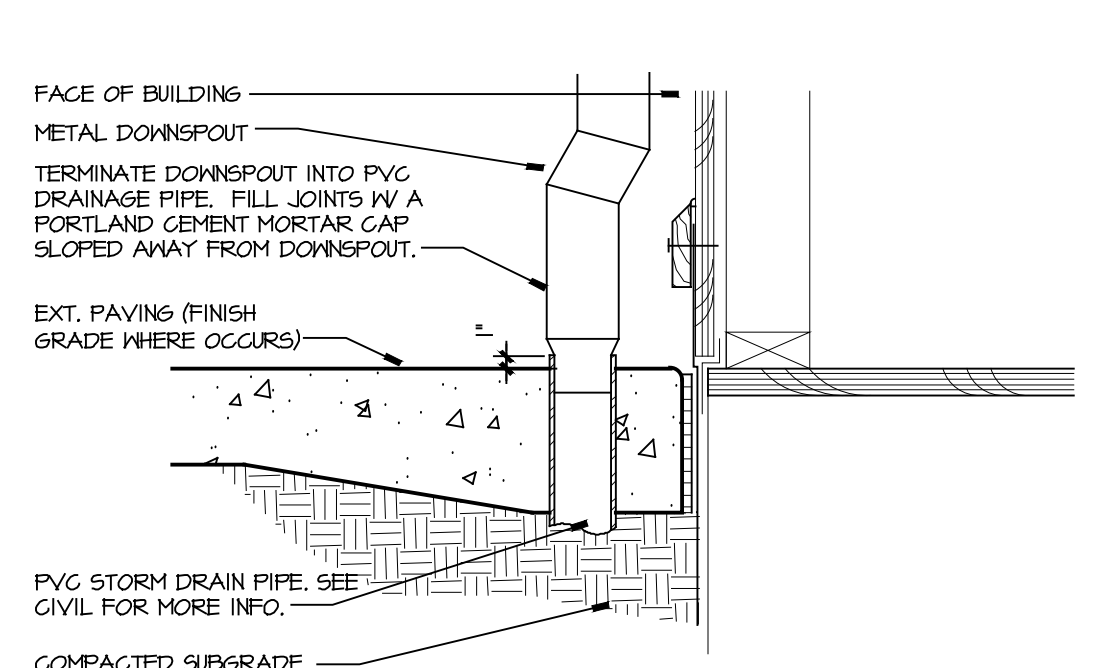
24 FENCE MOW STRIP @ LOADING
 1/2" = 1'-0"



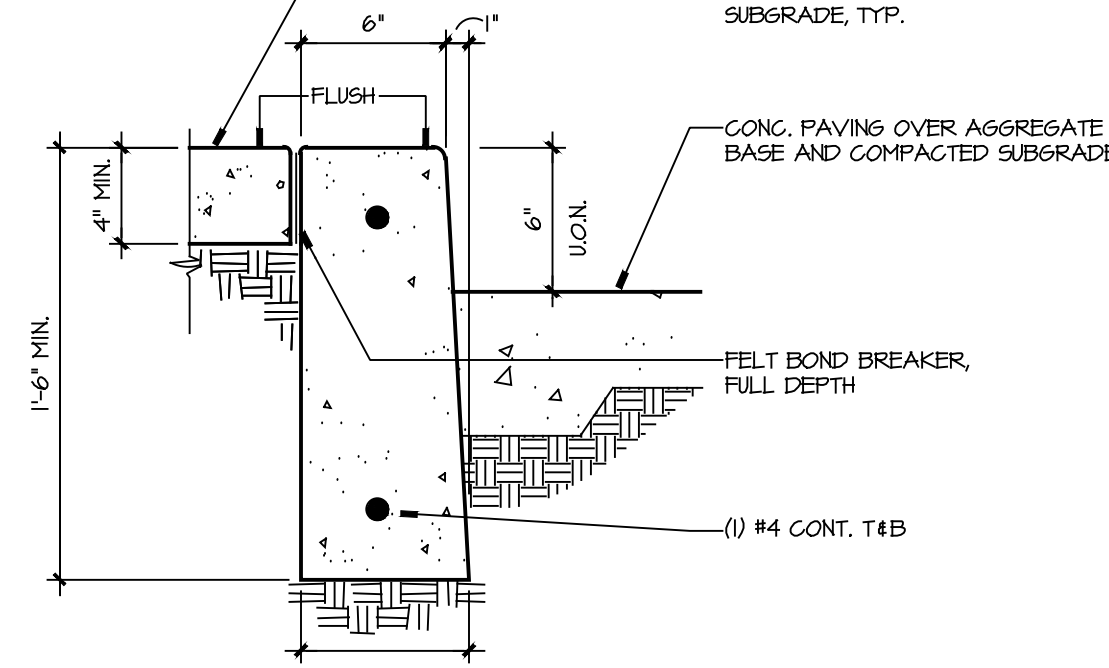
19 FENCE MOW STRIP
 1/2" = 1'-0"



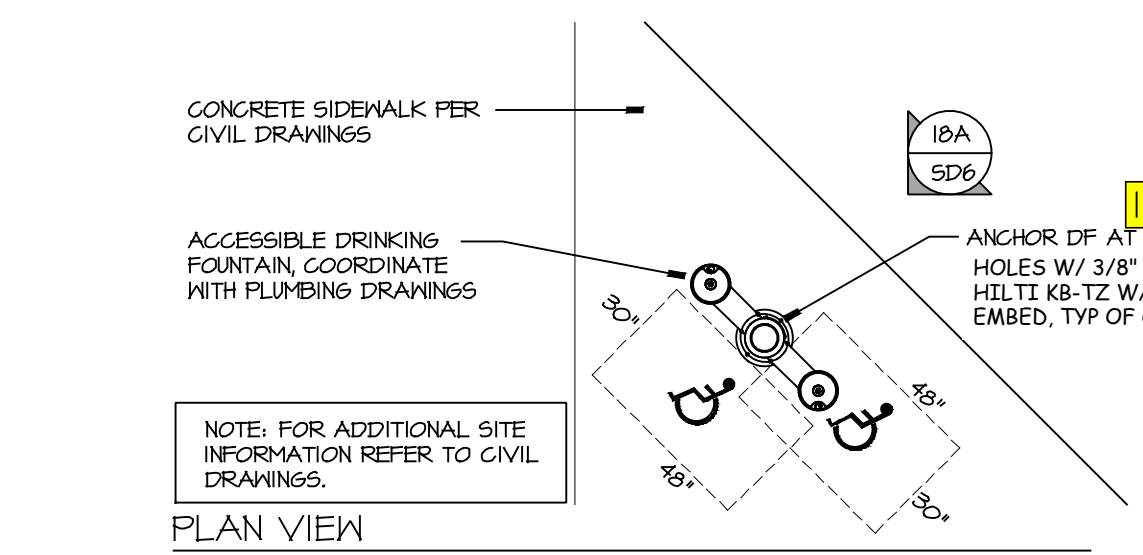
14 C.L. PEDESTRIAN GATE
 SCALE: 1/4" = 1'-0"



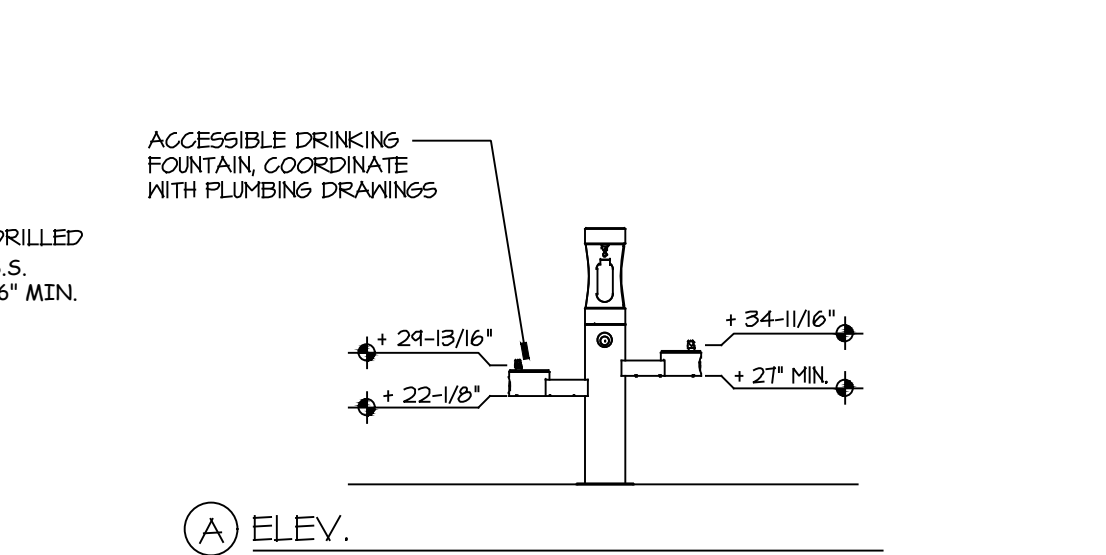
9 DOWNSPOUT
 1/2" = 1'-0"



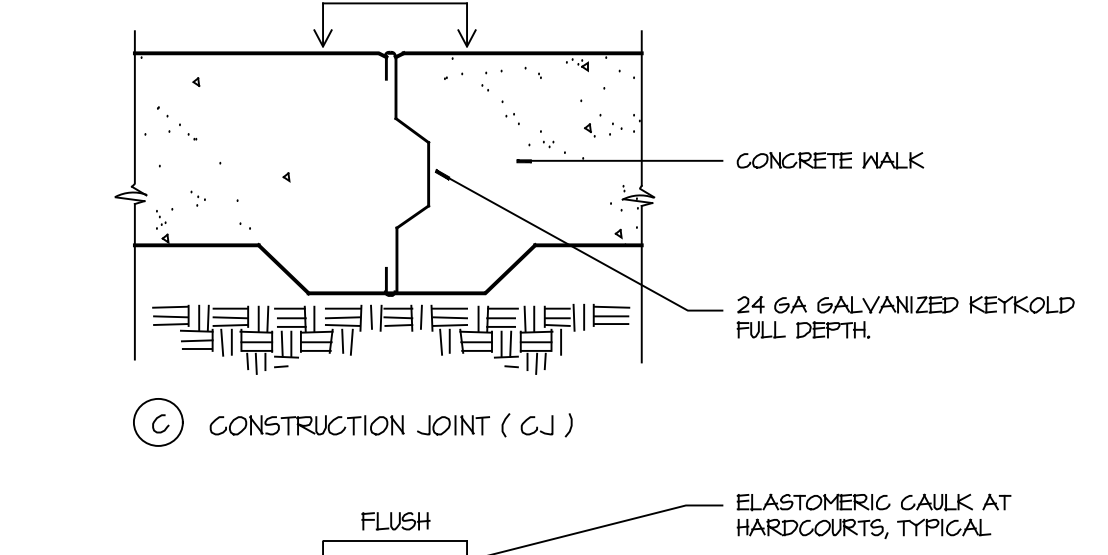
4 CONG. CURB / WALK AT PAVING
 1/2" = 1'-0"



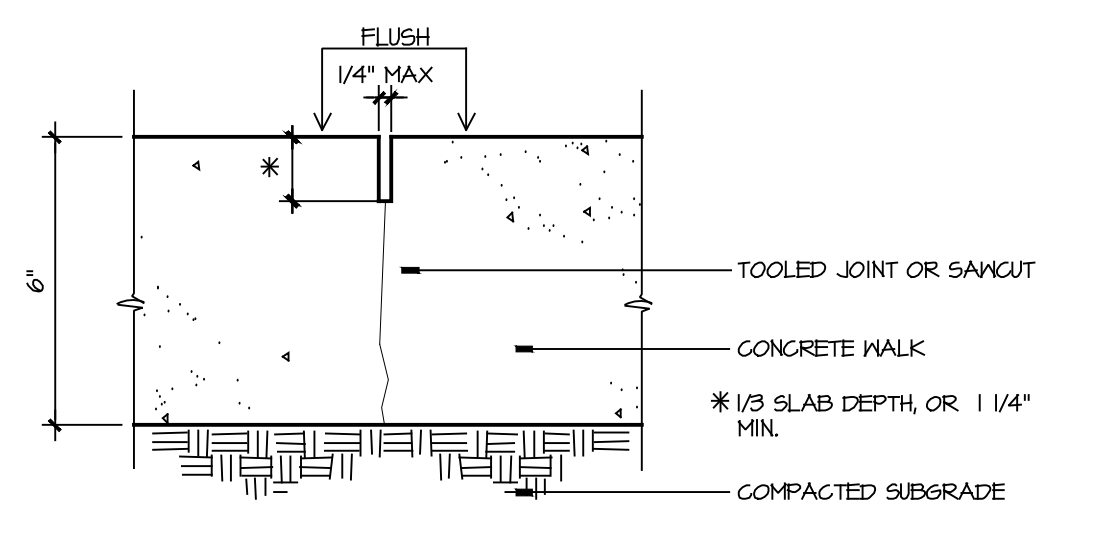
18 TYP. ACCESS. DRINKING FTN.
 1/4" = 1'-0"



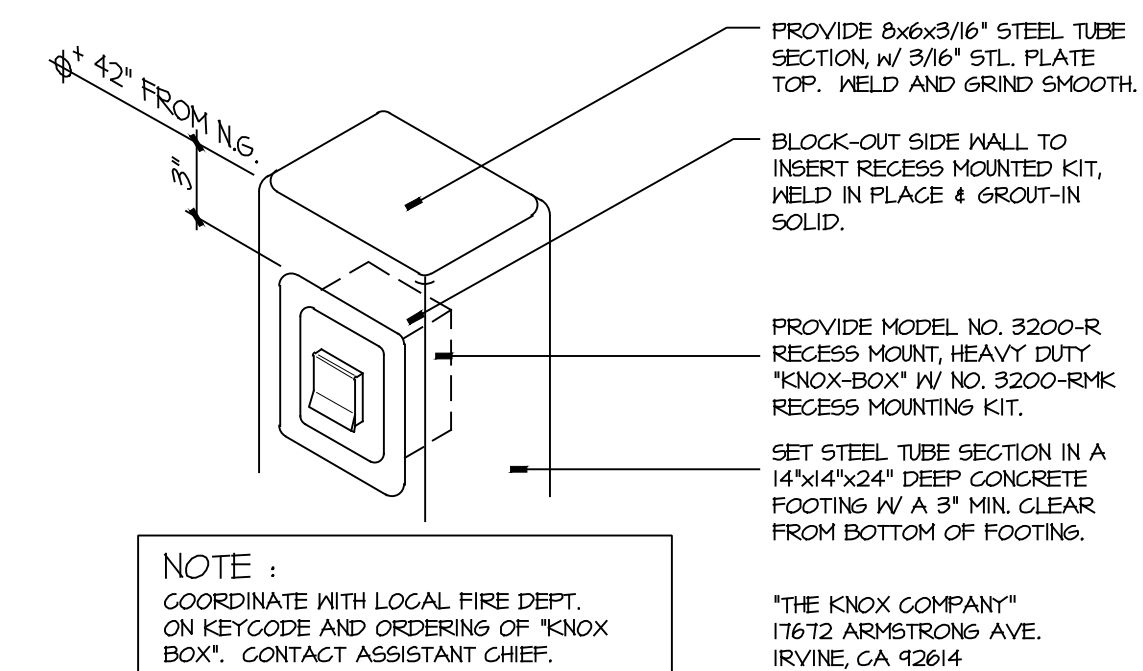
12 SECTION AT CLOSURE PANEL
 1/2" = 1'-0"



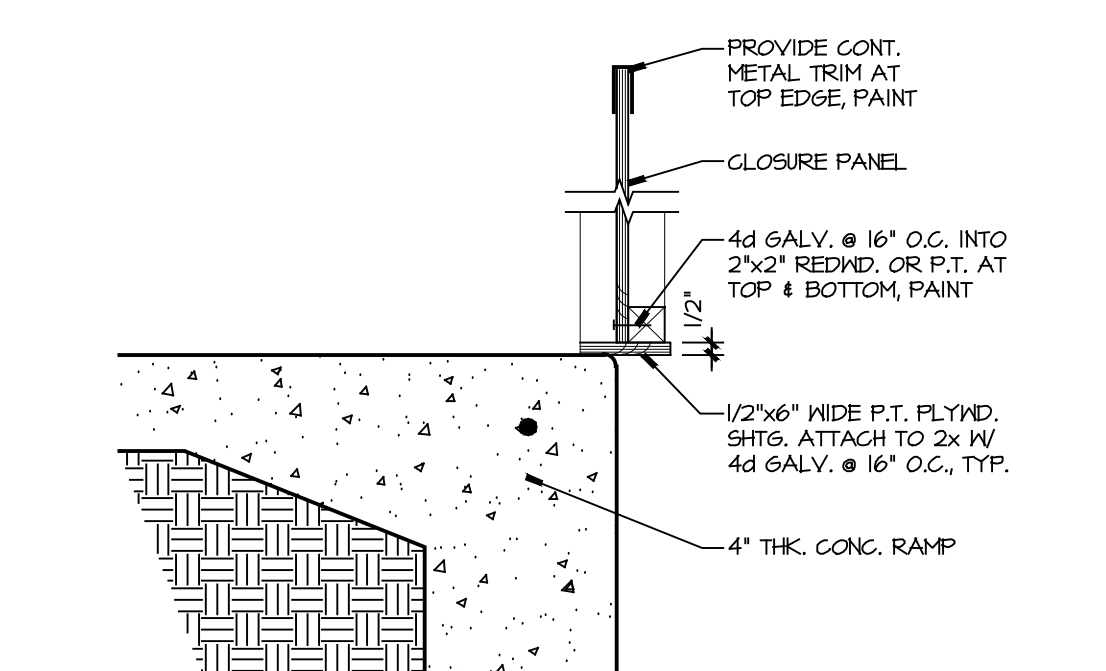
7 CONCRETE JOINTS
 1/2" = 1'-0"



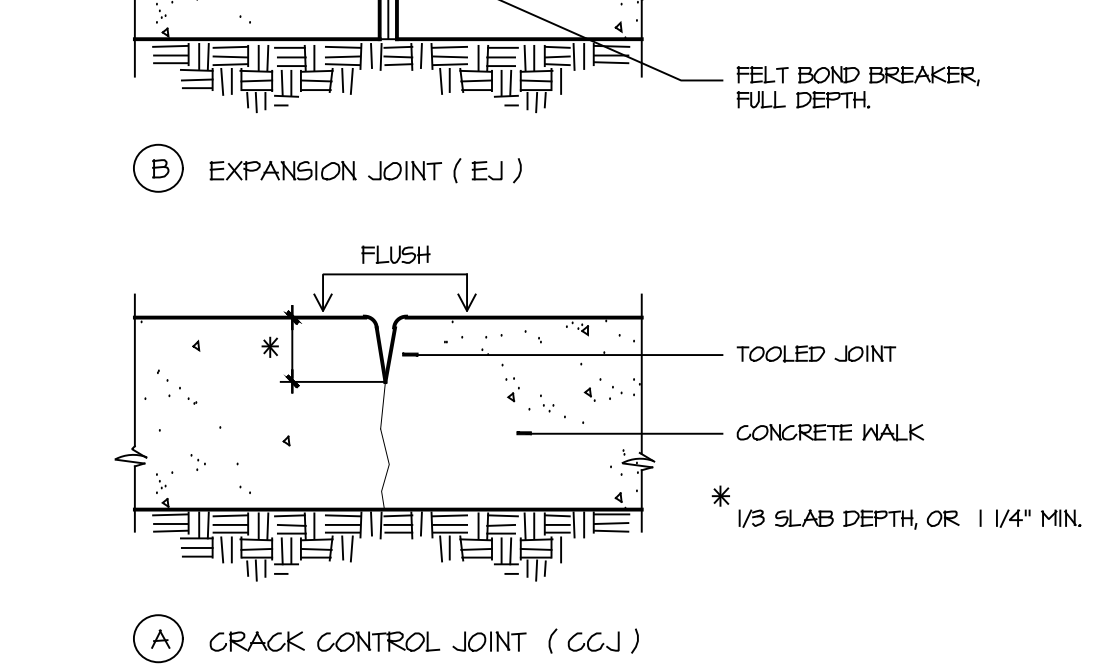
3 HARDCOURTS CRACK CONTROL JOINT (CCJ)
 SCALE: 3" = 1'-0"



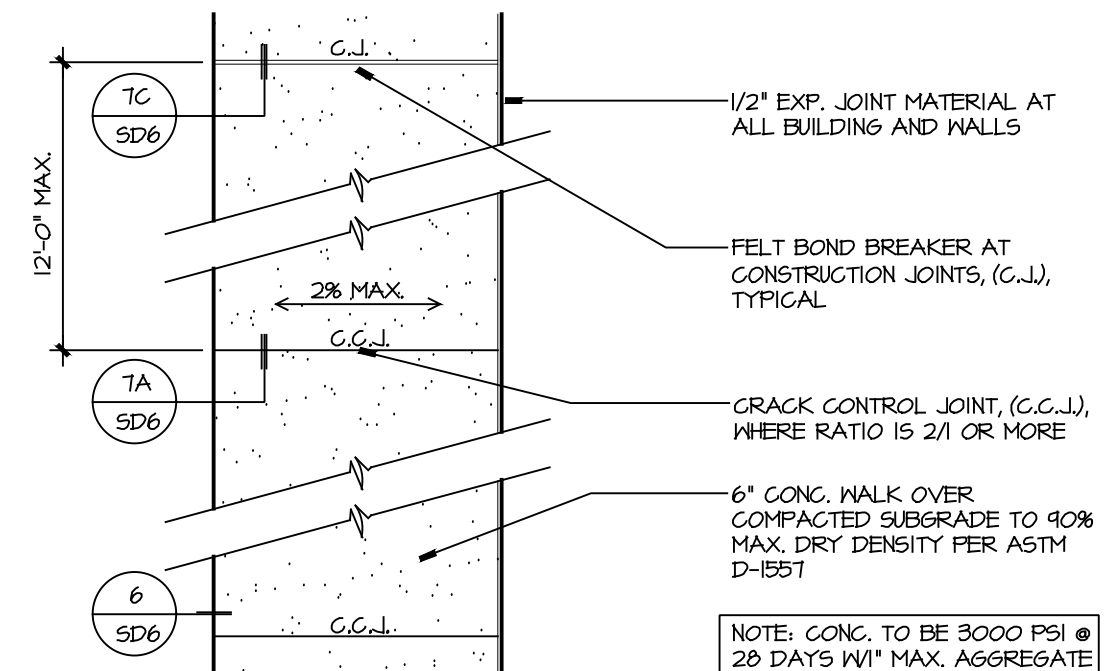
17 KNOX BOX
 N.T.S.



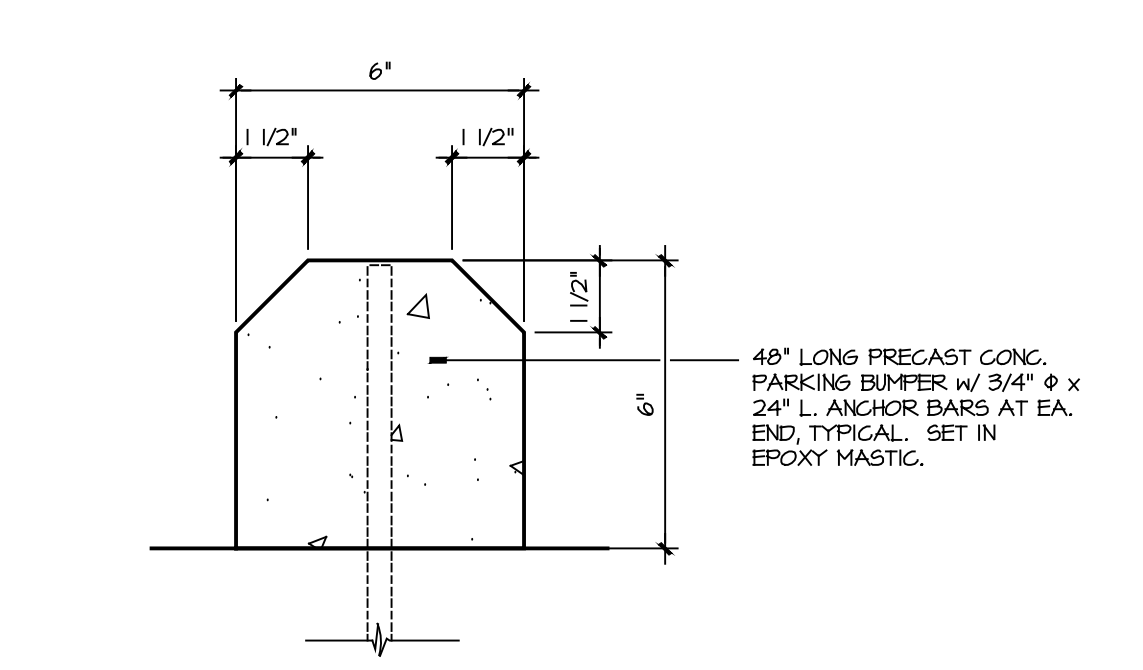
11 CLOSURE PANEL
 1/2" = 1'-0"



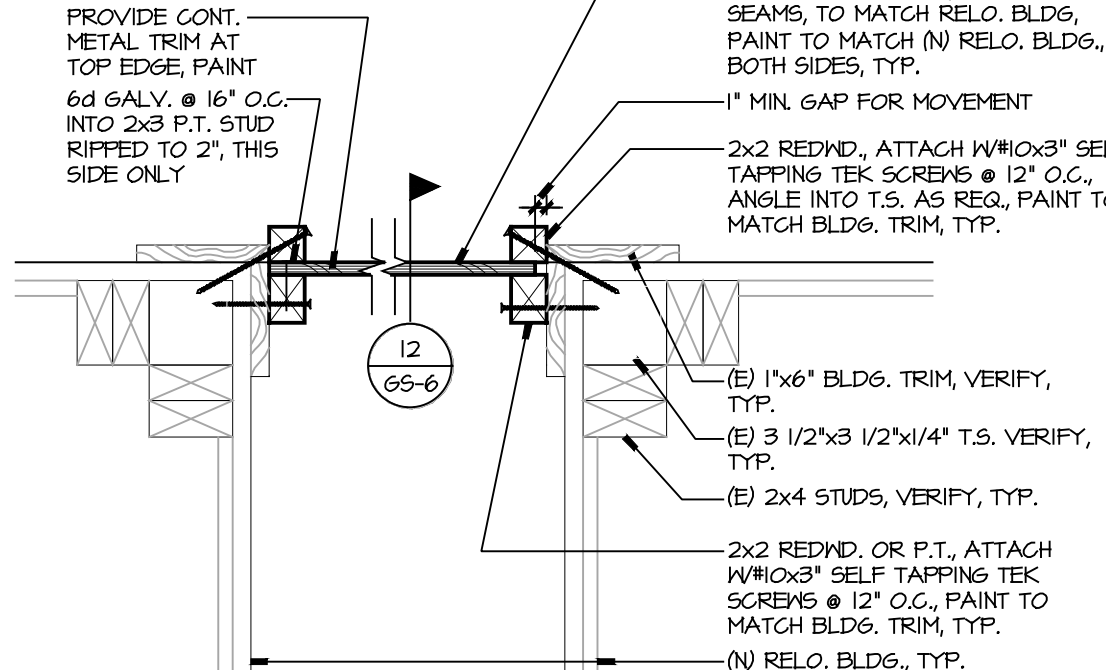
2 CONCRETE WALK
 1/4" = 1'-0"



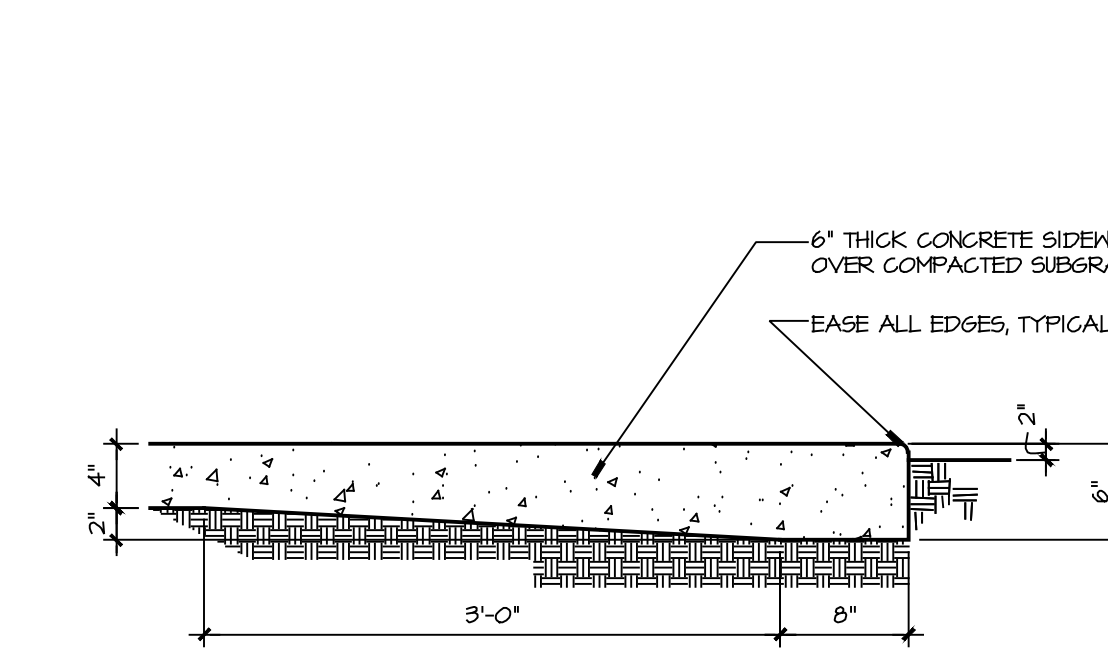
1 (N) CONG. WALK @ (E) WALK
 SCALE: 1" = 1'-0"



16 CONG. WHEEL STOP
 3" = 1'-0"



6 CONCRETE SIDEWALK
 1" = 1'-0"



CONCRETE SIDEWALK
 1" = 1'-0"

ALTERNATIVE
 EDUCATION COMPLEX
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 914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257

REVISIONS	

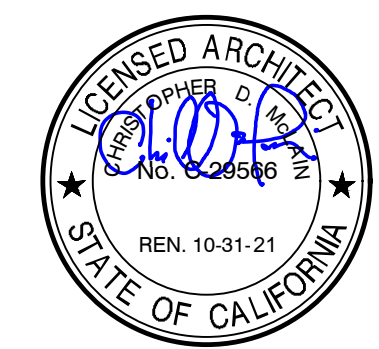
MANGINI ARCHITECTURE
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TITLE
 SITE
 DETAILS

SD6

PROJECT 1901

IDENTIFICATION STAMP
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TITLE
 SITE
 DETAILS

SD5

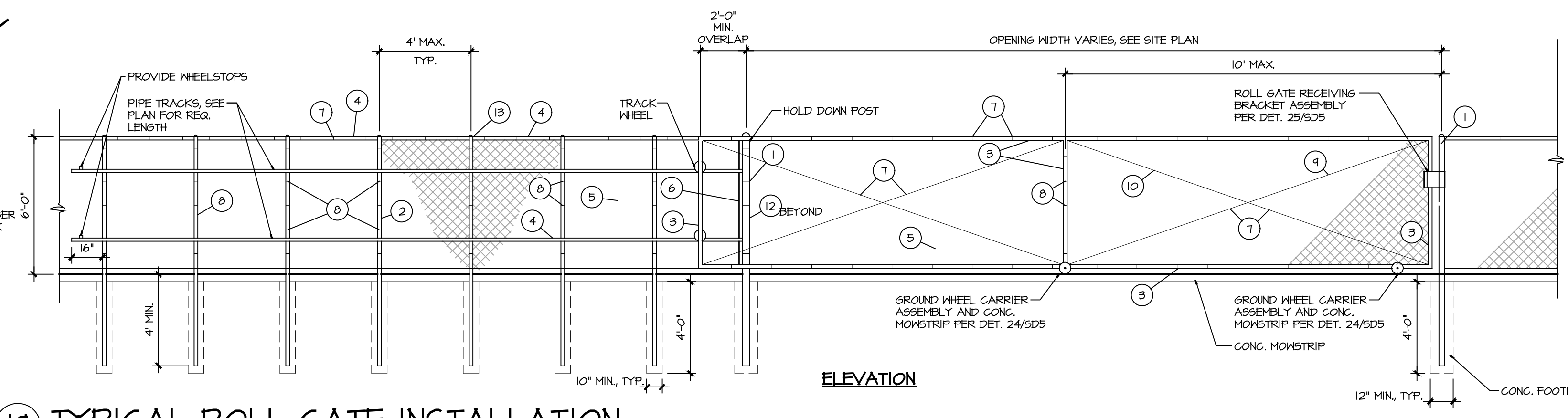
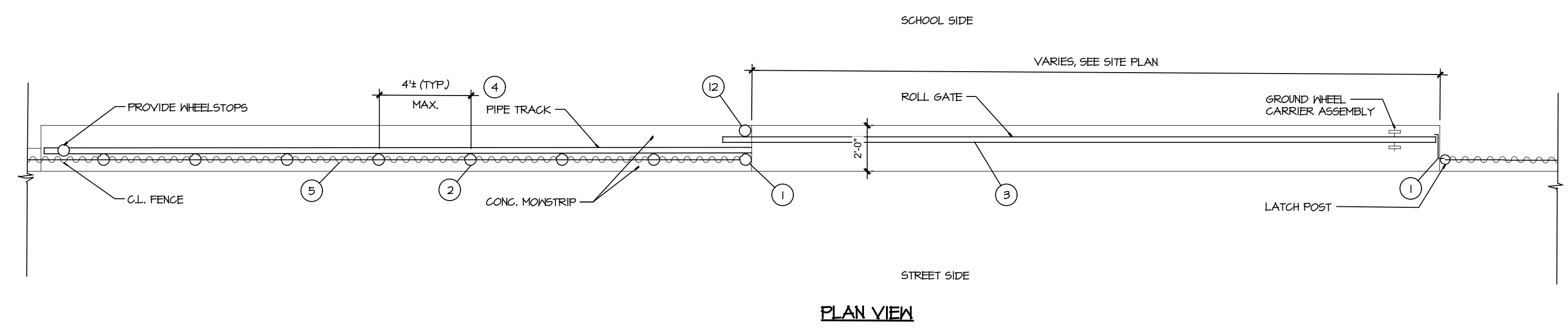
PROJECT 1901

ROLL GATE FENCING ITEMS TO BE FURNISHED AND INSTALLED

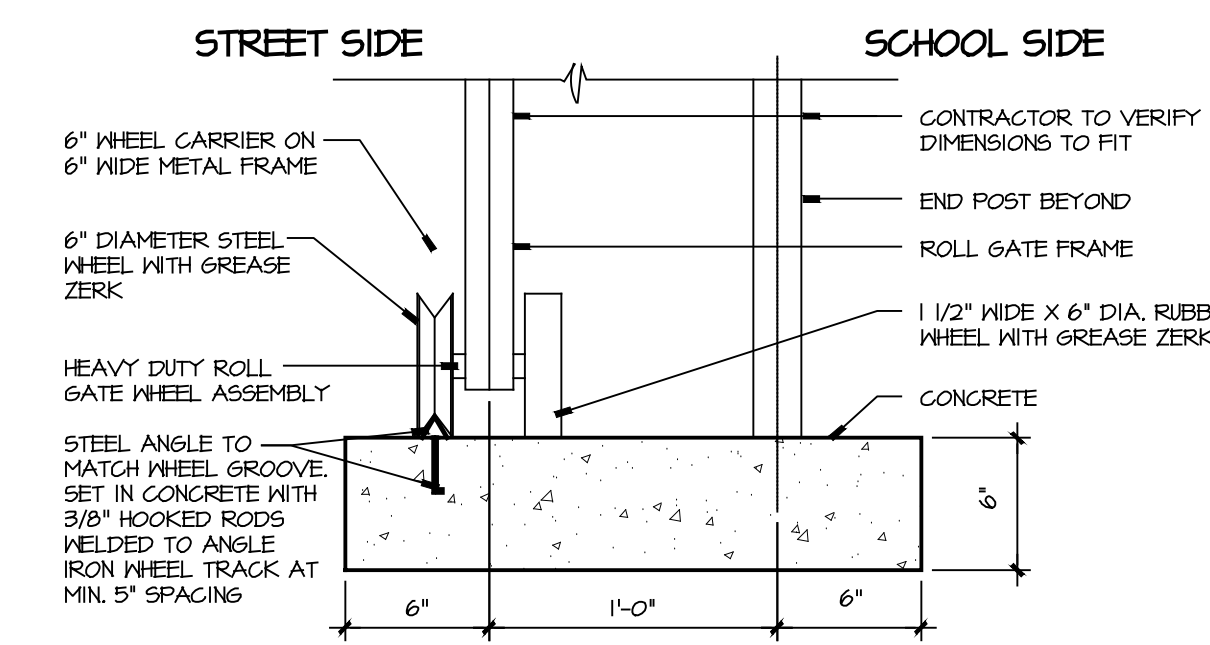
- 1 2 1/8" O.D. GALV. STEEL END, ANGLE OR CORNER POST (5.74 lbs/ft)
- 2 1 7/8" O.D. GALV. STEEL LINE POST (3.65 lbs/ft)
- 3 2" O.D. GALV. STEEL GATE FRAME (2.72 lbs/ft)
- 4 1 5/8" O.D. GALV. STEEL HORIZONTAL RAIL (2.21 lbs/ft)
- 5 2" x 2" MESH x 9 GAUGE GALV. FENCE FABRIC WITH KNUCKLED TOP AND BOTTOM GALVANIZED BEFORE HEAVING, (66W)
- 6 3/16" x 5/8" GALV. STEEL STRETCHER BAR
- 7 9 GAUGE (0.148") DIA. GALV. STEEL TIE WIRES OR HOG RINGS AT 15" MAX. SPACING
- 8 6 GAUGE (0.192") GALV. STEEL POST CLIPS AT 14" MAX. SPACING
- 9 TURNBUCKLE ADJUSTERS FOR 3/8" DIA. TRUSS RODS
- 10 3/8" DIA. GALV. STEEL ADJUSTABLE TRUSS RODS
- 11 1/8" THK. STEEL STRETCHER BAR TENSION BAND AT 12" MAX. SPACING
- 12 4" O.D. GALV. STEEL POST (4.10 lbs/ft)
- 13 GALV. RAIL ENDS

NOTES ON FENCING AND GATES:

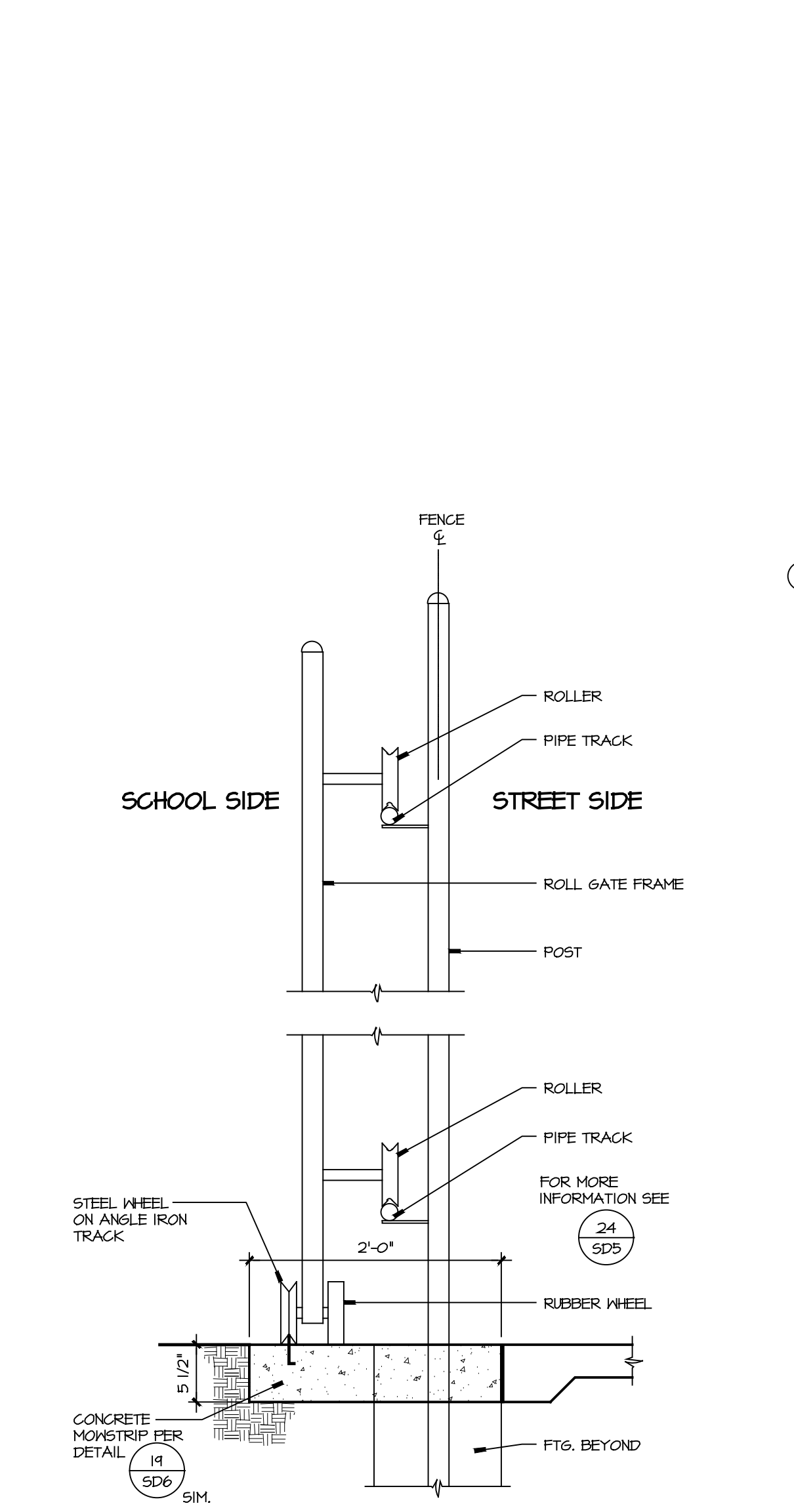
1. DOUBLE TRUSS RODS ARE REQUIRED IN PANEL ADJACENT TO GATE POSTS AT ALL FENCE CORNERS
2. ALL GATE CORNERS AND SUPPORT POINTS SHALL BE FASTENED TOGETHER
3. TACK WELD ALL GATE HINGE AND LATCH COLLAR TO POST
4. ALL AREAS AFFECTED BY WELDING, TRIMMED ENDS OF BOLTS, STRETCHER BARS, TRUSS RODS OR ANY EXPOSED STEEL SHALL BE PAINTED PER THE SPECIFICATIONS
5. LENGTH OF ROLL GATE SHALL MATCH GATE OPENING SHOWN ON THE SITE PLAN



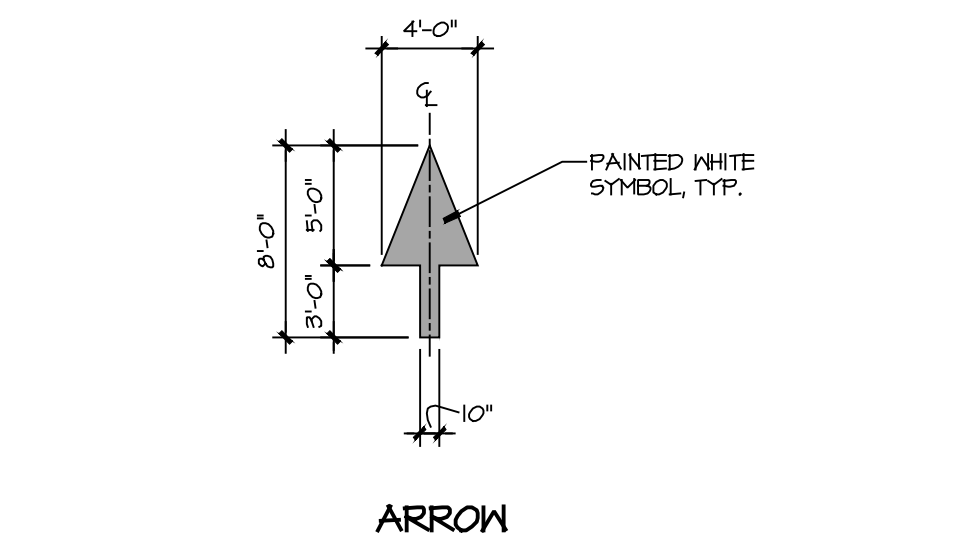
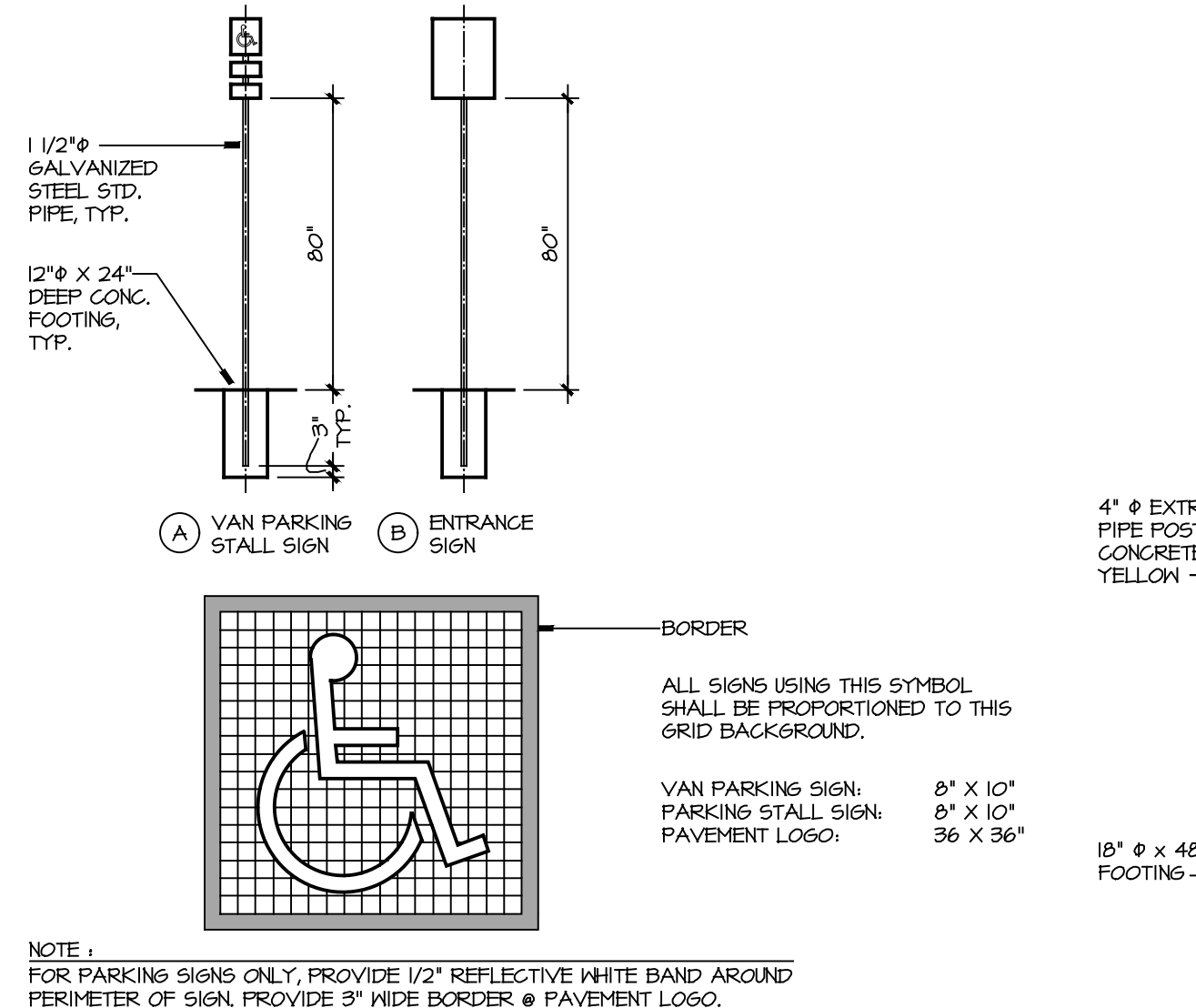
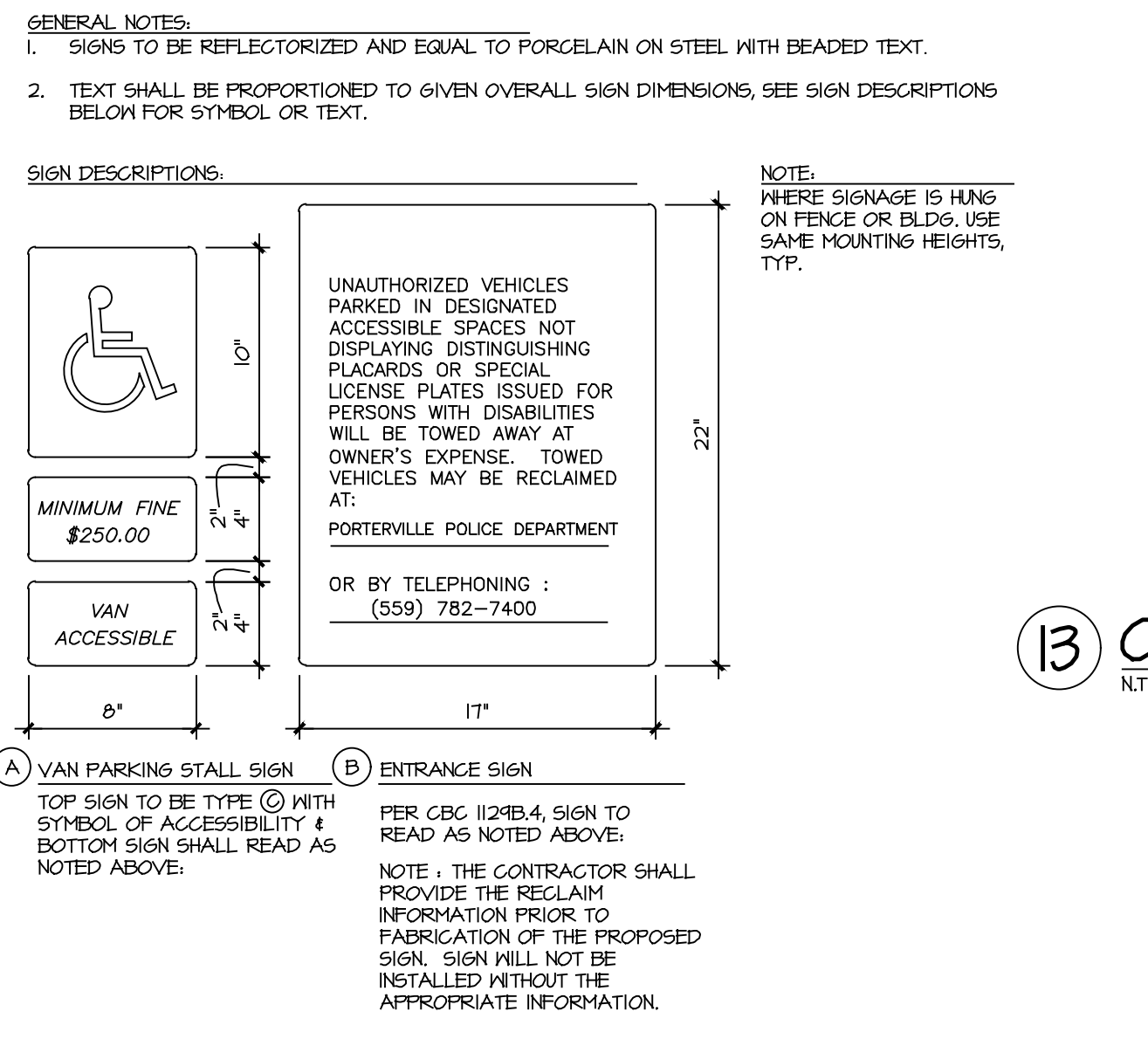
25 RECEIVING BRACKET ASSEMBLY
 3" = 1'-0"



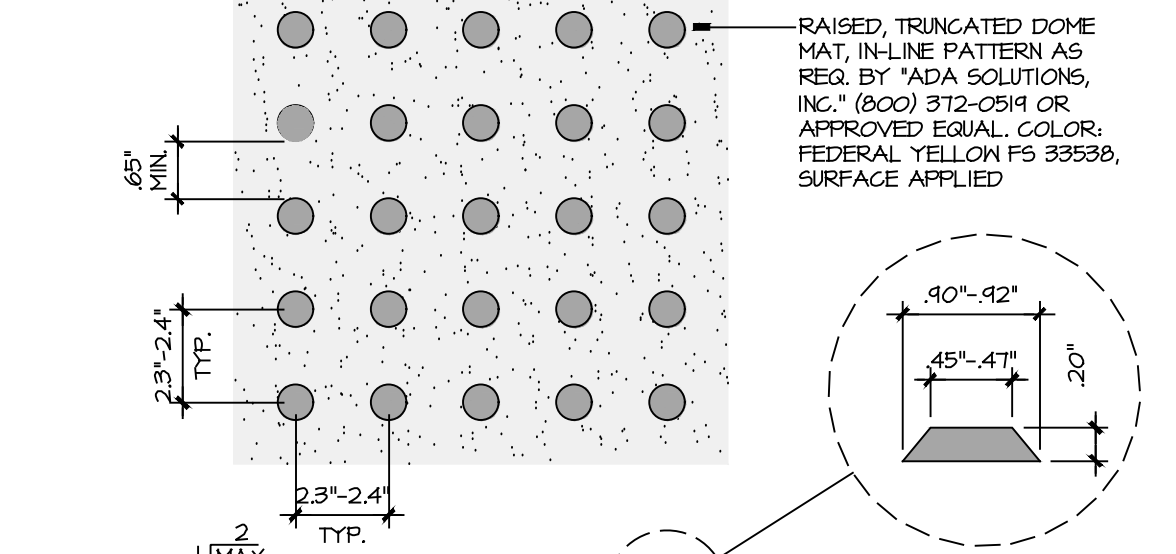
24 GROUND WHEEL CARRIER ASSEMBLY & CONG. MOWSTRIP
 1/2" = 1'-0"



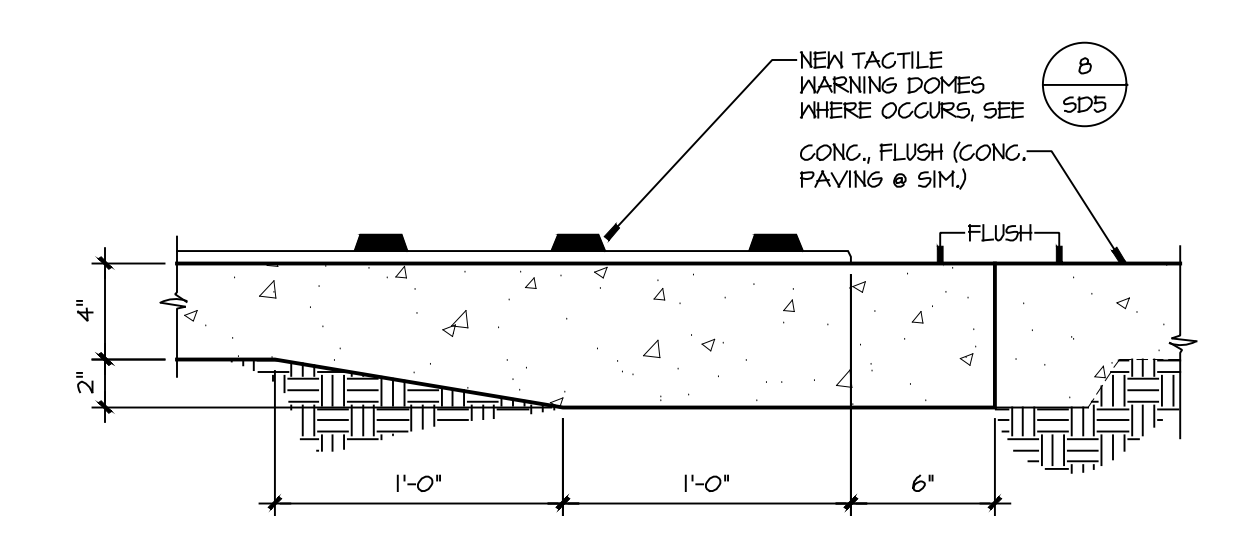
19 TYPICAL ROLL GATE INSTALLATION
 1/4" = 1'-0"



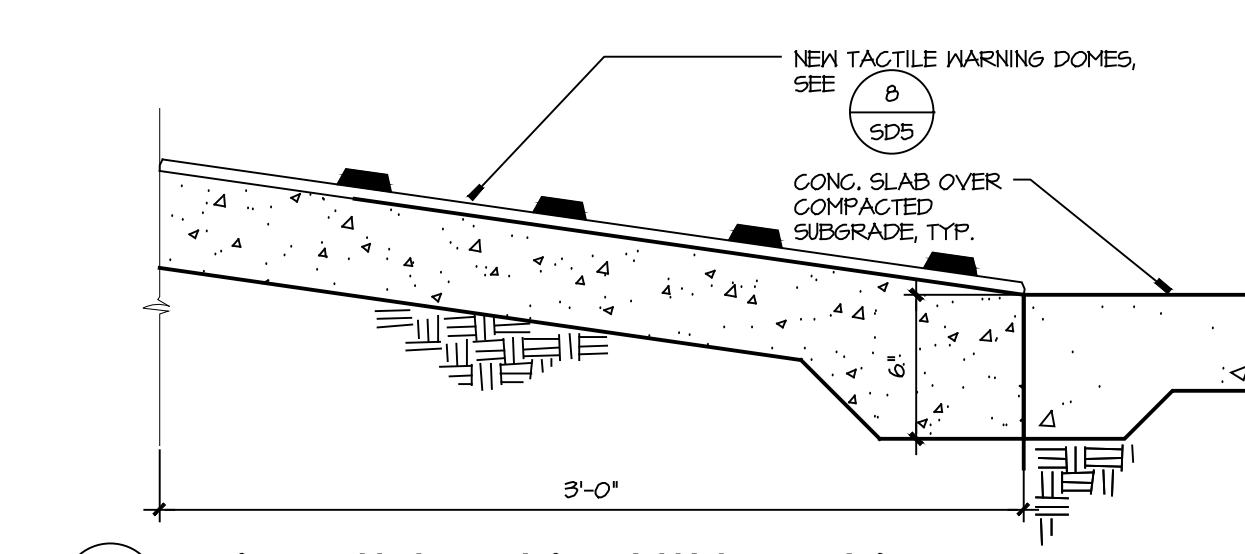
13 ON-SITE PAVEMENT MARKING
 N.T.S.



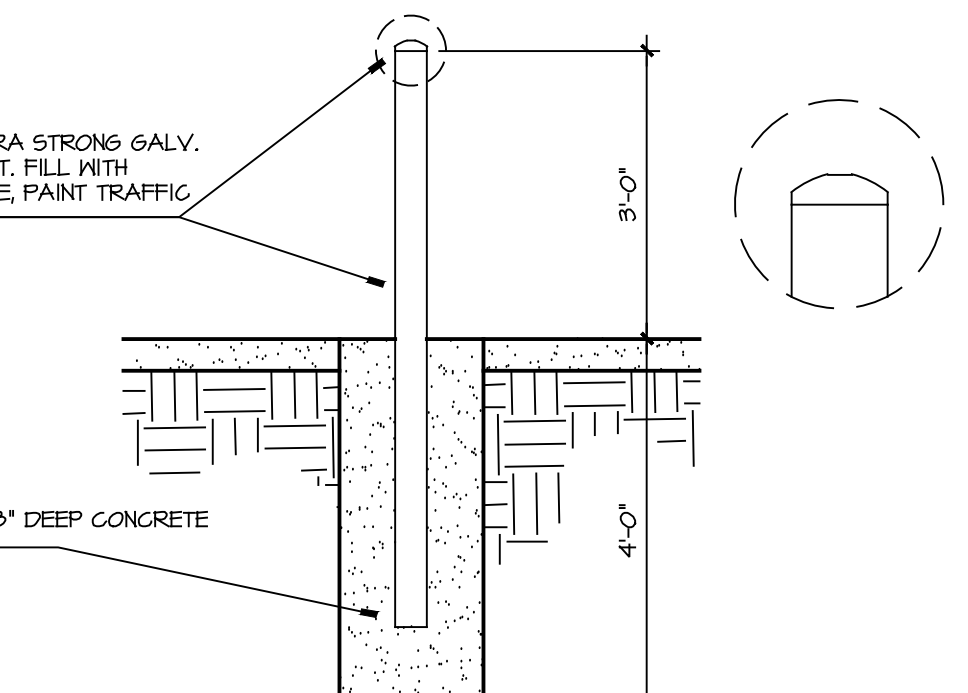
8 TACTILE WARNING TILE
 N.T.S.



3 TACTILE WARNING MAT
 1/2" = 1'-0"



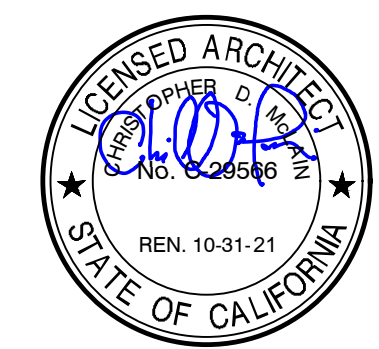
2 TACTILE WARNING MAT
 1/2" = 1'-0"



11 BOLLARD
 1/2" = 1'-0"

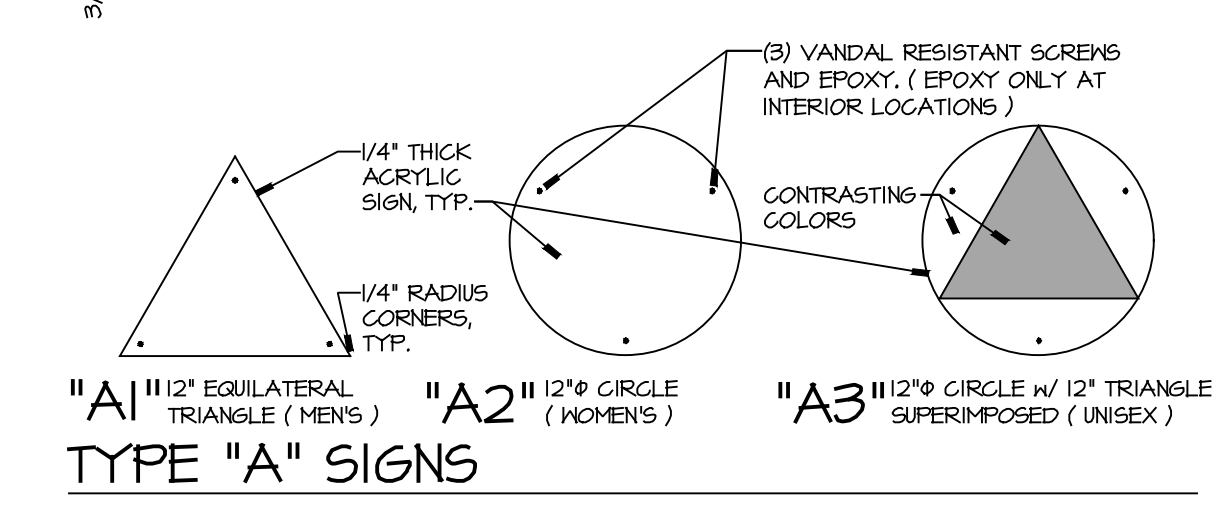
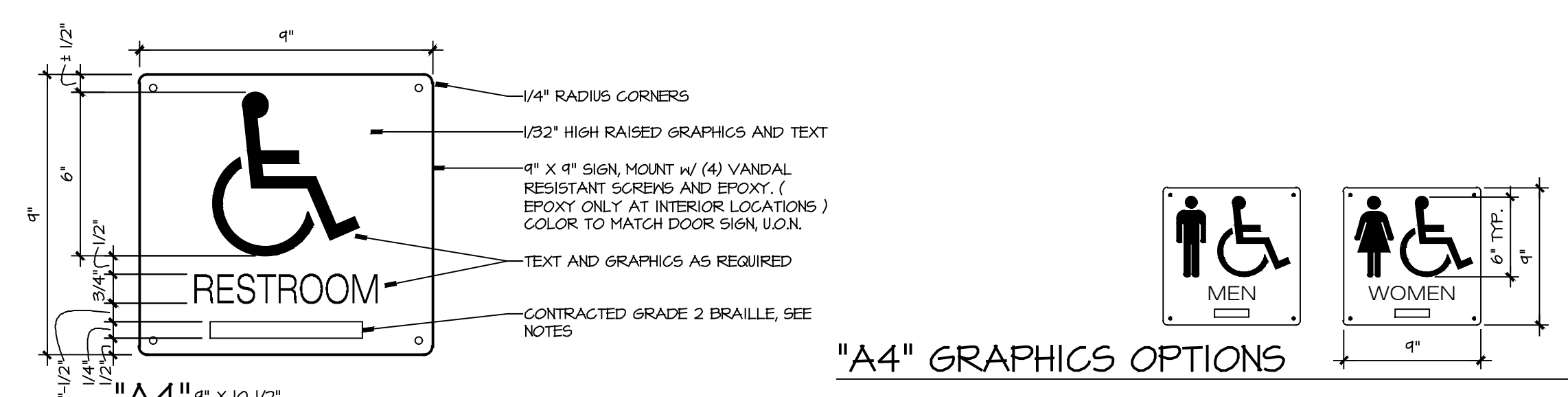
21 MOWSTRIP DETAIL
 1" = 1'-0"

16 SITE SIGNAGE
 1/4" = 1'-0"

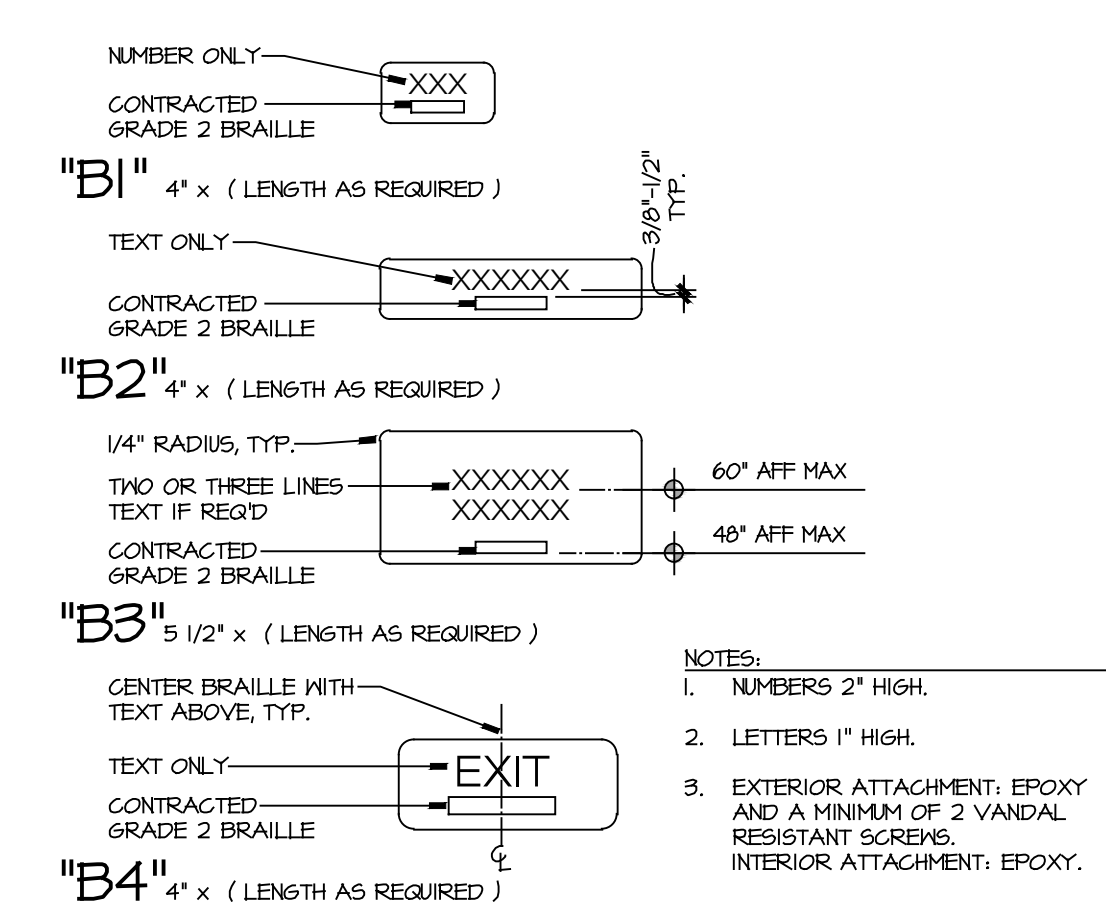


DATE: JULY 10, 2019

ALTERNATIVE EDUCATION COMPLEX
 PORTERVILLE UNIFIED SCHOOL DISTRICT
 914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257

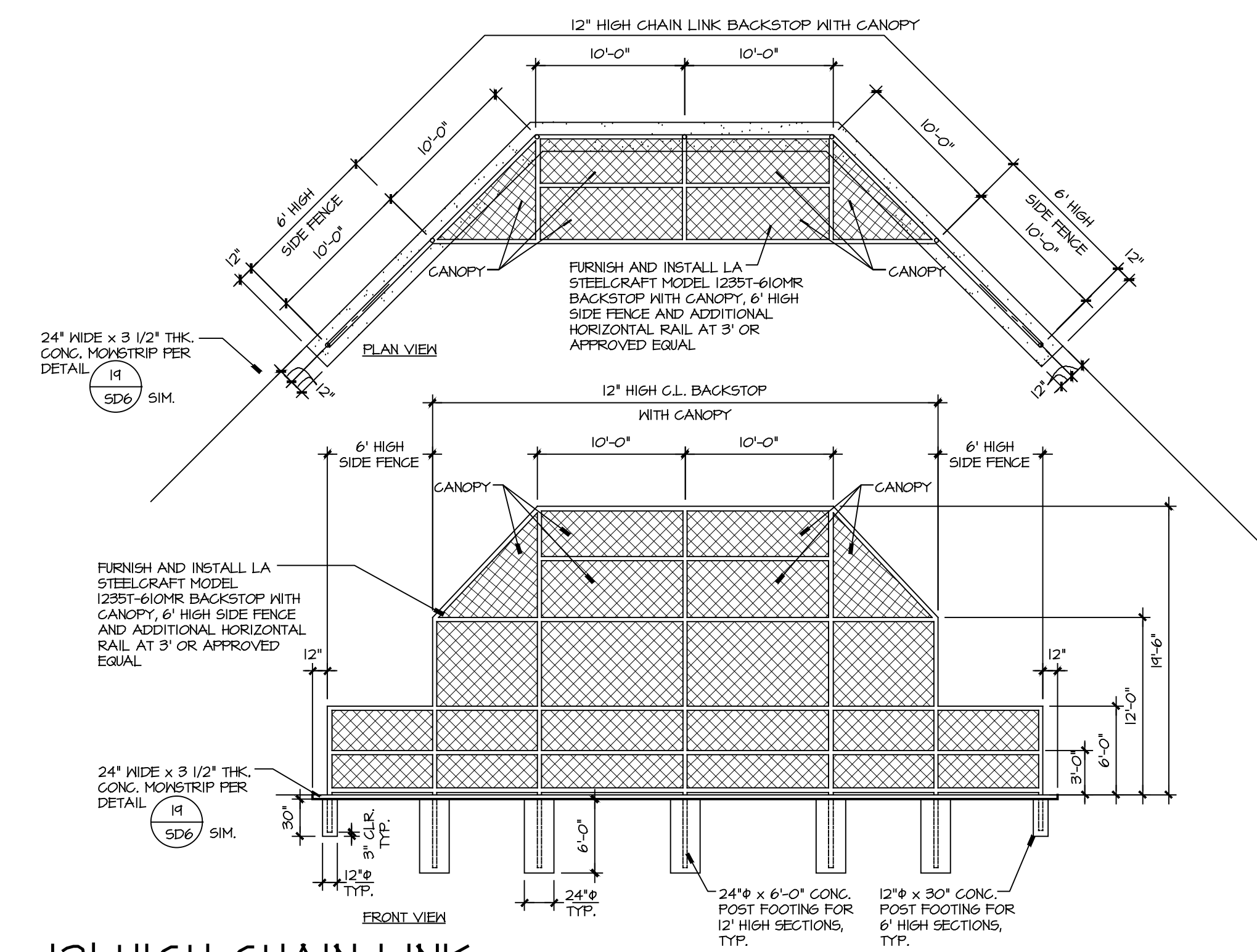


- SIGN TYPES "A1, A2, OR A3"**
 SIGN TYPE "A4" OR "B" ROOM I.D.
- NOTES:**
- IN ADDITION TO SIGN TYPES "A1, A2, AND A3" MOUNTED ON RESTROOM DOORS, PROVIDE SIGN TYPE "A4", LOCATED AS SHOWN.
 - TYPE "B" SIGNS TO BE MOUNTED ON LATCH SIDE OF SINGLE DOOR. AT DOUBLE DOORS, MOUNT SIGN ON INACTIVE LEAF. IF BOTH LEAVES ARE ACTIVE MOUNT SIGN ON RIGHT SIDE OF DOUBLE DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL.
 - REFER TO FLOOR PLANS & ELEVATIONS FOR LOCATIONS.
 - USE 60" TO TOP OF THE UPPER SIGN TO SET SIGNS. CBC ALLOWS 60" MAX. TO BASELINE OF RAISED CHARACTERS & 48" MIN. TO BASELINE OF LOWEST LINE OF BRAILLE.

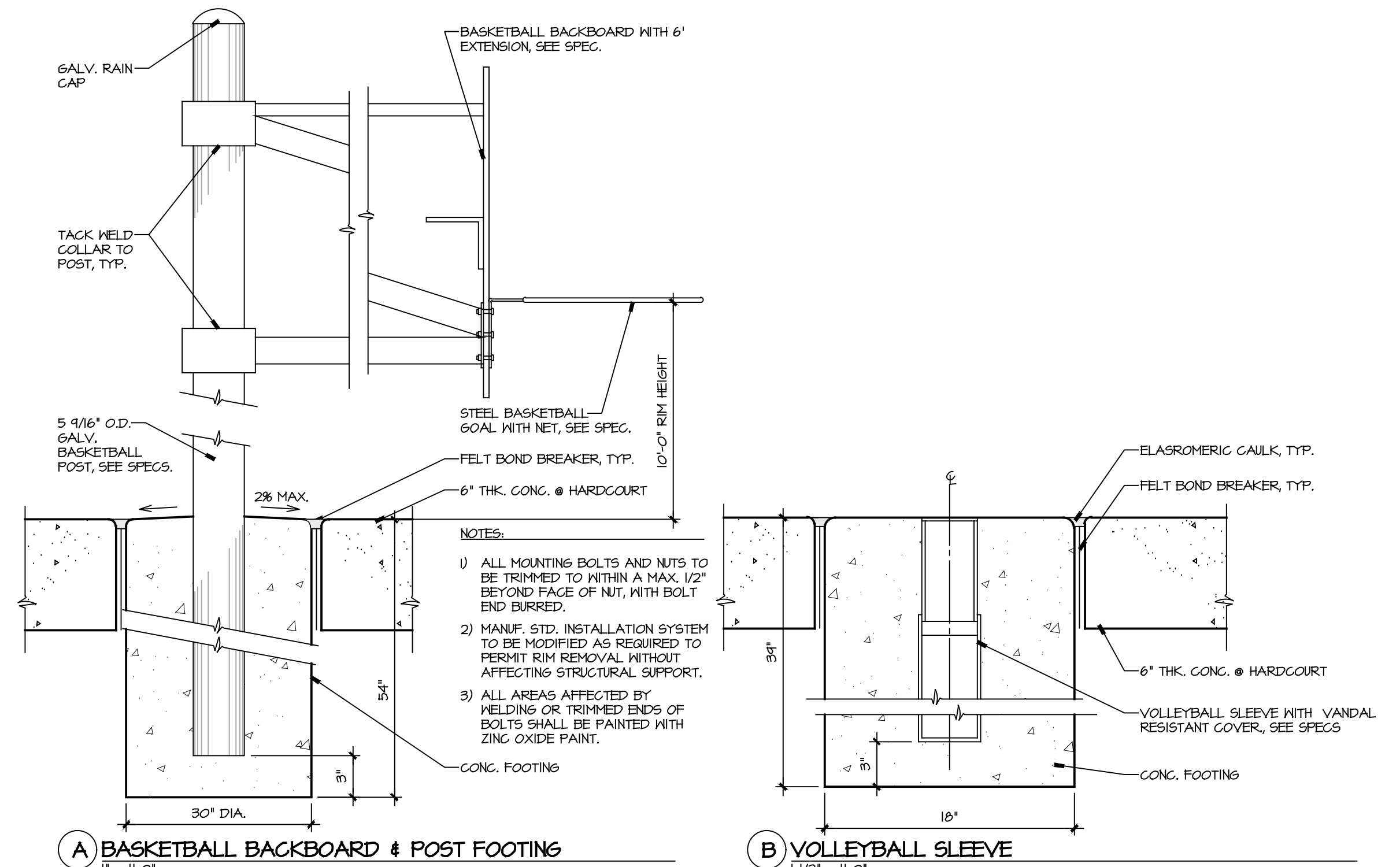


- SIGN LOCATIONS**
- NOTES:**
- CONSTRUCT SIGNS OF 1/8" THK. PLASTIC UNLESS OTHERWISE NOTED. ALL CHARACTERS AND PICTOGRAMS SHALL BE RAISED 1/32".
 - COLOR TO BE SELECTED BY ARCHITECT. (SIGN BACKGROUND COLORS TO CONTRAST WITH DOOR COLOR.) TOP CONTRAST BETWEEN CHARACTERS AND BACKGROUND. CIRCLE COLOR TO CONTRAST WITH TRIANGLE.
 - ALL EDGES SHALL BE BEASED OR ROUNDED AT 1/16".

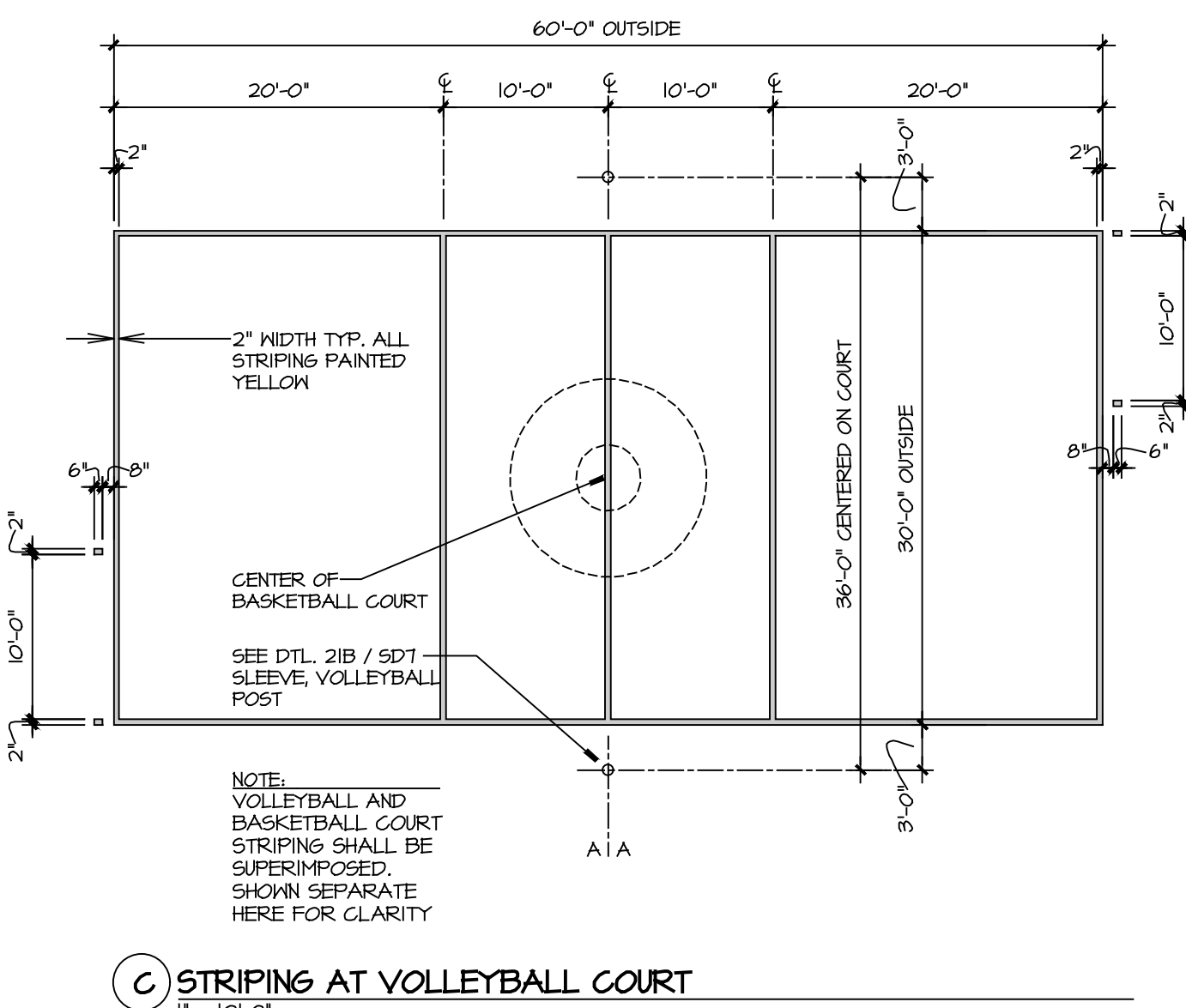
(18) SIGN TYPES
 NTS.



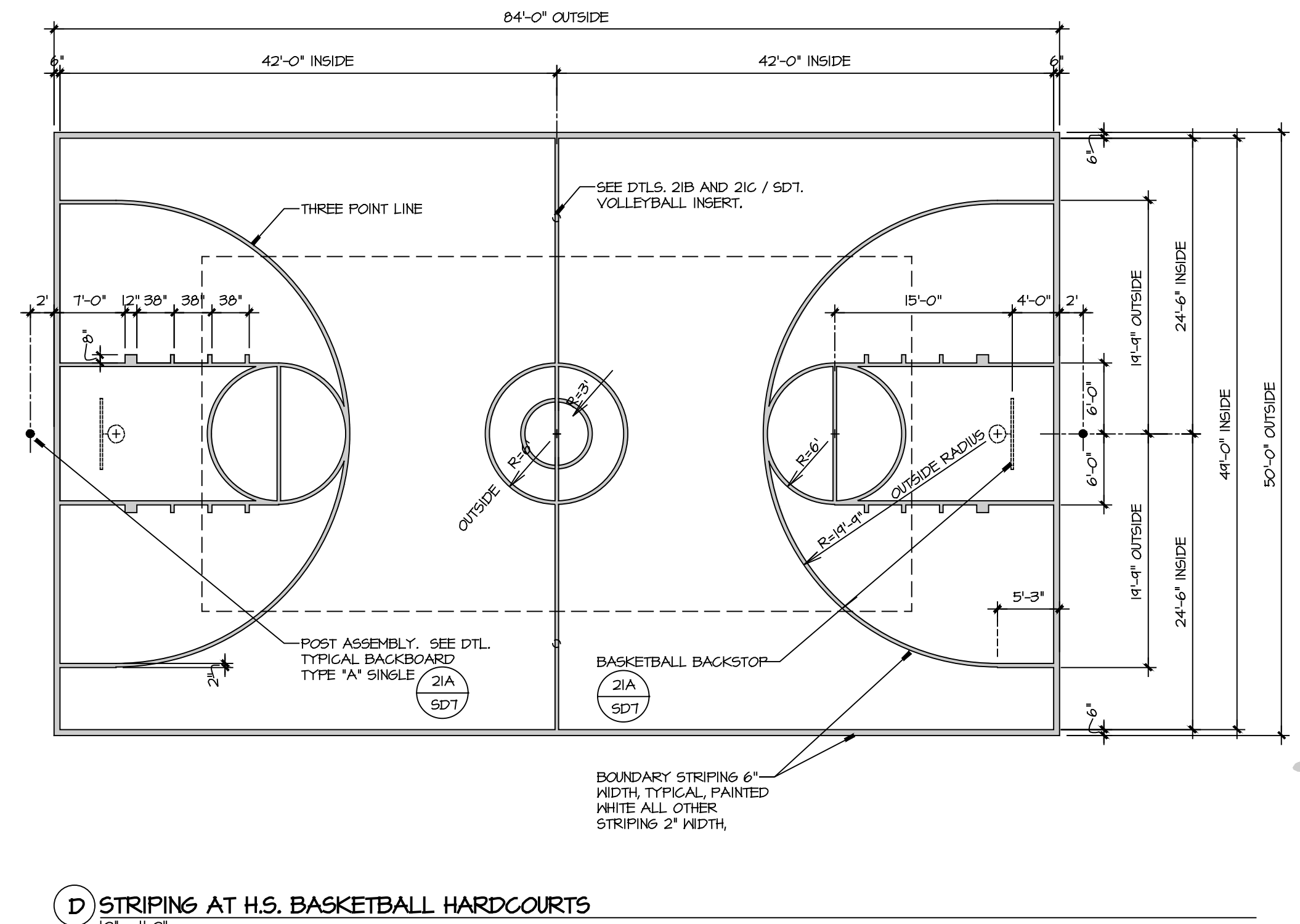
(8) 12' HIGH CHAIN LINK BACKSTOP WITH CANOPY AND 6' HIGH SIDE FENCE
 1/8" = 1'-0"



(21) VOLLEYBALL AND BASKETBALL COURT DETAILS
 SCALE AS SHOWN



(C) STRIPING AT VOLLEYBALL COURT
 1\"/>



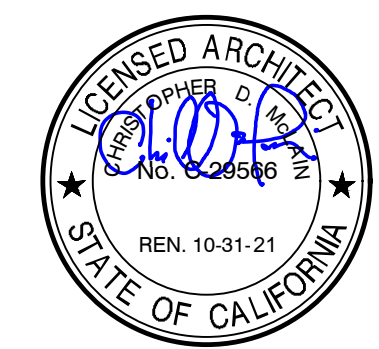
(D) STRIPING AT H.S. BASKETBALL HARDCOURTS
 10\"/>

REVISIONS

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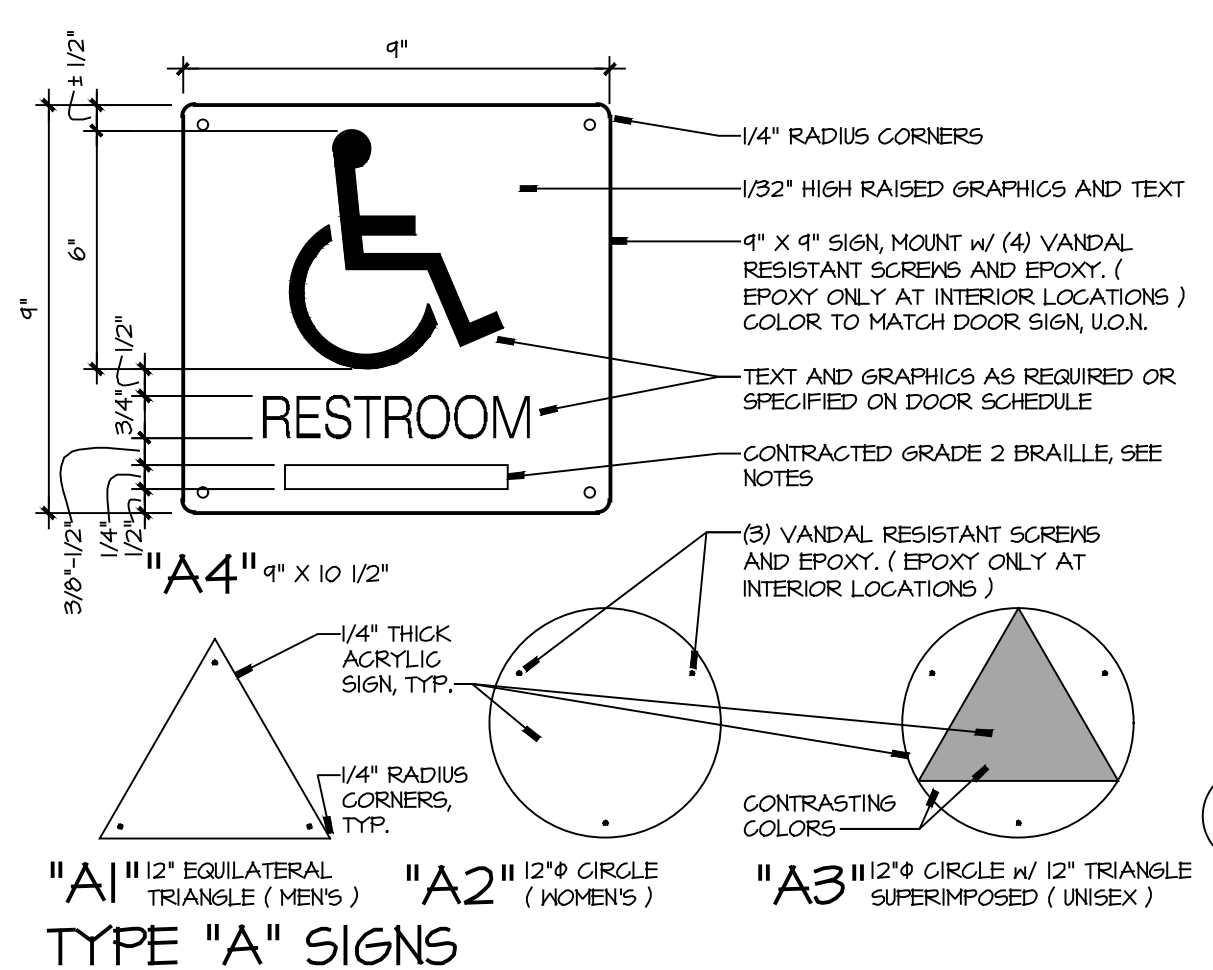
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 SITE
 DETAILS
SD7
 PROJECT **1901**

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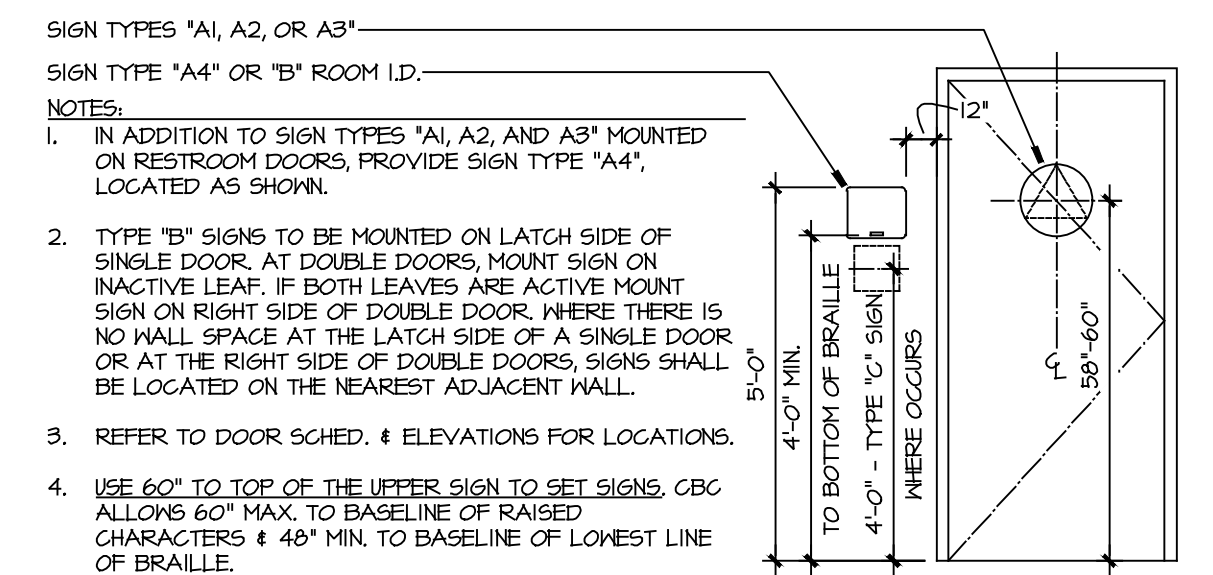


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ALTERNATIVE EDUCATION COMPLEX
 PORTERVILLE UNIFIED SCHOOL DISTRICT
 914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257

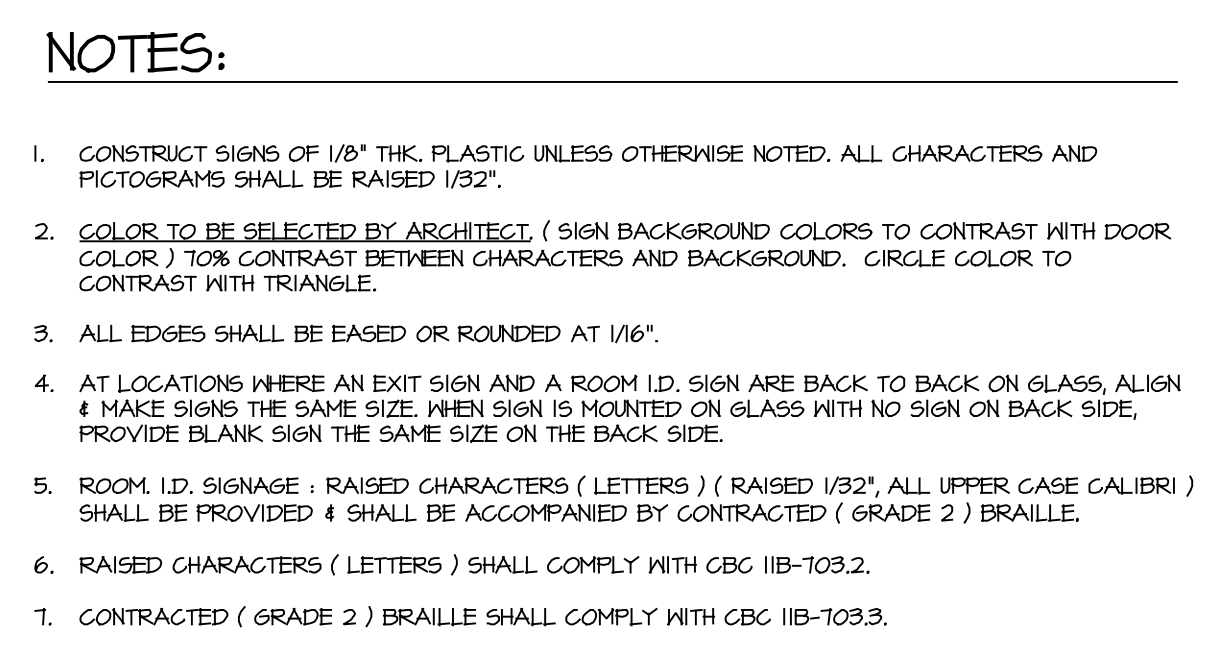


15 JAMB/HEAD AT DOOR SIM.
 SCALE: 1/2" = 1'-0"



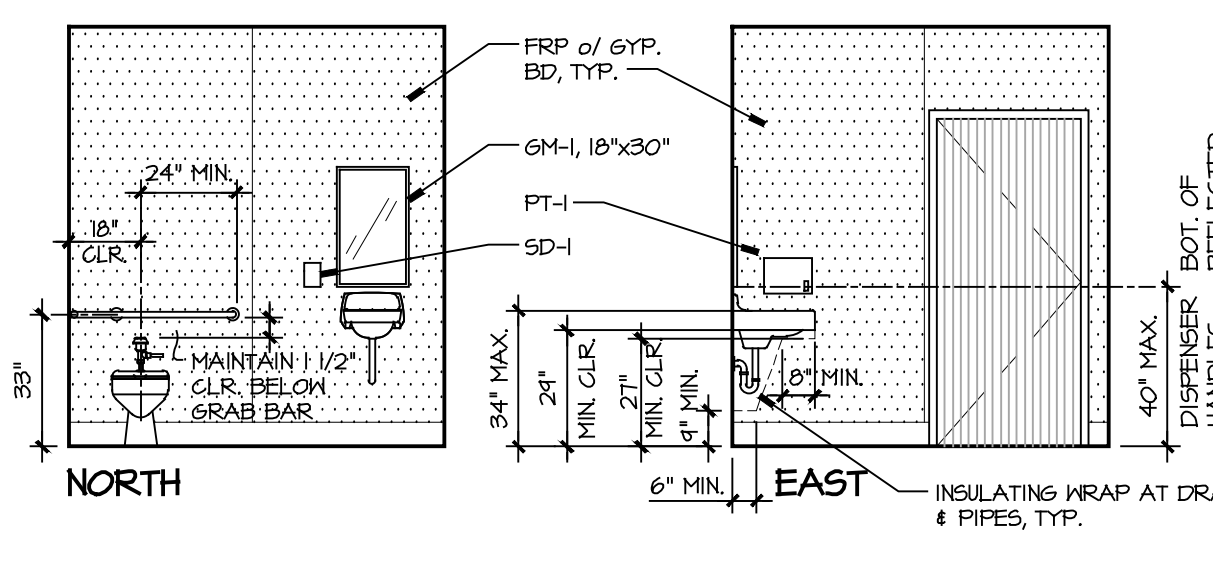
14 DOOR THRESHOLD
 3" = 1'-0"

TYPE "A" SIGNS
 SIGN TYPES "A1, A2, OR A3"
 SIGN TYPE "A4" OR "B" ROOM I.D.
 NOTES:
 1. IN ADDITION TO SIGN TYPES "A1, A2, AND A3" MOUNTED ON RESTROOM DOORS, PROVIDE SIGN TYPE "A4", LOCATED AS SHOWN.
 2. TYPE "B" SIGNS TO BE MOUNTED ON LATCH SIDE OF SINGLE DOOR. AT DOUBLE DOORS, MOUNT SIGN ON INACTIVE LEAF. IF BOTH LEAVES ARE ACTIVE MOUNT SIGN ON RIGHT SIDE OF DOUBLE DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL.
 3. REFER TO DOOR SCHED. & ELEVATIONS FOR LOCATIONS.
 4. USE 60" TO TOP OF THE UPPER SIGN TO SET SIGNS. CBC ALLOWS 60" MAX. TO BASELINE OF RAISED CHARACTERS & 48" MIN. TO BASELINE OF LOWEST LINE OF BRAILLE.

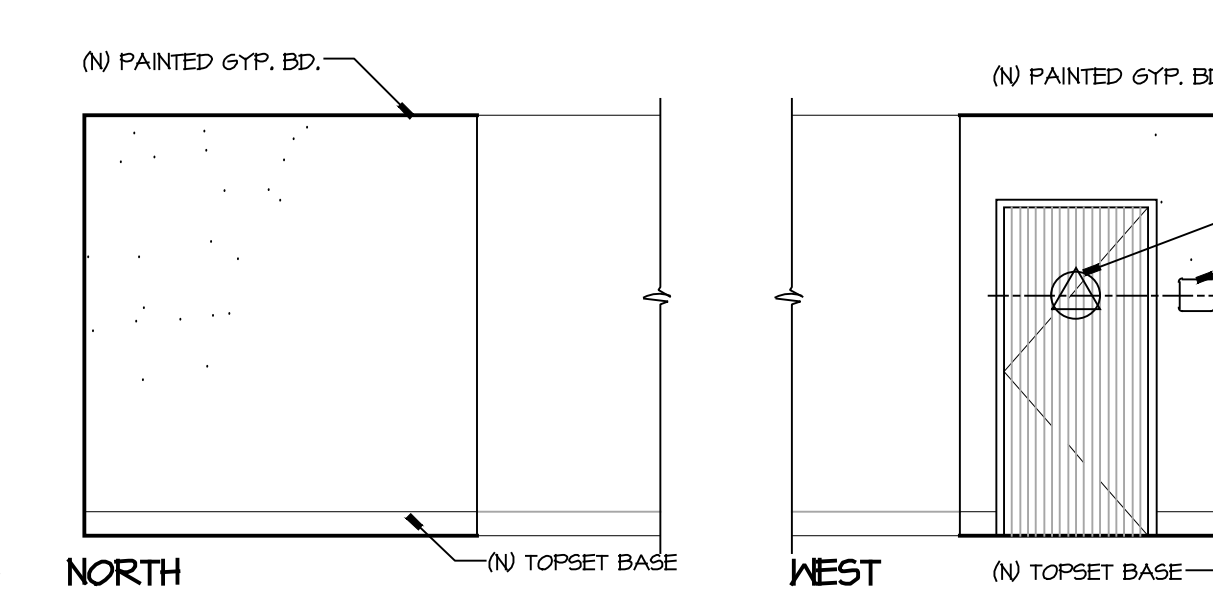


13 DOOR TYPE & FRAME TYPE
 N.T.S.

18 SIGN TYPES
 N.T.S.

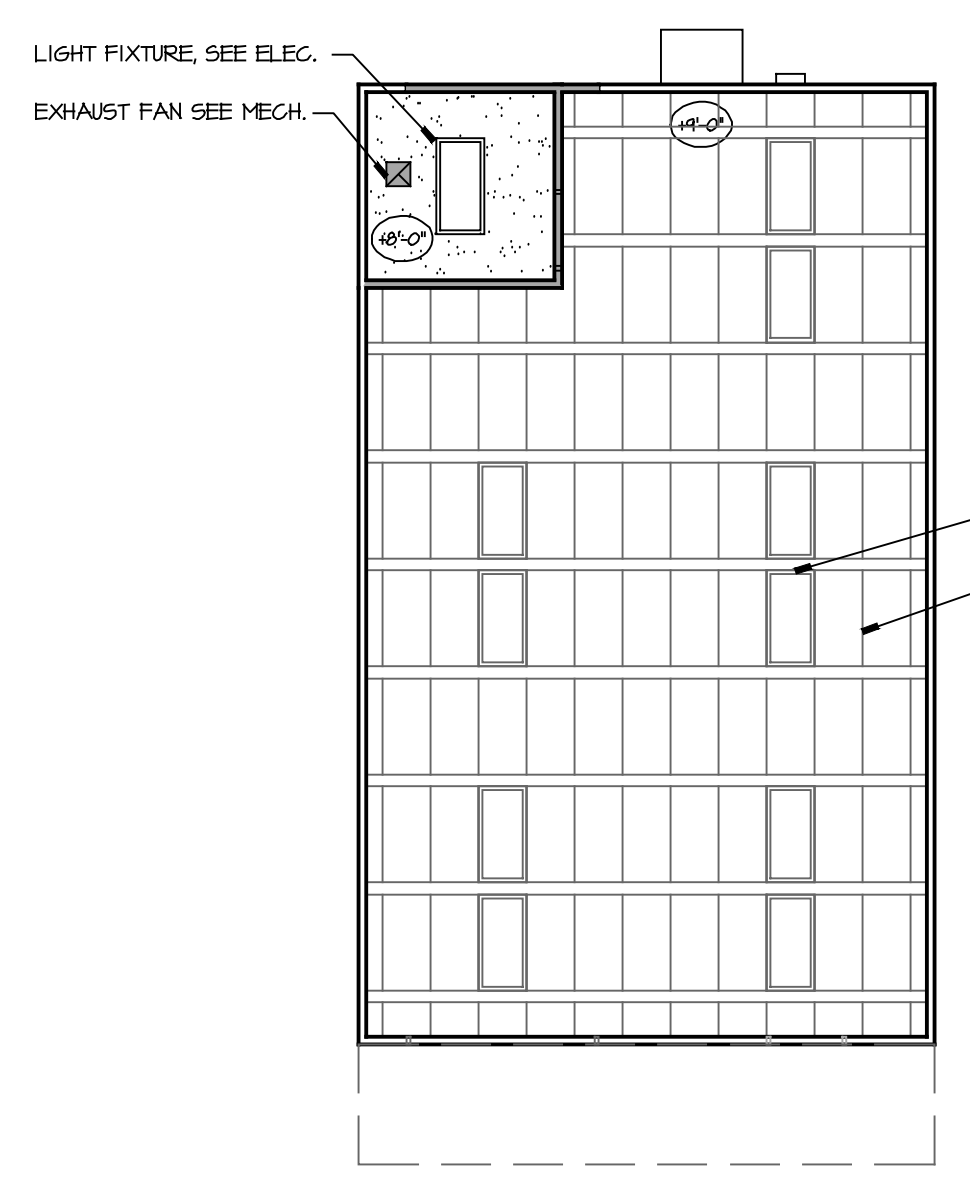


02 TOILET

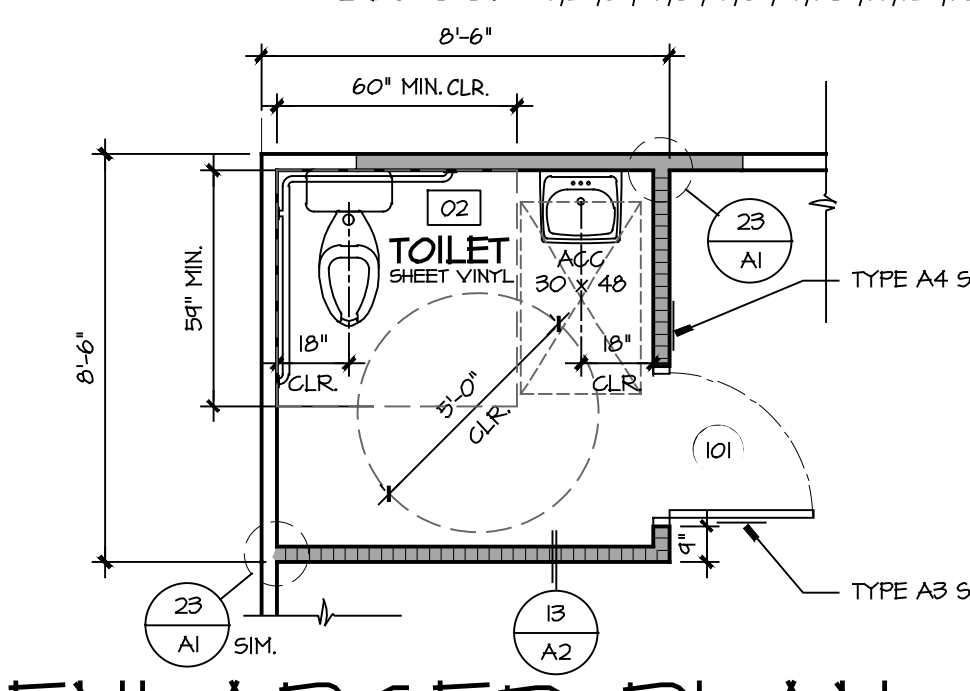


01 TYPICAL CLASSROOM PARTIAL INTERIOR ELEVATIONS

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

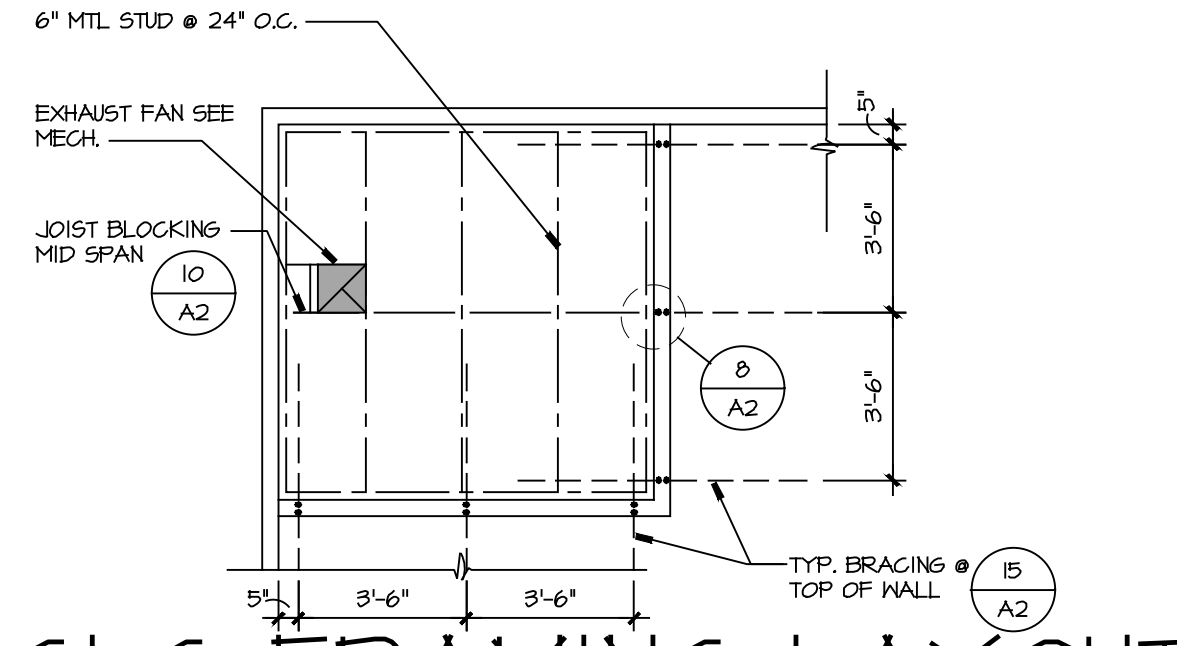


R. CLG PLAN
 SCALE: 1/8" = 1'-0"



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

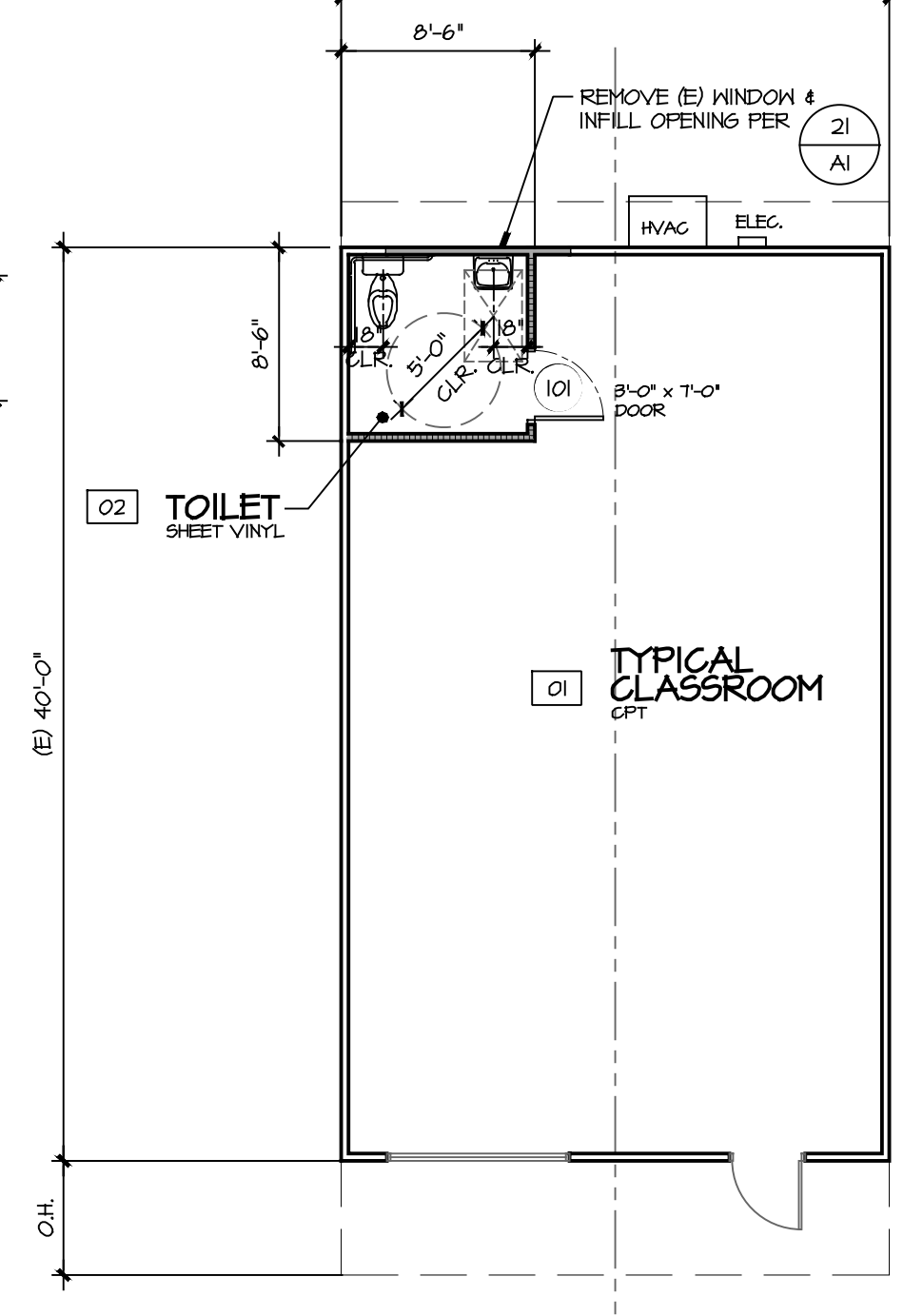
CEILING LEGEND
 (N) TARED, TEXTURED AND PAINTED TYPE 'X' 5/8" THICK GYP. BD.
 (X) INDICATES HEIGHT OF FINISH CEILING AS MEASURED ABOVE FIN. FLOOR BELOW



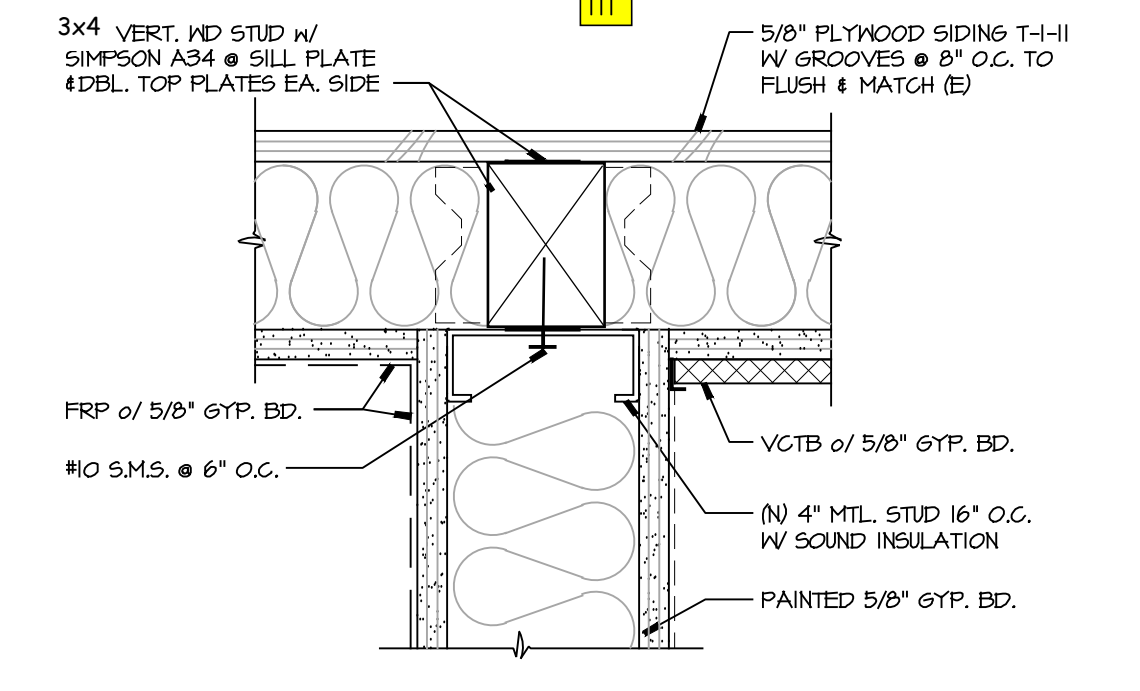
CLG FRAMING LAYOUT
 SCALE: 1/4" = 1'-0"

FLOOR PLAN LEGEND
 (E) 2x STUDS @ 16" O.C.
 4" METAL STUDS @ 16" O.C.
 2x4 WD STUD WALL @ 16" O.C.

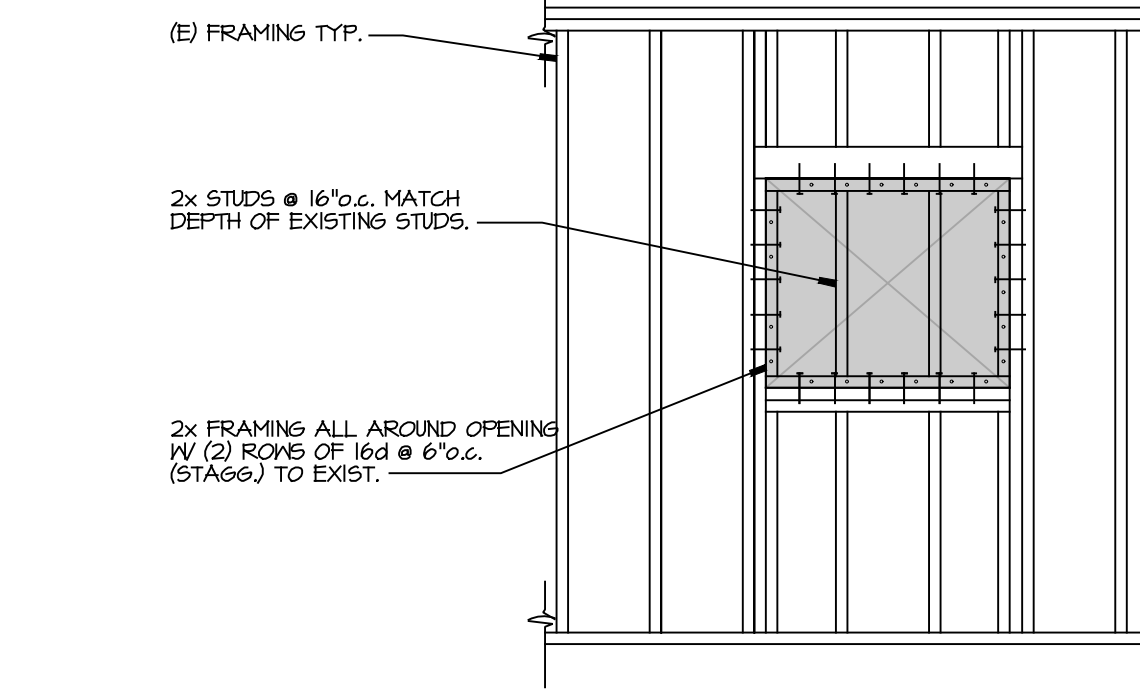
FLOOR PLAN NOTES:
 30° INDICATES 30"x48" CLEAR W.C. SPACE
 48° INDICATES 5' DIAMETER W.C. ROTATION SPACE



FLOOR PLAN
 SCALE: 1/8" = 1'-0"



23 NEW WALL INTERSECTION
 3" = 1'-0"



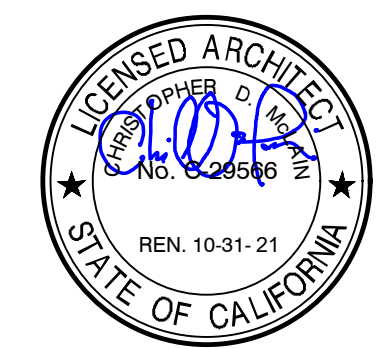
21 WINDOW INFILL DETAIL
 N.T.S.

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TITLE
 RELO.
 TOILET PLANS,
 INTERIORS & DETAILS
A1
 PROJECT 1901

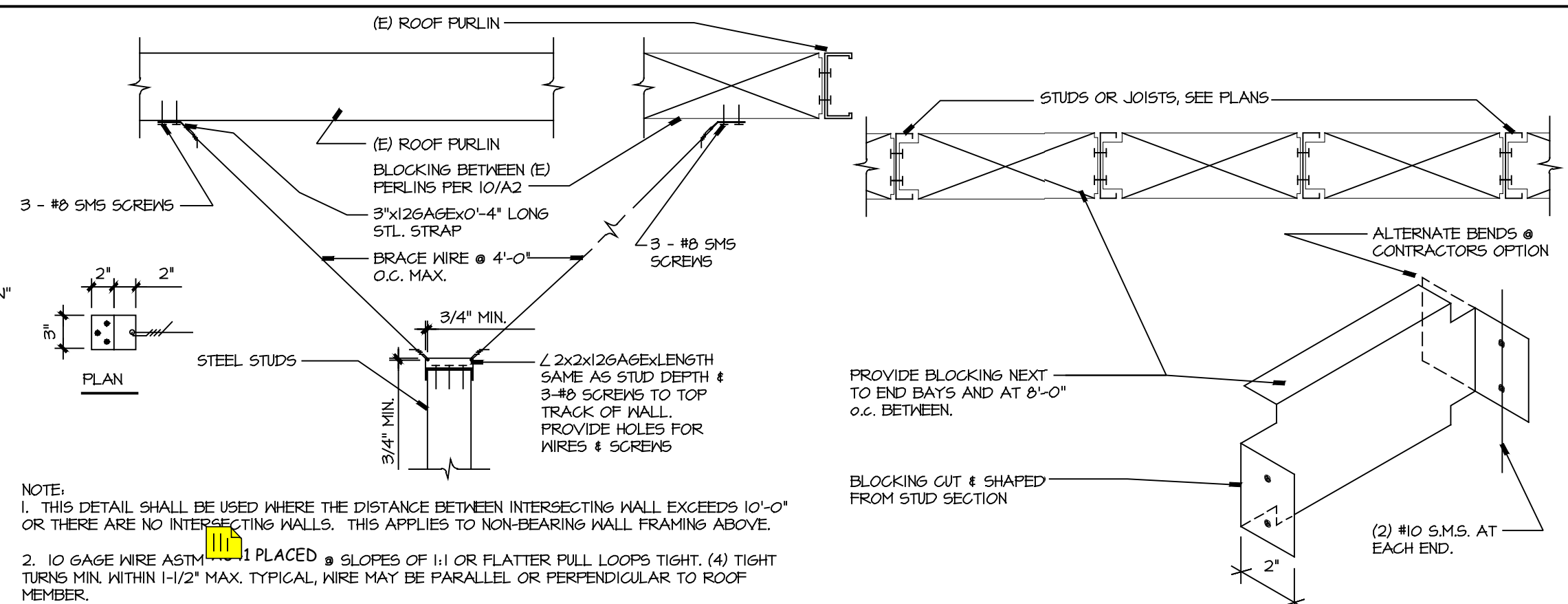
IDENTIFICATION STAMP
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 APP. 02-117736 INC.
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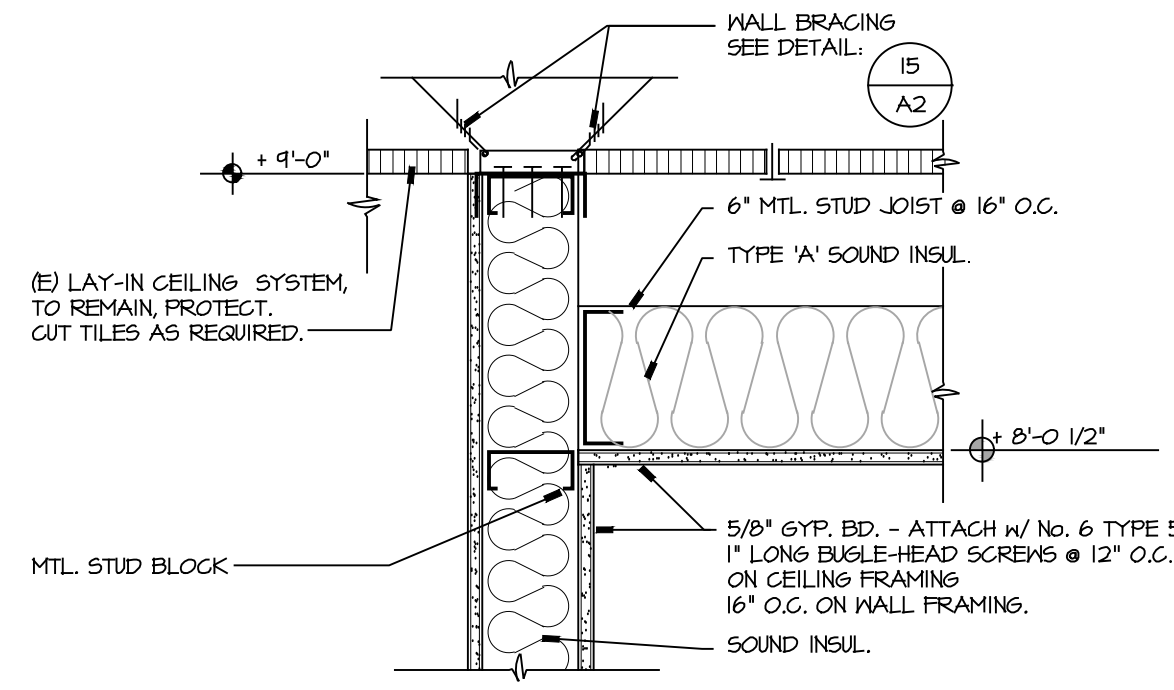
DATE: JULY 10, 2019

LIGHT GAUGE STEEL FRAMING

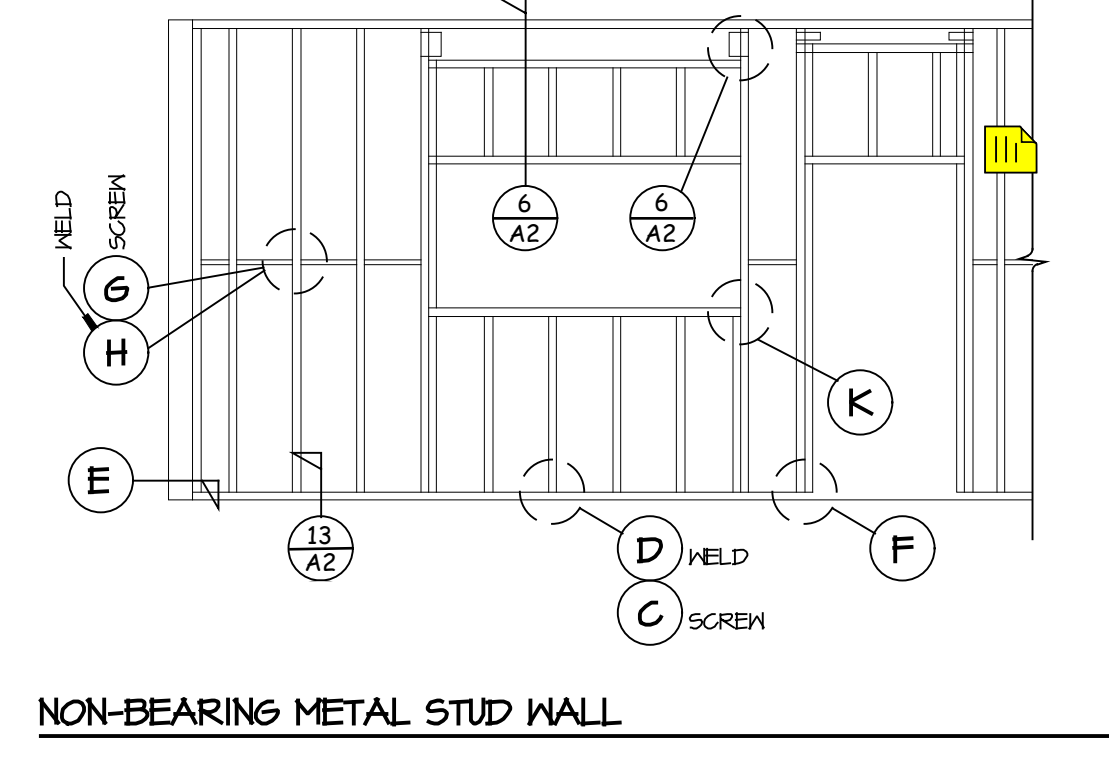
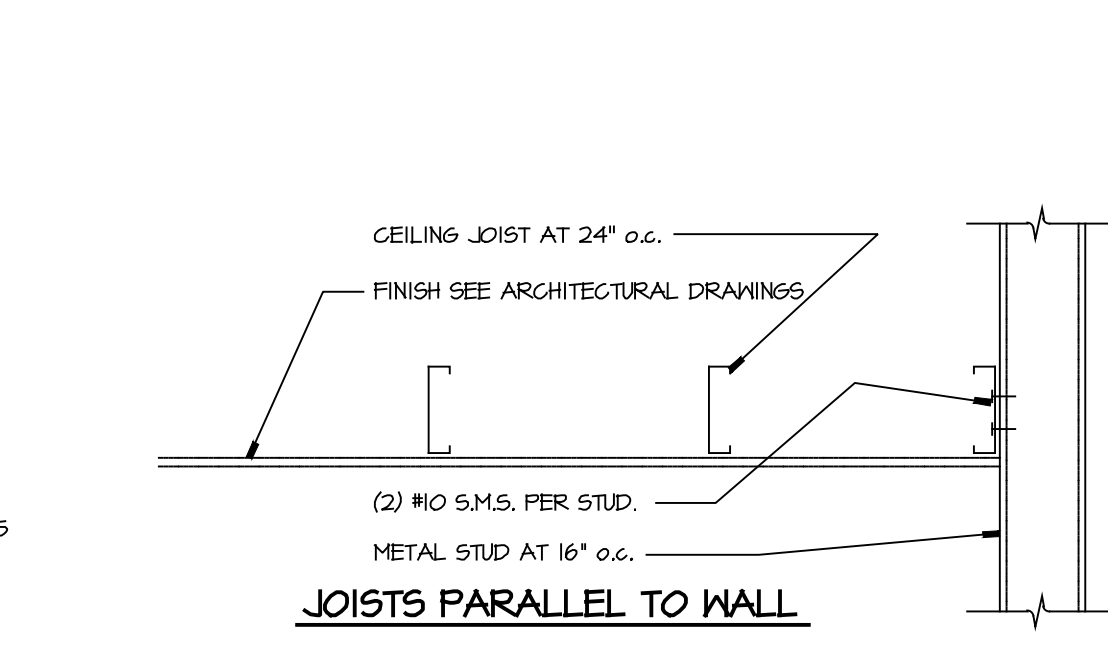
- ALL LIGHT GAUGE STEEL SHALL CONFORM TO ASTM A-653, GRADE 53, WITH A MINIMUM YIELD OF 39,000 PSI, UNLESS NOTED OTHERWISE.
- SECTION PROPERTIES OF ALL LIGHT GAUGE STEEL STUDS, TRACKS, JOISTS, AND MISCELLANEOUS LIGHT GAUGE METAL FRAMING MEMBERS DESIGNATED ON THESE DRAWINGS AND REQUIRED BY THE LIGHT GAUGE STEEL MANUFACTURER ARE BASED UPON THE "STIFFI. STUD MANUFACTURER'S ASSOCIATION" (SSMA) PRODUCT TECHNICAL GUIDE. SEE EVALUATION REPORT # ESR-3064P.
- FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH ACCEPTED PRACTICES AND PROVISIONS OF THE "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, 2016 EDITION" PUBLISHED BY THE AMERICAN IRON AND STEEL INSTITUTE.
- WELDING OF ALL LIGHT GAUGE STEEL FRAMING SHALL CONFORM TO AMERICAN WELDING SOCIETY D1.3 REFER TO "STRUCTURAL STEEL NOTES" FOR ADDITIONAL WELDING REQUIREMENTS.
- ALL WELDING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR AS REQUIRED FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE HELD POSITIVELY IN PLACE UNTIL PROPERLY FASTENED.
- FRAMING COMPONENTS MAY BE PRE-ASSEMBLED INTO PANELS PRIOR TO ERECTION. PREFABRICATED PANELS SHALL HAVE COMPONENTS ATTACHED IN A MANNER AS TO PREVENT RACKING OF THE PANEL AND TO PREVENT DISTORTION IN ANY MEMBER.
- TRACKS SHALL BE SECURELY ANCHORED TO THE SUPPORTING STRUCTURE AS SHOWN ON THE DRAWING. AT TRACK BUTT JOINTS ABUTTING PIECES OF TRACK SHALL BE SECURELY ANCHORED TO A COMMON STRUCTURAL ELEMENT, OR THEY SHALL BE BUTT-WELDED OR SPLICED TOGETHER.
- STUDS SHALL BE PLUMBED, ALIGNED AND SECURELY ATTACHED TO THE FLANGE OR WEBS OF BOTH UPPER AND LOWER TRACKS.
- WALL STUD BRACINGS SHALL BE ATTACHED IN A MANNER TO PREVENT STUD ROTATION. BRIDGING ROWS SHALL BE SPACED ACCORDING TO THE LIGHT GAUGE STEEL MANUFACTURER'S REQUIREMENTS, BUT NOT GREATER THAN 3'-0" ON CENTER.
- TEMPORARY BRACING OF ALL WALL PANELS SHALL BE PROVIDED UNTIL ERECTION IS COMPLETED.
- ALL MEMBER TO MEMBER CONNECTIONS SHALL BE CONNECTED WITH A MINIMUM OF TWO (2) #8 SCREWS WITH 7/64" PAN WASHER HEADS 1/2" LONG, UNLESS NOTED OTHERWISE. A 1/16" FILLET WELD BY 3/4" LONG MAY BE SUBSTITUTED FOR THE SCREWS AT THE CONTRACTOR'S OPTION. SEE ABOVE FOR ADDITIONAL WELDING REQUIREMENTS.



15 WIRE BRACING
 NTS

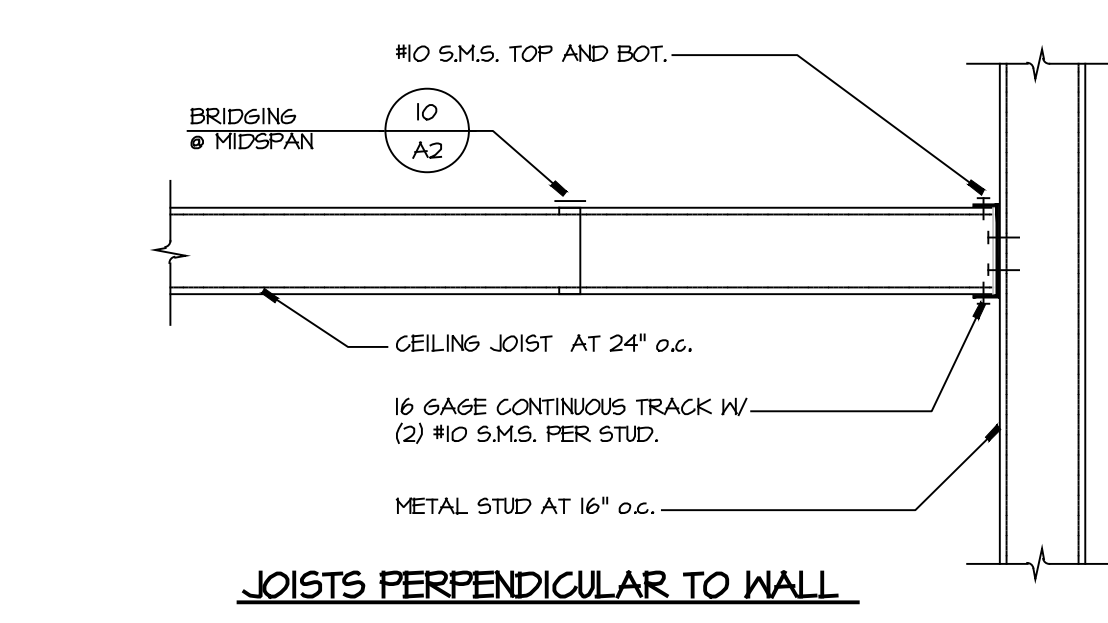
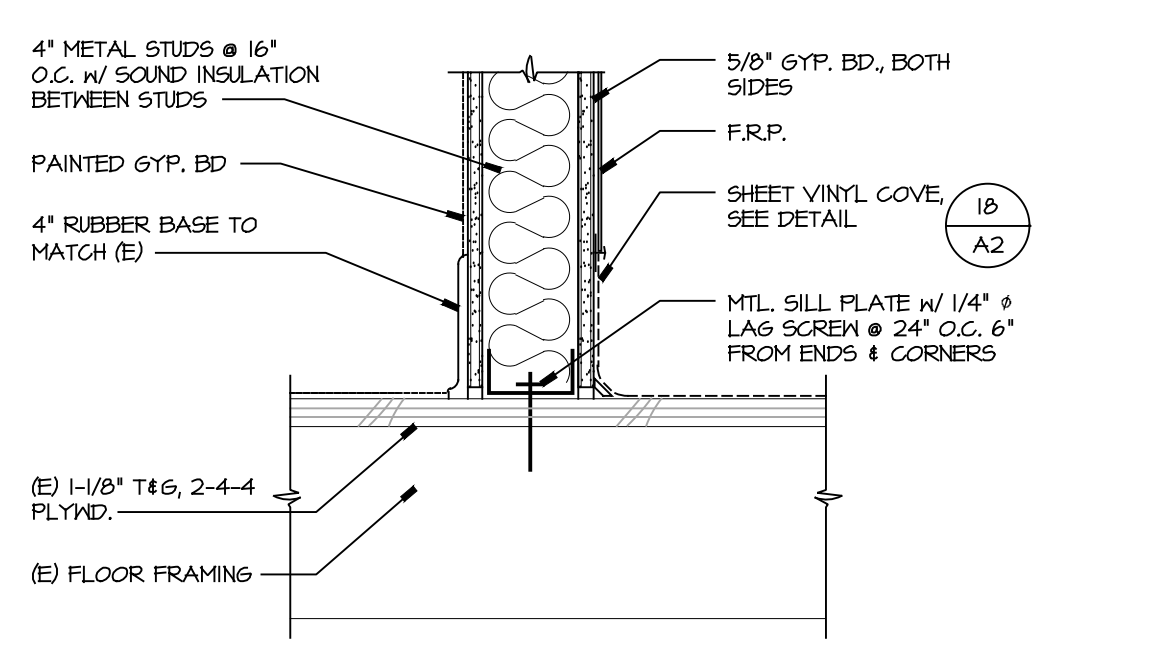
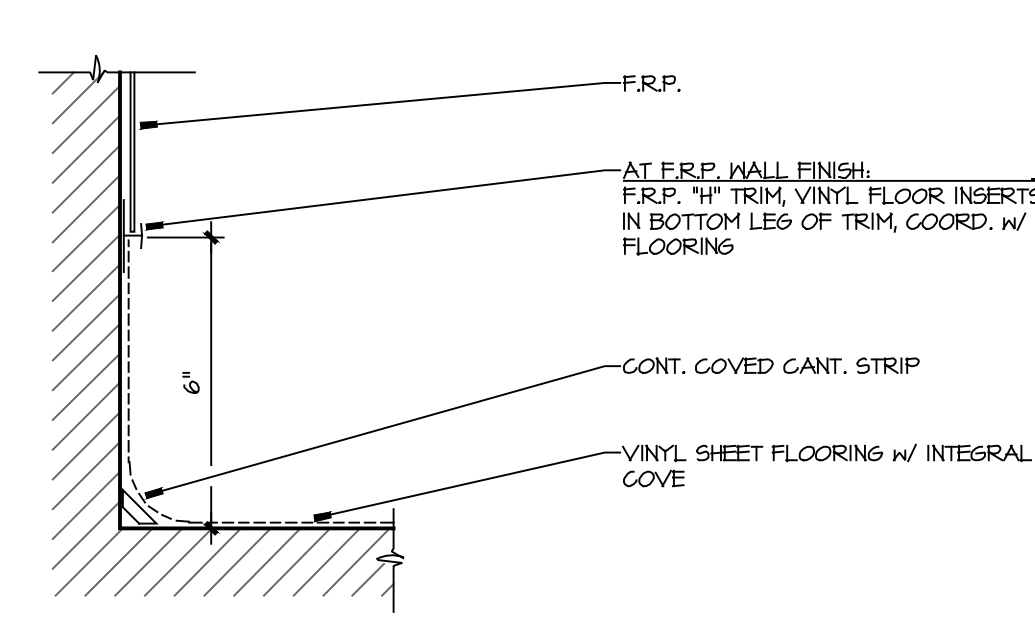


10 STUD OR JOIST BLOCKING
 NTS



NON-BEARING METAL STUD WALL

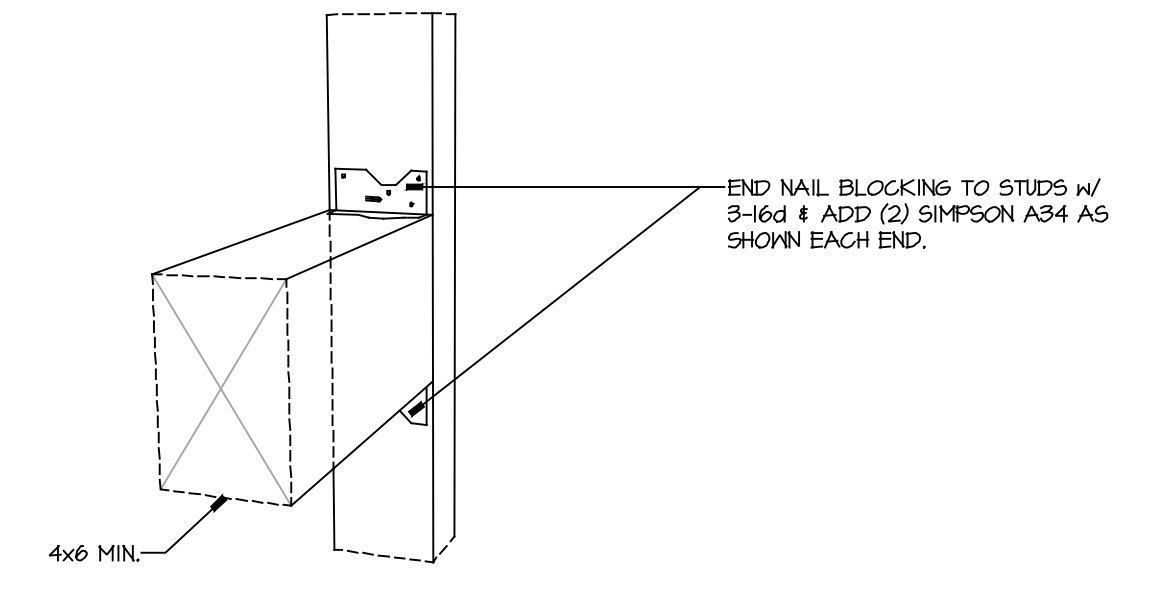
14 HARD CEILING
 1/2\"/>



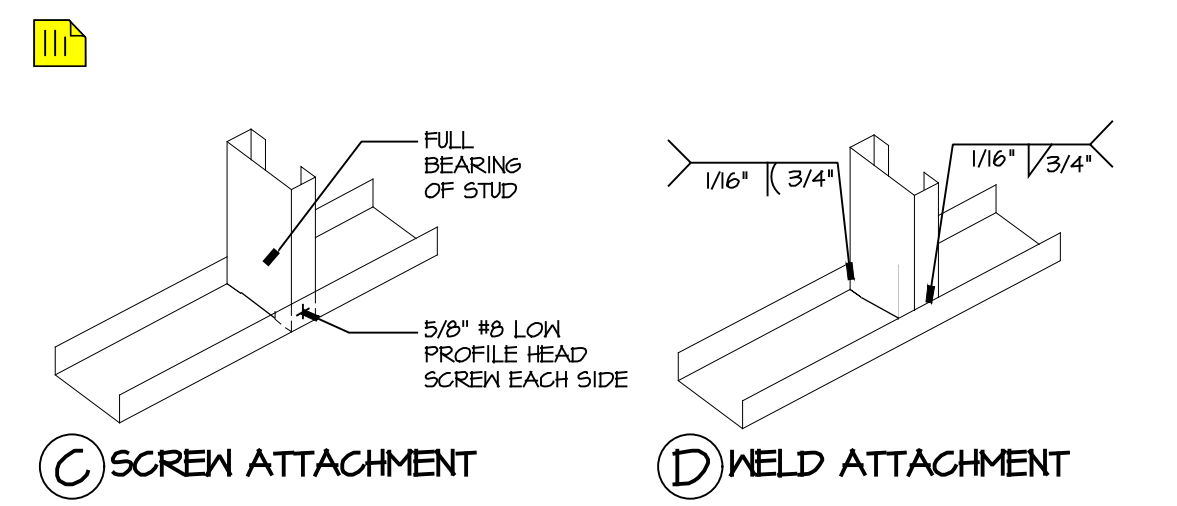
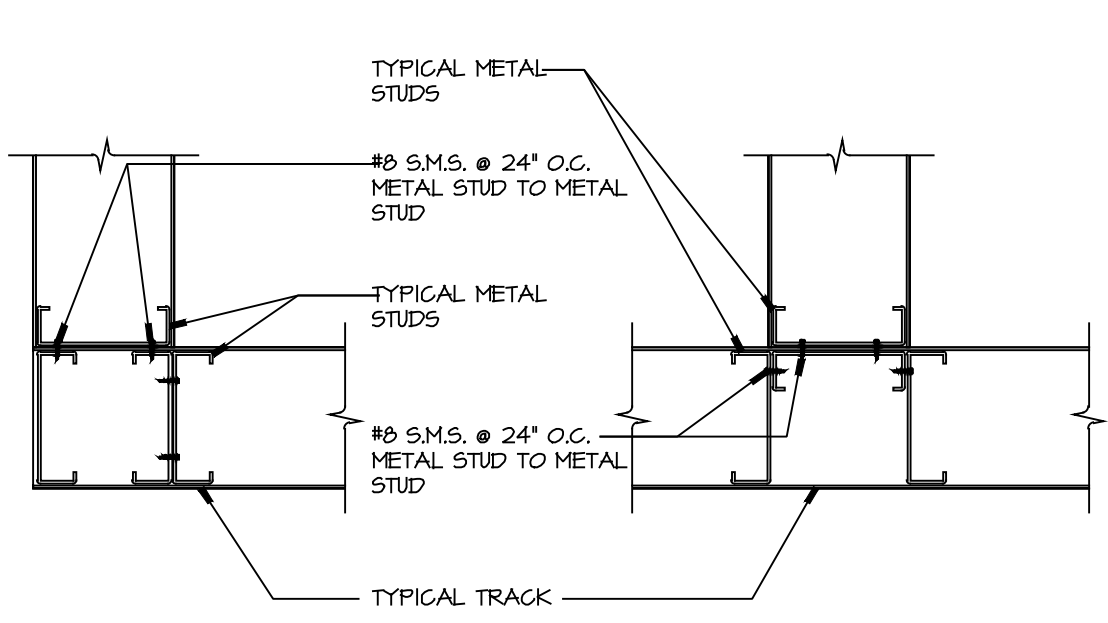
JOISTS PERPENDICULAR TO WALL

18 COVERED SHEET VINYL BASE
 3\"/>

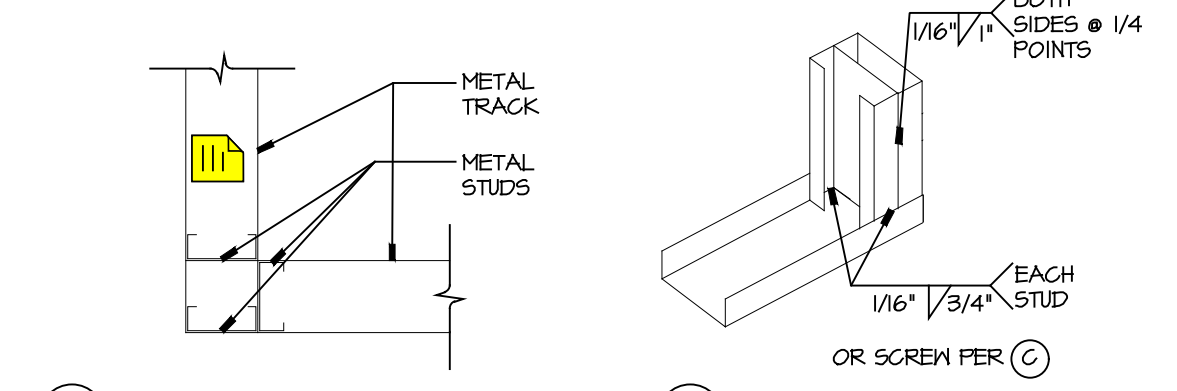
13 (N) WALL AT BASE
 1/2\"/>



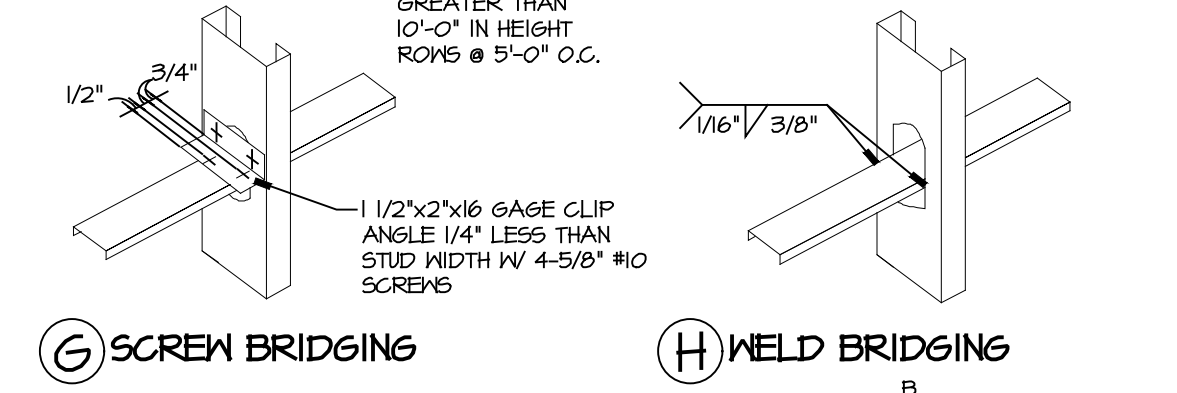
8 CEILING FRAMING
 1\"/>



C SCREW ATTACHMENT D WELD ATTACHMENT

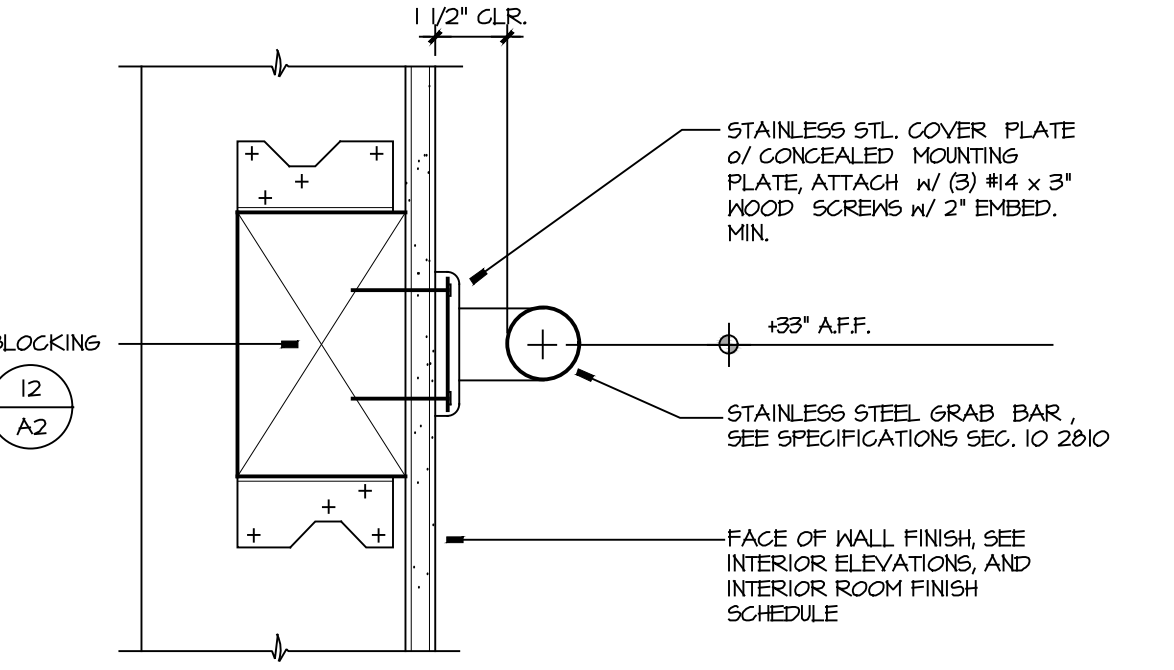


E CORNER DETAIL F MULTIPLE STUD ATTACHMENT



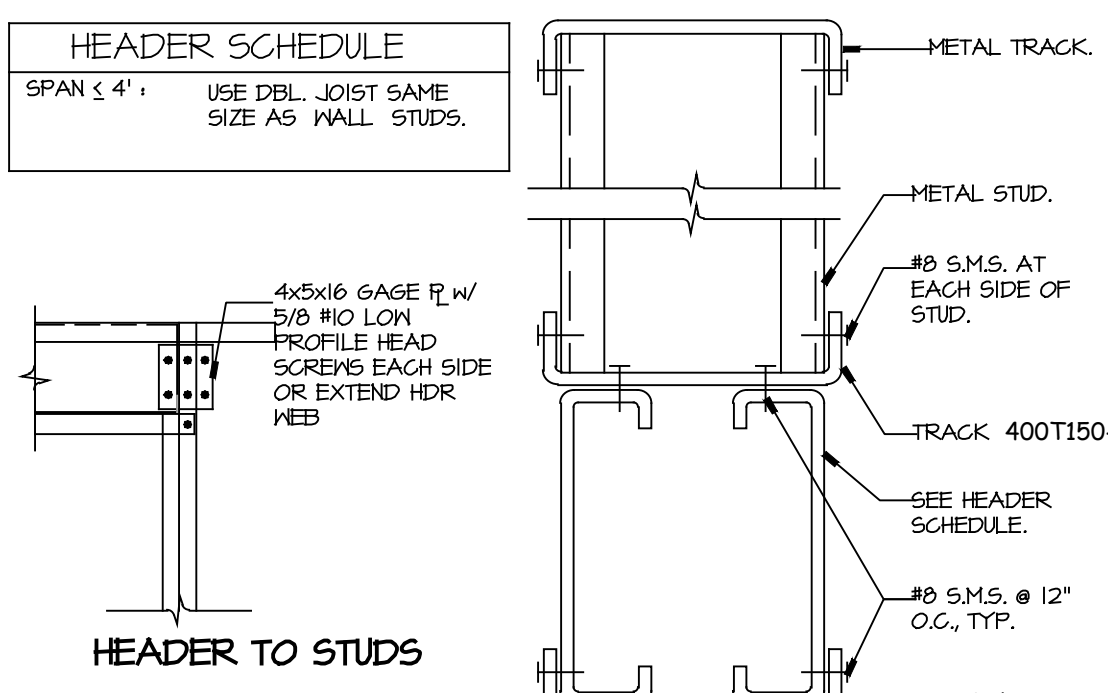
G SCREW BRIDGING H WELD BRIDGING

12 4x BLOCKING ATTACHMENT WD. STUDS
 1/2\"/>



11 GRAB BAR ANCHORAGE
 3\"/>

7 INTERSECTIONS
 1/2\"/>



6 BOX HEADER
 NTS

STEEL STUD NOTES

STEEL STUDS SHALL BE ASTM 653, DESIGNATION S8
 MINIMUM SECTION PROPERTIES FOR STUDS ARE AS FOLLOWS:

TYPE	MARK	G.A.	AREA IN ²	DIMENSIONS (N) D B L	EFF. SECTION PROPERTIES Ix IN ⁴ Sx IN ³	ASTM SPEC	Fy (ksi)
1	400S125-33	20	0.228	4 1/4 3/16	0.524 0.203	A653	33
2	600S197-33	20	0.318	6 1 3/8 3/8	1.548 0.455	A653	33
3	800S197-33	20	0.388	8 1 3/8 3/8	2.998 0.622	A653	33

1 LIGHT GAUGE STEEL
 NTS

ALTERNATIVE EDUCATION COMPLEX
 PORTERVILLE UNIFIED SCHOOL DISTRICT
 914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257

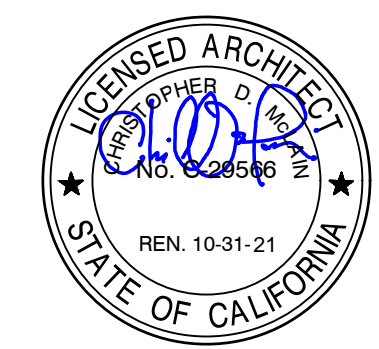
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TITLE
 DETAILS
A2
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DIV. OF THE STATE ARCHITECT
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SS FLS ACS
DATE: 02/13/2020



DATE: 7-10-19

**ALTERNATIVE
EDUCATION COMPLEX**
PORTERVILLE UNIFIED SCHOOL DISTRICT
914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257

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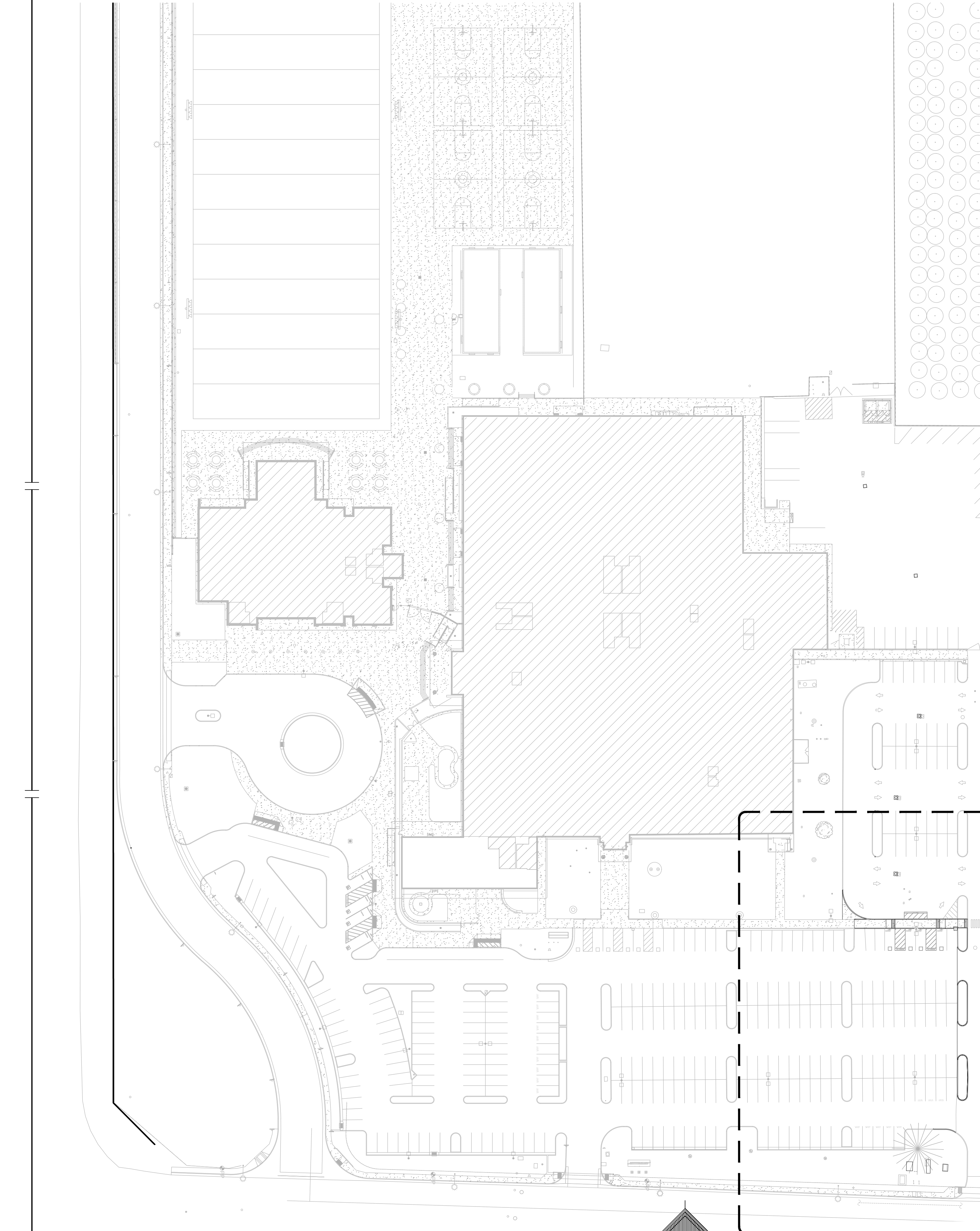
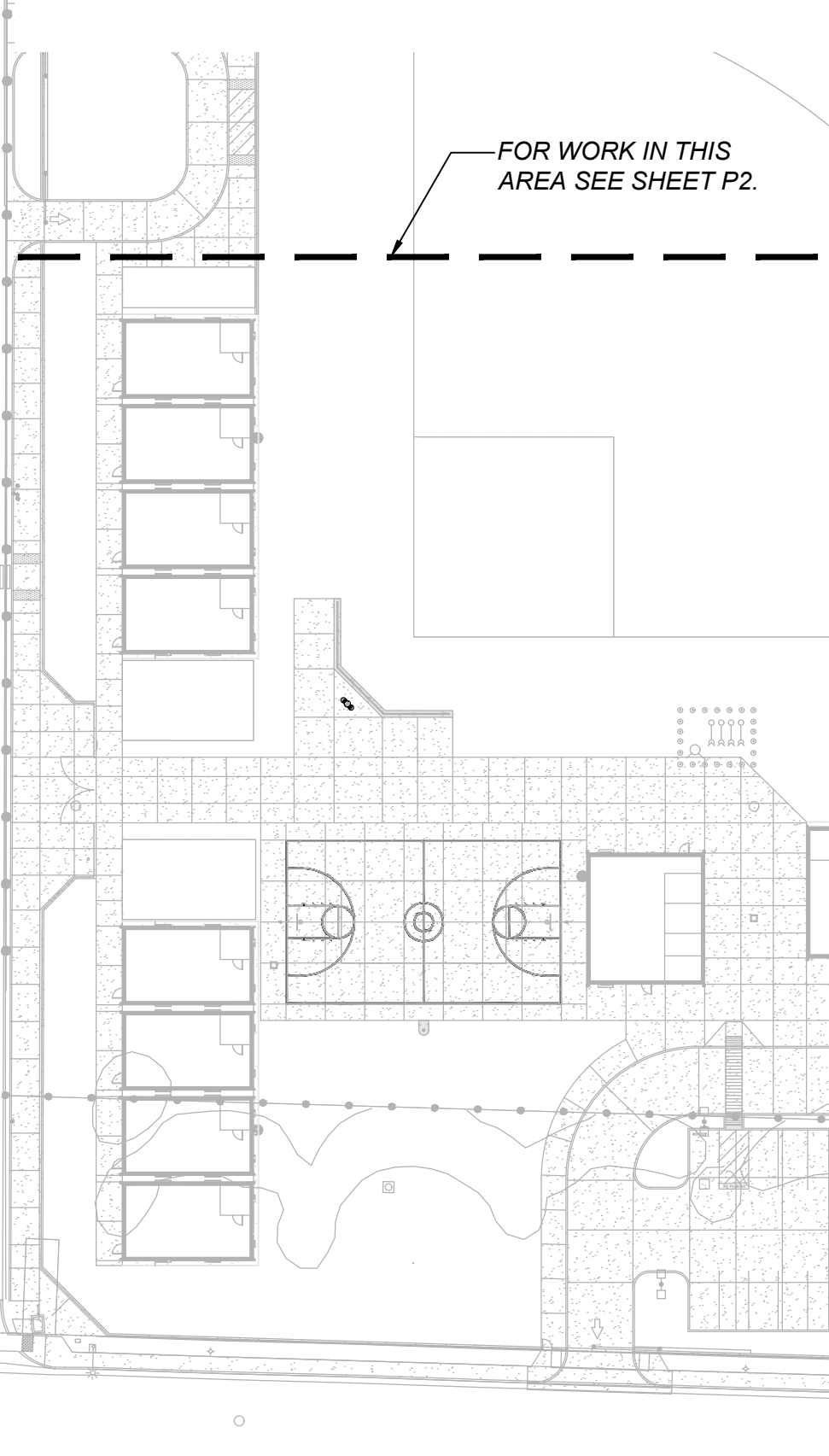
TITLE
OVERALL
SITE PLAN
P1
PROJECT **1901**

AVOID IMPACT WITH OTHER STRUCTURAL AND NONSTRUCTURAL COMPONENTS.
a. IF NOMINAL PIPE SIZE IS > 3 INCHES OR ANY SIZE PIPE WITH $RP > 4.5$, THE SEISMIC RESTRAINT SPACING SHALL BE CALCULATED BASED ON THE CAPACITY OF THE RESTRAINTS TO RESIST THE TRIBUTARY LOADS. THE PIPE CAPACITY NEED NOT BE CHECKED, WHERE SEISMIC RESTRAINTS ARE REQUIRED, THEY SHALL BE MECHANICALLY ATTACHED (SCREWED, BOLTED, WELDED, ETC.) TO THE ROOF STRUCTURAL MEMBERS, SUCH AS LYWOOD SHEATHING, CONCRETE SLAB, METAL DECK, JOISTS, BEAMS, OR BLOCKING, WHERE SEISMIC RESTRAINTS ARE NOT REQUIRED, THE PROVISIONS TO AVOID IMPACT MAY BE ACCOMPLISHED BY PROVIDING A FLEXIBLE COUPLING BETWEEN THE END OF THE PIPE AND THE CONNECTION TO THE EQUIPMENT IT IS SERVING, OR BY INSTALLING SEISMIC RESTRAINT AT THE END OF THE PIPE JUST PRIOR TO THE POINT OF CONNECTION TO THE EQUIPMENT IT IS SERVING, WHERE THE ROUTING OF SUCH PIPING CAUSES A CHANGE IN VERTICAL DIRECTION, SUCH AS TO PENETRATE THE ROOF MEMBRANE OR RISE UP A WALL OR PARAPET, THE PIPE SHALL HAVE SEISMIC RESTRAINTS TO THE ROOF STRUCTURE JUST PRIOR TO THE CHANGE IN DIRECTION.
REQUIREMENTS FOR ALL PIPES:
THE VERTICAL (GRAVITY) SUPPORT SPACING FOR HORIZONTAL PIPING ON ROOFS SHALL NOT EXCEED THAT REQUIRED BY THE CALIFORNIA PLUMBING CODE, WHERE SLEEPERS OR SIMILAR ELEMENTS ARE USED TO VERTICALLY SUPPORT PIPES ON THE ROOF, THE PIPING SHALL BE ATTACHED TO THE SUPPORTING ELEMENT (E.G. SLEEPER), BUT THE SUPPORTING ELEMENT NEED NOT BE MECHANICALLY ATTACHED TO THE ROOF STRUCTURE EXCEPT WHERE ANY OF THE FOLLOWING CONDITIONS OCCUR:
1. A SEISMIC RESTRAINT IS REQUIRED.
2. THE VERTICAL REACTION EXCEEDS 300 POUNDS.
3. THE HEIGHT ABOVE THE ROOF SURFACE TO THE CENTER OF MASS OF THE COMBINED PIPE AND SUPPORT IS GREATER THAN THE SMALLER OF 12 INCHES AND HALF THE LENGTH OF THE SUPPORTING SLEEPER. THE ROOF STRUCTURE SHALL HAVE THE CAPACITY TO SUPPORT THE SLEEPER AND PIPE REACTION. FOR THE PURPOSES OF THIS INTERPRETATION, THE ROOF SLOPE SHALL NOT EXCEED 1 IN 12 . FOR STEEPER ROOF SLOPES, ADDITIONAL ATTACHMENTS SHALL BE INSTALLED TO RESTRAIN THE MOVEMENT OF THE PIPES.
7. PENETRATIONS THROUGH FIRE RATED WALLS, FLOOR/CEILING AND ROOF/CEILING ASSEMBLIES SHALL BE SEALED USING AN APPROVED SYSTEM CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN SUBJECTED TO THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC TO FIRE STOPS PER 2016 CBC SECTION 714. THIS INCLUDES EXISTING PIPE AND CONDUIT THROUGH NEW ASSEMBLIES. CUSTOM DESIGNED SYSTEMS WHICH COMBINE COMPONENTS FROM DIFFERENT APPROVED SYSTEMS BUT HAVE NOT BEEN TESTED AS A COMPLETE ASSEMBLY WILL NOT BE ACCEPTABLE. FOR FIRE STOPS FOR PIPE PENETRATIONS SEE SPECIFICATIONS AND DETAILS A-E-P-6.
8. FIELD VERIFY THE EXACT LOCATION, DEPTH AND SIZE OF ALL NEW POINTS OF CONNECTION TO EXISTING UTILITIES PRIOR TO COMMENCING NEW UTILITY WORK.
9. INSTALLATION OF NEW UTILITIES FROM EXISTING MAINS IN THE STREET SHALL BE DONE IN STRICT ACCORDANCE WITH GOVERNING AUTHORITY REQUIREMENTS.
10. INSTALLATION, TYPE AND MANUFACTURERS MODELS OF DOMESTIC WATER METERS, BACKFLOW PREVENTERS, FIRE HYDRANTS, DETECTOR CHECK VALVES, MANHOLES, DRAIN INLETS/OUTLETS AND OTHER APPURTENANCES OF SITE UTILITY SYSTEMS SHALL BE DONE IN STRICT ACCORDANCE WITH GOVERNING AUTHORITY REQUIREMENTS.
11. CONTRACTOR SHALL EXCAVATE AND BACKFILL THE GAS SERVICE TRENCH FOR THE LOCAL GAS UTILITY. THE LOCAL GAS UTILITY SHALL INSTALL THEIR GAS SERVICE LINE TO THE GAS METER. TRENCHING SHALL BE IN ACCORDANCE WITH UTILITY STANDARDS. ALL CHARGES AND FEES INCURRED BY THE UTILITY FOR NEW GAS SERVICE SHALL BE PAID BY THE CONTRACTOR.
12. ALL DOMESTIC WATER PIPING SHALL BE A MINIMUM OF 1/2" SIZE UNLESS NOTED OTHERWISE. USE A REDUCING DROP ELL AT FIXTURE CONNECTION WHEN APPLICABLE.

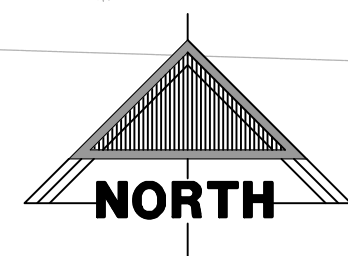
GENERAL PLUMBING NOTES:
1. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE BUILDING IN ACCORDANCE WITH THE 2016 EDITION OF TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP OR NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WOULD NOT COMPLY WITH SAID TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUESTED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
2. THE APPLICABLE CODES AND REGULATIONS FOR THIS PROJECT INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
CALIFORNIA CODE OF REGULATIONS
TITLE 8, INDUSTRIAL RELATIONS
TITLE 19, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
TITLE 24, PART 1, ADMINISTRATIVE REGULATIONS
2016 CALIFORNIA BUILDING CODE, PART 2, TITLE 24 CCR
2016 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24 CCR
2016 CALIFORNIA MECHANICAL CODE, PART 4, TITLE 24 CCR
2016 CALIFORNIA PLUMBING CODE, PART 5, TITLE 24 CCR
2016 CALIFORNIA FIRE CODE, PART 9, TITLE 24 CCR
NFPA 101 2015 EDITION
OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT
3. LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY. THE PLUMBING BUILDING PLANS HAVE BEEN PREPARED TO MATCH THE ARCHITECTURAL PLANS. IF DIFFERENCES OCCUR, THE ARCHITECTURAL PLANS ARE TO TAKE PRECEDENCE. THE ACTUAL LOCATIONS OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED. PRIOR TO INSTALLATION OF ANY WORK, TO AVOID ALL INTERFERENCE WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL, OR OTHER ELEMENTS, ALL PIPE OFFSET ELBOWS FOR COORDINATION BETWEEN TRADES ARE NOT SHOWN. CONTRACTOR SHALL INCLUDE SUFFICIENT FUNDS FOR THE COORDINATION OFFSETS IN THE BID. VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.
4. WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER-DRIVEN PINS IN EXISTING NON-PRESTRESSED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRE-STRESSED CONCRETE (PRE- OR POST-TENSIONED), LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.
5. MEP COMPONENT ANCHORAGE NOTE:
ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS, WHERE THERE IS NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTERS 13, 26 AND 30.
1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS OR HAS A CENTER MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.
THE ATTACHMENT OF THE FOLLOWING MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

BRACE ALL PIPING 3" DIAMETER AND GREATER, USE $lp=1.0$ FOR SEISMIC DESIGN CALCULATIONS.
IN ACCORDANCE WITH THE PIPING SYSTEM PROVISIONS IN ASCE 7 SECTION 13.6.8 AND EXCEPTION 3 IN SECTION 13.6.8.3, THE FOLLOWING REQUIREMENTS SHALL BE COMPLIED WITH:
1. PIPING SYSTEMS WITH $LP=1.0$ (E.G. GAS PIPING, OR PIPING REQUIRED FOR CONTINUED OPERATION OF RISK CATEGORY IV BUILDINGS):
a. IF NOMINAL PIPE SIZE IS < 1 INCH AND $RP > 4.5$, SEISMIC RESTRAINT IS NOT REQUIRED AND THE PIPE IS NOT REQUIRED TO BE DESIGNED FOR SEISMIC FORCES. PROVISIONS MUST BE MADE TO AVOID IMPACT WITH OTHER STRUCTURAL AND NONSTRUCTURAL COMPONENTS.
b. IF NOMINAL PIPE SIZE IS > 1 INCH OR ANY SIZE PIPE WITH $RP < 4.5$, SEISMIC RESTRAINT IS REQUIRED. THE SEISMIC RESTRAINT SPACING SHALL BE BASED ON THE CALCULATED ALLOWABLE SPAN OF THE PIPE, SUBJECTED TO COMBINED VERTICAL AND HORIZONTAL LOADING ON THE PIPE, AND THE CAPACITY OF THE SEISMIC RESTRAINTS. IN LIEU OF PROVIDING PIPE STRESS CALCULATIONS, THE RESTRAINT SPACING MAY BE DETERMINED FROM AN OSHPD OPM FOR AN EQUIVALENT SIZED SUSPENDED PIPE (AND NOT MORE THAN 40 FEET MAX ON-CENTER TRANSVERSE, AND 80 FEET MAX ON-CENTER LONGITUDINAL).
2. PIPING SYSTEMS WITH $LP=1.0$
a. IF NOMINAL PIPE SIZE IS < 3 INCHES AND $RP > 4.5$, SEISMIC RESTRAINT IS NOT REQUIRED AND THE PIPE IS NOT REQUIRED TO BE DESIGNED FOR SEISMIC FORCES. PROVISIONS MUST BE MADE TO

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL. THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.
FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.
6. PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.24, 1616A.1.25, 1616A.1.26.
THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEMS ARE AS NOTED BELOW, WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G. SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOB SITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.
MP MD PP A. OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
MP MD PP B. OPTION 2: PLUMBING PIPING (PP) - SHALL COMPLY WITH OPM-0043-13 OSHPD PRE-APPROVAL (MASONRY SEISMIC RESTRAINT GUIDELINES FOR SUSPENDED DISTRIBUTION SYSTEMS).
MP MD PP C. SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, INCLUDING ANY ADDENDA, FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL A AND CONNECTION LEVEL 8 FOR THE PROJECT AND CONDITIONS.

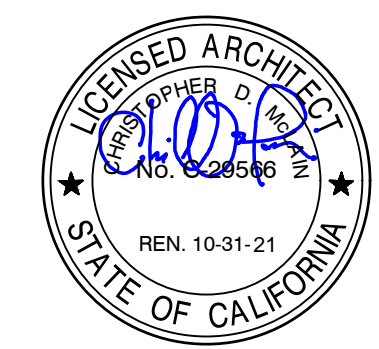


OVERALL SITE PLAN
SCALE: 1" = 50'-0"

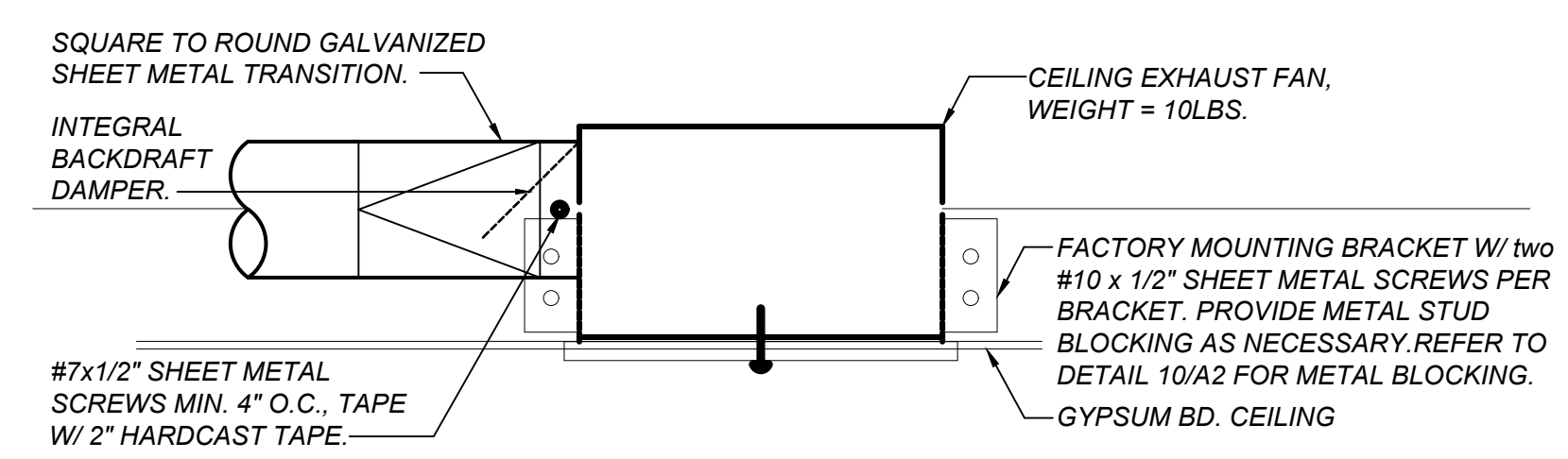


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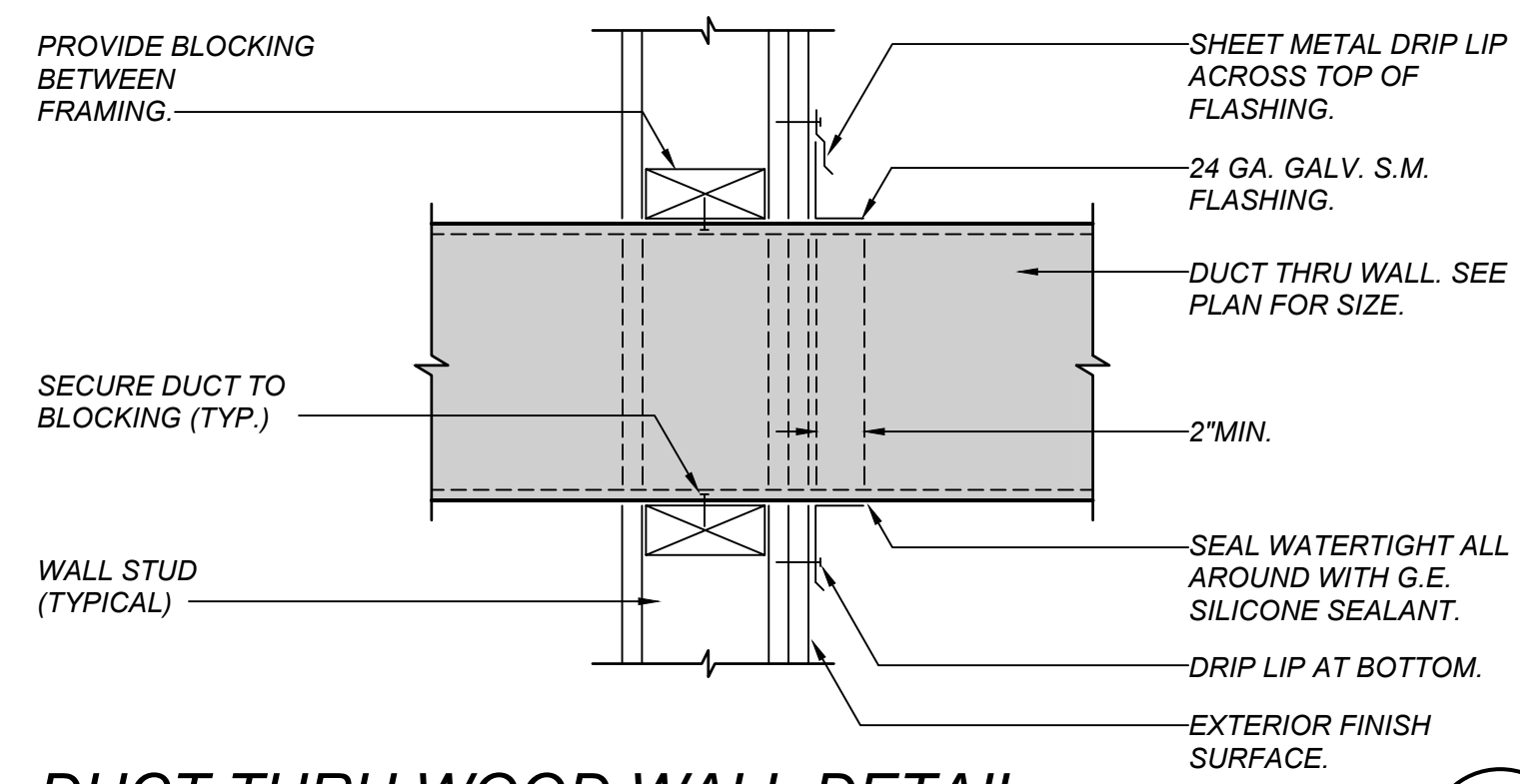
DATE: 7-10-19



EXHAUST FAN CEILING MOUNTING

SCALE: NONE

G
P3



DUCT THRU WOOD WALL DETAIL

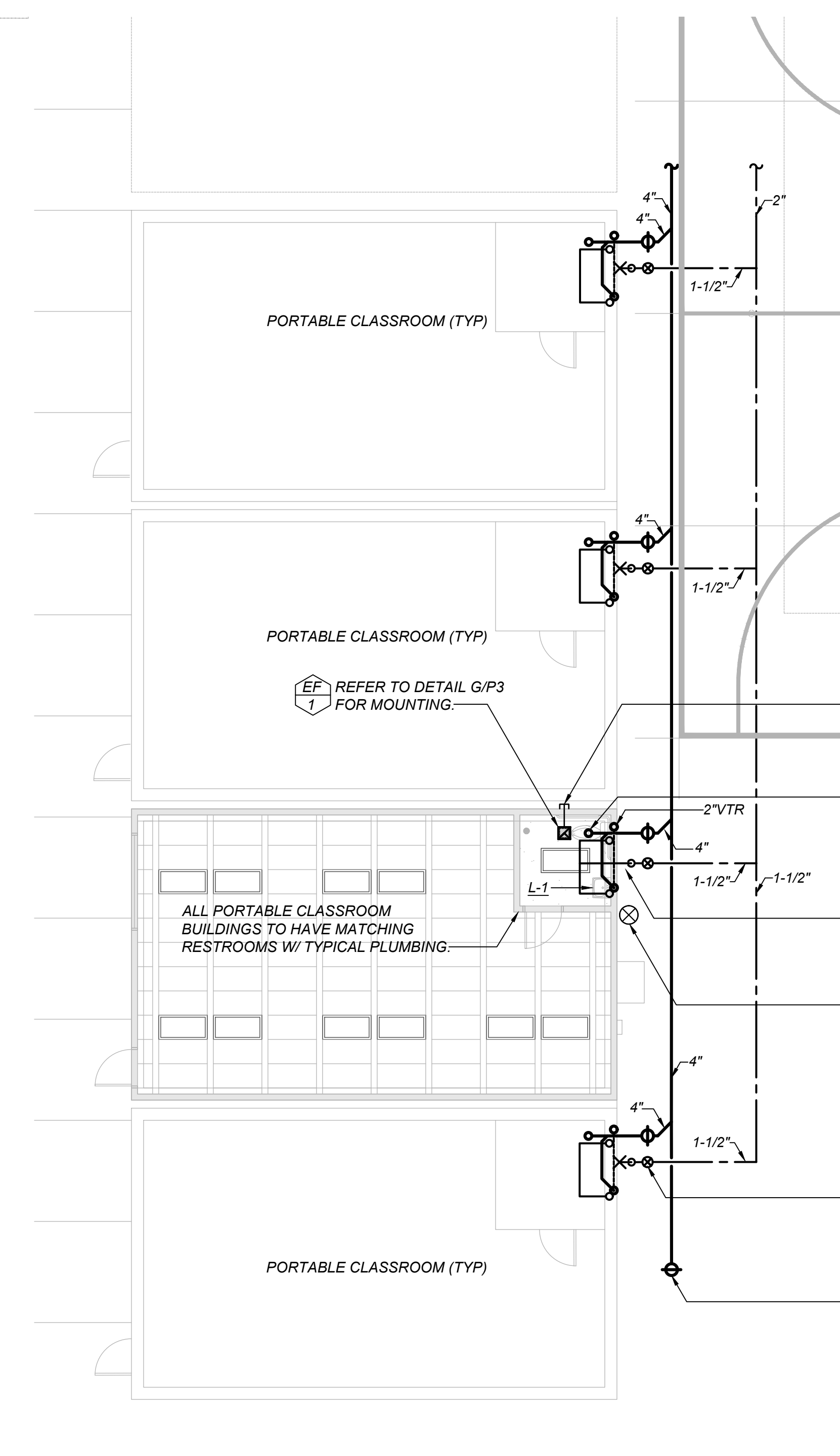
SCALE: NONE

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PLUMBING FIXTURE AND EQUIPMENT SCHEDULE						
MARK	FIXTURE	CONNECTION SIZES				DESCRIPTION
		S or W	V	CW	HW	
WC-1	WATER CLOSET	2"	1-1/2"	1/2"	-	KOHLER ELONGATED FLOOR MOUNT "CIMARRON" #K-3609-RA, (OR AMERICAN STANDARD OR ZURN EQUAL) CBC ACCESS COMPLIANT, 1.28 GPF, SLOAN "ROYAL" WITH TRIP LEVER ON TANK POINTED TOWARDS WIDE SIDE OF STALL AND OLSONITE #95CC/SS EXTRA HEAVY DUTY OPEN-FRONT SEAT.
L-1	LAVATORY	2"	1-1/2"	1/2"	-	KOHLER WALL-HUNG "KINGSTON" #K-2007, (OR AMERICAN STANDARD OR ZURN EQUAL) CBC ACCESS COMPLIANT, 21-1/4" x 18", VIT. CHINA WITH ONE FAUCET HOLE AT CENTER, McGUIRE #155A GRID DRAIN, CHICAGO "ECAST" #333-E2805-665PSHAB WITH METERING FAUCET ADJUSTED TO STAY OPEN FOR 10 SECONDS, JAY R. SMITH #723 CONCEALED ARMS, AND A STEEL SUPPORT PLATE FOR MOUNTING FIXTURE PER DETAIL E/P3. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
DF-1	DRINKING FOUNTAIN	2"	1-1/2"	1/2"	-	ELKAY OUTDOOR EZH2O #LK4430BF1U, TRI-LEVEL PEDESTAL WITH BOTTLE FILLING STATION, 316 STAINLESS, LAMINAR FLOW, HEAVY-DUTY VANDAL RESISTANT, EVERGREEN POWDER COAT FINISH.

EXHAUST FAN SCHEDULE	
DESIGNATION	EF
CFM MAX.	80
ESP (IN WC)	0.1
WATTS	43.1
VOLTS/PHASE	120/1
SONES	2.0
DRIVE	DIRECT
MOUNTING	CEILING
MANUFACTURER	BROAN
TYPE	CENTRIFUGAL
MODEL NUMBER	ARN80
CONTROL	(1)
SERVICE	PORTABLE CLRM
OPER. WT. (LBS)	10

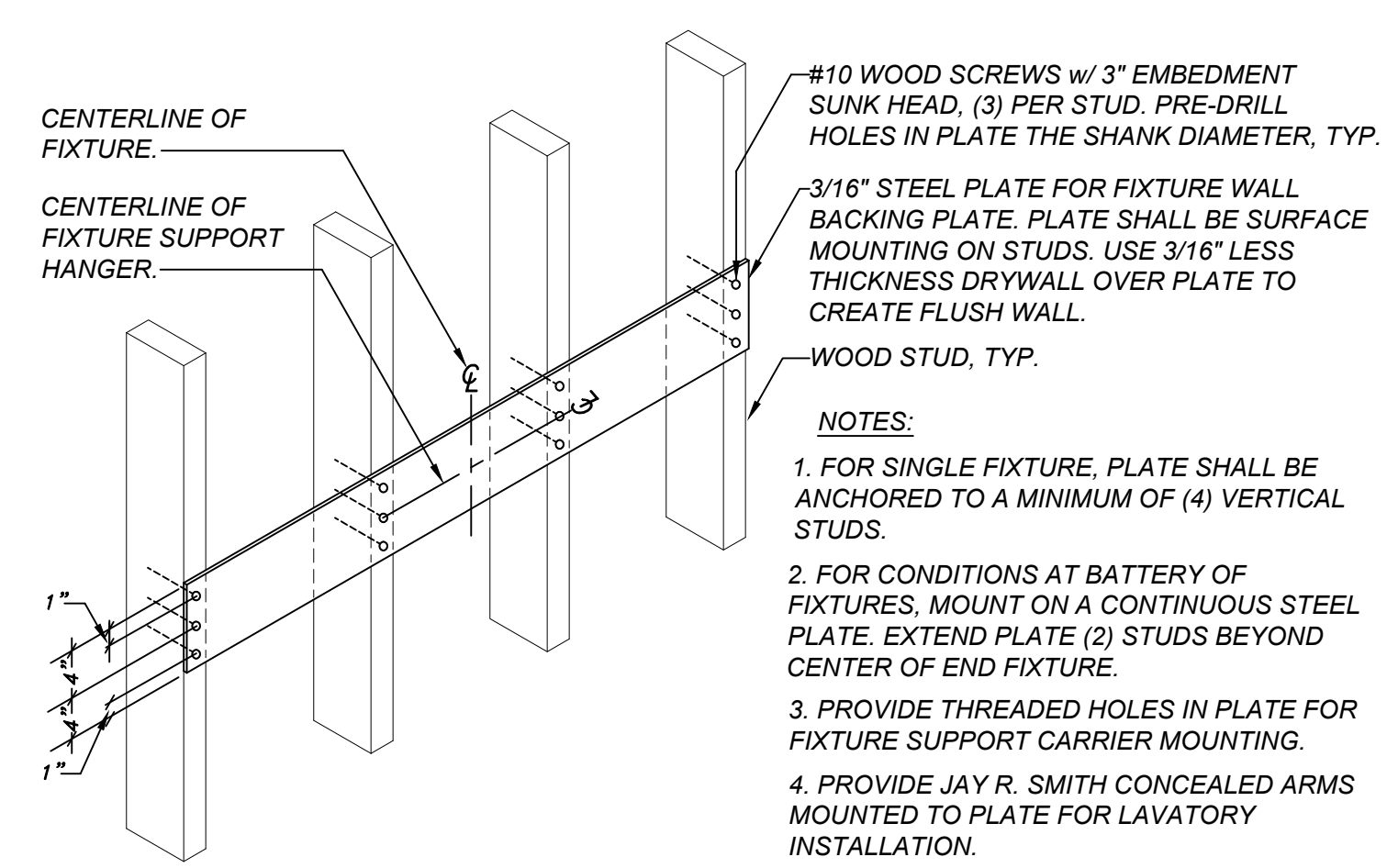
(1) EF-1 TO BE CONTROLLED BY MOTION SENSOR. SHUT OFF ON FIVE MINUTE DELAY AFTER SPACE IS UNOCCUPIED.



ENLARGED CLASSROOM PLUMBING PLAN

SCALE: 1/8"=1'-0"

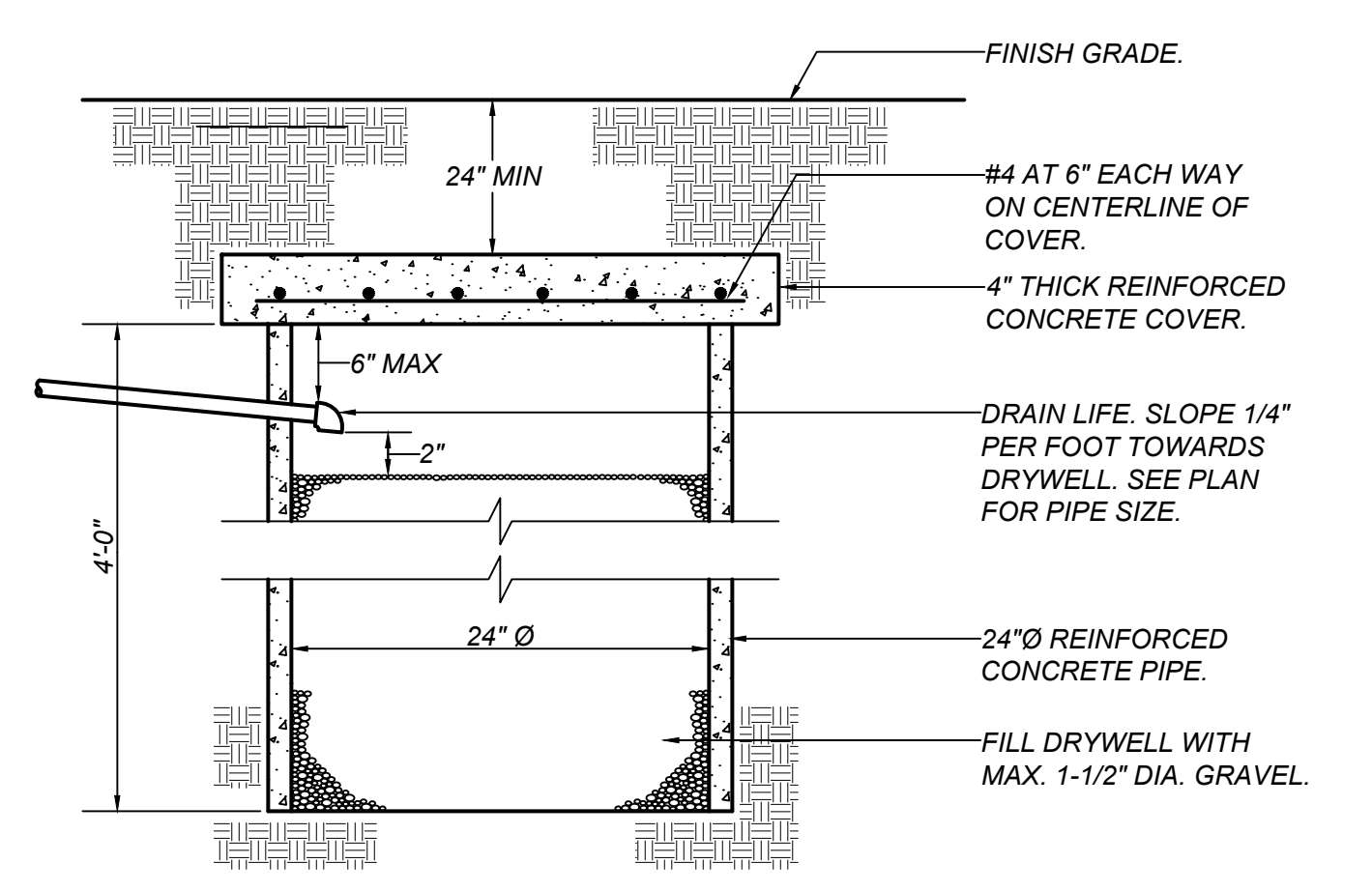
D
P3



FIXTURE SUPPORT BACKING PLATE DETAIL

SCALE: NONE

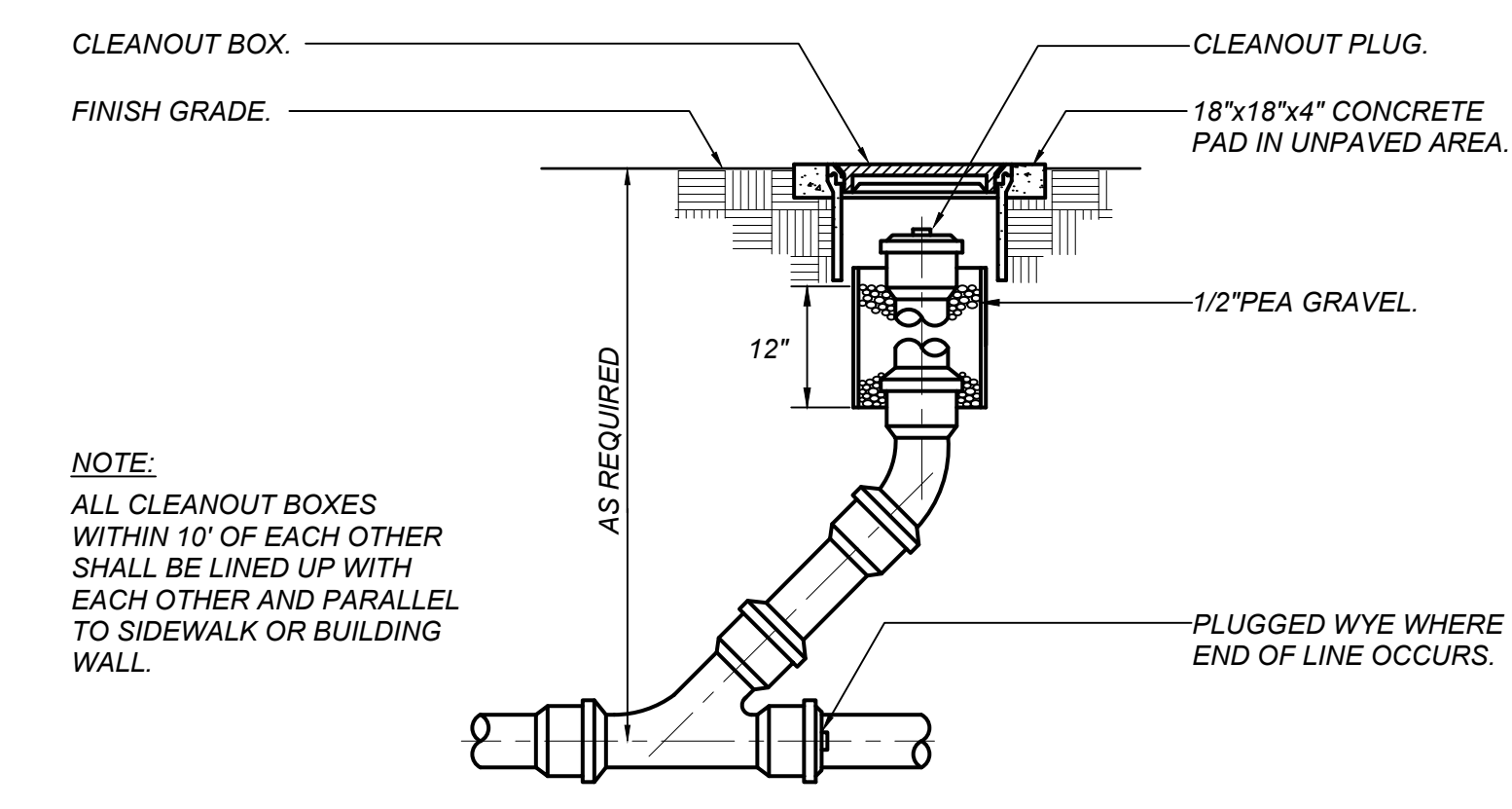
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DRYWELL DETAIL

SCALE: NONE

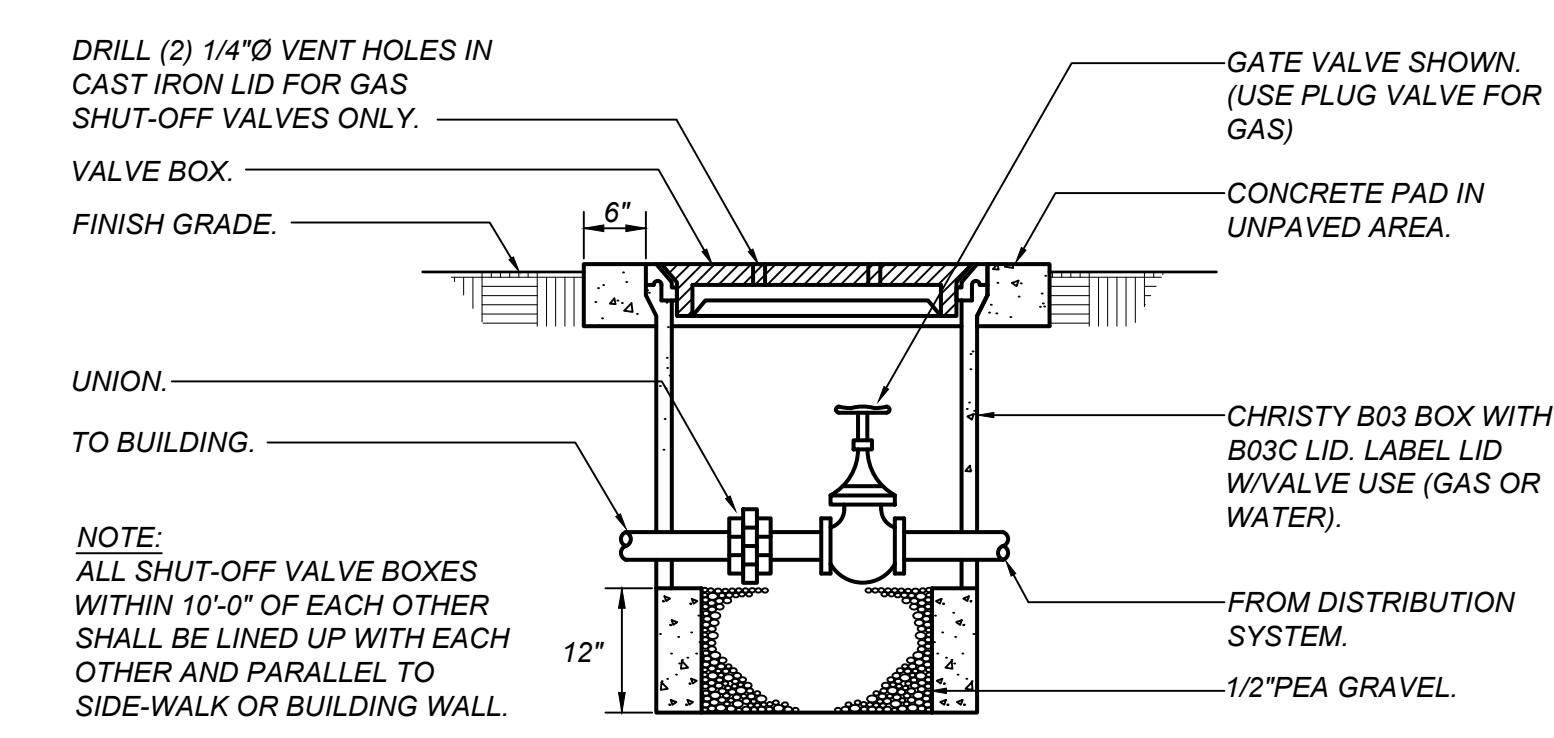
F
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CLEANOUT TO GRADE (BENT OUTLET) DETAIL

SCALE: NONE

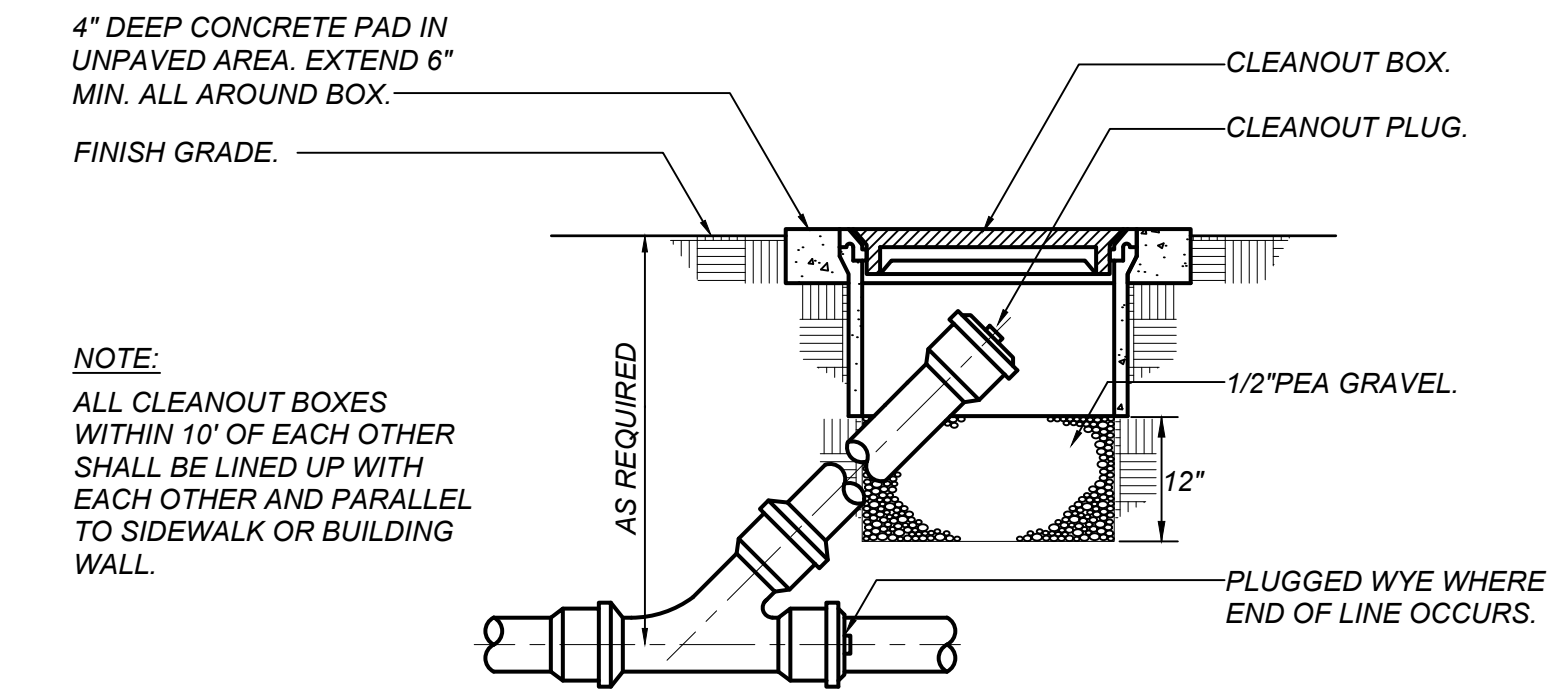
A
P3



SHUT-OFF VALVE IN BOX DETAIL

SCALE: NONE

B
P3



CLEANOUT TO GRADE (STRAIGHT OUTLET) DETAIL

SCALE: NONE

C
P3

ALTERNATIVE EDUCATION COMPLEX
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914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257

REVISIONS

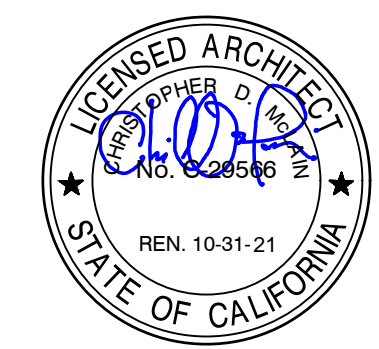
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TITLE
PLUMBING SCHEDULES & DETAILS
P3
PROJECT **1901**

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REVIEWED FOR
SS FLS ACS
DATE: 02/13/2020



DATE: 7-10-19

GENERAL NOTES

SPRINKLER SYSTEM DESIGNED IN ACCORDANCE WITH NFPA 13 (2016), NFPA 20 (2016), NFPA 24 (2016), CFC/CBC (2016), DIVISION OF THE STATE ARCHITECT - DEPARTMENT OF GENERAL SERVICES, AND CITY OF PORTERVILLE STANDARDS. ALL WORK TO BE DONE IN ACCORDANCE WITH THESE PLANS AND ALL NATIONAL, STATE, AND LOCAL CODES.

THESE DRAWINGS ARE NOT INTENDED TO REFLECT FINAL, COORDINATED (AMONGST THE TRADES), INSTALLATION PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE ACCEPTABLE WORKING INSTALLATION. WHETHER SHOWN OR NOT SHOWN, APPLICABLE TO ALL CITED CODES AND STANDARDS. IT SHALL BE THE RESPONSIBILITY OF THE SPRINKLER INSTALLATION CONTRACTOR TO COORDINATE WITH ALL TRADES.

CONTRACTOR TO REVIEW FOR BID, SYSTEM PLANS AS DESIGNED BY ENGINEER. ANY ALTERNATE PROPOSED DESIGN CHANGES OR REVISIONS BY CONTRACTOR, ARE TO BE SUBMITTED IN WRITTEN FORMAT, REVIEWED AND RESPONDED TO, BY ENGINEER PRIOR TO BIDDING. AFTER AWARD OF BID, ALL DEVIATIONS FROM THE ORIGINAL DESIGN INTENTION SHALL BE CLOUDED AND NOTED ON CONTRACTOR ISSUED SHOP DRAWINGS TO ENGINEER, WHICH HAVE BEEN COORDINATED AMONGST THE TRADES, FOR REVIEW AND APPROVAL BY ENGINEER.

GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR INSURING ALL SUB-CONTRACTOR'S COORDINATE SHOP DRAWINGS PRIOR TO ORDERING OR INSTALLATION OF ANY EQUIPMENT, DEVICE, MATERIAL, ETC. SUBMISSION OF SHOP DRAWINGS TO THE ENGINEER CONSTITUTES THAT THE DRAWINGS SUBMITTED HAVE BEEN COORDINATED AMONGST THE TRADES. FAILURE TO COORDINATE ALL SHOP DRAWINGS AMONGST THE TRADES, FOR REVIEW AND APPROVAL BY ENGINEER, WILL NOT CONSTITUTE A CHANGE ORDER TO THE OWNER, FOR UNIDENTIFIED FIELD COORDINATION ISSUES.

ANY DESIGN REVISIONS OR DEVIATIONS THAT ARISE FROM COORDINATION OF INSTALLATION METHODS AND MEANS AMONGST THE TRADES DURING CONSTRUCTION, SHALL BE PROVIDED TO THE ARCHITECT BY RFI, DETAILING COORDINATION ISSUE AND PROPOSED SOLUTION. ONCE REVIEWED AND APPROVED BY ENGINEER, THE DESIGN REVISIONS OR DEVIATIONS SHALL BE COORDINATED IN THE FIELD AMONGST THE IMPACTED TRADES, AND SHOWN ON THE AS-BUILTS. A COMPLETE, ACCURATE SET OF AS-BUILTS SHALL BE MAINTAINED ON SITE DURING CONSTRUCTION, AND ARE TO BE ISSUED TO ARCHITECT AND ENGINEER UPON COMPLETION, INSPECTION, AND TESTING OF INSTALLATION.

CONTRACTOR TO PROVIDE THE FOLLOWING:

- A. FULLY COORDINATED AMONGST THE TRADES INSTALLATION SHOP DRAWINGS, INCLUDING ALL PIPE CUT LENGTHS, FITTINGS, HANGERS, BRACES, SPRINKLERS WITH LEGEND, HYDRAULIC AND SEISMIC CALCULATIONS, AND PRODUCT SUBMITTAL, INCLUDE CSTM LISTINGS AS APPLICABLE.
- B. ELECTRONIC (DIGITAL) SUBMITTAL IN PDF FORMAT, PREPARED IN SINGLE PDF FILE, WITH BOOKMARKS FOR EACH ITEM SUBMITTED, SUBMITTALS NOT CONFORMING TO THIS REQUIREMENT WILL NOT BE REVIEWED.
- C. BOUND SUBMITTAL TO INCLUDE COVER PAGE, PIPING, HARDWARE, AND MATERIALS (INCLUDING FIRE STOPPING), COVER PAGE TO INCLUDE PROJECT NAME, SPRINKLER CONTRACTOR, GENERAL CONTRACTOR, ARCHITECT, AND DATE SUBMITTED FOR REVIEW.

ALL ITEMS REQUIRED BY NFPA 13 (2016) CHAPTER 23 (FOR WORKING DRAWINGS) SHALL BE PROVIDED ON THE SHOP DRAWINGS. SUBMITTALS ARE IN ADDITION TO, AND NOT IN LIEU OF, THIS REQUIREMENT.

FINAL INSTALLATION SPACING FOR SPRINKLER SYSTEM PIPING AND SPRINKLERS, MAY VARY WITH FIELD COORDINATION ISSUES. ALL VARIANCES TO COMPLY WITH LISTING OF SPRINKLERS, NFPA 13 (2016), CFC/CBC (2016), DIVISION OF THE STATE ARCHITECT - DEPARTMENT OF GENERAL SERVICES, AND CITY OF PORTERVILLE REQUIREMENTS.

ALL HANGERS, THREADED ROD, BRACING COMPONENTS AND HARDWARE, SHALL BE HOT DIPPED GALVANIZED - OR FACTORY COATED GALVANIZED - FOR ALL EQUIPMENT AND COMPONENTS IN EXTERIOR APPLICATIONS AND ALL FASTENERS USED (I.E. BOLTS, NUTS & WASHERS, AND ANCHORS) TO BE STAINLESS STEEL.

SPRINKLERS ARE TO BE LOCATED CENTER TILE (OR AS INDICATED) ACCORDING TO INDUSTRY STANDARDS AND PRACTICES.

LOCATION OF SEISMIC BRACING AND HANGERS ARE INTENDED TO SHOW APPROXIMATE LOCATIONS. SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR SHOWING THE EXACT LOCATION OF SEISMIC RESTRAINTS ON SUBMITTED COORDINATED AMONGST THE TRADES SHOP DRAWINGS, AND FINAL AS-BUILTS.

SUBMITTED SHOP DRAWINGS SHALL DESIGNATE THE TYPE AND LOCATION OF EACH BRACE, HANGER OR RESTRAINT, AND SHALL BE ACCOMPANIED BY A DETAIL WITH LEGEND, AND CALCULATIONS (IF APPLICABLE) IN ACCORDANCE WITH NFPA 13 (2016), CFC/CBC (2016), AND THE APPROPRIATE SEISMIC DESIGN CRITERIA FOR THE PROJECT.

ANY SUBSTITUTION OF "FLEXIBLE" TYPE PIPING IN LIEU OF "RIGID" PIPE, OR ANY CHANGES TO SIZE, MANUFACTURER, OR LENGTHS OF "FLEXIBLE" TYPE PIPING WILL REQUIRED RE-SUBMITTAL OF PIPING PLANS, PRODUCT DATA SHEETS, AND HYDRAULIC CALCULATIONS TO DIVISION OF THE STATE ARCHITECT - DEPARTMENT OF GENERAL SERVICES (FIRE LIFE SAFETY) FOR REVIEW AND APPROVAL.

SHOP DRAWINGS THAT HAVE NOT BEEN COORDINATED AMONGST THE TRADES UTILIZING THE MOST CURRENT 2D/3D FILES, WILL NOT BE ACCEPTED FOR REVIEW.

SITE UNDERGROUND PLAN NOTES

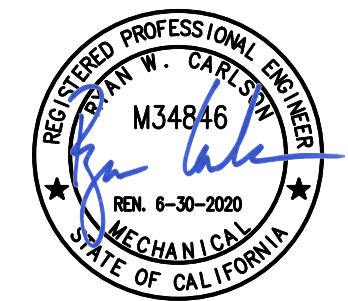
1. THE UNDERGROUND PIPING NOTED AS EXISTING OR BY OTHERS, IS INTENDED FOR HYDRAULIC CALCULATION OF SPRINKLER SYSTEM REFERENCE ONLY.
2. UG FIRE PIPING INSTALLATION CONTRACTOR SHALL COORDINATE WITH PLUMBING, CIVIL, LANDSCAPE, AND MECHANICAL PIPING PLANS PRIOR TO INSTALLATION.
3. ALL UG PIPE LENGTHS INDICATED ON PLANS REFLECT TOTAL PIPE LENGTH (CENTER TO CENTER) WITH NO TAKEOUT FOR FITTINGS.
4. ALL UNDERGROUND PVC, C-900, OR OTHER PLASTIC PIPING UTILIZED SHALL BE EQUIPPED WITH A SUITABLE MAGNETIC LOCATION TAPE INSTALLED APPROPRIATELY TO THE TOP OF THE PIPING.

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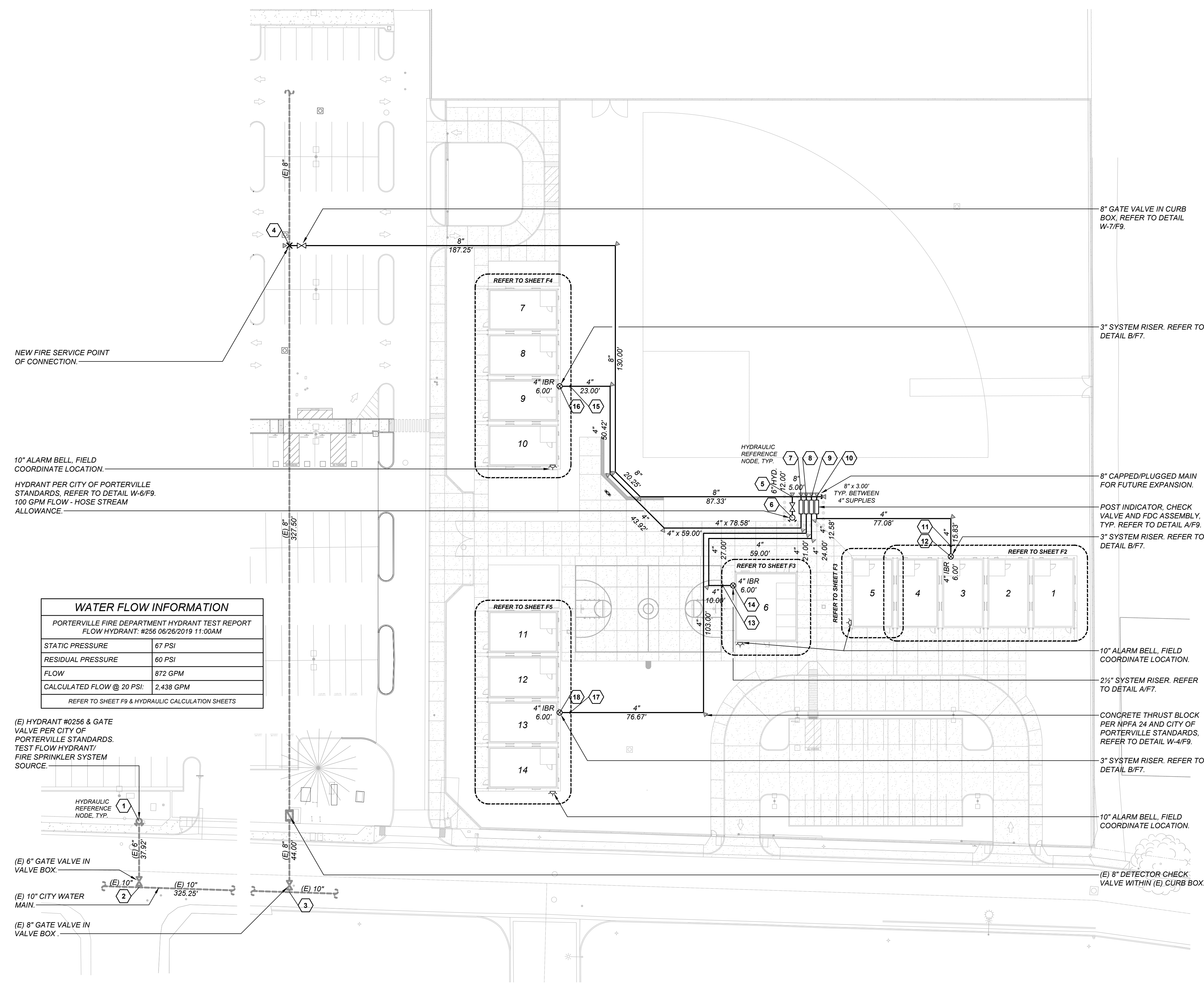
NO.	DATE	REVISIONS

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TITLE
FIRE PROTECTION
SITE PLAN
F1
PROJECT **1901**



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NEW FIRE SERVICE POINT OF CONNECTION.

10" ALARM BELL, FIELD COORDINATE LOCATION.

HYDRANT PER CITY OF PORTERVILLE STANDARDS, REFER TO DETAIL W-6/F9. 100 GPM FLOW - HOSE STREAM ALLOWANCE.

WATER FLOW INFORMATION	
PORTERVILLE FIRE DEPARTMENT HYDRANT TEST REPORT FLOW HYDRANT: #256 06/26/2019 11:00AM	
STATIC PRESSURE	67 PSI
RESIDUAL PRESSURE	60 PSI
FLOW	872 GPM
CALCULATED FLOW @ 20 PSI:	2,438 GPM
REFER TO SHEET F9 & HYDRAULIC CALCULATION SHEETS	

(E) HYDRANT #0256 & GATE VALVE PER CITY OF PORTERVILLE STANDARDS. TEST FLOW HYDRANT/ FIRE SPRINKLER SYSTEM SOURCE.

HYDRAULIC REFERENCE NODE, TYP.

(E) 6" GATE VALVE IN VALVE BOX.

(E) 10" CITY WATER MAIN.

(E) 8" GATE VALVE IN VALVE BOX.

8" GATE VALVE IN CURB BOX, REFER TO DETAIL W-7/F9.

3" SYSTEM RISER. REFER TO DETAIL B/F7.

8" CAPPED/PLUGGED MAIN FOR FUTURE EXPANSION.

POST INDICATOR, CHECK VALVE AND FDC ASSEMBLY, TYP. REFER TO DETAIL A/F9.

3" SYSTEM RISER. REFER TO DETAIL B/F7.

10" ALARM BELL, FIELD COORDINATE LOCATION.

2 1/2" SYSTEM RISER. REFER TO DETAIL A/F7.

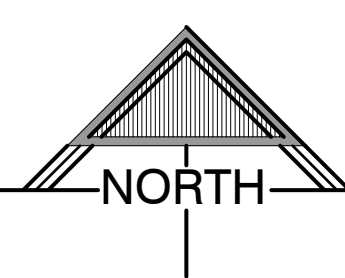
CONCRETE THRUST BLOCK PER NFPA 24 AND CITY OF PORTERVILLE STANDARDS, REFER TO DETAIL W-4/F9.

3" SYSTEM RISER. REFER TO DETAIL B/F7.

10" ALARM BELL, FIELD COORDINATE LOCATION.

(E) 8" DETECTOR CHECK VALVE WITHIN (E) CURB BOX.

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



SPRINKLER SYSTEM NOTES FOR ALL PORTABLE BUILDINGS

SPRINKLER SYSTEM DESIGN CRITERIA:

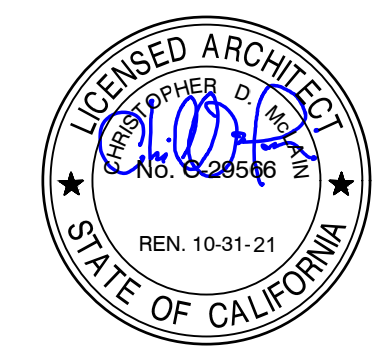
- SYSTEM SHALL BE DESIGNED TO CONFORM WITH NFPA 13 (2016 CALIFORNIA EDITION), CFC/CBC (2016), DIVISION OF THE STATE ARCHITECT - DEPARTMENT OF GENERAL SERVICES, AND CITY OF PORTERVILLE STANDARDS.
- FIRE SPRINKLER SYSTEM POINT OF CONNECTION SHALL BE AT THE 2 1/2" EXISTING FIRE MAIN LOCATED AT THE ADJACENT BUILDING. REFER TO SPRINKLER PLAN ON SHEET F-2.
- SPRINKLER DISCHARGE DENSITY FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH NFPA 13 (2016) §11.2.1.2.4 WITH DENSITY CURVES IN ACCORDANCE WITH FIG. 11.2.3.1.1.
 - LIGHT HAZARD OCCUPANCY SHALL INCLUDE ALL OFFICE, CORRIDOR, DINING, CONCEALED ATTIC SPACES, RESTROOMS, AND SIMILAR AREAS. LIGHT HAZARD OCCUPANCY SHALL HAVE A DESIGN DENSITY OF 0.10 GPM/FT² OVER A MINIMUM REMOTE AREA OF 1500 FT². THE MAXIMUM ALLOWABLE PROTECTION AREA OF COVERAGE FOR A SPRINKLER SHALL BE IN ACCORDANCE WITH THE VALUE INDICATED IN TABLE 8.6.2.2.1(a) AND SHALL NOT EXCEED 225FT².
 - MAXIMUM SPRINKLER SPACING SHALL NOT EXCEED 15'-0" ON CENTER, UNLESS SPECIFICALLY LISTED BY THE SPRINKLER MANUFACTURER.
- HOSE STREAM ALLOWANCE GPM FLOW SHALL BE IN ACCORDANCE WITH THE VALUES INDICATED IN TABLE 11.2.3.1.2: LIGHT HAZARD - 100 GPM, ORD HAZARD - 250 GPM.
- PER NFPA 13 (2016) §11.2.3.2.3.1, WHERE LISTED QUICK-RESPONSE SPRINKLERS ARE USED THROUGHOUT A SYSTEM OR PORTION OF A SYSTEM HAVING THE SAME HYDRAULIC DESIGN BASIS, THE SYSTEM AREA OF OPERATION SHALL BE PERMITTED TO BE REDUCED WITHOUT REVISING THE DENSITY AS INDICATED IN FIG. 11.2.3.2.3.1. NOTE: REMOTE AREA REDUCTION EXCLUDES EXTENDED COVERAGE SPRINKLER HEADS AND ONLY APPLICABLE TO LIGHT HAZARD OCCUPANCY ONLY.
- THE HYDRAULIC CALCULATION SOURCE SHALL BE TO THE FLOW TEST HYDRANT OR APPLICABLE STREET CONNECTION, ACCORDING TO LOCAL FIRE PREVENTION DISTRICT WATER CURVE DETERMINATIONS AND OR TESTING PROCEDURES. REFER TO SITE PLAN AND HYDRAULIC CALCULATIONS.
- STORAGE HEIGHT SHALL NOT EXCEED 8-FEET.
- MICROBIAL INDUCED CORROSION WILL NOT BE A FACTOR FOR THIS SYSTEM.
- THE FIRE SPRINKLER ALARM SYSTEM SHALL BE DESIGNED, INSTALLED AND PERMITTED BY OTHERS, AND IS NOT IN THE SCOPE OF WORK. SUPERVISORY FLOW DETECTORS AND TAMPER RESISTANT VALVES INSTALLED ON THE OVERHEAD SPRINKLER SYSTEM PIPING WILL BE SUPPLIED AND INSTALLED BY FIRE SPRINKLER CONTRACTOR AND WIRED BY ALARM CONTRACTOR.
- PER PROJECT SPECIFICATIONS, IF DESIGN OR MATERIALS DIFFER FROM THAT SPECIFIED HEREIN, SUPPLEMENTAL ENGINEERING DESIGN, SUBMITTAL, AND REVIEW SHALL BE REQUIRED.

PORTABLE CLASSROOM SPRINKLER NOTES:

- SYSTEM SHALL BE DESIGNED TO CONFORM WITH NFPA 13 (2016 CALIFORNIA EDITION), CFC/CBC (2016), DIVISION OF THE STATE ARCHITECT - DEPARTMENT OF GENERAL SERVICES, AND CITY OF PORTERVILLE STANDARDS.
- PER NFPA 13 (2016) §11.2.3.1.1(2) & §11.2.3.3 ALL CLASSROOM AREAS SHALL BE LIGHT HAZARD OCCUPANCY AND HAVE A DESIGN DENSITY OF 0.10GPM/FT² OVER A REMOTE AREA OF THE ENTIRE PORTABLE CLASSROOM BUILDING.
- SPRINKLER SPACING SHALL NOT EXCEED 7'-6" OFF ANY WALL OR 15'-0" BETWEEN SPRINKLER HEADS.
- PROVIDE 2" ANNUAL CLEARANCE AROUND 2 1/2" MAINS AT WALLS AND BEAMS PER NFPA 13 (2016) §9.3.4.2.
- PER NFPA 13 (2016) §8.15.1.2.1 CONCEALED SPACES OF NONCOMBUSTIBLE CONSTRUCTION (WITHIN ATTIC) SHALL NOT REQUIRE SPRINKLER PROTECTION.
- PER NFPA 13 (2016) §8.15.7.2 SPRINKLER PROTECTION IS NOT REQUIRED UNDER EXTERIOR PROJECTIONS CONSTRUCTED BY NON-COMBUSTIBLE/LIMITED-COMBUSTIBLE MATERIALS.
- BRANCH LINE PIPING TO BE INSTALLED w/MINIMAL DISTANCE FROM THE BOTTOM OF PURLIN DUE TO LOW CLEARANCE BETWEEN ROOF FRAMING AND T-BAR DROP CEILING.
- PER NFPA 13 (2016) §9.3.6.5 - LINE RESTRAINT IS NOT REQUIRED WHEN BRANCH LINE PIPING IS SUPPORTED BY HANGER ROD LESS THAN 6" IN LENGTH, MEASURED BETWEEN THE TOP OF THE PIPE AND THE POINT OF ATTACHMENT TO THE BUILDING STRUCTURE.

Hydraulic Information	
Remote Area 1	Light Hazard
OCCUPANCY CLASSIFICATION	Light Hazard
DENSITY	0.100gpm/ft ² for 1500.00ft ² (Actual 897.00ft ²)
TOTAL HOSE STREAMS	100.00
TOTAL HEADS FLOWING	10
K-FACTOR	5.6
TOTAL WATER REQUIRED	261.91
TOTAL PRESSURE REQUIRED	32.405
BASE OF RISER (gpm)	161.91
BASE OF RISER (psi)	27.673
SAFETY MARGIN (psi)	+33.839 (51.1%)

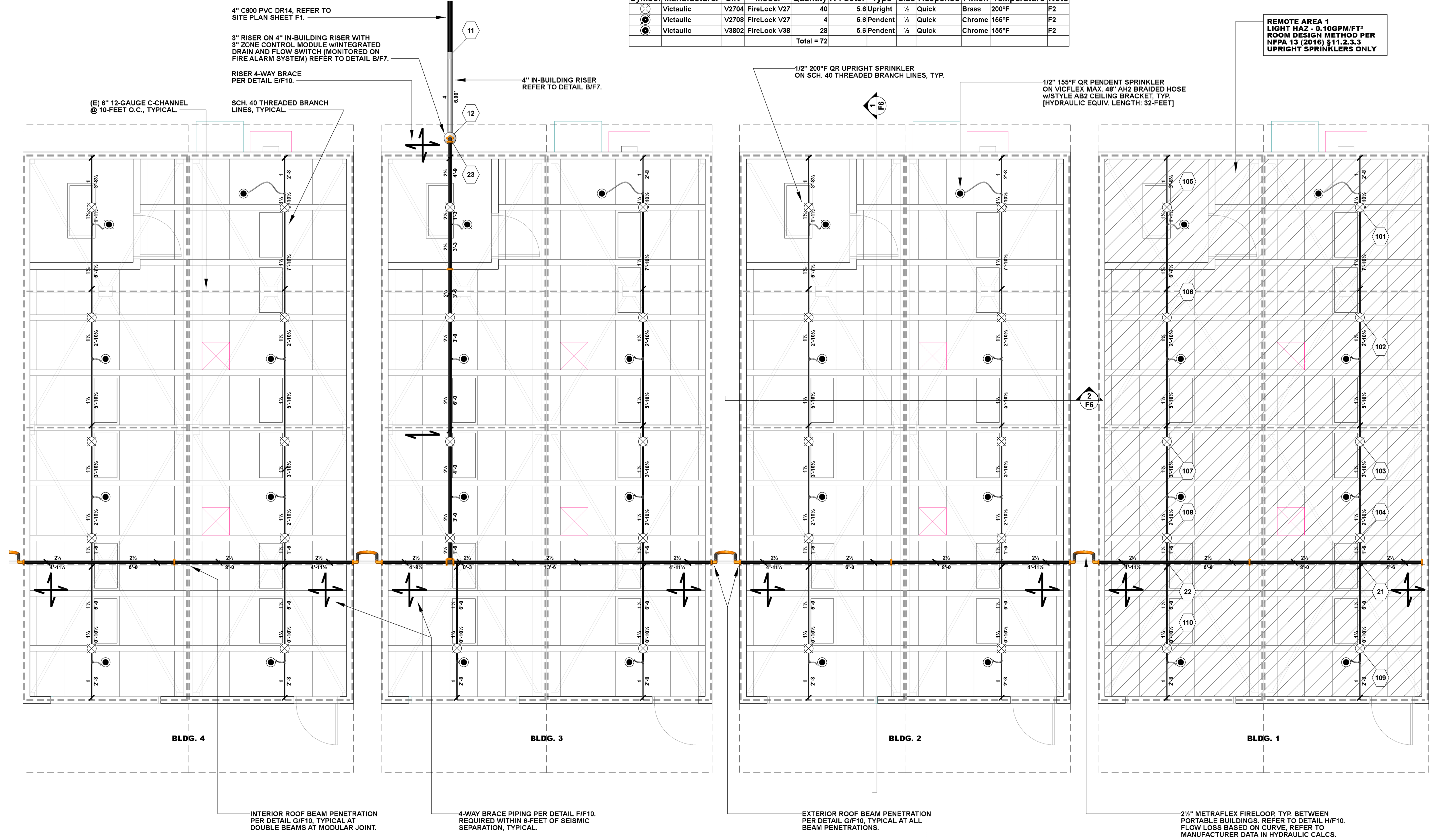
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APP. 02-117736 INC.
REVIEWED FOR
SS FLS ACS
DATE: 02/13/2020



DATE: 7-10-19

Sprinkler Head Legend											
Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Type	Size	Response	Finish	Temperature	Note
	Vietaulic	V2704	FireLock V27	40	5.6	Upright	1/2"	Quick	Brass	200°F	F2
	Vietaulic	V2708	FireLock V27	4	5.6	Pendent	1/2"	Quick	Chrome	155°F	F2
	Vietaulic	V3802	FireLock V38	28	5.6	Pendent	1/2"	Quick	Chrome	155°F	F2
				Total = 72							

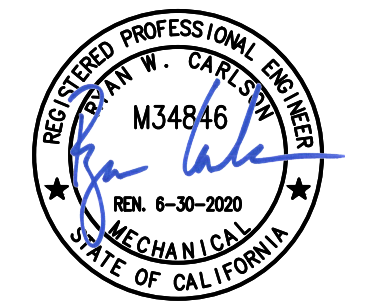
SPRINKLER LEGEND	
	LATERAL SEISMIC BRACE (PERPENDICULAR)
	LONGITUDINAL SEISMIC BRACE (PARALLEL)
	4-WAY SEISMIC BRACE (PARALLEL/PERPENDICULAR)
	LINE RESTRAINT
	PIPE HANGERS
	PENDENT SPRINKLER
	PENDENT SPRINKLER ON DROP NIPPLE
	UPRIGHT SPRINKLER
	SIDEWALL SPRINKLER
	MECHANICAL COUPLING
	SEISMIC SWING JOINT
	HYDRAULIC NODE
	FIRE PIPING
	EXISTING FIRE PIPING



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REVISIONS

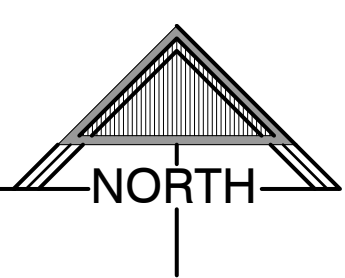
MANGINI ARCHITECTURE
INGENUITY
McLAIN BARENG MORRELLI
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(559) 627-0530 Office
(559) 627-1260 Fax
Vista, California 93291



TITLE
SPRINKLER PLAN
PORTABLES 1-4

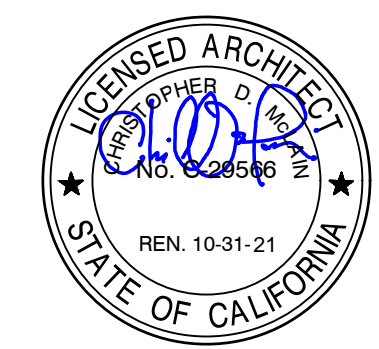
F2
PROJECT **1901**

FIRE SPRINKLER PLAN - PORTABLES 1-4
SCALE: 1/4" = 1'-0"



LAWRENCE ENGINEERING GROUP
Fresno, CA 93720
(559) 431-0101 19295 FAX (559) 431-1362

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APP. 02-117736 INC.
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SS FLS ACS
DATE: 02/13/2020



DATE: 7-10-19

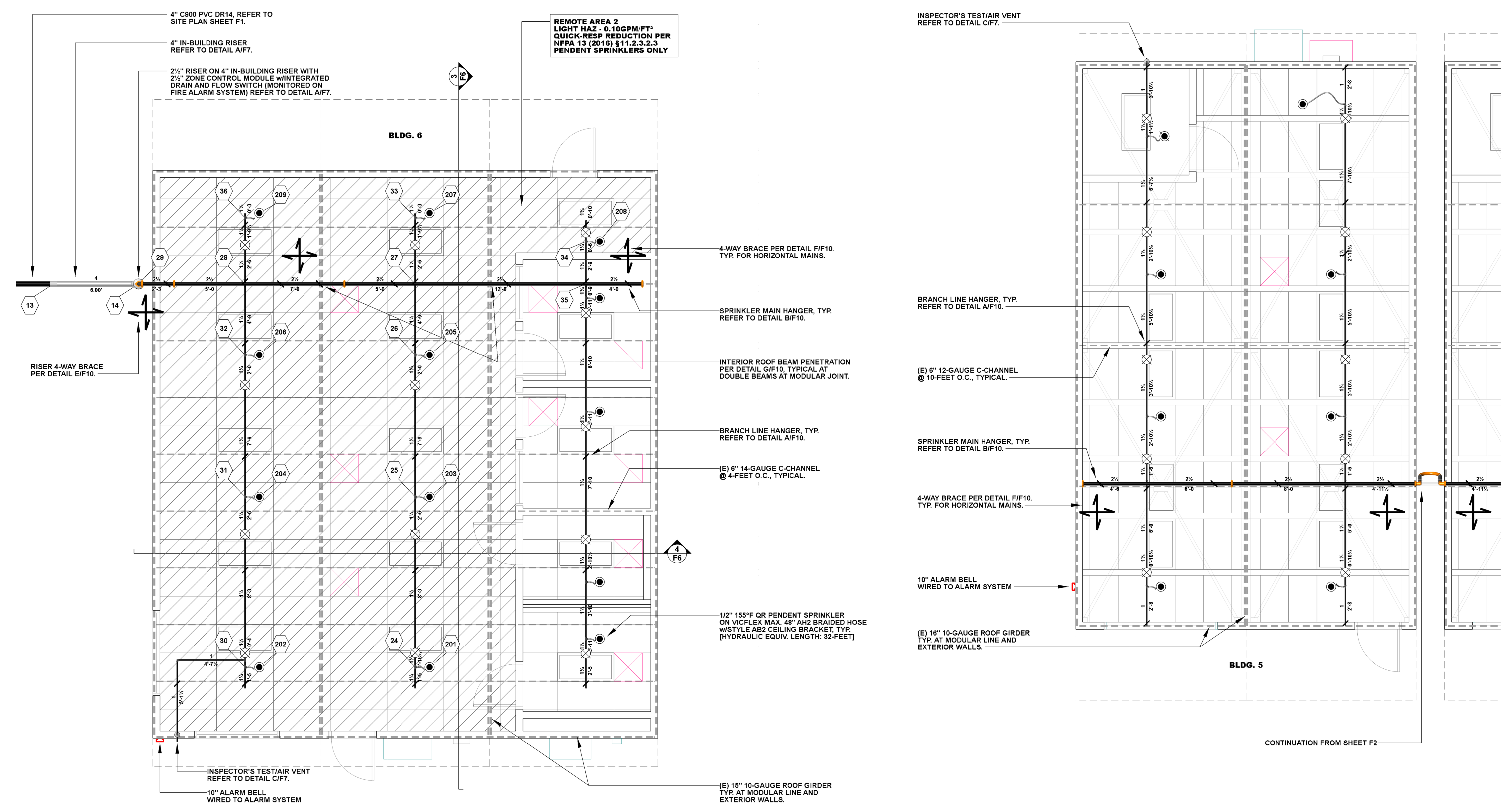
- PORTABLE CLASSROOM SPRINKLER NOTES:**
1. SYSTEM SHALL BE DESIGNED TO CONFORM WITH NFPA 13 (2016 CALIFORNIA EDITION), CFC/CBC (2016), DIVISION OF THE STATE ARCHITECT - DEPARTMENT OF GENERAL SERVICES, AND CITY OF PORTERVILLE STANDARDS.
 2. PER NFPA 13 (2016) §11.2.3.1.1(2) & §11.2.3.3 ALL CLASSROOM AREAS SHALL BE LIGHT HAZARD OCCUPANCY AND HAVE A DESIGN DENSITY OF 0.10GPM/FT² OVER A REMOTE AREA OF THE ENTIRE PORTABLE CLASSROOM BUILDING.
 3. SPRINKLER SPACING SHALL NOT EXCEED 7'-6" OFF ANY WALL OR 15'-0" BETWEEN SPRINKLER HEADS.
 4. PROVIDE 2" ANNUAL CLEARANCE AROUND 2 1/2" MAINS AT WALLS AND BEAMS PER NFPA 13 (2016) §9.3.4.2.
 5. PER NFPA 13 (2016) §8.15.7.2 SPRINKLER PROTECTION IS NOT REQUIRED UNDER EXTERIOR PROJECTIONS CONSTRUCTED BY NON-COMBUSTIBLE/LIMITED-COMBUSTIBLE MATERIALS.
 6. BRANCH LINE PIPING TO BE INSTALLED w/MINIMAL DISTANCE FROM THE BOTTOM OF PURLIN DUE TO LOW CLEARANCE BETWEEN ROOF FRAMING AND T-BAR DROP CEILING.
 7. PER NFPA 13 (2016) §9.3.6.5 - LINE RESTRAINT IS NOT REQUIRED WHEN BRANCH LINE PIPING IS SUPPORTED BY HANGER ROD LESS THAN 6" IN LENGTH, MEASURED BETWEEN THE TOP OF THE PIPE AND THE POINT OF ATTACHMENT TO THE BUILDING STRUCTURE.

Hydraulic Information	
Remote Area 2	
OCCUPANCY CLASSIFICATION	Light Hazard
DENSITY	0.10GPM/FT ² for 900.00FT ² (Actual 1028.52ft ²)
TOTAL HOSE STREAMS	100.00
TOTAL HEADS FLOWING	9
K-FACTOR	5.8
TOTAL WATER REQUIRED	286.20
TOTAL PRESSURE REQUIRED	33.390
BASE OF RISER (gpm)	186.20
BASE OF RISER (psi)	27.994
SAFETY MARGIN (psi)	+32.719 (49.6%)
REMOTE AREA SUBJECT TO QUICK-RESPONSE AREA REDUCTION PER NFPA 13 (2016) §11.2.3.2.3 AND FIGURE 11.2.3.2.3.1.	
CEILING HEIGHT LESS < 10-FEET, 1500FT ² - 40% = 900 FT ² MIN. REMOTE AREA	

Sprinkler Head Legend											
Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Type	Size	Response	Finish	Temperature	Note
⊗	Victaulic	V2704	FireLock V27	23	5.8	Upright	1/2"	Quick	Brass	200°F	F3
⊙	Victaulic	V2708	FireLock V27	1	5.8	Pendent	1/2"	Quick	Chrome	155°F	F3
⊙	Victaulic	V3802	FireLock V38	20	5.8	Pendent	1/2"	Quick	Chrome	155°F	F3
				Total = 44							

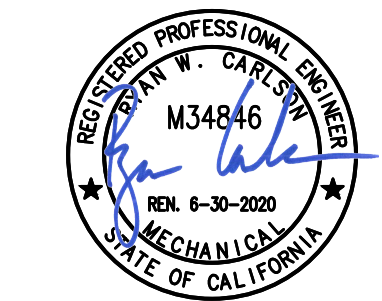
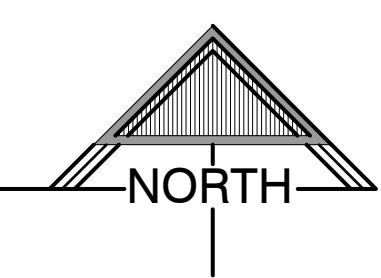
SPRINKLER LEGEND	
SYMBOL	DESCRIPTION
↕	LATERAL SEISMIC BRACE (PERPENDICULAR)
↔	LONGITUDINAL SEISMIC BRACE (PARALLEL)
⊕	4-WAY SEISMIC BRACE (PARALLEL/PERPENDICULAR)
— —	LINE RESTRAINT
— —	PIPE HANGERS
⊙	PENDENT SPRINKLER
⊙	PENDENT SPRINKLER ON DROP NIPPLE
⊗	UPRIGHT SPRINKLER
⊕	SIDEWALL SPRINKLER
— —	MECHANICAL COUPLING
⊕	SEISMIC SWING JOINT
⊙	HYDRAULIC NODE
— —	FIRE PIPING
- - -	EXISTING FIRE PIPING

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914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257



BUILDING 6 (36'x40') ONLY:
PER NFPA 13 (2016) §8.15.1.2.1 CONCEALED SPACES OF NON-COMBUSTIBLE CONSTRUCTION (WITHIN ATTIC) SHALL NOT REQUIRE SPRINKLER PROTECTION.

FIRE SPRINKLER PLAN - PORTABLES 5 & 6
SCALE: 1/4" = 1'-0"



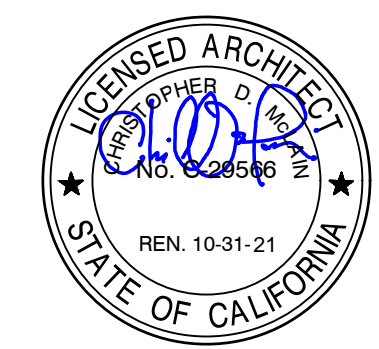
LAWRENCE ENGINEERING GROUP
Fresno, CA 93720
FAX (559) 431-1362

REVISIONS

MANGINI ARCHITECTURE
INGENUITY
McLAIN BARENG MORRELLI
www.mangini.us
(559) 627-0530 Office
(559) 627-1260 Fax
Vicksburg, California 93291

TITLE
SPRINKLER PLAN
PORTABLES 5 & 6

F3
PROJECT **1901**

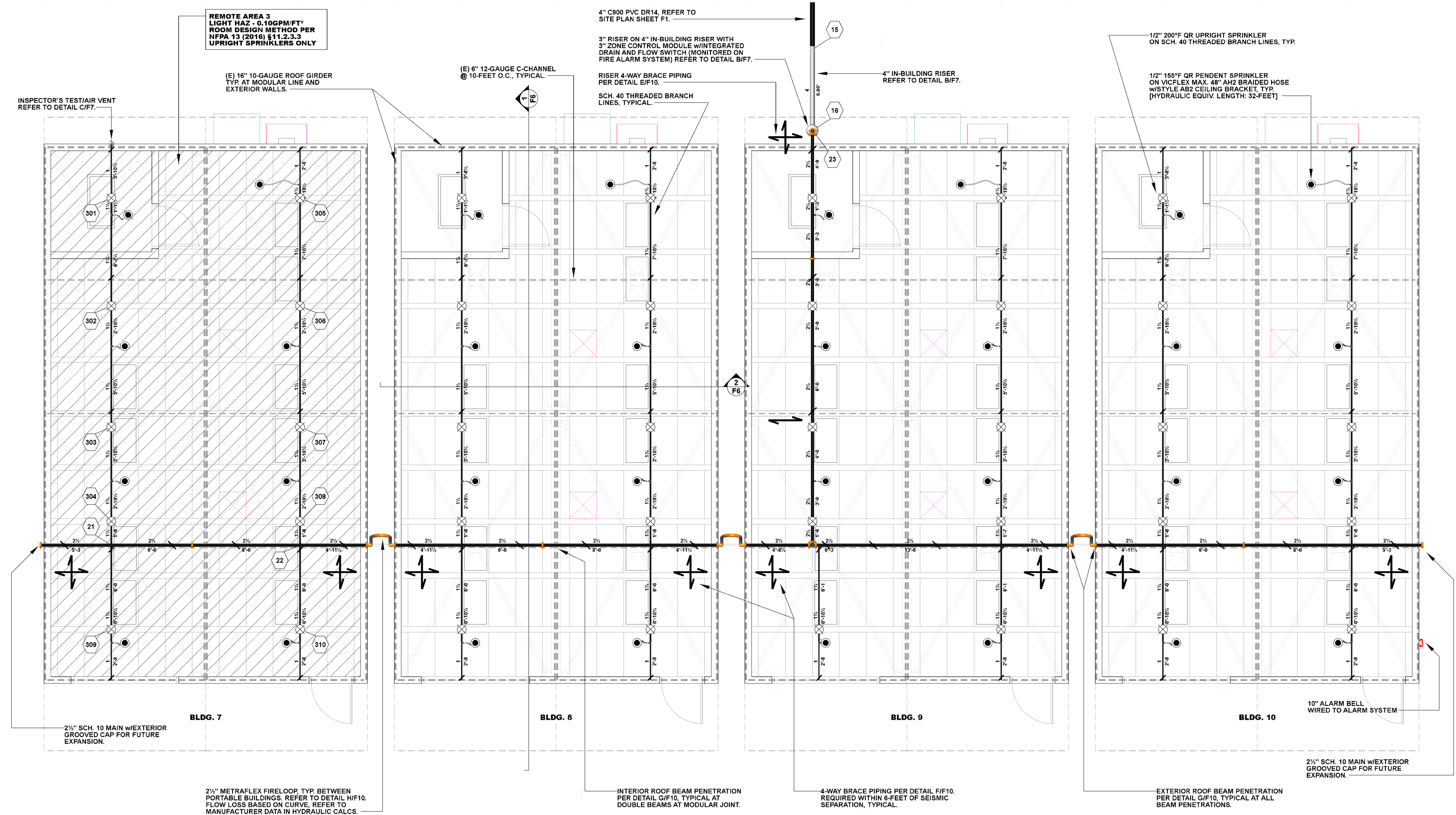


Hydraulic Information	
Remote Area 3	
OCCUPANCY CLASSIFICATION	Light Hazard
DENSITY	0.100gpm/ft ² for 1500.00ft ² (Actual 897.00ft ²)
TOTAL HOSE STREAMS	100.00
TOTAL HEADS FLOWING	10
K-FACTOR	5.6
TOTAL WATER REQUIRED	281.91
TOTAL PRESSURE REQUIRED	32.098
BASE OF RISER (gpm)	181.91
BASE OF RISER (psi)	26.689
SAFETY MARGIN (psi)	+34.146 (51.5%)

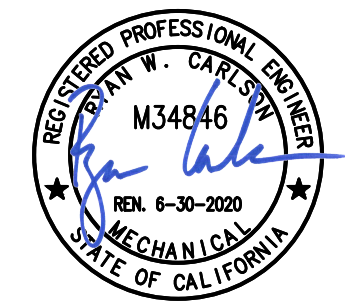
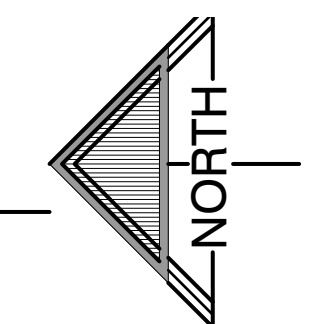
Sprinkler Legend											
Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Type	Size	Response	Finish	Temperature	Note
	Victaulic	V2704	FireLock V27	40	5.6	Upright	1/2"	Quick	Brass	200°F	F4
	Victaulic	V2708	FireLock V27	4	5.6	Pendent	1/2"	Quick	Chrome	155°F	F4
	Victaulic	V3802	FireLock V38	28	5.6	Pendent	1/2"	Quick	Chrome	155°F	F4
				Total = 72							

- PORTABLE CLASSROOM SPRINKLER NOTES:**
- SYSTEM SHALL BE DESIGNED TO CONFORM WITH NFPA 13 (2016 CALIFORNIA EDITION), CFC/CBC (2016), DIVISION OF THE STATE ARCHITECT - DEPARTMENT OF GENERAL SERVICES, AND CITY OF PORTERVILLE STANDARDS.
 - PER NFPA 13 (2016) §11.2.3.1.1(2) & §11.2.3.3 ALL CLASSROOM AREAS SHALL BE LIGHT HAZARD OCCUPANCY AND HAVE A DESIGN DENSITY OF 0.10GPM/FT² OVER A REMOTE AREA OF THE ENTIRE PORTABLE CLASSROOM BUILDING.
 - SPRINKLER SPACING SHALL NOT EXCEED 7'-6" OFF ANY WALL OR 15'-0" BETWEEN SPRINKLER HEADS.
 - PROVIDE 2" ANNUAL CLEARANCE AROUND 2 1/2" MAINS AT WALLS AND BEAMS PER NFPA 13 (2016) §9.3.4.2.
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 - PER NFPA 13 (2016) §9.3.6.5 - LINE RESTRAINT IS NOT REQUIRED WHEN BRANCH LINE PIPING IS SUPPORTED BY HANGER ROD LESS THAN 6" IN LENGTH, MEASURED BETWEEN THE TOP OF THE PIPE AND THE POINT OF ATTACHMENT TO THE BUILDING STRUCTURE.

SPRINKLER LEGEND	
SYMBOL	DESCRIPTION
	LATERAL SEISMIC BRACE (PERPENDICULAR)
	LONGITUDINAL SEISMIC BRACE (PARALLEL)
	4-WAY SEISMIC BRACE (PARALLEL/PERPENDICULAR)
	LINE RESTRAINT
	PIPE HANGERS
	PENDENT SPRINKLER
	PENDENT SPRINKLER ON DROP NIPPLE
	UPRIGHT SPRINKLER
	SIDEWALL SPRINKLER
	MECHANICAL COUPLING
	SEISMIC SWING JOINT
	HYDRAULIC NODE
	FIRE PIPING
	EXISTING FIRE PIPING



FIRE SPRINKLER PLAN - PORTABLES 7-10
SCALE: 1/4" = 1'-0"



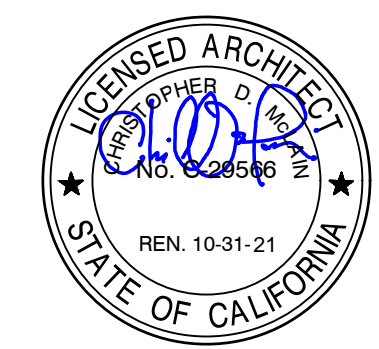
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PORTERVILLE UNIFIED SCHOOL DISTRICT
914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257

REVISIONS

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INGENUITY
McLAIN BARENG MORRELLI
www.mangini.us
(559) 627-0530 Office
(559) 627-1260 Fax
Visalia, California 93291

TITLE
SPRINKLER PLAN
PORTABLES 7-10

F4
PROJECT **1901**

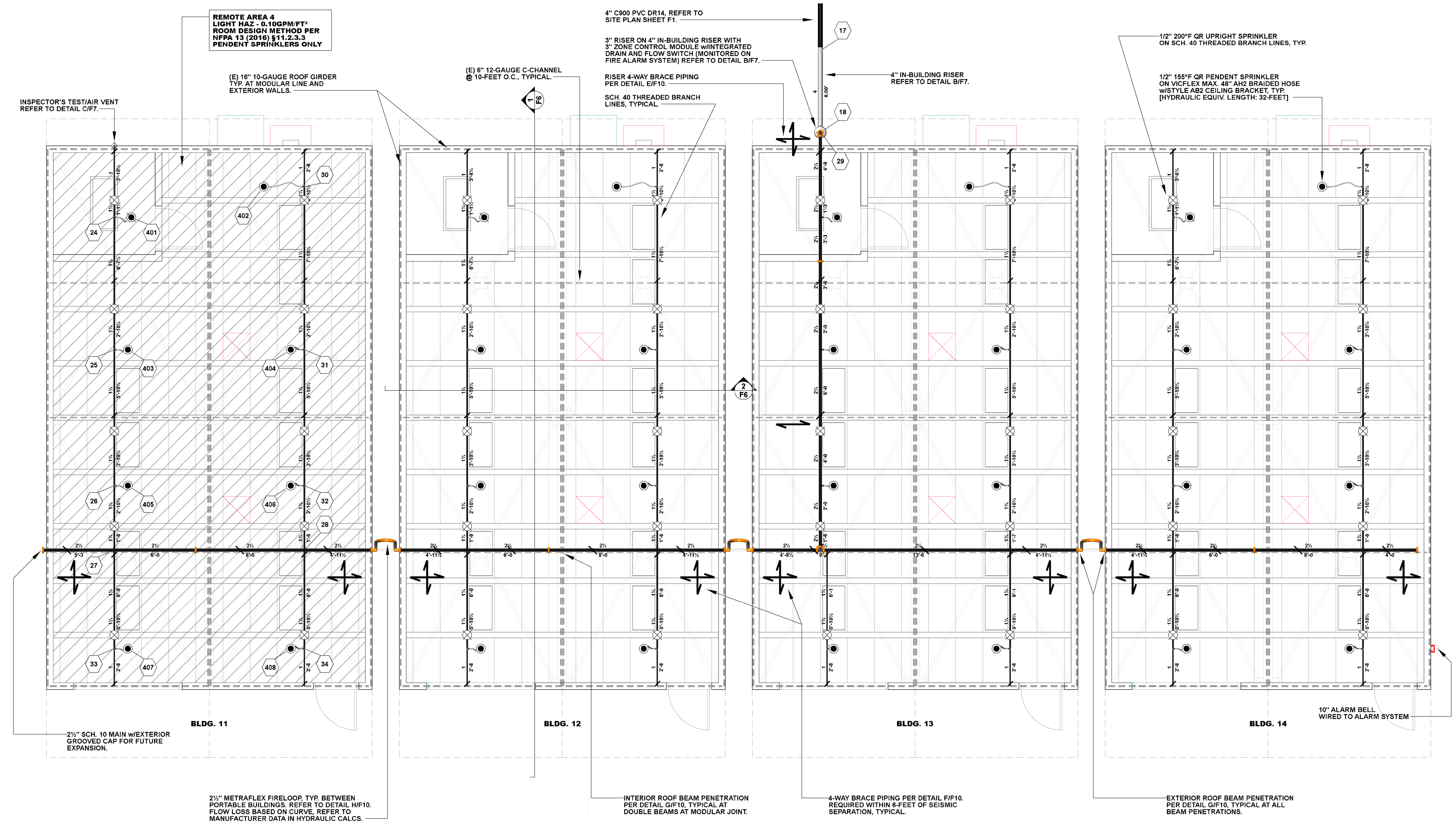


Hydraulic Information	
Remote Area 4	
OCCUPANCY CLASSIFICATION	Light Hazard
DENSITY	0.100gpm/ft ² for 1500.00ft ² (Actual 887.00ft ²)
TOTAL HOSE STREAMS	100.00
TOTAL HEADS FLOWING	8
K-FACTOR	5.6
TOTAL WATER REQUIRED	283.67
TOTAL PRESSURE REQUIRED	42.756
BASE OF RISER (gpm)	163.67
BASE OF RISER (psi)	37.080
SAFETY MARGIN (psi)	+23.478 (35.4%)

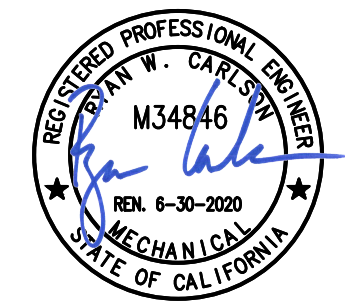
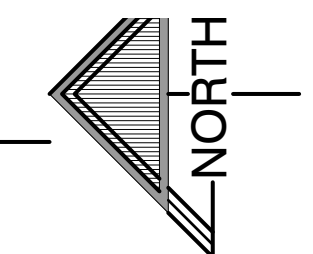
Sprinkler Legend											
Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Type	Size	Response	Finish	Temperature	Note
	Victaulic	V2704	FireLock V27	40	5.6	Upright	1/2"	Quick	Brass	200°F	F5
	Victaulic	V2708	FireLock V27	4	5.6	Pendent	1/2"	Quick	Chrome	155°F	F5
	Victaulic	V3802	FireLock V38	28	5.6	Pendent	1/2"	Quick	Chrome	155°F	F5
				Total =	72						

- PORTABLE CLASSROOM SPRINKLER NOTES:**
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 - SPRINKLER SPACING SHALL NOT EXCEED 7'-6" OFF ANY WALL OR 15'-0" BETWEEN SPRINKLER HEADS.
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SPRINKLER LEGEND	
SYMBOL	DESCRIPTION
	LATERAL SEISMIC BRACE (PERPENDICULAR)
	LONGITUDINAL SEISMIC BRACE (PARALLEL)
	4-WAY SEISMIC BRACE (PARALLEL/PERPENDICULAR)
	LINE RESTRAINT
	PIPE HANGERS
	PENDENT SPRINKLER
	PENDENT SPRINKLER ON DROP NIPPLE
	UPRIGHT SPRINKLER
	SIDEWALL SPRINKLER
	MECHANICAL COUPLING
	SEISMIC SWING JOINT
	HYDRAULIC NODE
	FIRE PIPING
	EXISTING FIRE PIPING



FIRE SPRINKLER PLAN - PORTABLES 11-14
SCALE: 1/4" = 1'-0"



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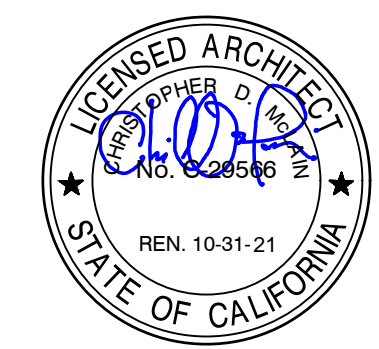
REVISIONS

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INGENUITY
McLAIN BARENG MORRELLI
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(559) 627-1260 Fax
Vicksburg, California 93291

TITLE
SPRINKLER PLAN
PORTABLES 11-14

F5
PROJECT **1901**

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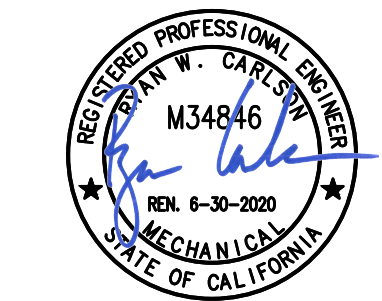


DATE: 7-10-19

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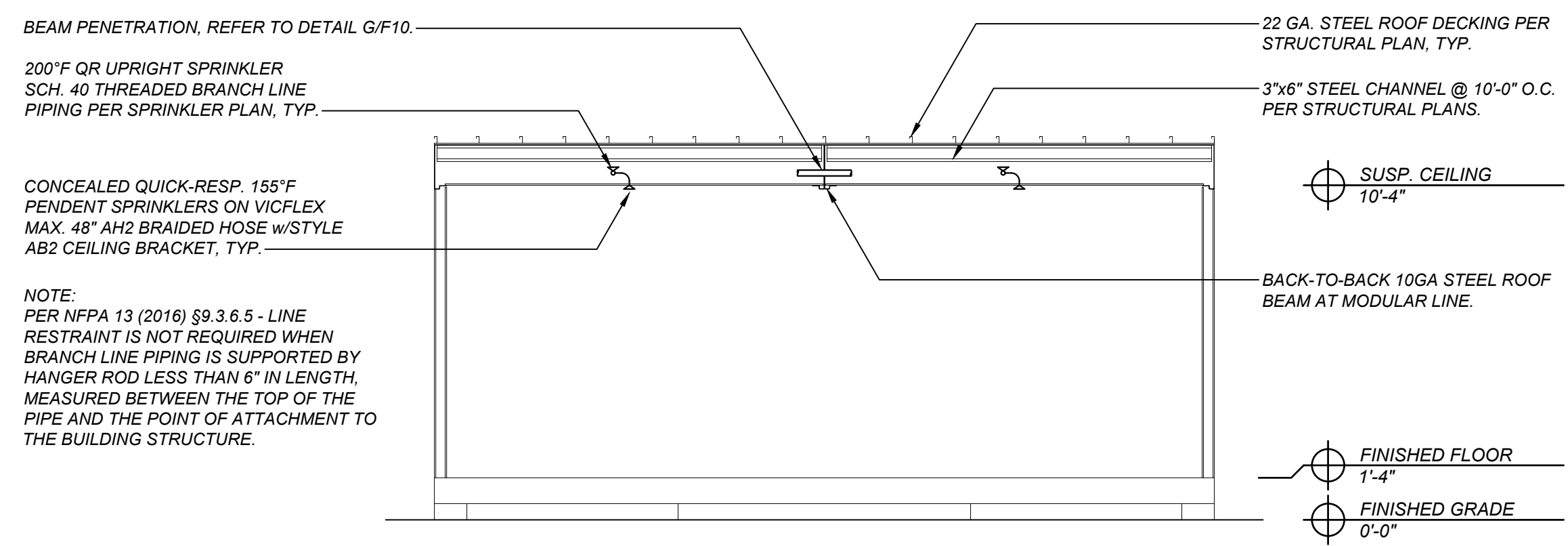
NO.	DATE	DESCRIPTION

MANGINI ARCHITECTURE
INGENUITY
McLAIN BARENG MORRELLI
www.mangini.us
MANGINI ASSOCIATES INC.
4320 West Mineral King Avenue
Visalia, California 93251
(559) 627-0530 Office
(559) 627-1320 Fax

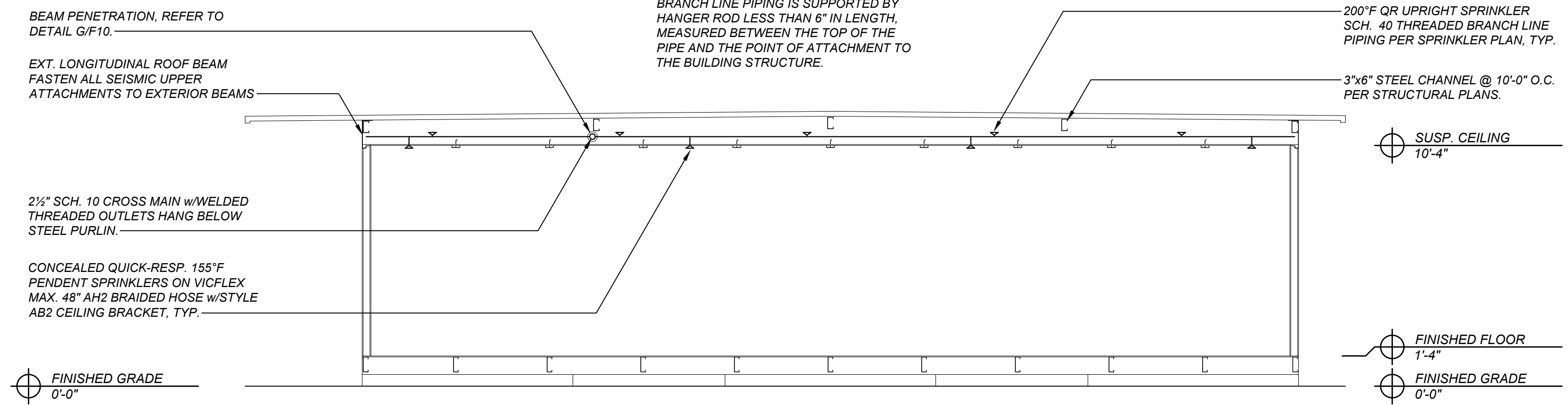


**LAWRENCE
ENGINEERING GROUP**
7084 N. Maple Ave., Suite 101 Fresno, CA 93720
(559) 431-0101 19295 FAX (559) 431-1342

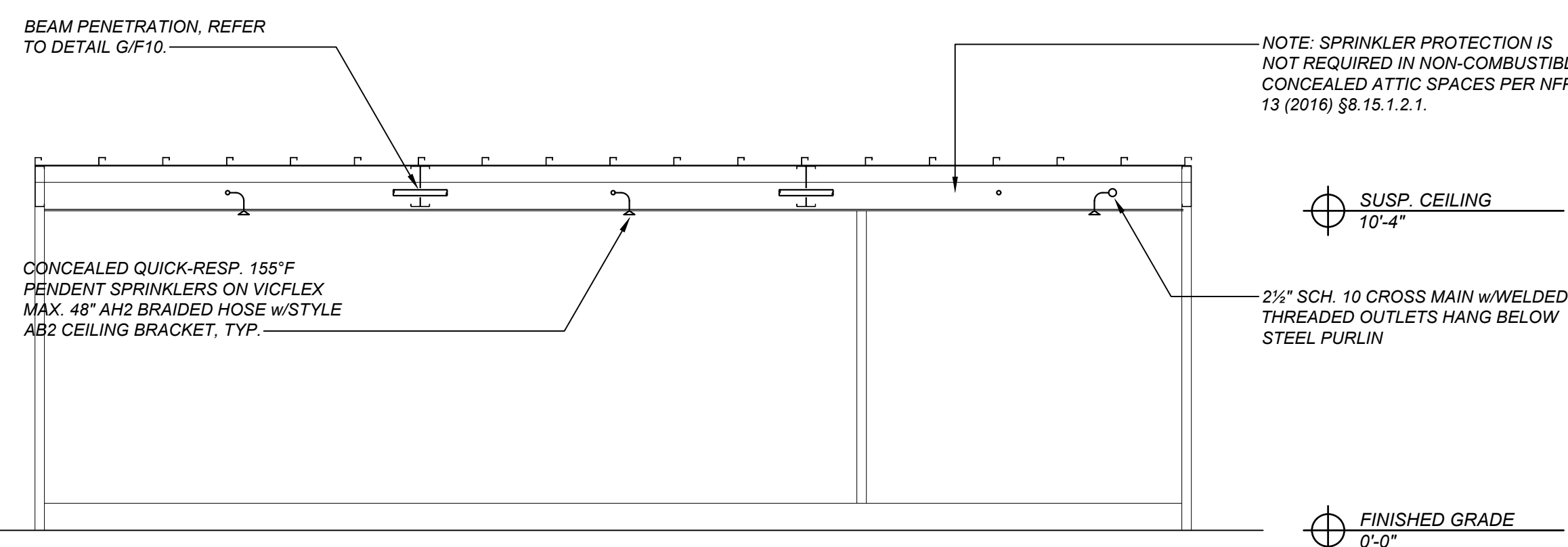
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BUILDING SECTIONS
F6
PROJECT **1901**



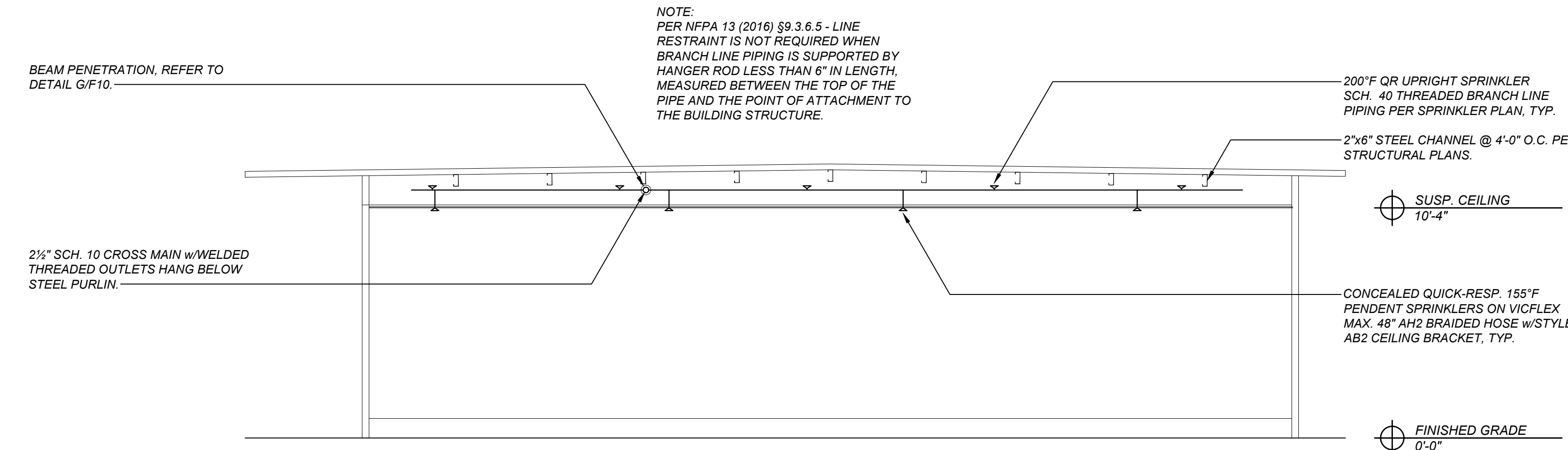
BUILDING SECTION
SCALE: 1/4" = 1'-0"
2
F6



BUILDING SECTION
SCALE: 1/4" = 1'-0"
1
F6

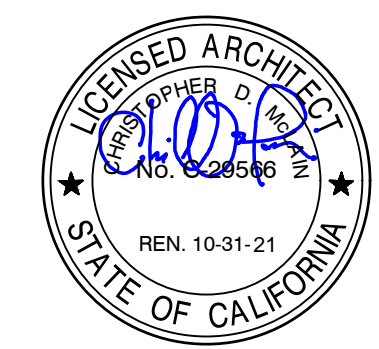


BUILDING SECTION
SCALE: 1/4" = 1'-0"
4
F6



BUILDING SECTION
SCALE: 1/4" = 1'-0"
3
F6

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-117736 INC.
REVIEWED FOR
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DATE: 02/13/2020

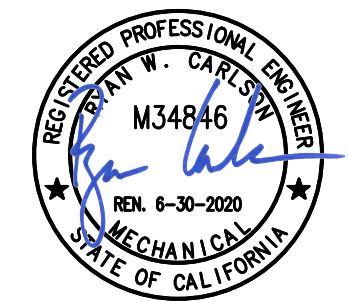


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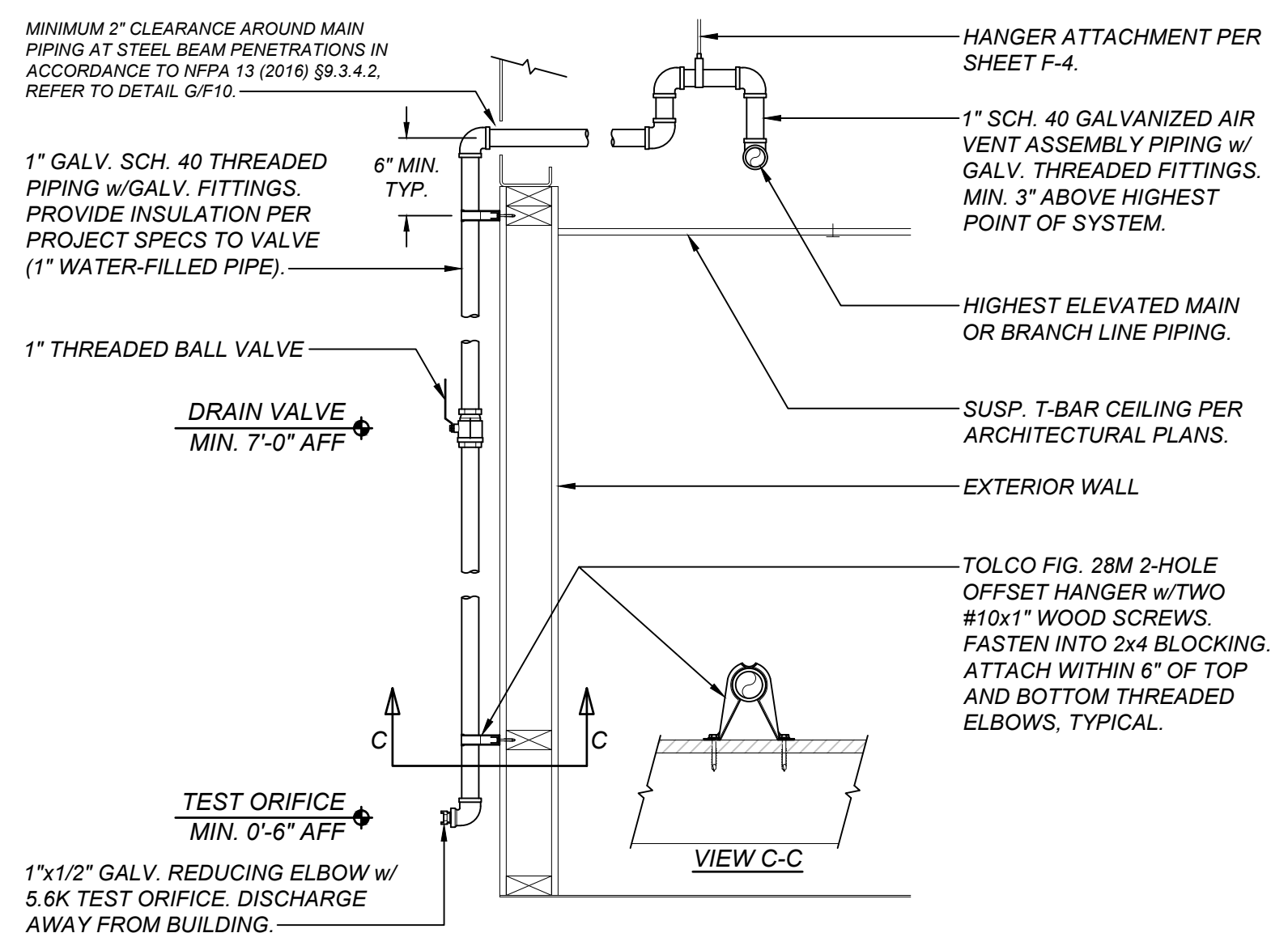
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MANGINI ASSOCIATES INC.
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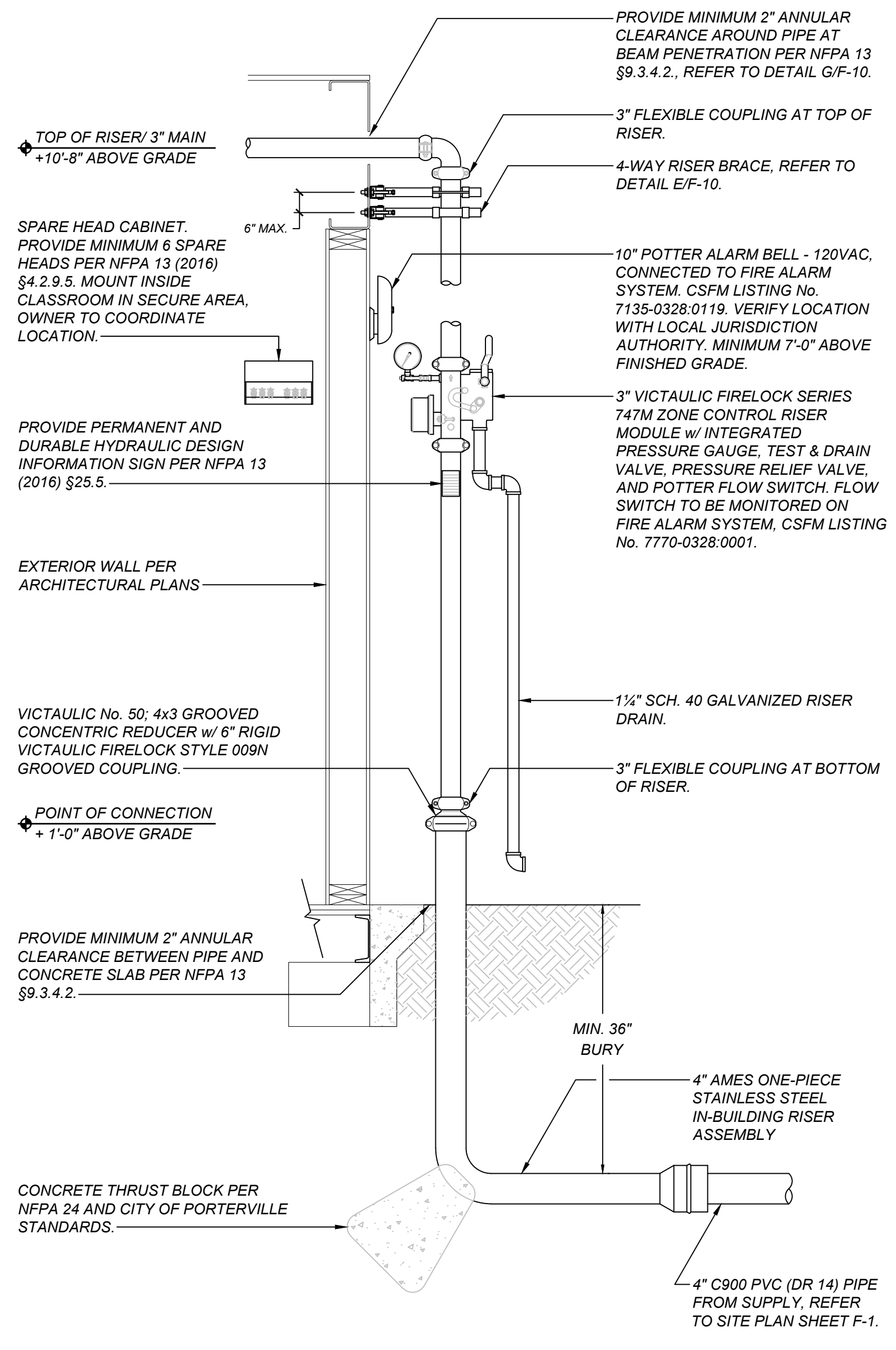
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ENGINEERING GROUP**
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(557) 421-0101 19295 FAX (557) 421-1342

TITLE
RISER DETAILS
F7
PROJECT **1901**



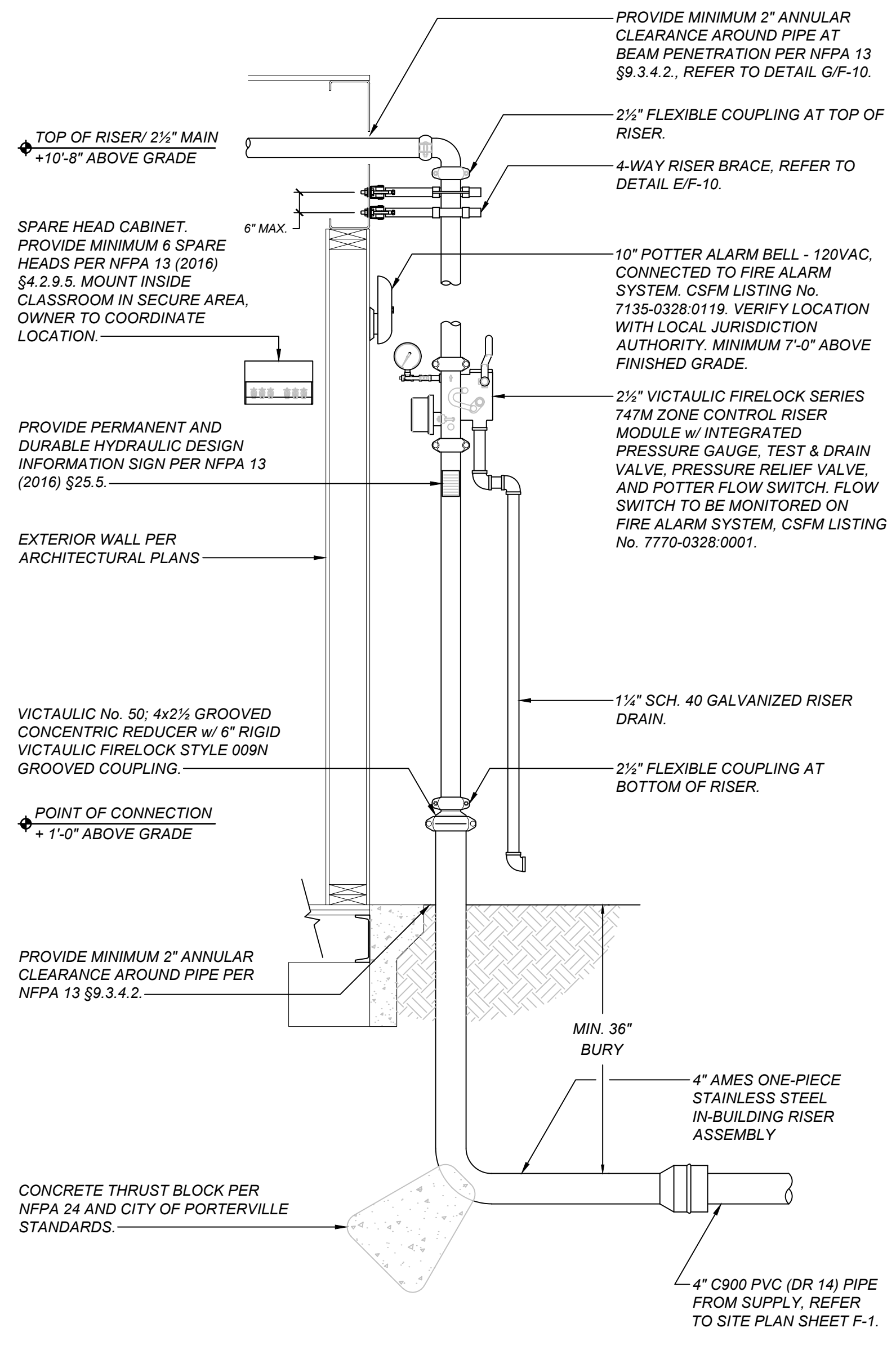
**PORTABLE CLASSROOM BUILDING
EXTERIOR INSPECTOR'S TEST**
SCALE: NONE
FRM010

C
F7



**EXTERIOR 3" FIRE SPRINKLER RISER
ON 4" IN-BUILDING RISER**
SCALE: NONE
FSSXXX

B
F7

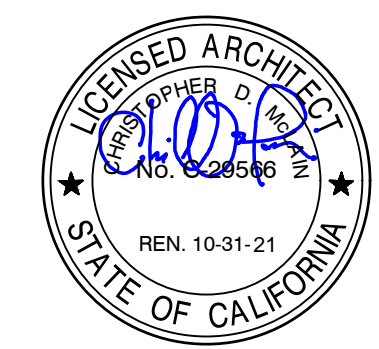


**EXTERIOR 2 1/2" FIRE SPRINKLER RISER
ON 4" IN-BUILDING RISER**
SCALE: NONE
FSSXXX

A
F7

- RISER NOTES:**
- RISER DETAIL IS A SCHEMATIC REPRESENTATION OF THE RISER. ORIENTATION OF FITTINGS, VALVES, GAUGES, AND OTHER DEVICES HAVE BEEN MODIFIED FOR ILLUSTRATION PURPOSES AND MAY VARY IN ACTUAL INSTALLATION.
 - PER NFPA 13 (2016) §9.3.2.3.1 - A FLEXIBLE COUPLING SHALL BE INSTALLED WITHIN 24" OF THE TOP AND BOTTOM OF ALL RISERS. RISERS LESS THAN 3 FT IN LENGTH MAY OMIT FLEX COUPLINGS. ONE FLEX COUPLING IS ADEQUATE FOR RISERS 3' TO 7' IN LENGTH.
 - PER NFPA 13 (2016) §9.3.6.3.3 - WHEN A FOUR-WAY BRACE AT THE TOP OF A RISER IS ATTACHED ON THE HORIZONTAL PIPING, IT SHALL BE WITHIN 24" OF THE CENTERLINE OF THE RISER AND THE LOADS FOR THAT BRACE SHALL INCLUDE BOTH THE VERTICAL AND HORIZONTAL PIPE.
 - PER NFPA 13 (2016) §25.5 - THE INSTALLING CONTRACTOR SHALL IDENTIFY A HYDRAULICALLY DESIGNED SPRINKLER SYSTEM WITH A PERMANENTLY MARKED WEATHERPROOF METAL OR RIGID PLASTIC SIGN SECURED WITH CORROSION RESISTANT WIRE, CHAIN, OR OTHER APPROVED MEANS.
 - PER NFPA 13 (2016) §25.6.1 - THE INSTALLING CONTRACTOR SHALL PROVIDE A GENERAL INFORMATION SIGN USED TO DETERMINE SYSTEM DESIGN BASIS AND INFORMATION RELEVANT TO THE INSPECTION, TESTING, AND MAINTENANCE REQUIREMENTS REQUIRED BY NFPA 25.
 - LOCATION OF 1/2" SYSTEM DRAIN TO BE COORDINATED WITH GENERAL CONTRACTOR. DRAIN PIPE AND FITTINGS SHALL BE GALV.
 - FIRE RISER ROOM SHALL COMPLY WITH CBC (2016) 901.3 PER CFC (2016) SECTION 509.1 FIRE EQUIPMENT ROOMS SHALL BE IDENTIFIED IN AN APPROVED MANNER. APPROVED SIGNS SHALL BE DURABLE, PERMANENT, AND VISIBLE.

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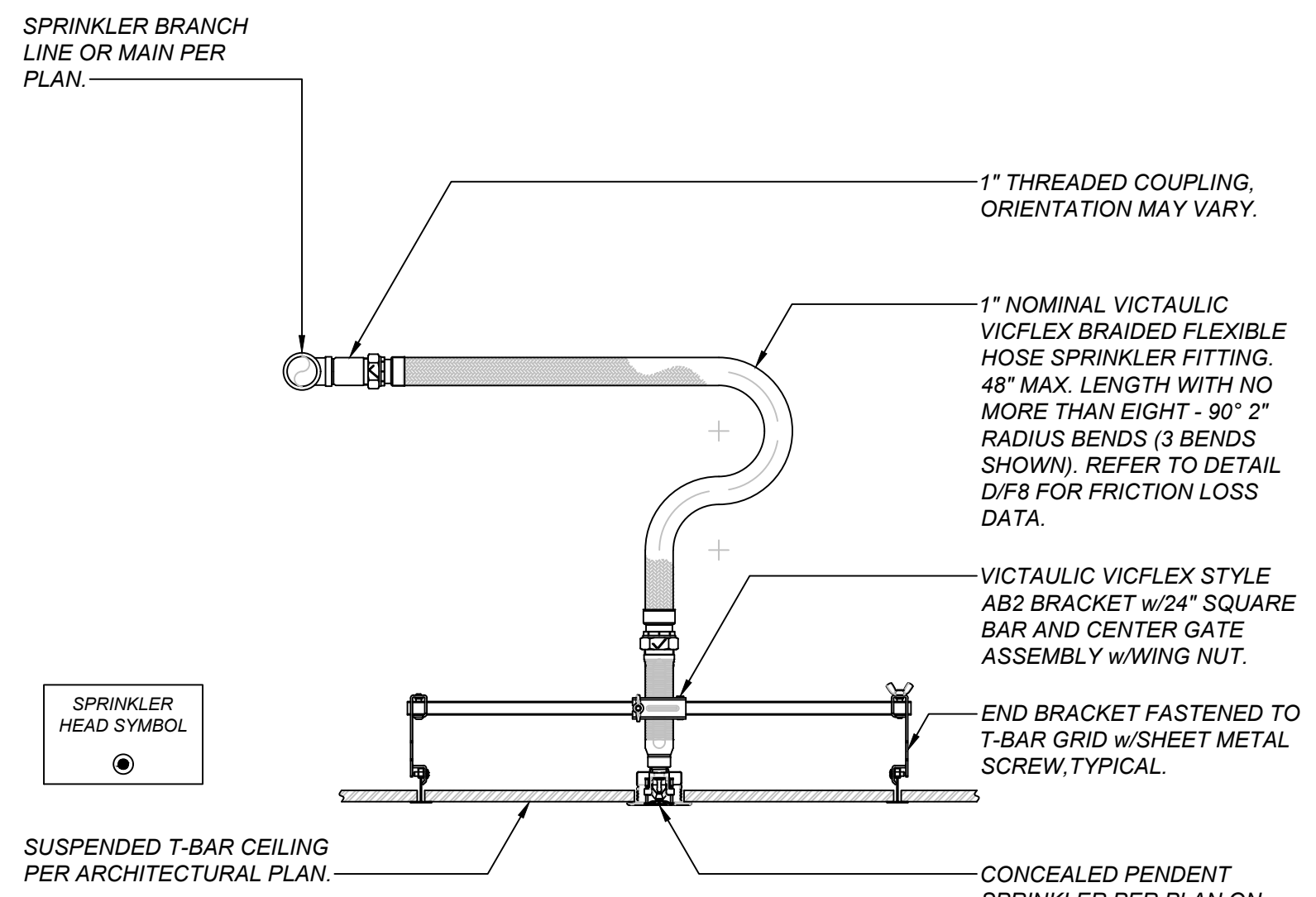
DATE: 7-10-19

**ALTERNATIVE
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PORTERVILLE UNIFIED SCHOOL DISTRICT
914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257

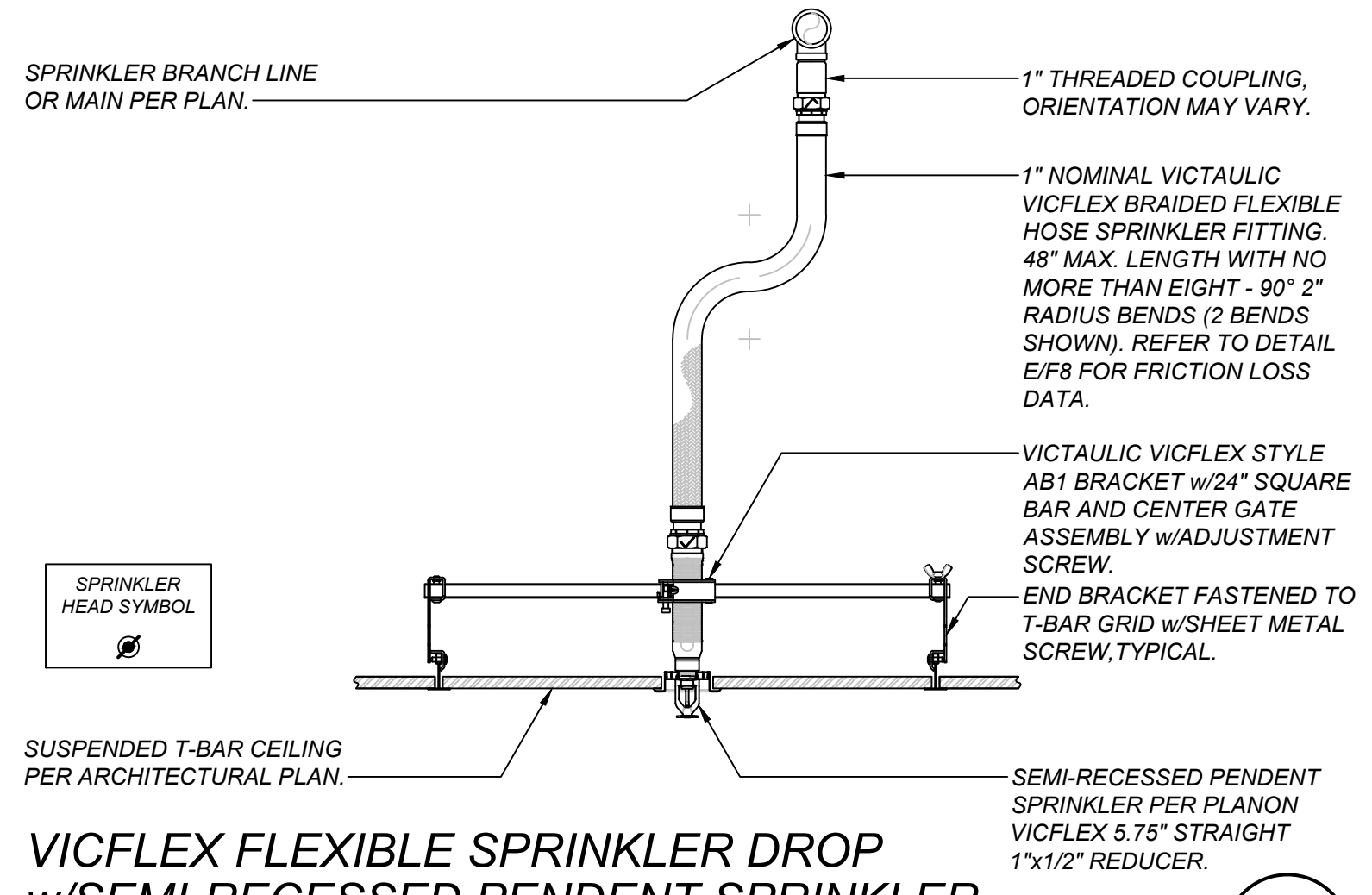
REVISIONS

MANGINI ARCHITECTURE
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(559) 627-0530 Office
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Visalia, California 93251
(559) 627-1526 Fax

TITLE
INSTALLATION
DETAILS
F8
PROJECT **1901**



**VICFLEX FLEXIBLE SPRINKLER DROP
w/ CONCEALED PENDENT SPRINKLER**
SCALE: NONE FSSXXX **C**
F8



**VICFLEX FLEXIBLE SPRINKLER DROP
w/ SEMI-RECESSED PENDENT SPRINKLER**
SCALE: NONE FSSXXX **D**
F8

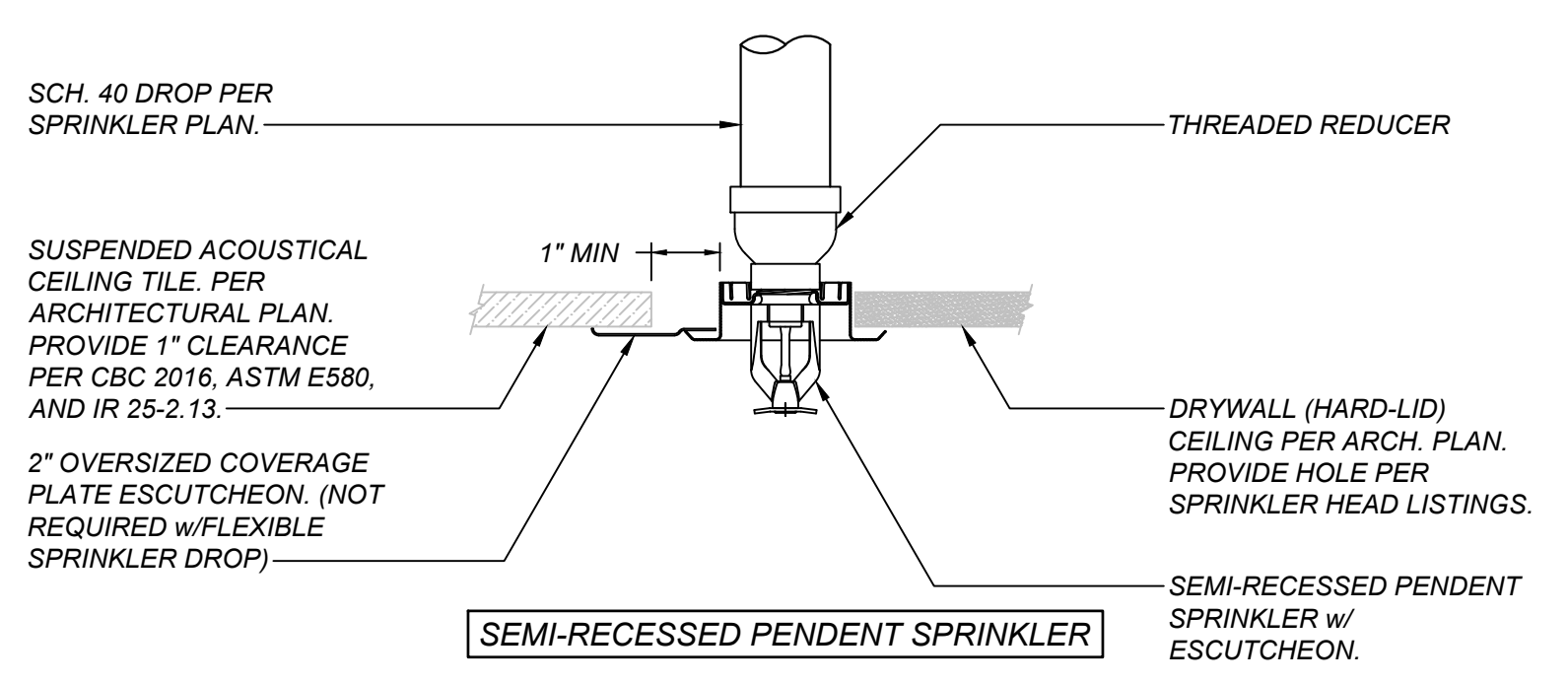
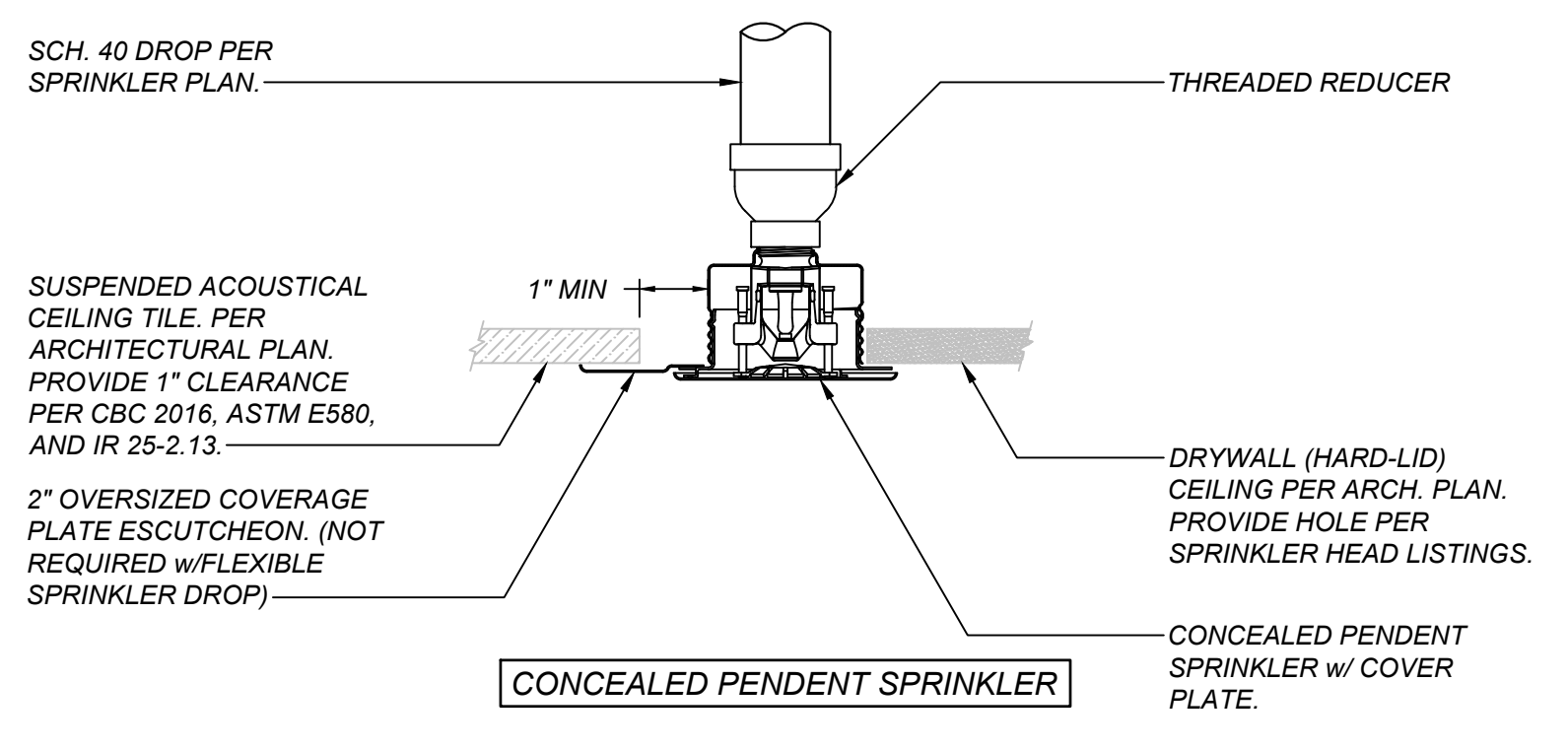
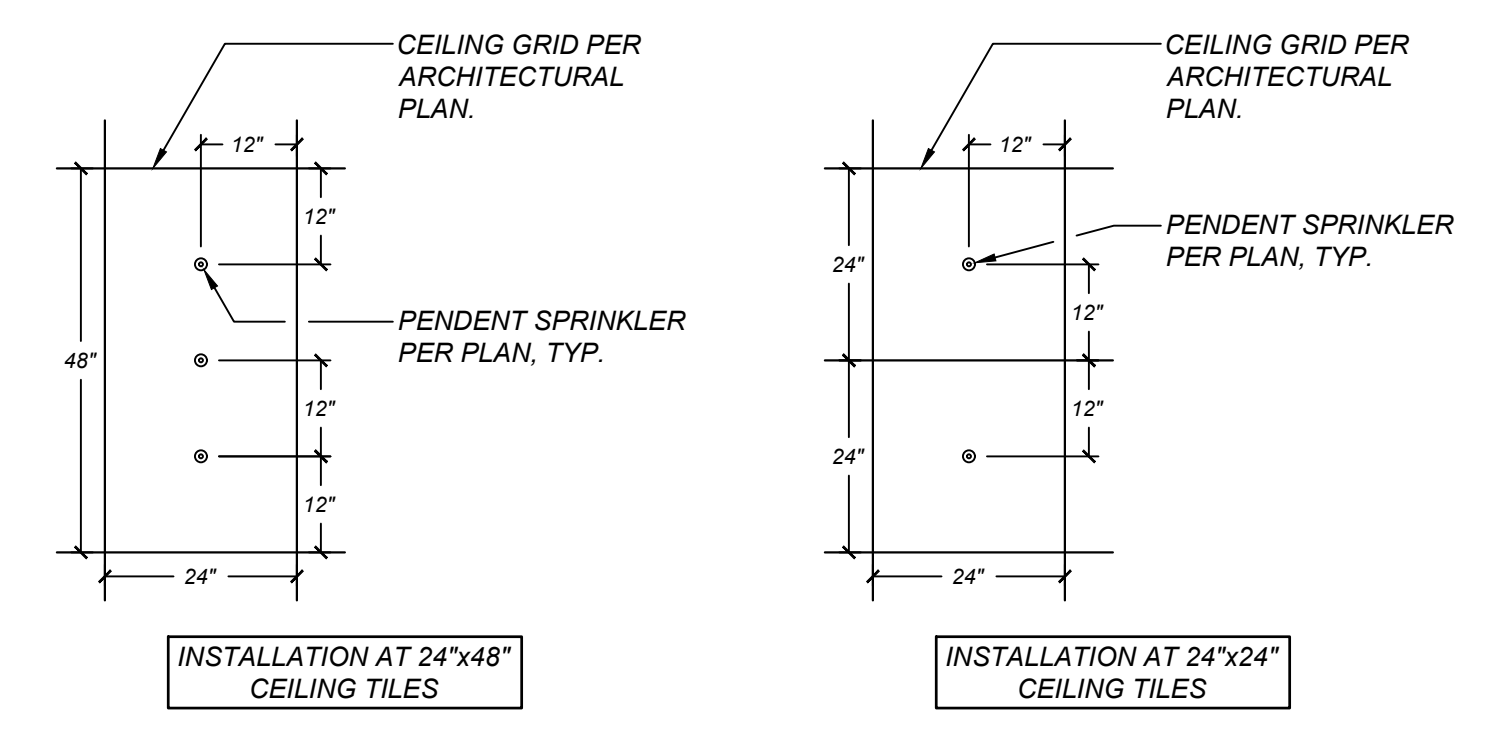
VICTAULIC VICFLEX - FRICTION LOSS DATA (UL)

LENGTH IN INCHES	OUTLET SIZE	1-90° BEND	2-90° BEND	3-90° BEND	4-90° BEND	5-90° BEND	6-90° BEND	7-90° BEND	8-90° BEND
31"	1/2"	8.5'	11.0'	13.0'	16.0'	N/A	N/A	N/A	N/A
	3/4"	10.0'	12.5'	14.0'	17.0'	N/A	N/A	N/A	N/A
36"	1/2"	13.5'	16.0'	18.0'	19.0'	21.0'	N/A	N/A	N/A
	3/4"	14.0'	17.0'	19.5'	20.0'	23.0'	N/A	N/A	N/A
48"	1/2"	15.5'	17.0'	19.5'	20.0'	21.0'	22.0'	28.0'	32.0'
	3/4"	17.0'	19.0'	21.5'	24.5'	26.0'	27.0'	30.0'	37.0'
60"	1/2"	21.5'	24.0'	27.0'	28.5'	30.0'	31.0'	37.0'	42.0'
	3/4"	23.0'	24.0'	28.0'	29.5'	30.5'	31.0'	38.0'	42.0'
72"	1/2"	30.0'	32.0'	36.5'	37.5'	40.5'	41.0'	42.0'	46.0'
	3/4"	32.0'	32.5'	35.0'	35.5'	40.0'	40.5'	41.0'	46.0'

- INSTALLATION NOTES:**
- VICTAULIC VICFLEX FLEXIBLE SPRINKLER HOSE FITTINGS SHALL BE INSTALLED AT CEILING CLOUD CEILINGS ONLY. SPRINKLER HEADS AT GYPSUM BOARD (HARDLID) CEILINGS WILL BE SUPPLIED WITH 1" SCH. 40 DROPS.
 - ALL VICTAULIC VICFLEX FLEXIBLE SPRINKLER HOSE FITTINGS AND ANCHORING COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER GUIDELINES.
 - PER NFPA 13 (2016) §9.2.1.3.3.3, THE MAXIMUM UNSUPPORTED LENGTH FOR FLEXIBLE HOSE SPRINKLER FITTINGS SHALL NOT EXCEED 6-FEET.
 - PER NFPA 13 (2016) §9.2.1.3.3.4, WHERE FLEXIBLE SPRINKLER HOSE FITTINGS ARE USED TO CONNECT SPRINKLERS TO BRANCH LINES IN SUSPENDED CEILINGS, A LABEL LIMITING RELOCATION OF THE SPRINKLER SHALL BE PROVIDED ON THE ANCHORING COMPONENT.

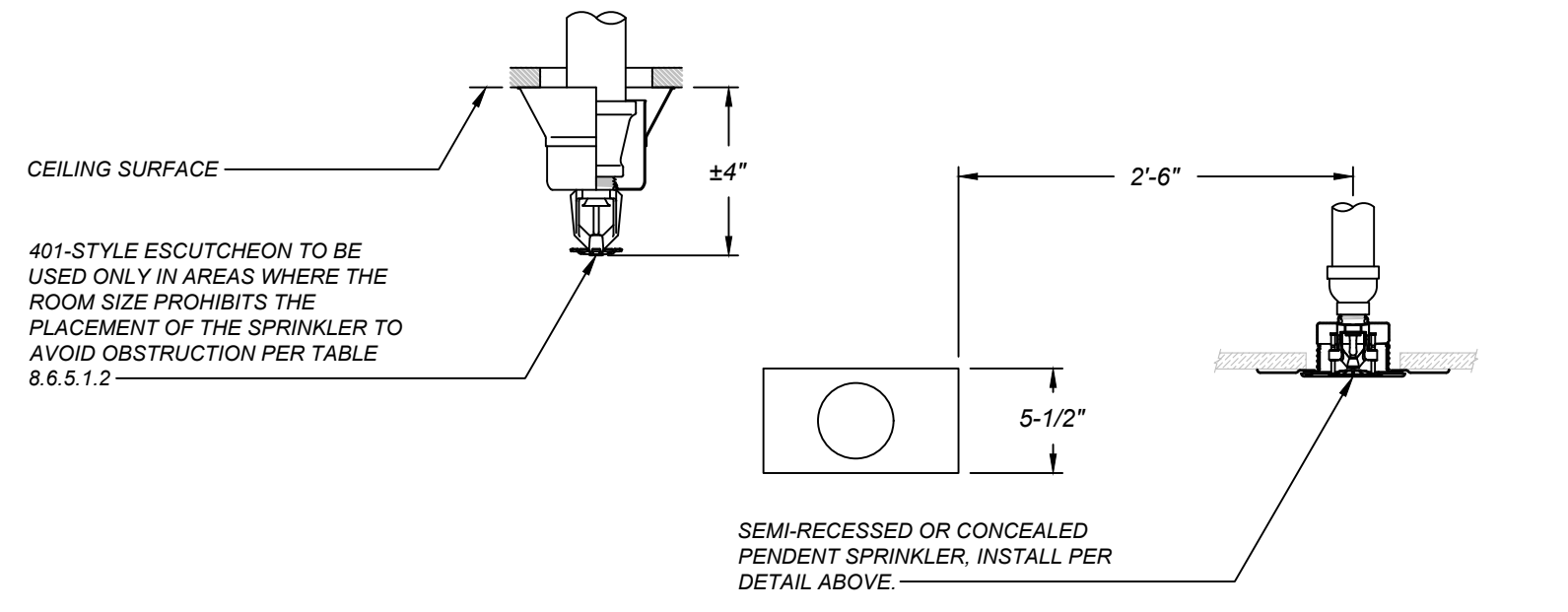
**VICFLEX FLEXIBLE SPRINKLER DROP
FRICTION LOSS DATA AND INSTALLATION NOTES**
SCALE: NONE FSSXXX **E**
F8

- INSTALLATION NOTES:**
- PENDENT SPRINKLER HEADS INSTALLED WITHIN SUSPENDED CEILING TILES SHALL BE POSITIONED "CENTER OF TILE" AS INDICATED PER PROJECT SPECIFICATIONS. HOWEVER, SPRINKLER SPACING SHALL NOT EXCEED THE MAXIMUM SPRINKLER SPACING PER NFPA 13 (2016) §8.6.3.1, §8.6.3.2, §8.6.3.2.4.1, §8.8.3.1, §8.8.3.2 AND FIRE SPRINKLER MANUFACTURER LISTINGS.
 - PENDENT SPRINKLER HEADS INSTALLED IN DRY-WALL CEILINGS SHALL BE POSITIONED PER PLAN, ALIGNED WITH LIGHTING, AUDIO, AND OTHER CEILING FEATURES. HOWEVER, SPRINKLER SPACING SHALL NOT EXCEED MAXIMUM NFPA 13 REQUIREMENTS AND FIRE SPRINKLER MANUFACTURER LISTINGS.



SPRINKLER HEAD INSTALLATION DETAIL
SCALE: NONE FSSXXX **A**
F8

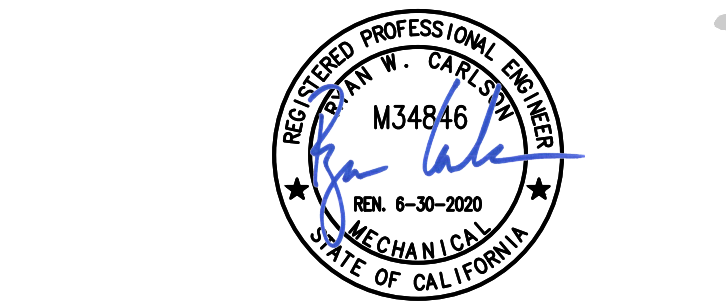
THIS DETAIL IS TO BE USED FOR AVOIDING OBSTRUCTIONS PRESENTED BY SURFACE MOUNTED LIGHTING IN GYPSUM BOARD CEILINGS. SPRINKLER SPACING TO BE IN ACCORDANCE WITH NFPA 13 (2016) FOR PARTICULAR HAZARD, AND TYPE OF SPRINKLER WHERE OBSTRUCTION OCCURS. DETAIL AS SHOWN IS FOR STANDARD SPRAY PENDENT SPRINKLER, WITH PRESSURES FROM 15 PSI TO 100 PSI ONLY. IF EXTENDED COVERAGE OR SPECIAL LISTED SPRINKLERS ARE USED, REFER TO APPROPRIATE NFPA 13 (2016) TABLE FOR THE SPECIFIC REQUIREMENTS FOR EACH SPECIFIC TYPE OF SPRINKLER.



NFPA 13 (2016) TABLE 8.6.5.1.2 POSITIONING OF SPRINKLERS TO AVOID OBSTRUCTIONS TO DISCHARGE

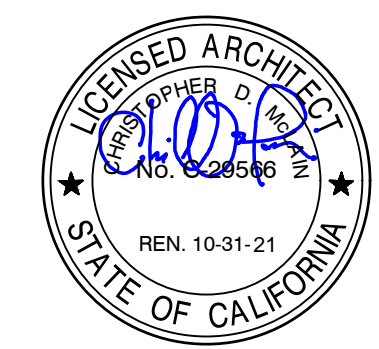
DISTANCE FROM SPRINKLERS TO SIDE OF OBSTRUCTION	MAX. ALLOWABLE DISTANCE OF DEFLECTOR ABOVE BOTTOM OF OBSTRUCTION
2' TO LESS THAN 2'-6"	5'-1/2"

SPRINKLER HEAD OBSTRUCTION DETAIL
SCALE: NONE FSSXXX **B**
F8



**LAWRENCE
ENGINEERING GROUP**
7084 N. Maple Ave., Suite 101
(559) 421-0101 19295 Fresno, CA 93720
FAX (559) 421-1342

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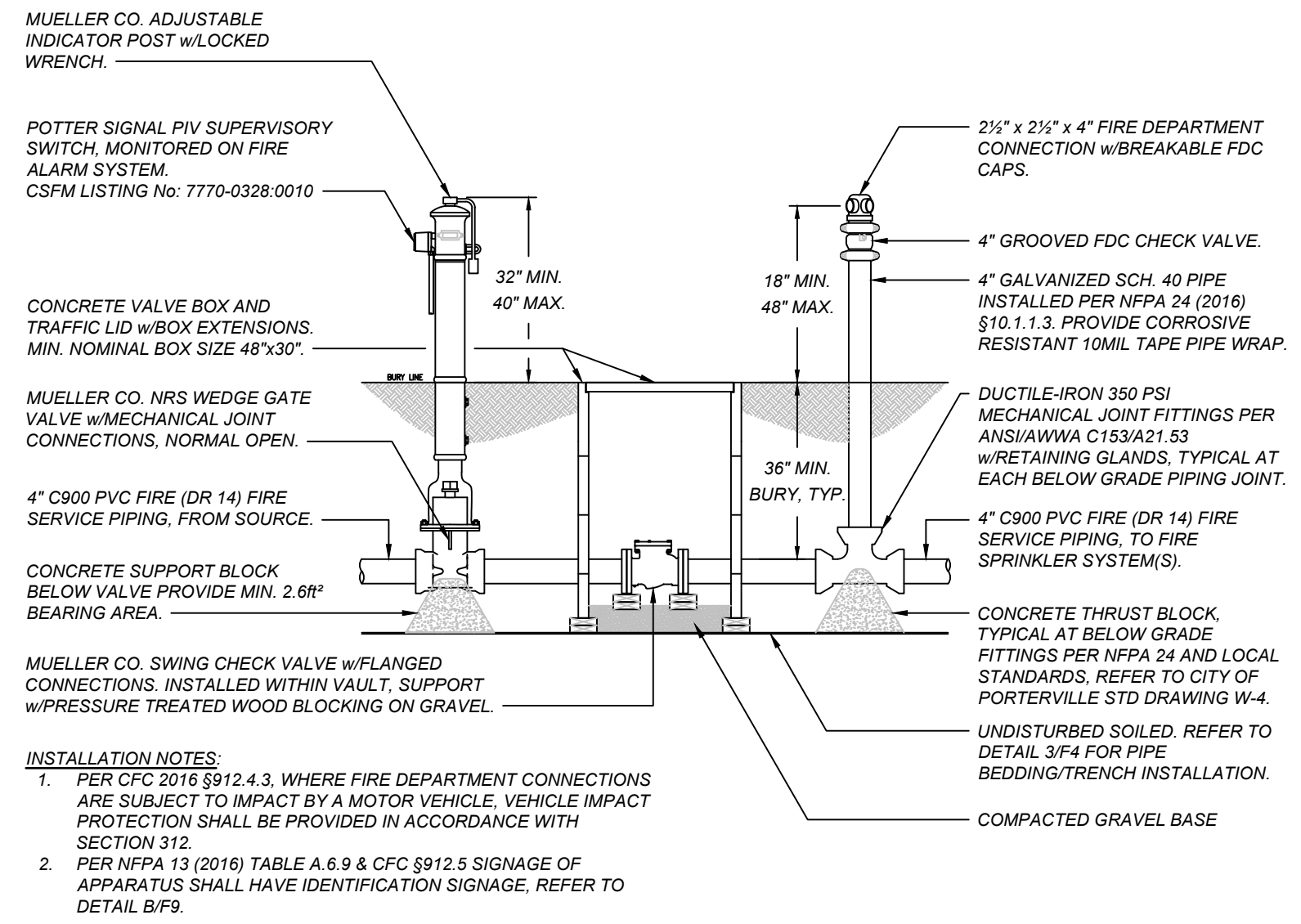
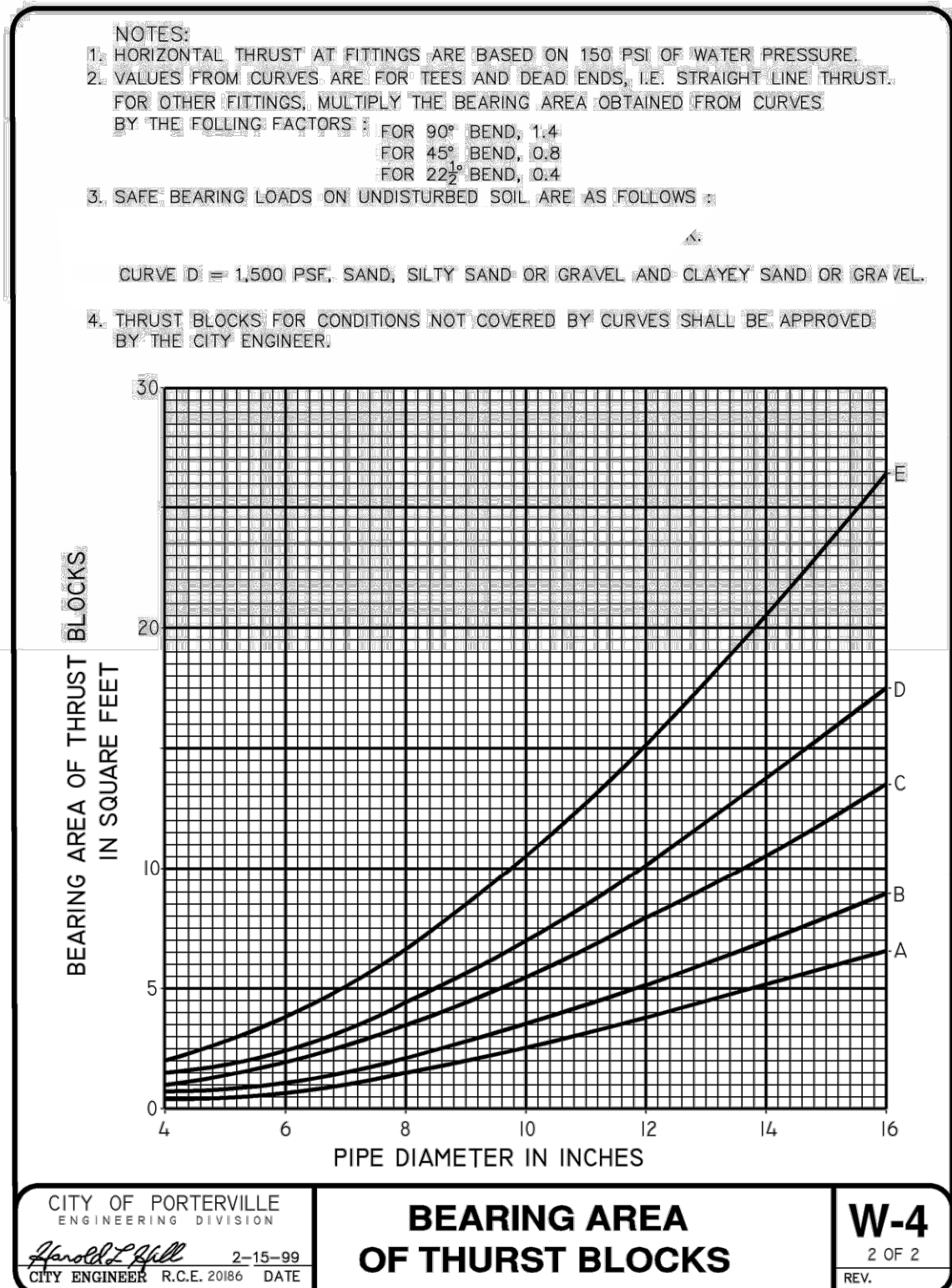
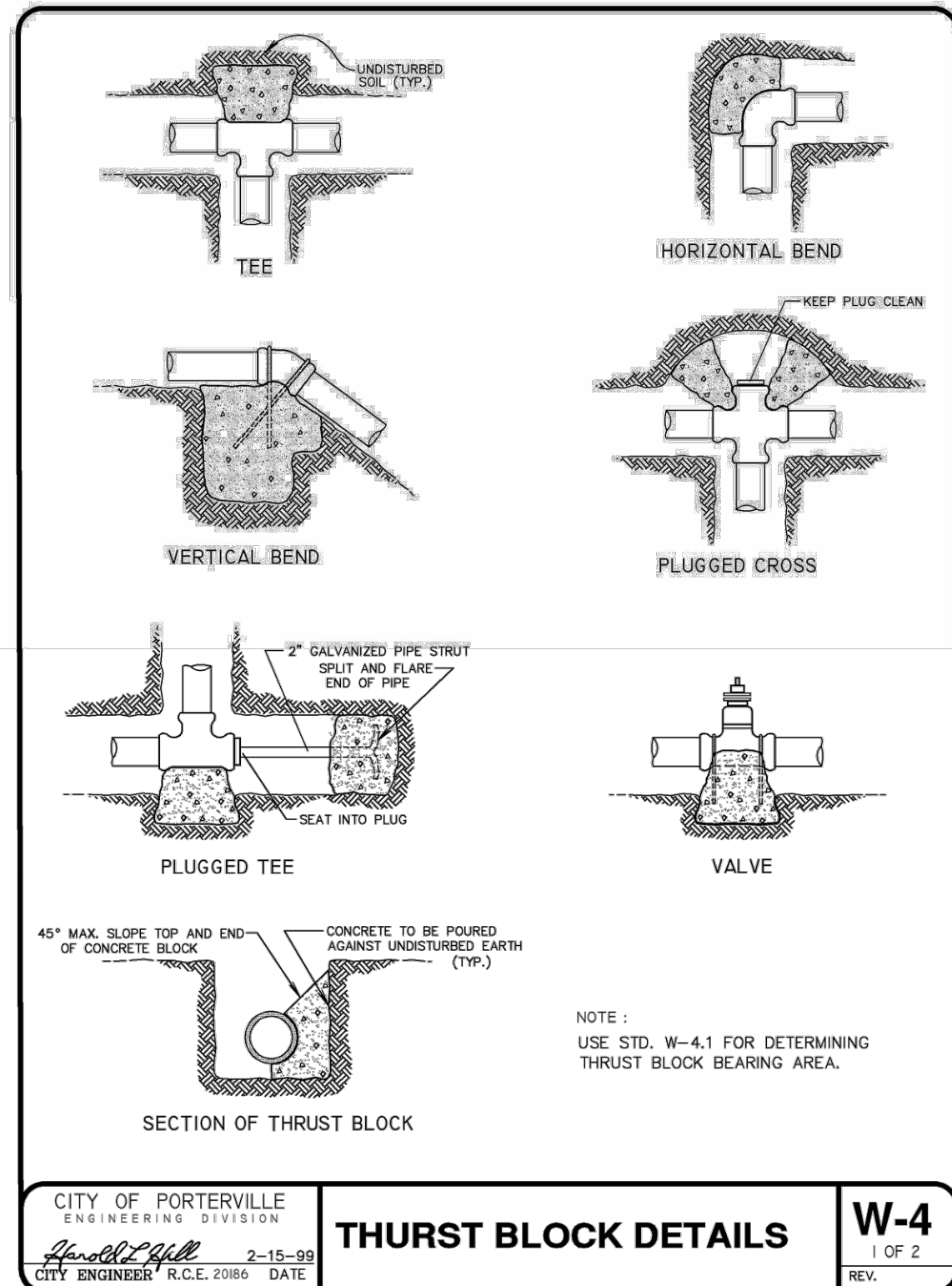
DATE: 7-10-19

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(559) 627-1526 Fax

TITLE
SITE DETAILS
F9
PROJECT **1901**

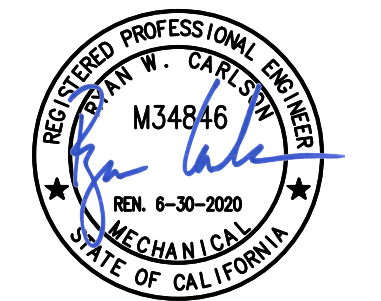
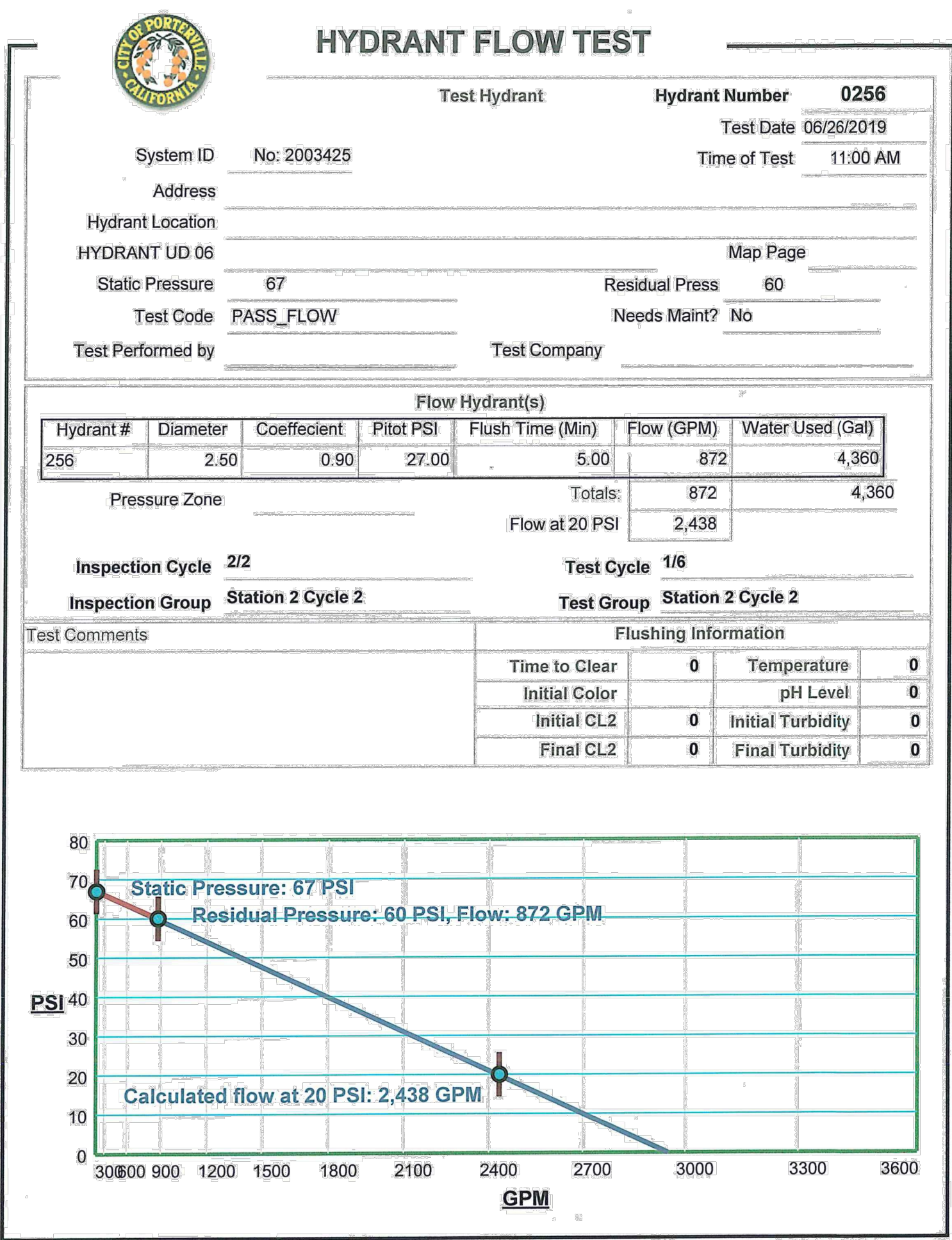
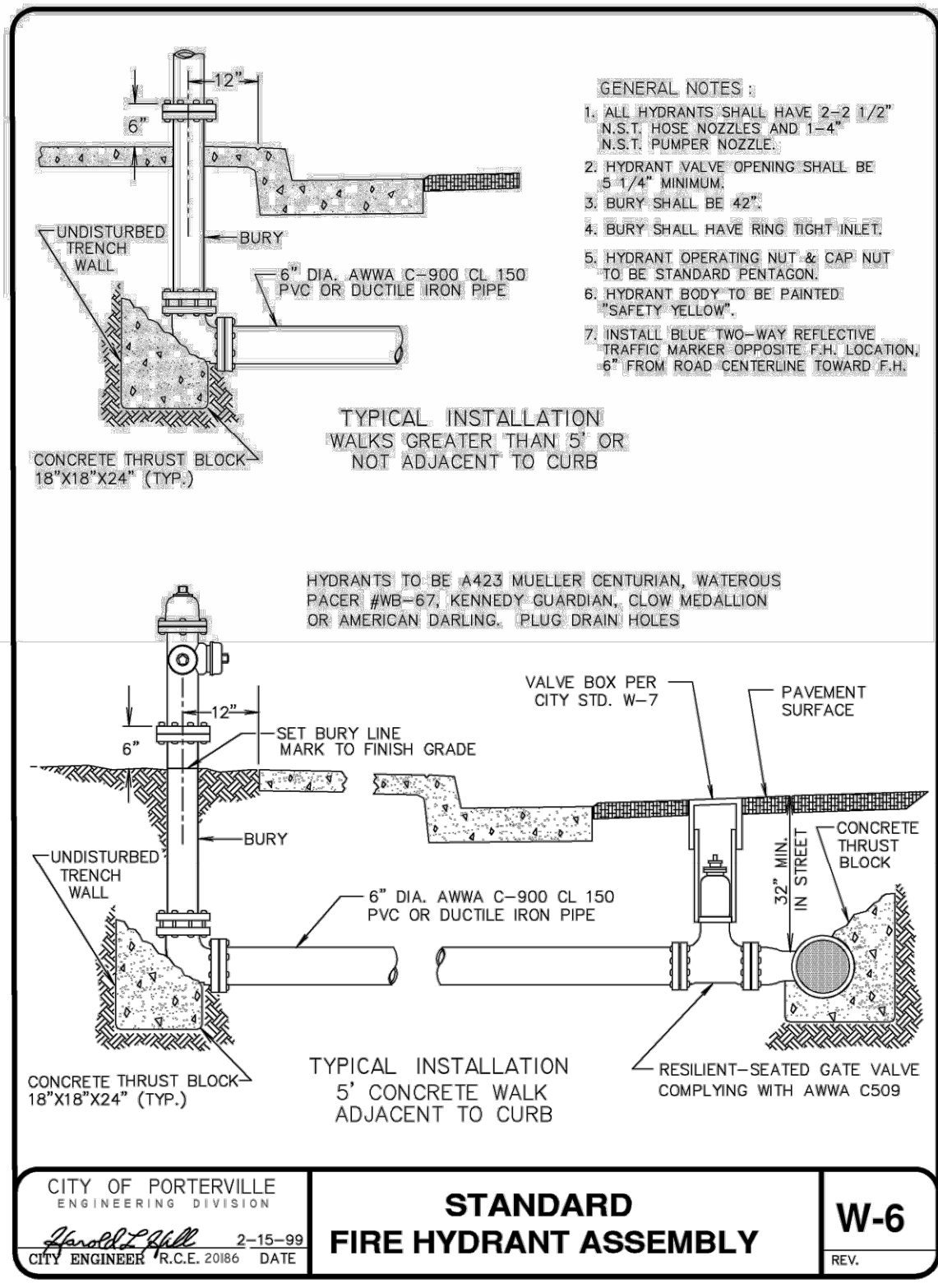
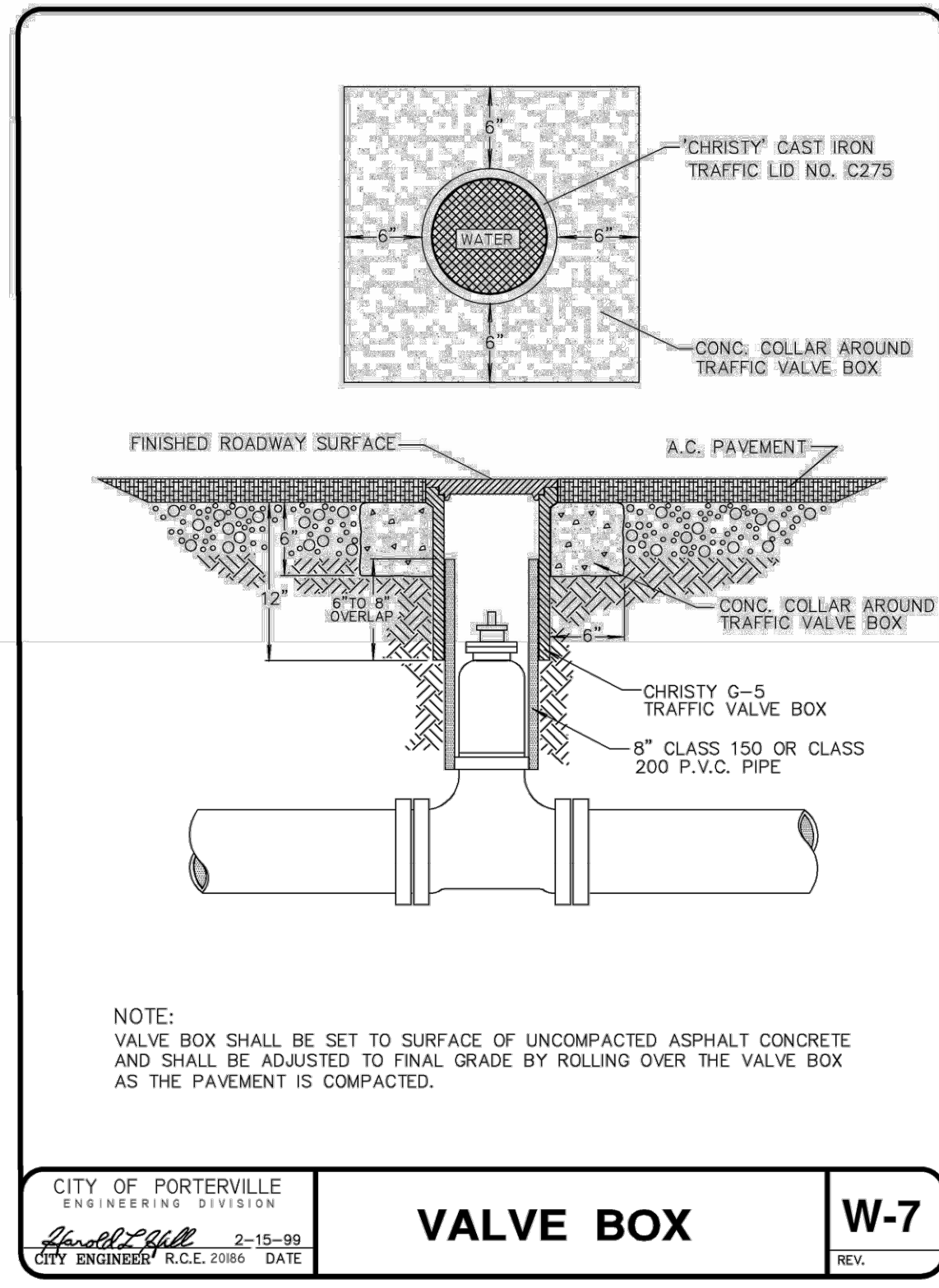
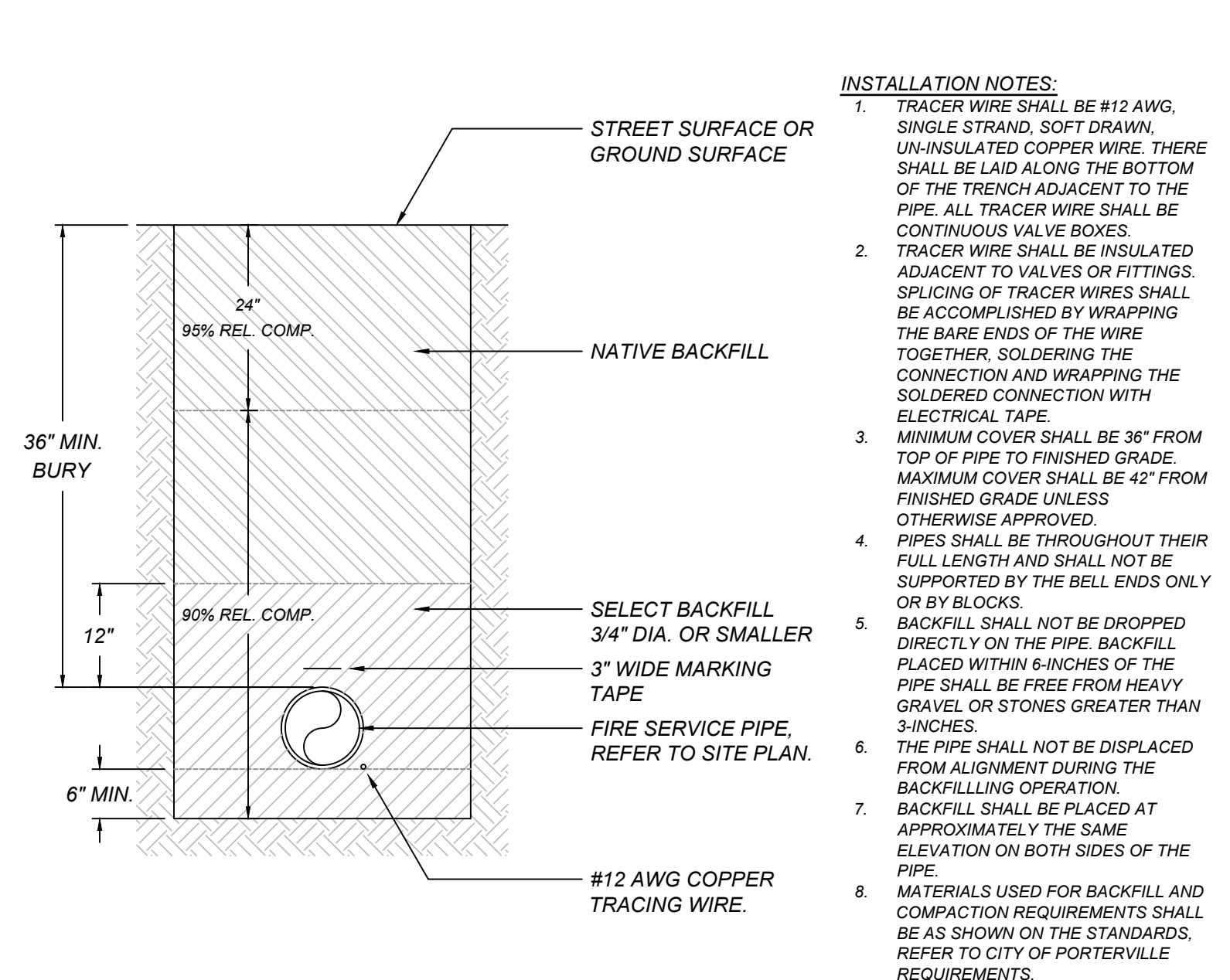


SCALE: NONE
FSS101



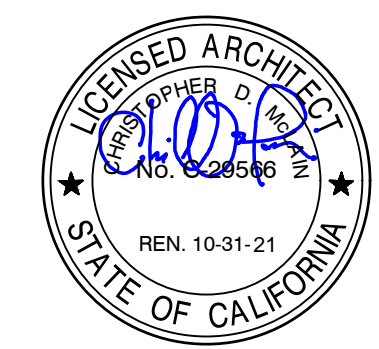
- INSTALLATION NOTES:**
- PER CFC 2016 §912.4.3, WHERE FIRE DEPARTMENT CONNECTIONS ARE SUBJECT TO IMPACT BY A MOTOR VEHICLE, VEHICLE IMPACT PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 312.
 - PER NFPA 13 (2016) TABLE A.6.9 & CFC §912.5 SIGNAGE OF APPARATUS SHALL HAVE IDENTIFICATION SIGNAGE, REFER TO DETAIL B.F.9.

SITE APPARATUS SIGNAGE B
F9



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NO.	DATE	REVISIONS

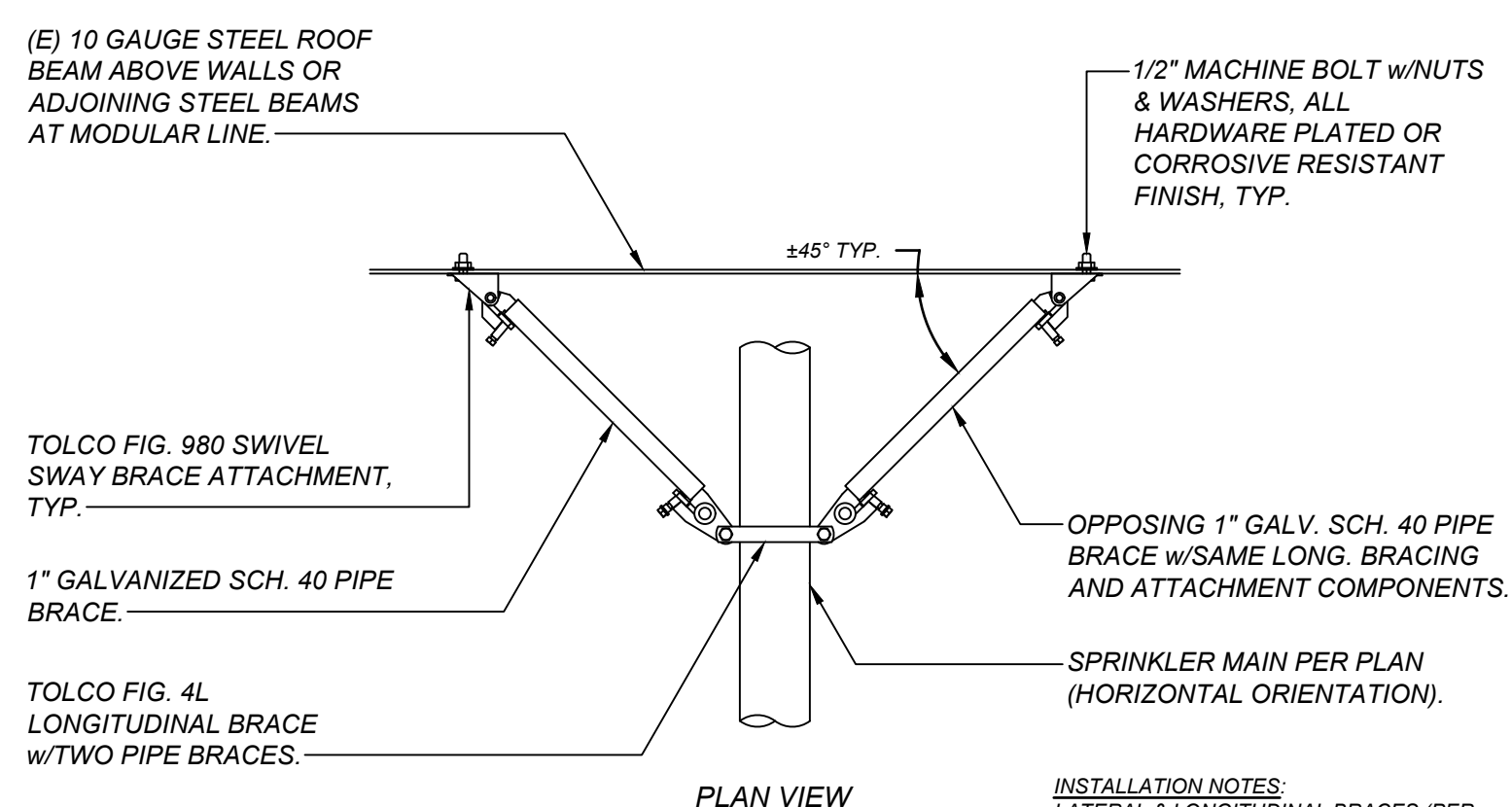
MANGINI ARCHITECTURE
INGENUITY
McLAIN BARENG MORRELLI
www.mangini.us
MANGINI ASSOCIATES INC.
4320 West Mineral King Avenue
Visalia, California 93221
(559) 627-1326 Fax

TITLE
STRUCTURAL
DETAILS

F10
PROJECT **1901**

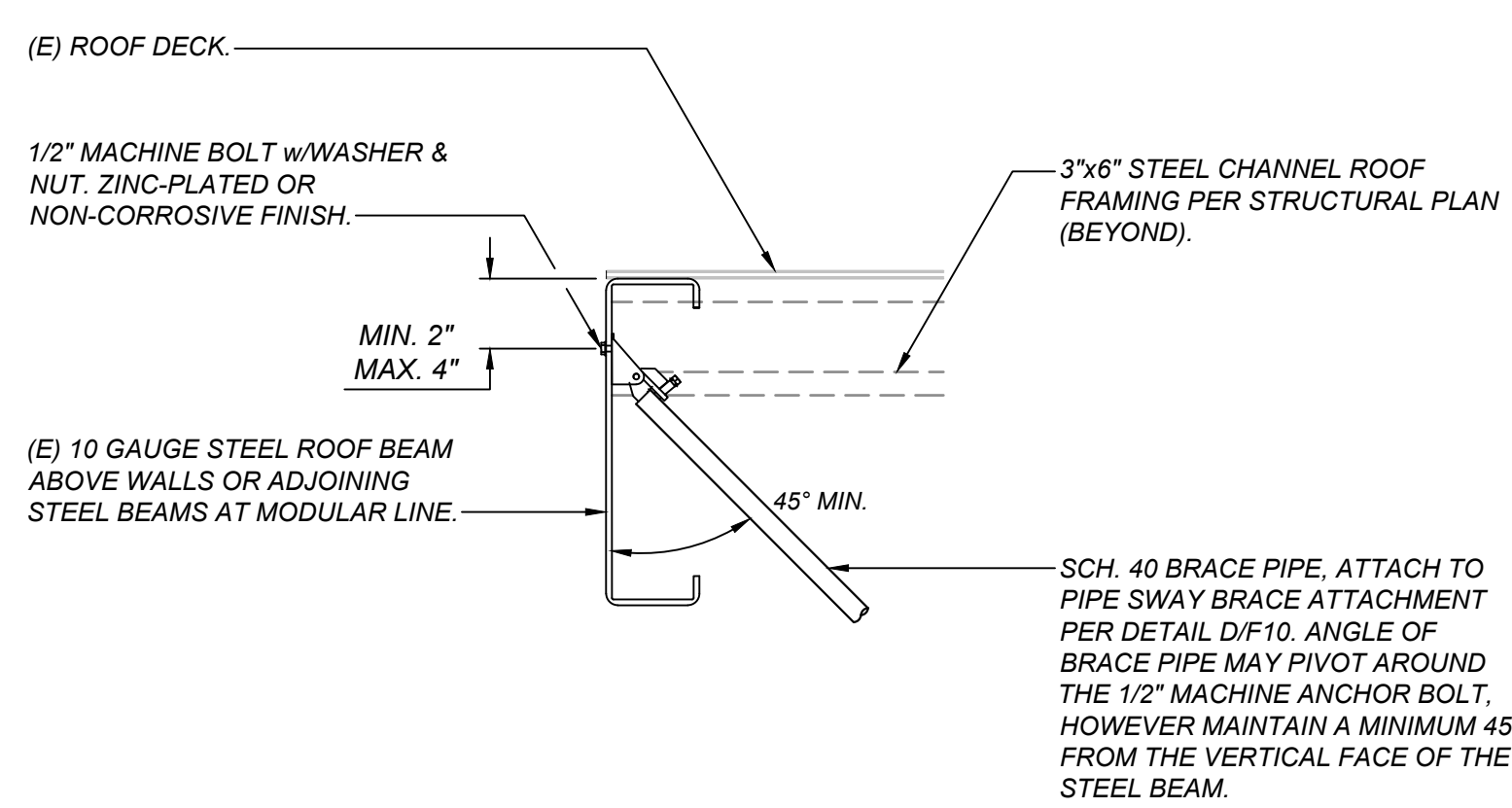


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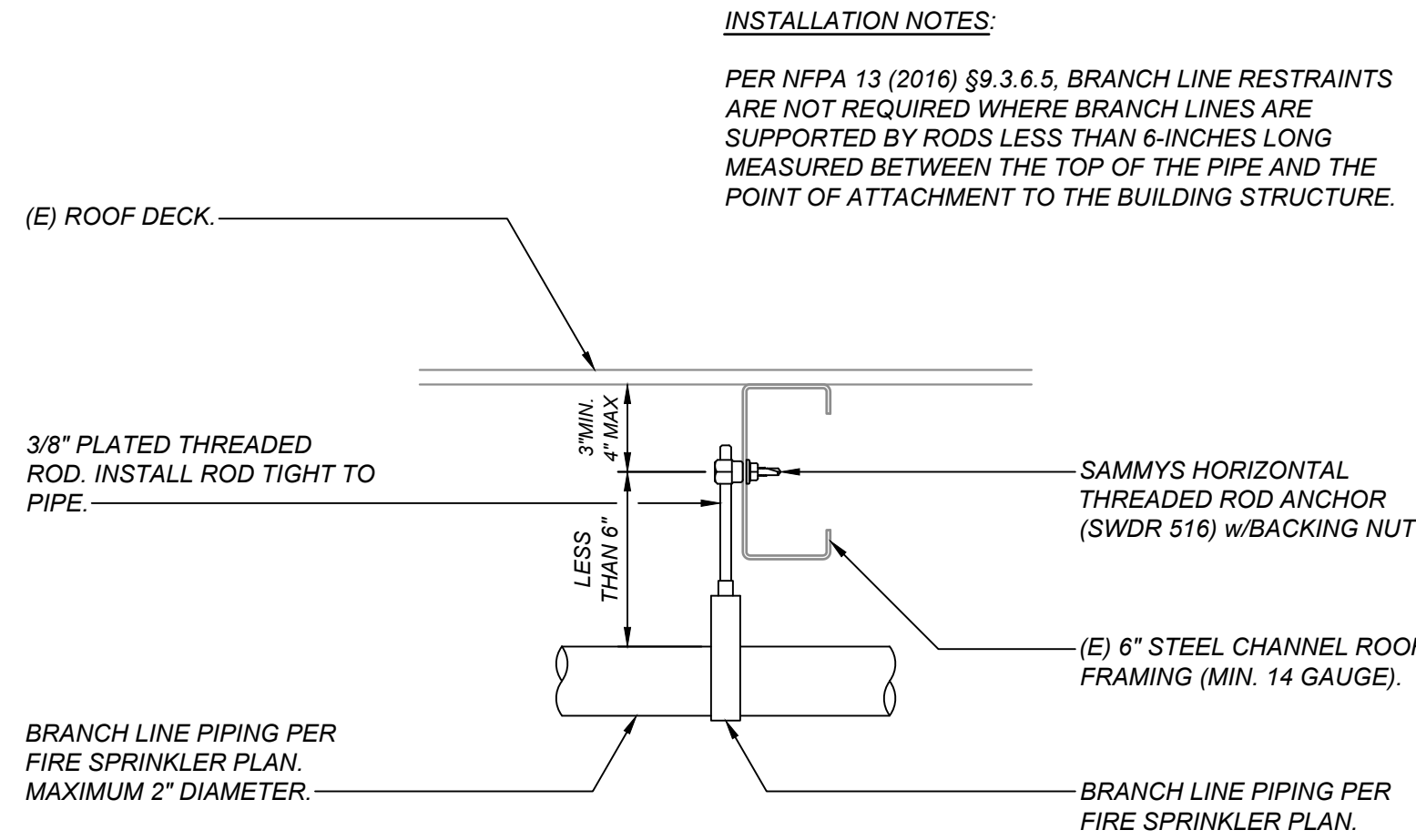
**4-WAY BRACE DETAIL
ATTACHMENT TO HORIZONTAL MAIN**

SCALE: NONE FSS008 **F10**



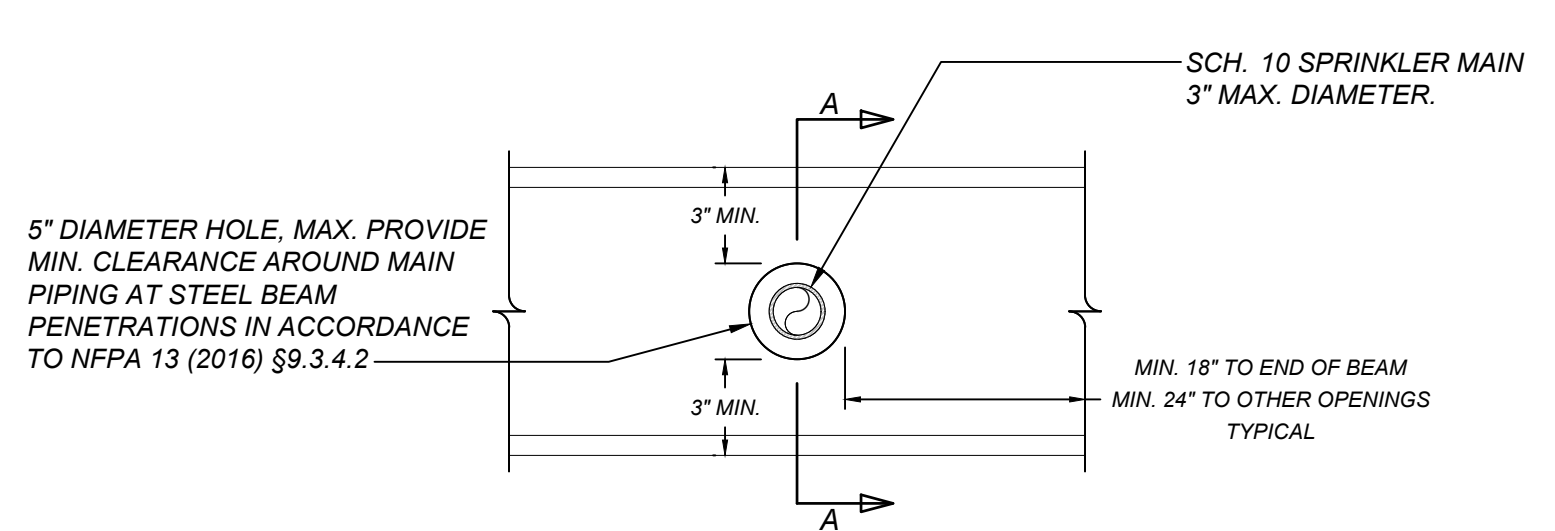
**SWAY BRACE ATTACHMENT
AT SPRINKLER MAIN PIPING**

SCALE: NONE FSS008 **C F10**



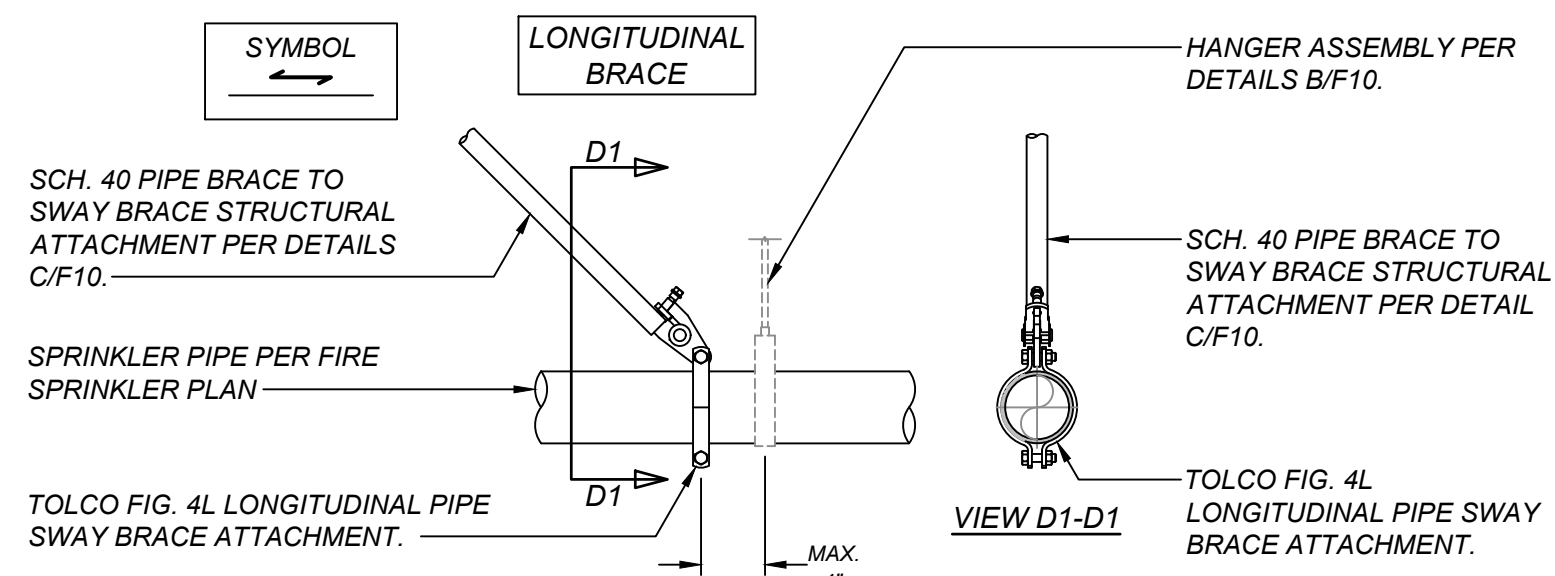
**BRANCH LINE HANGER SUPPORT
AT METAL CHANNEL ROOF FRAMING**

SCALE: NONE FSS101 **A F10**



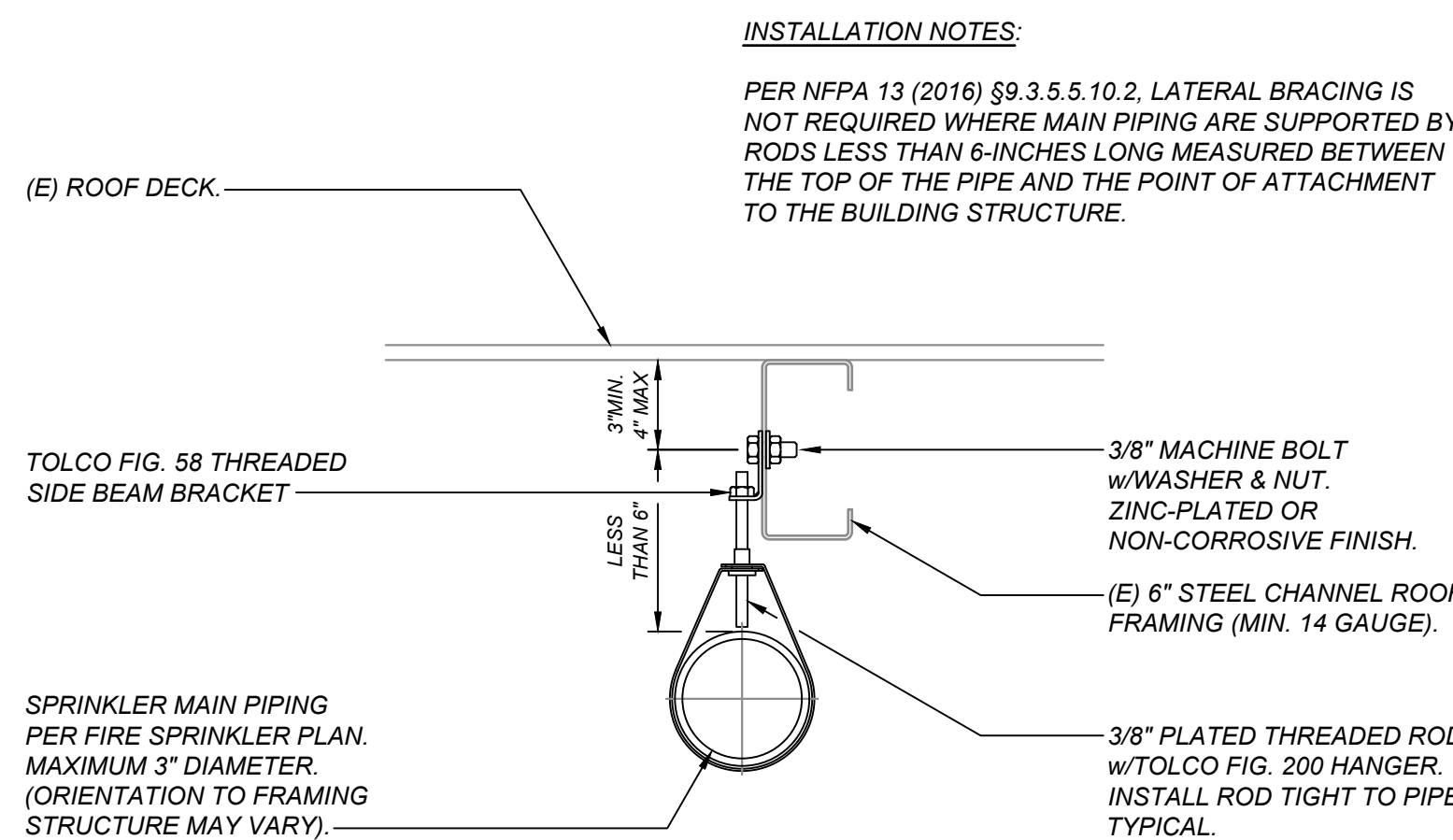
**BEAM PENETRATION DETAIL
(INTERIOR & EXTERIOR BEAMS)**

SCALE: 1\"/>



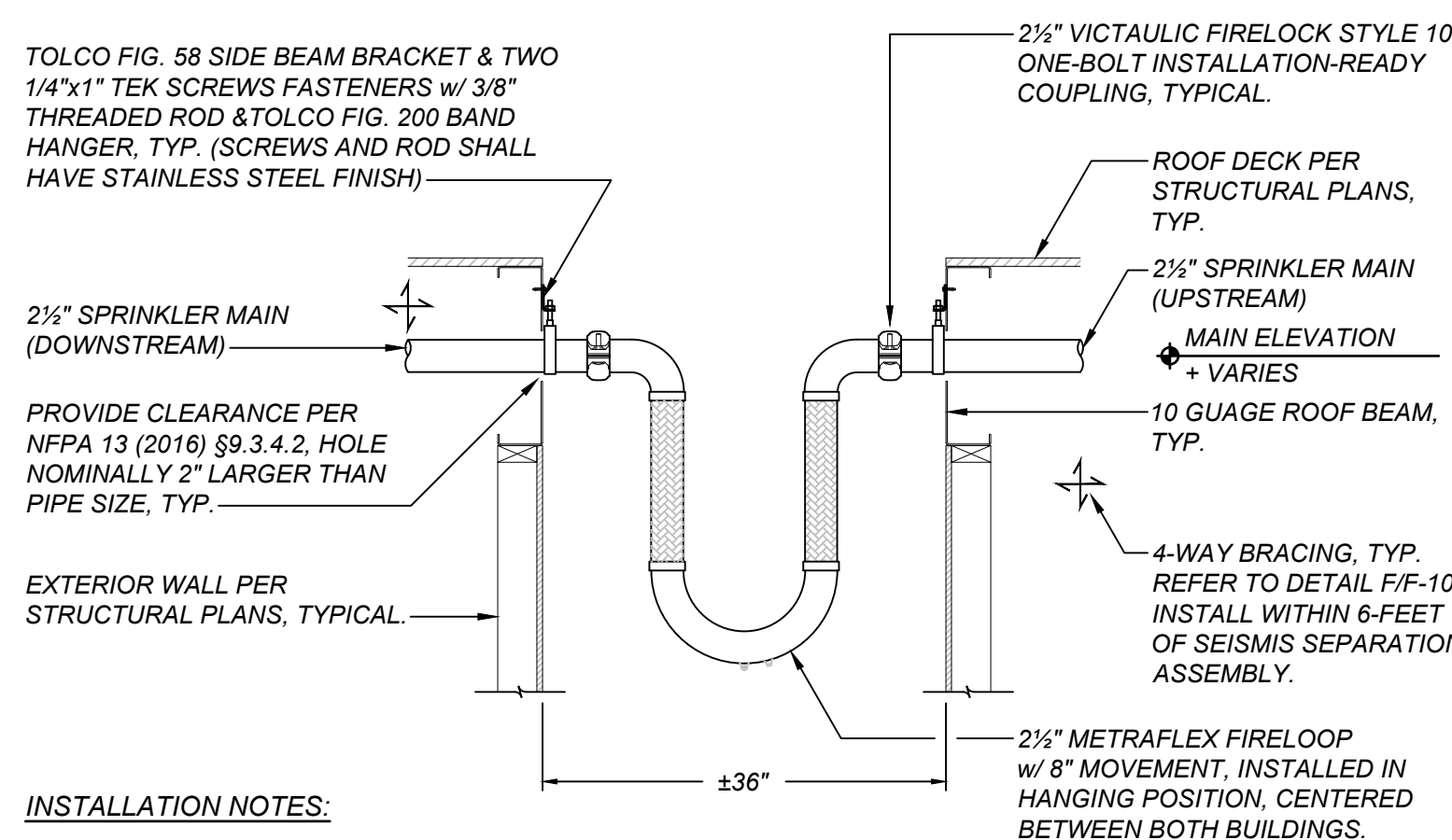
**SWAY BRACE ATTACHMENT
AT SPRINKLER MAIN PIPING**

SCALE: NONE FSS008 **D F10**



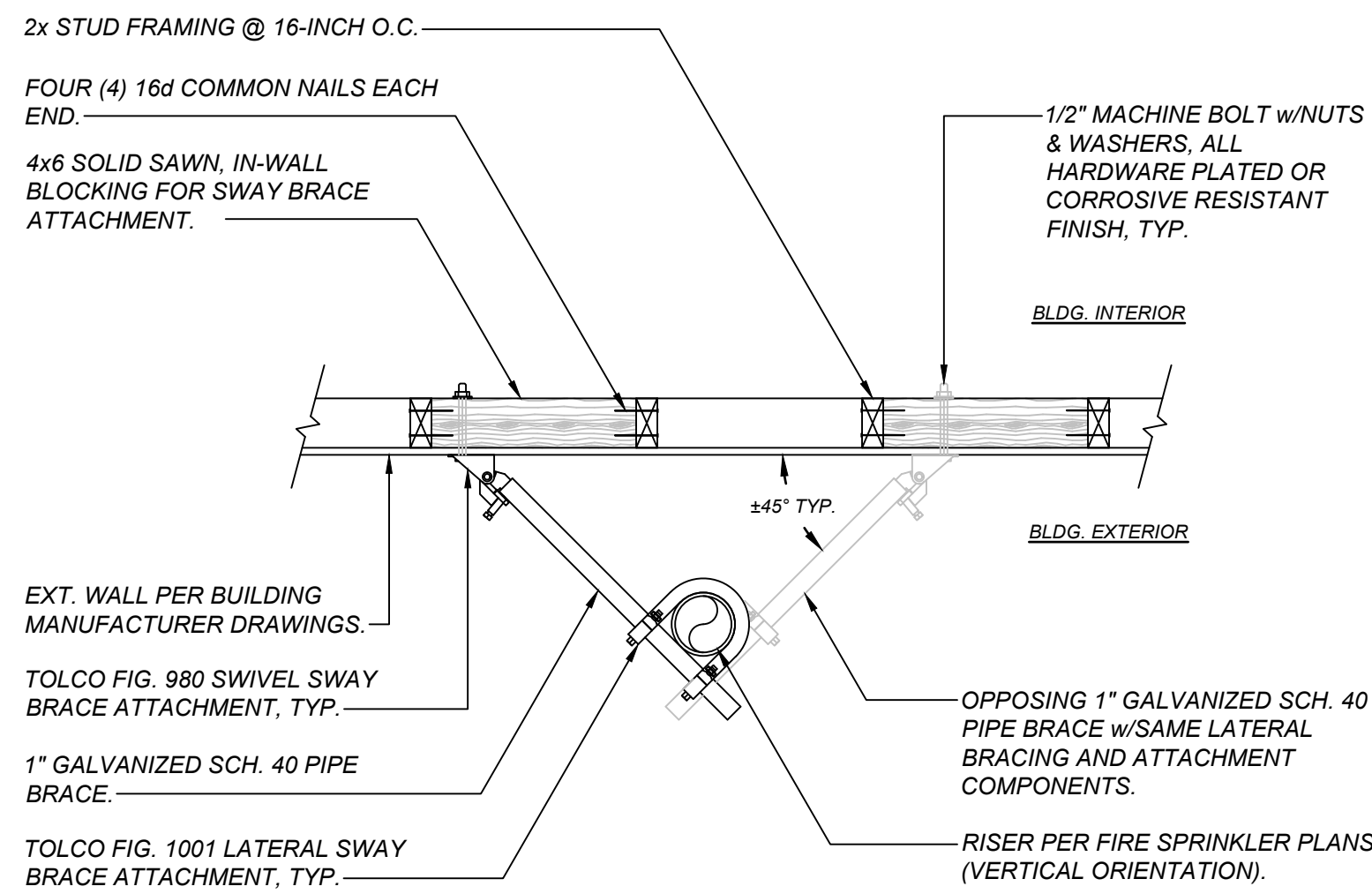
**MAIN HANGER SUPPORT AT METAL
CHANNEL ROOF FRAMING OR ROOF BEAM**

SCALE: NONE FSS101 **B F10**



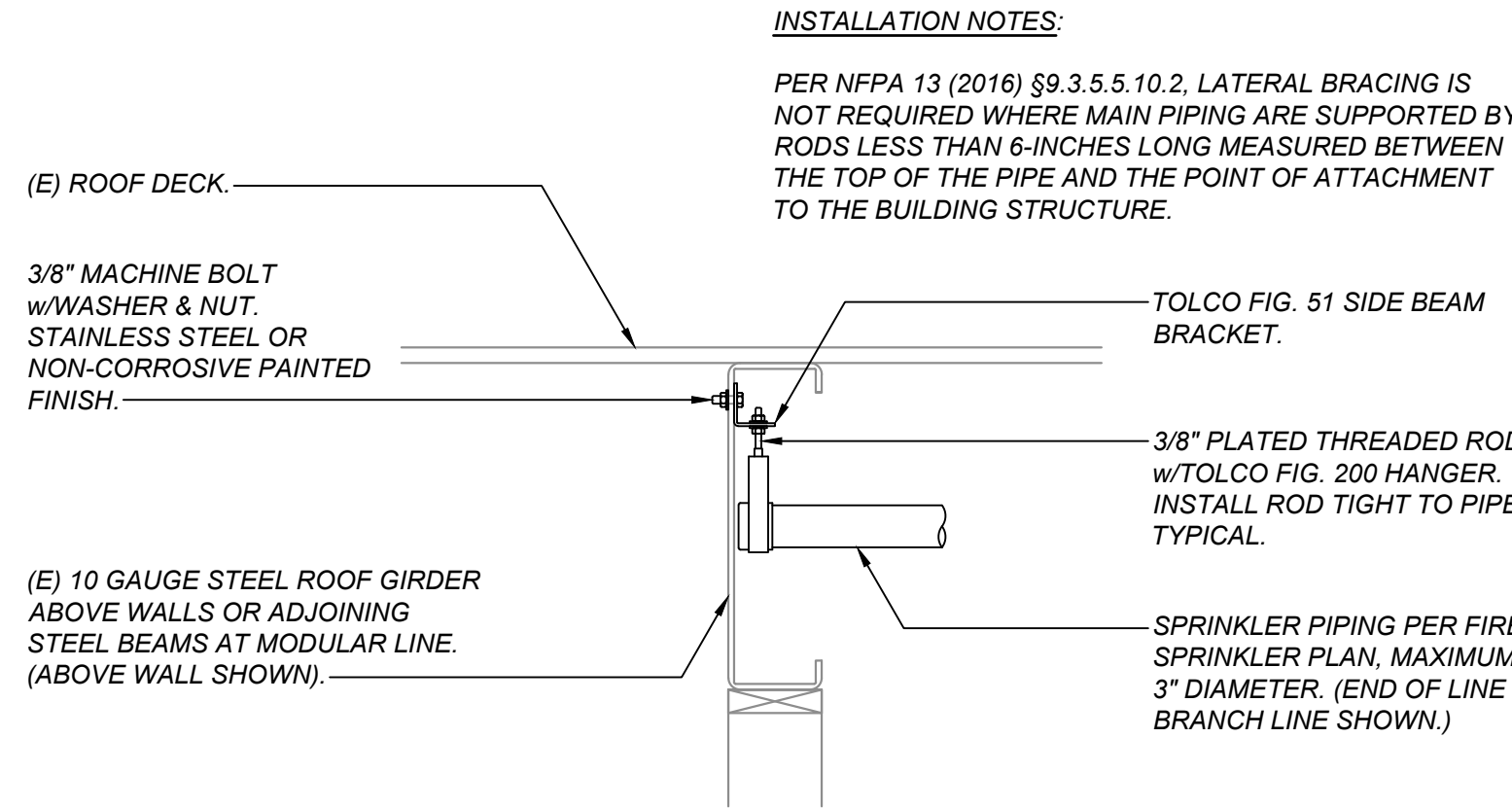
**METRAFLEX FIRELOOP EXTERIOR SEISMIC
SEPARATION BUILDING TRANSITION (IN-LINE)**

SCALE: 3/4\"/>



4-WAY BRACE AT EXTERIOR RISER

SCALE: NONE FSS006 **E F10**



**PIPE HANGER SUPPORT AT
STEEL ROOF GIRDER.**

SCALE: NONE FSS101 **B2 F10**

FIXTURE SCHEDULE

FIXTURE SYMBOL (3-A-260): 3 = CIRCUIT NUMBER, A = FIXTURE TYPE, 260 = FIXTURE WATTAGE

TYPE	WATTS	LAMPS	VOLT	MANUFACTURER	CATALOG NO.	MOUNT	NOTES
A	260	L.E.D.	208V	GREE	OSG-A-4ME-K-5TK-UL	POLE	(1)
B	27	L.E.D.	120V	LITHONIA	STL4-30L-MVOLT-LP840-NICO-E10MLGP	SURFACE	(2)

FIXTURE SCHEDULE NOTES:

- (1) PER DETAIL #1/E3.2.
- (2) PER DETAIL #8/E3.2.

ELECTRICAL SYMBOLS

ALL DIMENSIONS TO CENTER OF BOX, U.O.N.

3-	CIRCUIT NUMBER (3-A-260)
-A-	FIXTURE TYPE (3-A-260)
-260	FIXTURE WATTAGE (3-A-260)
⊕	HOME RUN 3/4" - MIN. (PANEL A, CIRCUIT #3)
⎯→	CONDUIT RUN IN WALL OR ATTIC (1/2" - 2 #12 AWG THIN + 1 #12 GND)
⎯→	CONDUIT RUN IN FLOOR OR US (1/2" - 2 #12 AWG THIN + 1 #12 GND)
⎯→	ANY CONDUIT RUN - 1/2" - 3 #12 AWG THIN + 1 #12 GND
⎯→	" " - 3/4" - 4 #12 AWG THIN + 1 #12 GND
⎯→	" " - 3/4" - 5 #12 AWG THIN + 1 #12 GND
⎯→	" " - 1" - 6 #12 AWG THIN + 1 #12 GND
→	CONDUIT STUB - CAPPED AND LABELED.
⓪	ELECTRICAL KEYNOTE #1, REFER TO NOTES ON SAME SHEET.
U.O.N.	UNLESS OTHERWISE NOTED
WP.	WEATHERPROOF
▭	TERMINAL CABINET (SIZE AS SHOWN)
▭	ELECTRICAL PANELBOARD
⊙	POLE MOUNTED "AREA" LIGHT FIXTURE
⊙	POLE MOUNTED "AREA" LIGHT FIXTURES
⊙	JUNCTION BOX EQUIPPED WITH BLANK COVER
⊙	JUNCTION BOX EQUIPPED WITH BLANK COVER AND FLEX CONNECTION
(A) ⓪	ADDRESSABLE SMOKE DETECTOR MOUNTED ON CEILING
⓪	ADDRESSABLE MONITOR MODULE
⓪	DUAL MONITOR MODULE
⓪	ADDRESSABLE MANUAL PULL STATION
⓪	FIRE ALARM SPEAKER/15 CANDELA VISUAL STROBE (WALL MOUNTED)
(A) ⓪	FIRE ALARM SPEAKER/15 CANDELA VISUAL STROBE (CEILING MOUNTED)
⓪	FIRE ALARM SPEAKER/15 CANDELA VISUAL STROBE (CEILING MOUNTED)
⓪	FIRE ALARM SPEAKER/15 CANDELA VISUAL STROBE (CEILING MOUNTED)
⓪	FIRE ALARM EXTERIOR SPEAKER IN WALL
E	SUBSCRIPT DENOTES EXISTING SHALL REMAIN
R	SUBSCRIPT DENOTES EXISTING SHALL BE REMOVED
—ER—	DENOTES EXISTING BRANCH CIRCUITING/HOMERUN TO BE REMOVED

ELECTRICAL SYMBOLS NOTES:

- (A) REFER TO FIRE ALARM DEVICES ELEVATION, DETAIL #1/E2.3 FOR RESPECTIVE MOUNTING HEIGHTS.

DIVISION OF THE STATE ARCHITECT

APPLICABLE CODES AND STANDARDS

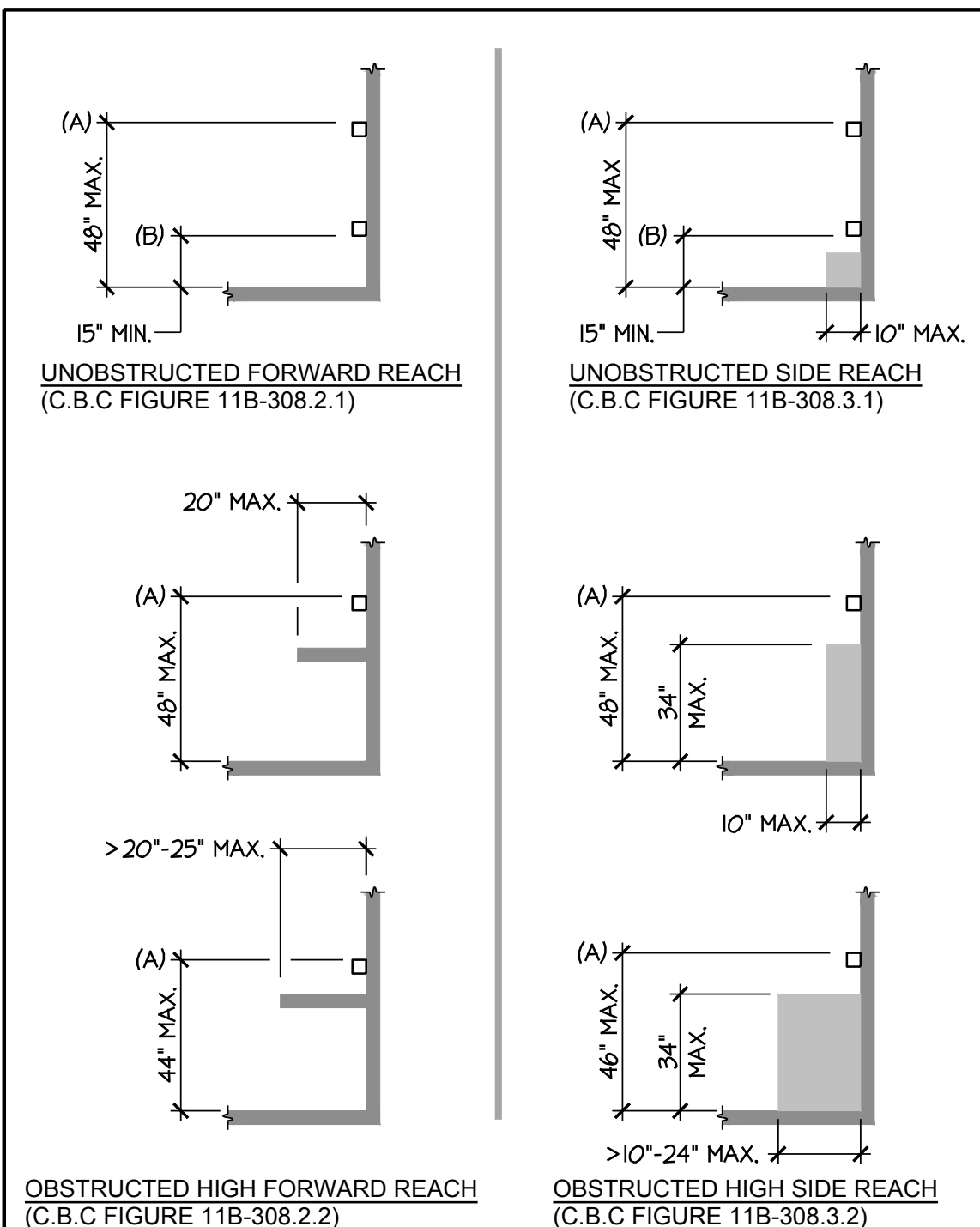
CODES:

- 2019 CALIFORNIA 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, VOLUMES I AND 2 WITH 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA ELECTRICAL CODE (C.E.C.), PART 3, TITLE 24 C.C.R. (2014 NATIONAL ELECTRICAL CODE WITH 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA MECHANICAL CODE (C.M.C.), PART 4, TITLE 24 C.C.R. (2015 INTERNATIONAL MECHANICAL CODE WITH 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA PLUMBING CODE (C.P.C.), PART 5, TITLE 24 C.C.R. (2015 INTERNATIONAL PLUMBING CODE WITH 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA ENERGY CODE (C.E.C.), PART 6, TITLE 24 C.C.R.
- 2016 CALIFORNIA FIRE CODE (C.F.C.), PART 9, TITLE 24 C.C.R. (2015 INTERNATIONAL FIRE CODE WITH 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA REFERENCED STANDARDS CODE (C.R.S.C.), PART 12, TITLE 24 C.C.R.

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

STANDARDS AND GUIDES:

- NFPA T2 - NATIONAL FIRE ALARM CODE, 2016 EDITION (CALIFORNIA AMENDED)
- ADAAG - AMERICANS WITH DISABILITIES ACT, ACCESSIBILITY GUIDELINES
- UL 30 - MANUAL ACTUATED SIGNALING BOXES, 2008 EDITION
- UL 268 - SMOKE DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 2016 EDITION
- UL 268A - SMOKE DETECTORS FOR DUCT APPLICATIONS, 2008 EDITION
- UL 464 - AUDIBLE SIGNAL APPLIANCES, 2003 EDITION
- UL 521 - HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 1999 EDITION (WITH REVISIONS THROUGH JULY 2005)
- UL 864 - CONTROL UNITS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 2014 EDITION



(A) TOP OF OUTLET BOX FOR RECEPTACLES, SWITCHES AND CONTROLS.
(B) BOTTOM OF OUTLET BOX FOR RECEPTACLES, SWITCHES AND CONTROLS.

ELECTRICAL RECEPTACLE, SWITCH AND CONTROL HEIGHTS

NT5

TITLE 24, PART 6

THE CALIFORNIA ENERGY EFFICIENCY STANDARDS FOR NONRESIDENTIAL BUILDINGS HAS BEEN REVIEWED AND THE BUILDING DESIGN DESCRIBED ON THESE PAGES IS IN SUBSTANTIAL CONFORMANCE.

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SS FLS ACS
DATE: 02/13/2020

CODE, RULES AND REGULATIONS

ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST REGULATIONS OF THE STATE FIRE MARSHAL, CALIFORNIA CODE OF REGULATIONS, SERVING UTILITY COMPANIES AND OTHER APPLICABLE STATE ORDINANCES. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED AS TO PERMIT WORK NOT CONFORMING TO THESE CODES, WHERE WORK OF A HIGHER DEGREE IS INDICATED IN THE PLANS OR SPECIFICATIONS THIS REQUIREMENT SHALL GOVERN.

SEISMIC ANCHORAGE REQUIREMENTS

MECHANICAL, ELECTRICAL AND PLUMBING ANCHORAGE NOTE
ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE APPROVED DRAWINGS AND THE APPROVED DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A1.18 THROUGH 1616A1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.

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

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8 AND 2016 CBC, SECTIONS 1616A1.24, 1616A1.25, AND 1616A1.26.

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

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

- MP MD PP E - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
- MP MD PP E - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM#) #0052-13.
- MP MD PP - OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2004), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL AND CONNECTION LEVEL ____ FOR THE PROJECT AND CONDITIONS.

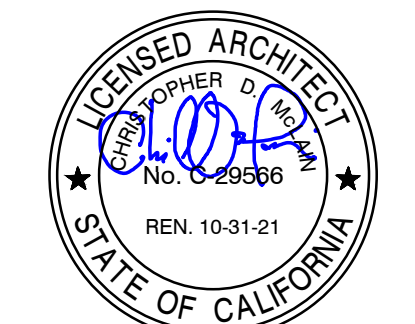
AUTOMATIC FIRE SPRINKLER SYSTEM

ALL BUILDINGS HAVE AN AUTOMATIC FIRE SPRINKLER SYSTEM. HEAT DETECTORS HAVE BEEN OMITTED (IN SPRINKLED BUILDINGS), IN CONCEALED ATTIC SPACES ABOVE CEILING AND SOFFITS, DUE TO THE AUTOMATIC FIRE SPRINKLER SYSTEM IS FULLY EQUIPPED IN THESE AREAS. C.F.C. 9012.3.6.2.

COMPLETE AUTOMATIC FIRE ALARM SYSTEM PLAN SUBMITTAL

THE FIRE ALARM SYSTEM SHOWN ON THESE PLANS HAS BEEN SUBMITTED AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT. ANY SUBSTITUTION OF THE FIRE ALARM SYSTEM SHALL BE RESUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL PAY ANY ADDITIONAL FEES THAT ARE INCURRED DUE TO THIS SUBSTITUTION.

THE FIRE ALARM SYSTEM SHALL BE A TOTAL (COMPLETE) AUTOMATIC HEAT AND SMOKE DETECTION SYSTEM, PER C.F.C. SECTION 9012.3.6, AND SHALL COVER EVERY ROOM AND/OR AREA. UPON THE ACTIVATION OF ANY INITIATION DEVICE THE FIRE ALARM SYSTEM SHALL ALERT ALL OCCUPANTS AND TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION (C.F.C. SECTION 9012.3.5).



DATE: JULY 10, 2019

ALTERNATE EDUCATION COMPLEX
PORTERVILLE UNIFIED SCHOOL DISTRICT
914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257

REVISIONS	1	2	3	4	5
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ARCHITECTURE
INGENUITY
MANGINI MORRELLI
McLAIN BARENG
MANGINI ASSOCIATES INC.
4320 West Mineral King Avenue
Visalia, California 93221
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(559) 627-0930 Office
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TITLE
CODES, NOTES AND
ELECTRICAL SYMBOLS
& FIXTURE SCHEDULE

EG1.1

PROJECT **1901**

Rose Sing and Associates, Inc.
Electrical Consultants
131 S. Dunworth - (559) 733-2671
Visalia, California 93292-6705



STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTO-01-E
Outdoor Lighting (Page 1 of 4)
Project name: ALTERNATE EDUCATION COMPLEX Date Prepared: 7-10-19

A. GENERAL INFORMATION
Project Address: 914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257 Total Illuminated Hardscape Area: 19,068
Phase of Construction: New Construction Addition Alteration
Outdoor Lighting Zone: LZ-1 LZ-2 LZ-3 LZ-4
I have confirmed with the AHJ which LZ applies to this site. For default lighting zone designations, see Title 24 Part 6, §10-114

B. LIGHTING COMPLIANCE DOCUMENTS (check box for each document included)
For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.
 NRCC-LTO-01-E Certificate of Compliance
 NRCC-LTO-02-E Outdoor Lighting Controls Certificate of Compliance
 NRCC-LTO-03-E Outdoor Lighting Power Allowance Certificate of Compliance
 NRCC-LTO-04-E Outdoor Lighting Existing Conditions Certificate of Compliance

C. Summary of Allowed Outdoor Lighting Power

	Watts
01 Sum Total ALLOWED Outdoor Lighting Wattage from NRCC-LTO-03-E, page 1 Alterations with NO increase of connected lighting load may instead use the allowed wattage from NRCC-LTO-04, page 2	1,305
Complies ONLY if installed (Box 02) ≤ Allowed (Box 01)	
02 Sum Total INSTALLED Outdoor Lighting Wattage from NRCC-LTO-01-E, page 3	520

D. Declaration of Required Installation Certificates
Declare by checking all Installation Certificates that will be submitted. (Retain copies and verify compliance documents are completed and signed.)
 NRCC-LTO-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance. Field Inspector

E. Declaration of Required Certificates of Acceptance
Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify compliance documents are completed and signed.)
 NRCC-LTO-02-A - Must be submitted for outdoor lighting controls. Field Inspector

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION
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Outdoor Lighting (Page 2 of 4)
Project name: ALTERNATE EDUCATION COMPLEX Date Prepared: 7-10-19

F. Schedule of Luminaires Exempt from the Outdoor Lighting Power Requirements in §140.7

01	02
Name or Symbol	Description of exempt luminaire in accordance with the exemptions
.	.

G. Schedule of Luminaires Exempt from the Cutoff Requirements in §130.2(b)

01	02
Name or Symbol	Description of exempt luminaire in accordance with the exemptions
.	.

H. Schedule of Luminaires Exempt from the Outdoor Lighting Control Requirements in §130.2(c)

01	02
Name or Symbol	Description of exempt luminaire in accordance with the exemptions
.	.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTO-01-E
Outdoor Lighting (Page 3 of 4)
Project name: ALTERNATE EDUCATION COMPLEX Date Prepared: 7-10-19

I. OUTDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

01	Luminaire Schedule	Installed Watts				07	Cutoff	Field Inspector		
		03	04	05	06			08	Pass	Fail
Name or Item Tag	Complete Luminaire Description	Watts per Luminaire	How wattage was determined CEC Default from NAB §130.0(c)	Number of Luminaires	Total installed wattage (W x Q)	Primary Function area in which these luminaires are installed (Outdoor Lighting Zone)	BUG Rating	Pass	Fail	
A	L.E.D. TWIN HEAD, POLE MOUNTED LIGHT FIXTURE	260	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2	520	PARKING LOT	UH: N/A UL: N/A FVH: N/A BVH: N/A FH: N/A BH: N/A	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>				UH: UL: FVH: BVH: FH: BH:	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>				UH: UL: FVH: BVH: FH: BH:	<input type="checkbox"/>	<input type="checkbox"/>
INSTALLED WATTS PAGE TOTAL:					520					520

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

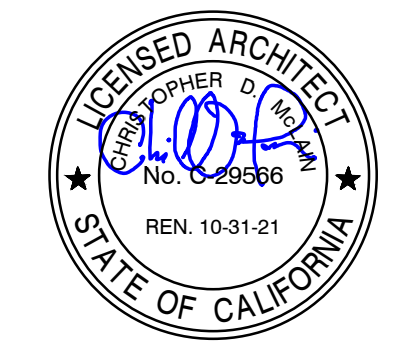
STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTO-01-E
Outdoor Lighting (Page 4 of 4)
Project name: ALTERNATE EDUCATION COMPLEX Date Prepared: 7-10-19

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.
Documentation Author Name: JEFF JACKSON
Company: ROSE-SING AND ASSOCIATES, INC.
Address: 131 SOUTH DUNWORTH STREET
City/State/Zip: VISALIA, CA 93292-6705
Phone: (559) 733-2671 EXT. 104
Documentation Author Signature: *Jeff Jackson*

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certification of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.
Responsible Designer Name: THEODORE W. ROSE
Company: ROSE-SING AND ASSOCIATES, INC.
Address: 131 SOUTH DUNWORTH STREET
City/State/Zip: VISALIA, CA 93292-6705
Responsible Designer Signature: *Theodore W. Rose*
Date Signed: 7-10-19
License: E14920
Phone: (559) 733-2671 EXT. 101

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-117736 INC.
REVIEWED FOR
SS FLS ACS
DATE: 02/13/2020



DATE: JULY 10, 2019

ALTERNATE EDUCATION COMPLEX
PORTERVILLE UNIFIED SCHOOL DISTRICT
914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257

REVISIONS

MANGINI ARCHITECTURE
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www.mangini.us
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(559) 627-1526 Fax

TITLE
OUTDOOR LIGHTING
COMPLIANCE

EG1.2

PROJECT 1901



Rose Sing and Associates, Inc.
Electrical Consultants
131 S. Dunworth - (559) 733-2671
Visalia, California 93292-6705

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 08/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTO-02-E
Outdoor Lighting Controls (Page 1 of 3)
Project name: ALTERNATE EDUCATION COMPLEX Date Prepared: 7-10-19

A. Mandatory Outdoor Lighting Control Declaration Statements
Check all that apply:
 Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with §110.9(a).
 Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An installation Certificate shall be submitted in accordance with §130.4(b).
 All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with §130.0(a).
 Part-Night Outdoor Lighting Controls, as defined in Section 100.1(b), shall meet the requirements in Section 110.9(b).
 All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.0(c), shall be controlled by a motion sensor.
 All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.0(c), shall comply with Uplight, and Glare requirements in accordance with Section 130.2(b).
 All installed outdoor lighting shall be controlled by a photocell, or outdoor astronomical time-switch control or other controls capable of automatically switching OFF in accordance with Section 130.2(c)1.
 All installed outdoor lighting shall be independently controlled from other electrical loads by an automatic scheduling control in accordance with Section 130.2(c)2.
 All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 130.2(c)3.
 For Outdoor Sales Frontage, an automatic lighting control in accordance with Section 130.2(c)4.
 For Building Facade, Ornamental Hardscape and Outdoor Dining lighting, an automatic lighting control in accordance with Section 130.2(c)5.
 Before an occupancy permit is granted for a newly constructed building or for the addition, or there are any altered outdoor lighting the outdoor lighting controls shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §130.4(a). Outdoor lighting controls shall comply with the applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NA7.8.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance August 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 08/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTO-02-E
Outdoor Lighting Controls (Page 2 of 3)
Project name: ALTERNATE EDUCATION COMPLEX Date Prepared: 7-10-19

B. Mandatory Outdoor Lighting Control Schedule and Field Inspection Checklist

Outdoor Lighting Control Schedule	Standards Complying With (Check all that apply, or enter "E" if Exempted)									Check if Acceptance Test Required	Field Inspector		
	01	02	03	04	05	06	07	08	09		10	11	Pass
Location and Application of Luminaires being controlled		Type/Description of Lighting Control (i.e. outdoor motion sensor, outdoor photocell, outdoor astronomical time-switch control, automatic scheduling control, part-night outdoor lighting control)	# of Units	§130.2(c)	§130.2(c)1	§130.2(c)2	§130.2(c)3	§130.2(c)4	§130.2(c)5				
AT MAIN BUILDING ELECTRICAL ROOM	(E) PHOTOCCELL AND TIMECLOCK	1 EA.	E	✓	✓	E	E	E	E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
										<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance August 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 08/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTO-02-E
Outdoor Lighting Controls (Page 3 of 3)
Project name: ALTERNATE EDUCATION COMPLEX Date Prepared: 7-10-19

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: JEFF JACKSON
Company: ROSE-SING AND ASSOCIATES, INC.
Address: 131 SOUTH DUNWORTH
City/State/Zip: VISALIA, CA 93292-6705

Documentation Author Signature: *Jeff Jackson*
Signature Date: 7-10-19
CEA Certification Identification (if applicable): N/A
Phone: (559) 733-2671 EXT. 104

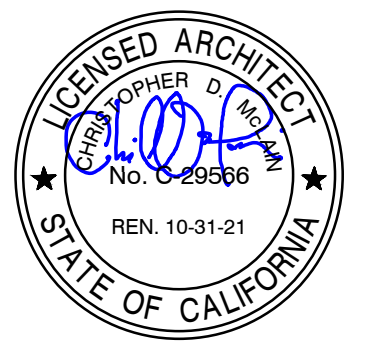
RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
 1. The information provided on this Certificate of Compliance is true and correct.
 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
 5. I will ensure that a completed signed copy of this Certification of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: THEODORE W. ROSE
Company: ROSE-SING AND ASSOCIATES, INC.
Address: 131 SOUTH DUNWORTH
City/State/Zip: VISALIA, CA 93292-6705

Responsible Designer Signature: *Theodore W. Rose*
Date Signed: 7-10-19
License: E14920
Phone: (559) 733-2671 EXT. 101

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance August 2016

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-117736 INC.
REVIEWED FOR
SS FLS ACS
DATE: 02/13/2020



DATE: JULY 10, 2019

ALTERNATE EDUCATION COMPLEX
PORTERVILLE UNIFIED SCHOOL DISTRICT
914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257

REVISIONS

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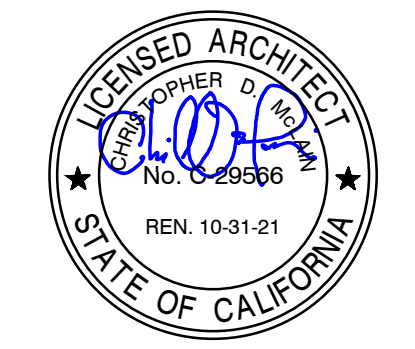
Rose Sing and Associates, Inc.
Electrical Consultants
131 S. Dunworth - (559) 733-2671
Visalia, California 93292-6705

TITLE
OUTDOOR LIGHTING
COMPLIANCE

EG1.3

PROJECT 1901

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-117736 INC.
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DATE: 02/13/2020



DATE: JULY 10, 2019

ALTERNATE EDUCATION COMPLEX
PORTERVILLE UNIFIED SCHOOL DISTRICT
914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257

REVISIONS

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TITLE
OUTDOOR LIGHTING
COMPLIANCE

EG1.4

PROJECT 1901



Rose Sing and Associates, Inc.
Electrical Consultants
131 S. Dunworth - (559) 733-2671
Visalia, California 93292-6705

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTO-03-E
Outdoor Lighting Power Allowances (Page 3 of 4)
Project name: ALTERNATE EDUCATION COMPLEX Date Prepared: 7-10-19

C-3. WATTAGE ALLOWANCE PER SQUARE FOOT OF HARDSCAPE AREA (Ornamental Lighting) - Table 140.7-B

01	ALLOTTED WATTS			DESIGN WATTS					
	02	03	04	05	06	07	08	09	10
Name area for Which Ornamental Allowance is Claimed	Square Feet of Hardscape	Wattage Allowance per Square Foot	Alotted Watts (02 x 03)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per Luminaire	Design Watts (07 x 08)	Allowed Watts (smaller of 04 or 09)
Sum total allowance for ornamental lighting on the site:									N/A

C-4. WATTAGE ALLOWANCE PER SQUARE FOOT OF SPECIFIC AREA - Table 140.7-B

01	ALLOTTED WATTS			DESIGN WATTS					
	02	03	04	05	06	07	08	09	10
Name of Location for Which Allowance is Claimed	Illuminated Area of Application	Wattage Allowance per Square Foot	Alotted Watts (02 x 03)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per Luminaire	Design Watts (07 x 08)	Allowed Watts (smaller of 04 or 09)
Sum total allowance for specific area on the site:									N/A

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2017

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTO-03-E
Outdoor Lighting Power Allowances (Page 1 of 4)
Project name: ALTERNATE EDUCATION COMPLEX Date Prepared: 7-10-19

A. OUTDOOR LIGHTING POWER ALLOWANCE SUMMARY

1. General Hardscape Lighting Power Allowance (Site Total from Section B of NRCC-LTO-03-E) 1. 1,305

2. Additional Specific "use it or lose it" Lighting Power Allowances listed in each of these cells shall be identical to total allowed watts determined in Section C-1 to C-4 of NRCC-LTO-03-E.

PER APPLICATION from Section C-1	PER UNIT LENGTH (SALES FRONTAGE) from Section C-2	PER HARDSCAPE AREA (ORNAMENTAL LIGHTING) from Section C-3	PER SPECIFIC AREA from Section C-4	=	2.	0
3. Sum Total ALLOWED Outdoor Lighting Wattage (add rows 1 and 2)					3.	1,305

B. GENERAL HARDSCAPE LIGHTING POWER ALLOWANCE FROM TABLE 140.7-A

01	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Initial Wattage Allowance (IWA)	Total General Hardscape Lighting Allowance
	02	03	04	05	06	07		
Name of area	Illuminated Hardscape Area	AWA Per Square Foot	AWA (B02 x B03)	Perimeter Length of General Hardscape	LPA per Linear Foot	LWA (B05 x B06)	IWA (Watts)	B04 + B07 + B08
PARKING LOT	19,068	.04	762	582	.35	203	520	1,305
TOTAL								1,305

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2017

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTO-03-E
Outdoor Lighting Power Allowances (Page 4 of 4)
Project name: ALTERNATE EDUCATION COMPLEX Date Prepared: 7-10-19

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: JEFF JACKSON
Documentation Author Signature: *Jeff Jackson*
Company: ROSE-SING AND ASSOCIATES, INC.
Signature Date: 7-10-19
Address: 131 SOUTH DUNWORTH
City/State/Zip: VISALIA, CA 93292-6705
CEA Certification Identification (if applicable): N/A
Phone: (559) 733-2671 EXT. 104

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certification of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: THEODORE W. ROSE
Responsible Designer Signature: *Theodore W. Rose*
Company: ROSE-SING AND ASSOCIATES, INC.
Date Signed: 7-10-19
Address: 131 SOUTH DUNWORTH
City/State/Zip: VISALIA, CA 93292-6705
License: E14920
Phone: (559) 733-2671 EXT. 101

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2017

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTO-03-E
Outdoor Lighting Power Allowances (Page 2 of 4)
Project name: ALTERNATE EDUCATION COMPLEX Date Prepared: 7-10-19

C. ADDITIONAL "USE IT OR LOSE IT" OUTDOOR LIGHTING POWER ALLOWANCES FOR SPECIFIC APPLICATIONS

The additional specific outdoor lighting power allowance shall be the smaller of the allowed lighting power or the actual lighting power used. Use Outdoor Lighting Zone (OLZ) that is documented on page 1 of NRCC-LTO-01-E to calculate the specific wattage allowances.

C-1. WATTAGE ALLOWANCE PER APPLICATION - Table 140.7-B

01	ALLOTTED WATTS			DESIGN WATTS					
	02	03	04	05	06	07	08	09	10
Name of Location for Which Allowance is Claimed	Number of Qualifying Locations	Wattage Allowance per Qualifying Location	Alotted Watts (02 x 03)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per Luminaire	Design Watts (07 x 08)	Allowed Watts (smaller of 04 or 09)
Sum total allowance per application on this site:									N/A

C-2. WATTAGE ALLOWANCE PER UNIT LENGTH (Sales Frontage) from Table 140.7-B.

01	ALLOTTED WATTS			DESIGN WATTS					
	02	03	04	05	06	07	08	09	10
Name of Location for Which Allowance is Claimed	Linear feet of Sales Frontage	Wattage Allowance per Linear Foot	Alotted Watts (02 x 03)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per Luminaire	Design Watts (07 x 08)	Allowed Watts (smaller of 04 or 09)
Sum total allowance for sales frontage on the site:									N/A

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2017

Z:\Working\Jobs\USA\SCHOOLS\PKLLE\PROJECT\Alternative Educ. Complex\EG1.4.dwg DATE SAVED: 02/06/20 DATE PLOTTED: 02/06/20 BY: Corey_JBB # 19-021-UJ

STATE OF CALIFORNIA
ELECTRICAL POWER DISTRIBUTION
CALIFORNIA ENERGY COMMISSION
NRC-ELC-01-E (Revised 01/16)
CERTIFICATE OF COMPLIANCE NRC-ELC-01-E
Electrical Power Distribution (Page 1 of 6)
Project Name: ALTERNATE EDUCATION COMPLEX Date Prepared: 7-10-19

General Information
Project Address: 914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257 Climate Zone: Conditioned Floor Area: 0
Unconditioned Floor Area: 13
Building Type: Nonresidential High-Rise Residential Hotel/Motel
 Schools Relocatable Public Schools
Phase of Construction: New Construction Addition Alteration

In the table below identify applicable construction documents that specify the requirements for the scope of responsibility reported by this certificate. Use additional pages as needed to list all construction documents related to compliance of Section 130.5.

Document Number	Document Title/Descriptions (include description information for Table or Schedule if it contains compliance information)	Document Sheet # or Page #	Indicate which subsection of Section 130.5 is related to the document (e.g. 130.5(c) for service electrical metering)
NRCC-ELC-01-E (A)	SERVICE ELEC. METERING	EG1.5	130.5(c)
NRCC-ELC-01-E (B)	SEPARATION OF CIRCUITS	EG1.5	130.5(b)
NRCC-ELC-01-E (C)	VOLTAGE DROP CALCULATIONS	EG1.5	130.5(c)
NRCC-ELC-01-E (D)	RECEPT. CONTROLS - N/A	EG1.5	130.5(d)

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA
ELECTRICAL POWER DISTRIBUTION
CALIFORNIA ENERGY COMMISSION
NRC-ELC-01-E (Revised 01/16)
CERTIFICATE OF COMPLIANCE NRC-ELC-01-E
Electrical Power Distribution (Page 3 of 6)
Project Name: ALTERNATE EDUCATION COMPLEX Date Prepared: 7-10-19

A. Service Electrical Metering
Check one of the three boxes below if the electrical power distribution system is in compliance with Section 130.5(a).
 For newly installed electrical service in newly constructed buildings, Service Electrical Metering is required according to Section 130.5(a). Fill out Column 1 thru 6 of table below.
 For new or replacement electrical service equipment in existing buildings, Service Electrical Metering is required according to Section 141.0(b)(2)(F). Fill out Column 1 thru 6 of table below.
 EXCEPTION to Electrical Service Metering: Service or feeder for which the utility company provides a metering system that indicates instantaneous kW demand and kWh for a utility-defined period. Fill out Column 1, 2 and 6 of table below with the compliance information.
Fill out a separate line for each electrical service that is connected to the building. If additional table space is needed for electrical service information, submit additional page with the information.

Electrical Service Schedule	Electrical Service Rating	Metering Capabilities (check all that are present)					Exception to 130.5(a)	Field Inspector
		03	04	05	06	07		
01	02	03	04	05	06	07	08	
Electrical Service Designation/Location/Description	kVA	Instantaneous (at the time)	Historical peak (kW)	Tracing kWh for a definable period	kWh per rate period	Utility metering system	Check that the metering complies	
(E) MAIN SWITCHBOARD "MS" 480/277V, 3ph, 4W, 3,000 AMPS	2,493	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA
ELECTRICAL POWER DISTRIBUTION
CALIFORNIA ENERGY COMMISSION
NRC-ELC-01-E (Revised 01/16)
CERTIFICATE OF COMPLIANCE NRC-ELC-01-E
Electrical Power Distribution (Page 4 of 6)
Project Name: ALTERNATE EDUCATION COMPLEX Date Prepared: 7-10-19

B. Separation of Electrical Circuits for Electrical Energy Monitoring
Check all boxes below if the electrical power distribution system is in compliance with section 130.5(b).
 The electrical power distribution system meets the separation of electrical circuits of electrical energy monitoring requirement of Section 130.5(b). The electrical power distribution system is designed so that measurement devices can monitor the electrical energy usage of load types according to TABLE 130.5-b.
 Describe the electrical power distribution system installed and the compliance method chosen in meeting the requirement of Section 130.5(b). Use the space below to include the information. Examples of compliance methods are detailed in Nonresidential Compliance Manual Chapter 8.
Fill out Column 1 thru 3 with the compliance information.

General information	Electrical Power Distribution System Information and Method of compliance	Electrical Service Rating	Enforcement Agency
01	02	03	04
Electrical Service Designation/Location/Description	Describe the electrical power distribution system installed and the compliance method used	kVA	Check that the system complies
EXISTING AT EAST WALL MAIN BUILDING	EXISTING MAIN SWITCHBOARD	2,493	

Field Inspector Notes:

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA
ELECTRICAL POWER DISTRIBUTION
CALIFORNIA ENERGY COMMISSION
NRC-ELC-01-E (Revised 01/16)
CERTIFICATE OF COMPLIANCE NRC-ELC-01-E
Electrical Power Distribution (Page 5 of 6)
Project Name: ALTERNATE EDUCATION COMPLEX Date Prepared: 7-10-19

C. Voltage Drop
Check all boxes below if the electrical power distribution system is in compliance with section 130.5(c).
 The electrical power distribution system meets the voltage drop requirement of Section 130.5(c). The maximum combined voltage drop on feeder conductors and branch circuit conductors to the farthest connected load or outlet, do not exceed 5%.
 Voltage drop calculation documents showing compliance to Section 130.5(c) are submitted as part of the compliance document submittal. SEE SEPARATE BOOKLET.

D. Circuit Controls for 120-Volt Receptacles and Controlled Receptacles
Check one or more boxes below for applicable requirements of Section 130.5(d) for the electrical power distribution system.
 The control is capable of automatically shutting OFF the controlled receptacles when the space is typically unoccupied, either at the receptacle or circuit level. For the automatic time switch control, it incorporates an override control that allows the controlled receptacle to remain ON for no more than 2 hours when an override is initiated and an automatic holiday "shut-OFF" feature that turns OFF all loads for at least 24 hours and then resumes the normally scheduled operation. Countdown timer switches are not to be used to comply with the automatic time switch control requirements. The controls meet the requirement of Section 130.5(d)1.
 There is at least one controlled receptacle within 6 ft from each uncontrolled receptacle. Where receptacles are installed in modular furniture in open office area, at least one controlled receptacle is installed at each workstation. The receptacles meet the requirement of Section 130.5(d)2.
 There are installed split wired receptacles with at least one controlled and one uncontrolled receptacle. Where receptacles are installed in modular furniture in open office area, at least one controlled receptacle is installed at each workstation. The receptacles meet the requirement of Section 130.5(d)2.
 Permanent and durable marking for controlled receptacles or circuits to differentiate them from uncontrolled receptacles or circuits is provided. The markings meet the requirement of Section 130.5(d)3.
 For hotel and motel guest rooms, there are controlled receptacles for at least one-half of the 120-volt receptacles in each guest room. Electric circuits serving controlled receptacles in guestrooms are installed to have captive key controls, occupancy sensing controls, or automatic controls so the power is switched off no longer than 30 minutes after the guest room has been vacated. The receptacles meet the requirement of Section 130.5(d)4.
 Receptacles that are only for the following purposes are exempt from Section 130.5(d):
-Receptacles specifically for refrigerators and water dispensers in kitchen areas.
-Receptacles located a minimum of six ft above the floor that are specifically for clocks.
-Receptacles for network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms.
-Receptacles on circuits rated more than 20 amperes.
-Receptacles connected to an uninterruptible power supply (UPS) that are intended to be in continuous use, 24 hours per day/365 days per year, and are marked to differentiate them from other uncontrolled receptacles or circuits.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

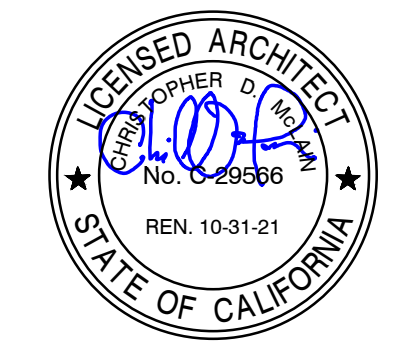
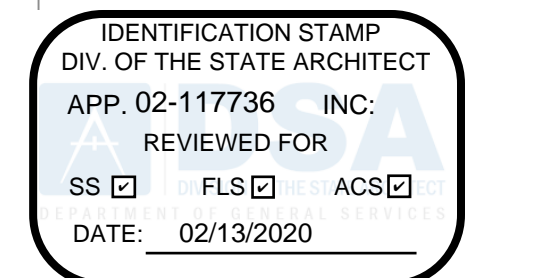
STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION
NRC-ELC-01-E (Revised 01/16)
CERTIFICATE OF COMPLIANCE NRC-ELC-01-E
Electrical Power Distribution (Page 6 of 6)
Project Name: ALTERNATE EDUCATION COMPLEX Date Prepared: 7-10-19

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.
Documentation Author Name: JEFF JACKSON
Documentation Author Signature: [Signature]
Company: ROSE-SING AND ASSOCIATES, INC.
Address: 131 SOUTH DUNWORTH STREET
City/State/Zip: VISALIA, CA 93292-6705
Phone: (559) 733-2671 EXT. 104

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: THEODORE W. ROSE
Responsible Designer Signature: [Signature]
Company: ROSE-SING AND ASSOCIATES, INC.
Address: 131 SOUTH DUNWORTH STREET
City/State/Zip: VISALIA, CA 93292-6705
Date Signed: 7-10-19
License: E14920
Phone: (559) 733-2671 EXT. 101

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016



DATE: JULY 10, 2019

ALTERNATE EDUCATION COMPLEX
 PORTERVILLE UNIFIED SCHOOL DISTRICT
 914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257

REVISIONS					

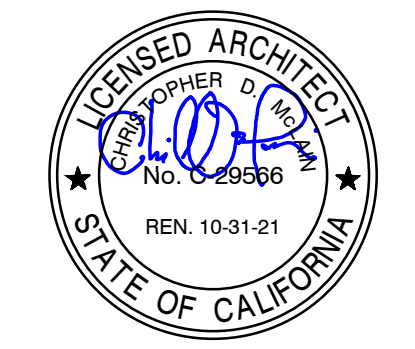
MANGINI ARCHITECTURE
 INGENUITY
 MCLAIN BARENG MORRELLI
 www.mangini.us
 4320 West Mineral King Avenue
 Visalia, California 93291
 (559) 627-0930 Office
 (559) 627-1526 Fax



Rose Sing and Associates, Inc.
 Electrical Consultants
 131 S. Dunworth - (559)733-2671
 Visalia, California 93292-6705

TITLE POWER COMPLIANCE
EG1.5
 PROJECT 1901

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-117736 INC.
REVIEWED FOR
SS FLS ACS
DATE: 02/13/2020



DATE: JULY 10, 2019

ALTERNATE EDUCATION COMPLEX
 PORTERVILLE UNIFIED SCHOOL DISTRICT
 914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257

REVISIONS

MANGINI ARCHITECTURE
 INGENUITY
 MORRELLI
 McLain BARENG
 MANGINI ASSOCIATES, INC.
 4320 West Mineral King Avenue
 Visalia, California 93291
 www.mangini.us
 (559) 627-0930 Office
 (559) 627-1526 Fax

TITLE
INDOOR LIGHTING
COMPLIANCE
TYP. FOR ALL RELOCS

EG1.6

PROJECT 1901



Rose Sing and Associates, Inc.
Electrical Consultants
131 S. Dunworth - (559)733-2671
Visalia, California 93292-6705

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/17) CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTI-01-E
Indoor Lighting (Page 4 of 5)
Project name: ALTERNATE EDUCATION COMPLEX Date Prepared: 7-10-19

G. INSTALL PORTABLE LUMINAIRES IN OFFICES - Exception to Section 140.6(a)-CONDITIONED SPACES

This section shall be filled out ONLY for portable luminaires in offices (As defined in §100.1). All other planned portable luminaires shall be documented on next page of this compliance form.
 This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office.
 Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance shall not be traded between offices having different lighting systems.

Office Portable Luminaire Schedule	Office Installed Portable Luminaire W/ft ²							Office Location	Field Inspector	
01	02	03	04	05	06	07	08	09	10	11
Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted, direct/indirect)	Watts per Luminaire	Number of Luminaires	Installed portable luminaire watts in this office (002 X 003)	Square feet of this office	Watts per square foot (G04/G05)	If G06 ≤ 0.3, enter zero; if G06 > 0.3, (G06-0.3)	G05 x G07	Identify Office area in which these portable luminaires are installed	Pass	Fail
Total installed portable luminaire watts that are greater than 0.3 W/ft ² per office:									Enter sum total of all pages into NRCC-LTI-01-E, Page 1	

H. INDOOR LIGHTING SCHEDULE AND FIELD INSPECTION-CONDITIONED SPACES

Luminaire Schedule	Installed Watts				Location	Field Inspector ¹		
	03	04	05	06		07	08	
Name or Item Tag	Complete Luminaire Description (i.e., 3 lamp fluorescent troffer, F32TB, one dimmable electronic ballast)	Watts per Luminaire	How wattage was determined CEC Default from NAB According to §130.0(c)	Number of Luminaires	Total Installed Watts in this area (W03 x W05)	Primary Function area in which these luminaires are installed	Pass	Fail
B	1' x 4' L.E.D. SURFACE MOUNTED	27		1		RESTROOM		
INSTALLED WATTS PAGE TOTAL:						27		

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2017

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/17) CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTI-01-E
Indoor Lighting (Page 5 of 5)
Project name: ALTERNATE EDUCATION COMPLEX Date Prepared: 7-10-19

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I, I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: **JEFF JACKSON** Signature: *Jeff Jackson*
 Company: **ROSE-SING AND ASSOCIATES, INC.** Signature Date: **7-10-19**
 Address: **131 SOUTH DUNWORTH STREET** CEA Certification Identification (if applicable): **N/A**
 City/State/Zip: **VISALIA, CA 93292-6705** Phone: **(559) 733-2671 EXT. 104**

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certification of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: **THEODORE W. ROSE** Responsible Designer Signature: *Theodore W. Rose*
 Company: **ROSE-SING AND ASSOCIATES, INC.** Date Signed: **7-10-19**
 Address: **131 SOUTH DUNWORTH STREET** License: **E14920**
 City/State/Zip: **VISALIA, CA 93292-6705** Phone: **(559) 733-2671 EXT. 101**

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2017

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/17) CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTI-01-E
Indoor Lighting (Page 1 of 5)
Project name: ALTERNATE EDUCATION COMPLEX Date Prepared: 7-10-19

A. General Information

Climate Zone: 13 Conditioned Floor Area: 56
Unconditioned Floor Area: 0

Building Type: Nonresidential High-Rise Residential Hotel/Motel
 Schools Relocatable Public Schools Conditioned Spaces Unconditioned spaces
 Phase of Construction: New Construction Addition Alteration
 Method of Compliance: Complete Building Area Category Tailored
 Project Address: .

B. LIGHTING COMPLIANCE DOCUMENTS (select yes for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	FORM	TITLE
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-01-E	Certificate of Compliance. All pages required on plans for all submittals.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All pages required on plans for all submittals.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-03-E	Indoor Lighting Power Allowance
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-04-E	Tailored Method Worksheets
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-06-E	Indoor Lighting Existing Conditions

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2017

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/17) CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTI-01-E
Indoor Lighting (Page 2 of 5)
Project name: ALTERNATE EDUCATION COMPLEX Date Prepared: 7-10-19

C. Summary of Allowed Lighting Power

Conditioned and Unconditioned space Lighting must not be combined for compliance

Indoor Lighting Power for Conditioned Spaces			Indoor Lighting Power for Unconditioned Spaces			
	WATTS			WATTS		
1.	Installed Lighting NRCC-LTI-01-E, Table H	+	27	Installed Lighting NRCC-LTI-01-E, Table H	+	0
2.	Portable Only for Offices NRCC-LTI-01-E	+				
3.	Minus Lighting Control Credits NRCC-LTI-02-E	-		Minus Lighting Control Credits NRCC-LTI-02-E	-	0
4.	Adjusted Installed Lighting Power (row 1 plus row 2 minus row 3)	=	27	Adjusted Installed Lighting Power (row 1 plus row 2 minus row 3)	=	0
COMPLIES			Complies ONLY if Installed ≤ Allowed (Box 04 ≤ Box 05)	COMPLIES		
5.	Allowed Lighting Power Conditioned NRCC-LTI-03-E		33	Allowed Lighting Power Unconditioned NRCC-LTI-03-E		0

Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2

D. Declaration of Required Installation Certificates

Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-01-E - Must be submitted for all buildings.	<input type="checkbox"/> Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	<input type="checkbox"/> Field Inspector
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	<input type="checkbox"/> Field Inspector
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multi-purpose room, or a theater to be recognized for compliance.	<input type="checkbox"/> Field Inspector
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	<input type="checkbox"/> Field Inspector
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	<input type="checkbox"/> Field Inspector

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2017

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/17) CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTI-01-E
Indoor Lighting (Page 3 of 5)
Project name: ALTERNATE EDUCATION COMPLEX Date Prepared: 7-10-19

E. Declaration of Required Certificates of Acceptance

Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	<input type="checkbox"/> Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	<input type="checkbox"/> Field Inspector
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	<input type="checkbox"/> Field Inspector
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	<input type="checkbox"/> Field Inspector

A Separate Lighting Schedule Must Be Filled Out For Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:

CONDITIONED SPACE UNCONDITIONED SPACE

F. Indoor Lighting Schedule and Field Inspection Energy Checklist

The actual indoor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting systems.
 When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.
 When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines
 Also include track lighting in schedule, and submit the track lighting compliance document (NRCC-LTI-05-E) when line-voltage track lighting is installed.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2017

STATE OF CALIFORNIA
INDOOR LIGHTING - LIGHTING CONTROLS
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTI-02-E
Indoor Lighting - Lighting Controls (Page 1 of 3)
Project name: ALTERNATE EDUCATION COMPLEX Date Prepared: 7-10-19

A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)

YES	NO	Control Requirements
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
<input type="checkbox"/>	<input checked="" type="checkbox"/>	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
<input type="checkbox"/>	<input checked="" type="checkbox"/>	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	All luminaires shall be functionally controlled with manually switched ON and OFF lighting controls in accordance with Section 130.1(a).
<input type="checkbox"/>	<input checked="" type="checkbox"/>	General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general display, ornamental, and special effects lighting shall each be separately controlled in accordance with Section 130.1(a)(4).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones shown on the plans.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Before occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF controls, and demand responsive controls.

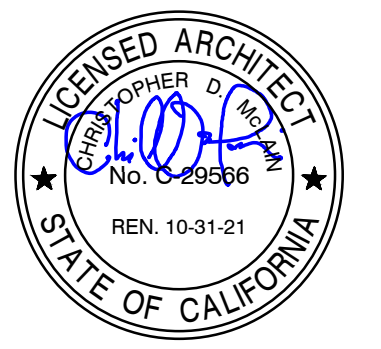
STATE OF CALIFORNIA
INDOOR LIGHTING - LIGHTING CONTROLS
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTI-02-E
Indoor Lighting - Lighting Controls (Page 2 of 3)
Project name: ALTERNATE EDUCATION COMPLEX Date Prepared: 7-10-19

B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist-CONDITIONED SPACES

Lighting Control Schedule	Standards Complying With ¹ (Check all that apply, or leave blank)										PAF Credit Calculation ²			Check if Acceptance Test Required	Field Inspector	
	01	02	03	04	05	06	07	08	09	10	Watts of Controlled Lighting	PAF	Control Credit (k x L)			
Location in Building	Type/Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	# of Units	§ 130.1(c)	§ 130.1(b)	§ 130.1(c)	§ 130.1(e)	§ 130.1(e)	§ 140.6(a)(2)	§ 140.6(d)						Pass	Fail
RESTROOM	OCCUPANCY SENSOR	1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						<input type="checkbox"/>	<input type="checkbox"/>
Control Credit Total:																

1. §130.1(a) = Manual area controls; §130.1(b) = Multi-Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Response; §140.6(a)(2) - Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Daylight Controls.
2. Check Table 140.6-A for correct Factor. PAF's shall not be traded between conditioned and unconditioned spaces. AS a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-117736 INC.
REVIEWED FOR
SS FLS ACS
DATE: 02/13/2020



DATE: JULY 10, 2019

ALTERNATE EDUCATION COMPLEX
PORTERVILLE UNIFIED SCHOOL DISTRICT
914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257

REVISIONS

STATE OF CALIFORNIA
INDOOR LIGHTING - LIGHTING CONTROLS
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-LTI-02-E
Indoor Lighting - Lighting Controls (Page 3 of 3)
Project name: ALTERNATE EDUCATION COMPLEX Date Prepared: 7-10-19

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: JEFF JACKSON
Company: ROSE-SING AND ASSOCIATES, INC.
Address: 131 SOUTH DUNWORTH STREET
City/State/Zip: VISALIA, CA 93292-6705

Documentation Author Signature: [Signature]
Signature Date: 7-10-19
CEA Certification Identification (if applicable): N/A
Phone: (559) 733-2671 EXT. 104

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certification of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: THEODORE W. ROSE
Company: ROSE-SING AND ASSOCIATES, INC.
Address: 131 SOUTH DUNWORTH STREET
City/State/Zip: VISALIA, CA 93292-6705

Responsible Designer Signature: [Signature]
Date Signed: 7-10-19
License: E14920
Phone: (559) 733-2671 EXT. 101

Z:\Drawing\Jobs\BKA\SCHOOLS\PKLLE\PKLLE\AlternatEduc. Complex\EG1.dwg DATE PLOTTED: 02/08/20 DATE SAVED: 02/08/20 BY: Corey_JBB # 19-021-JJ



Rose Sing and Associates, Inc.
Electrical Consultants
131 S. Dunworth - (559)733-2671
Visalia, California 93292-6705

MANGINI ARCHITECTURE INGENUITY
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(559) 627-1526 Fax

TITLE
INDOOR LIGHTING
COMPLIANCE
TYP. FOR ALL RELOCS

EG1.7

PROJECT 1901

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CALIFORNIA ENERGY COMMISSION
NRC-03-E (Revised 04/16)
NRC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance
Project name: **ALTERNATE EDUCATION COMPLEX** Date Prepared: **7-10-19** (Page 1 of 3)

A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES-CONDITIONED SPACES

If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.
 If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts.

	(a)	(b)
1. Complete Building Method Allowed Watts. Documented in section B of NRC-LTI-03-E (below on this page)	0	
2. Area Category Method Allowed Watts. Documented in C-1 of NRC-LTI-03-E (below on this page)		33
3. Tailored Method Allowed Watts. Documented in section A of NRC-LTI-04-E		0
TOTAL ALLOWED BUILDING WATTS.	0	33

Check here if building contains both conditioned and unconditioned areas.

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE-CONDITIONED SPACES

01	02	03	04
TYPE OF BUILDING (from §140.6 Table 140.6-B)	WATTS PER Ft ²	COMPLETE BUILDING AREA	ALLOWED WATTS
N/A			

C-1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES-CONDITIONED SPACES

	Watts
Total from section C-2:	33
Total from section C-3:	0
Total Watts:	33

For Alterations Only - Reduced lighting power option (Total Allowed Watts x 0.85). Enter this value into Section A, Row 2 if using this option.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CALIFORNIA ENERGY COMMISSION
NRC-03-E (Revised 04/16)
NRC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance
Project name: **ALTERNATE EDUCATION COMPLEX** Date Prepared: **7-10-19** (Page 2 of 3)

C-2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE-CONDITIONED SPACES

01	02	03	04
AREA CATEGORY (from §140.6 Table 140.6-C)	WATTS PER Ft ²	AREA (ft ²)	ALLOWED WATTS
Location in Building	Primary Function Area		
RESTROOM	RESTROOM	0.6	56
			33
TOTALS:			33

C-3 AREA CATEGORY METHOD ADDITIONAL LIGHTING WATTAGE ALLOWANCE (from Table 140.6-C Footnotes)

01	02	03 ²	04	05	06	07
Primary Function	Sq. Ft or Linear Ft ¹	Additional Watts Allowed	Wattage Allowance (02 X 3)	Description(s) and Quantity of Special Luminaire Types in each Primary Function Area	Total Design Watts ³	ALLOWED WATTS Smaller of 04 or 06
TOTALS:						

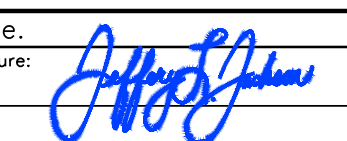
1. Use linear feet only for additional allowance for white board or chalk board. All other additional Area Category allowances shall use watts per square foot.
2. Additional watts are available only when allowed according to the footnotes on bottom of Table 140.6-C, which include: Specialized task work; Ornamental lighting; Precision commercial and industrial work; Per linear foot of white board or chalk board; Accent, display and feature lighting; and Videoconferencing Studio lighting.
3. Luminaire classification and wattage shall be determined in accordance with §130.0(c) of the Standards.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CALIFORNIA ENERGY COMMISSION
NRC-03-E (Revised 04/16)
NRC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance
Project name: **ALTERNATE EDUCATION COMPLEX** Date Prepared: **7-10-19** (Page 3 of 3)

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I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: **JEFF JACKSON** Documentation Author Signature: 

Company: **ROSE-SING AND ASSOCIATES, INC** Signature Date: **7-10-19**

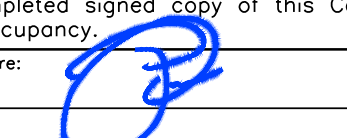
Address: **131 SOUTH DUNWORTH STREET** CEA Certification Identification (if applicable): **N/A**

City/State/Zip: **VISALIA, CA 93292-6705** Phone: **(559) 733-2671 EXT. 104**

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
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Responsible Designer Name: **THEODORE W. ROSE** Responsible Designer Signature: 

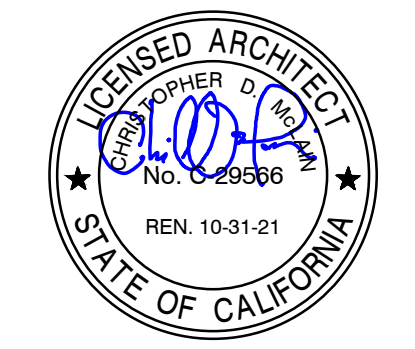
Company: **ROSE-SING AND ASSOCIATES, INC** Date Signed: **7-10-19**

Address: **131 SOUTH DUNWORTH STREET** License: **E14920**

City/State/Zip: **VISALIA, CA 93292-6705** Phone: **(559) 733-2671 EXT. 101**

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-117736 INC.
REVIEWED FOR
SS FLS ACS
DATE: 02/13/2020



DATE: JULY 10, 2019

ALTERNATE EDUCATION COMPLEX
PORTERVILLE UNIFIED SCHOOL DISTRICT
914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257

REVISIONS

MANGINI ARCHITECTURE
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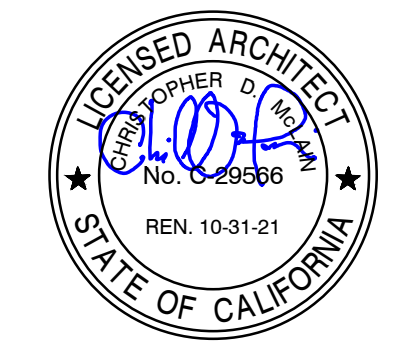
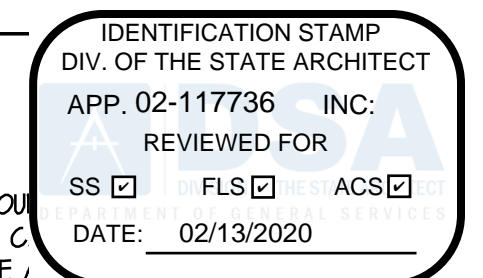


Rose Sing and Associates, Inc.
Electrical Consultants
131 S. Dunworth - (559)733-2671
Visalia, California 93292-6705

TITLE
INDOOR LIGHTING COMPLIANCE
TYP. FOR ALL RELOCS
EG1.8
PROJECT **1901**

NOTES (THIS SHEET ONLY):

- 1 CONNECT TAMPER SWITCHES AT P.I.V. AND F.D.C. CONNECTION POINTS.
- 2 1 1/4" - ONE "SFA" CABLE, ONE "F55" CABLE, 2 #10.
- 3 PROVIDE A "POWER" PULL ENCLOSURE PER DETAIL #2/E3.2. SURFACE MOUNT HIGH ON WALL NEAR ROOF. ROUTE CONDUIT OUT THE BACK OF THE PULL. PUNCH THRU EXTERIOR WALL STRUCTURE AND CONTINUE THRU ACCESSIBLE SPACE ABOVE T-BAR CEILING AS SHOWN. SEAL AROUND CONDUIT PENETRATION AS REQUIRED TO PREVENT LEAKAGE INTO WALL STRUCTURE.
- 4 NEW POWER PULL BOX, MOUNT PER DETAIL #4/E3.2. TYPICAL, U.O.N.
- 5 EXISTING POLE MOUNTED LIGHT FIXTURE TO REMAIN.
- 6 FEEDER(S) PER ONE LINE DIAGRAM #1/E3.1.
- 7 1 1/4" - ONE "SFA" CABLES, ONE "F55" CABLE, 4 #10. ONE SPARE 1" C. ONE SPARE 1 1/4".
- 8 ROUTE THROUGH LIGHTING CONTROL PANEL "LCP-AE".
- 9 3/4" - 2 #12 + 1 #12 GND.
- 10 STUB UP ON BUILDING TO +12" A.F.G.
- 11 SAWCUT AND PATCH EXISTING SIDEWALK AS REQUIRED TO UNDERGROUND CONDUITS.
- 12 EXTEND 36" BEYOND PAD AND CAP FOR FUTURE USE.
- 13 1" - Ø #14.
- 14 CONDUIT STUBS PER ONE LINE DIAGRAM #1/E3.1.
- 15 SPARE CONDUITS PER ONE LINE DIAGRAM #1/E3.1.
- 16 PER DETAIL #6/E3.2.
- 17 3/4" (M.P. FLEX) - 6 #14.
- 18 SEE SHEET #11 FOR REQUIREMENTS.
- 19 ONE SPARE 1" C.
- 20 ONE SPARE 1 1/4".
- 21 WEATHER PROOF PULL ENCLOSURE ON BUILDING PER DETAIL #2/E3.2.
- 22 USE THE SPARE 4" C TO PULL NEW FEEDER CONDUCTORS PER ONE LINE DIAGRAM #1/E3.1.
- 23 NEW SIGNALS PULL BOX PER DETAIL #4/E3.2. TYPICAL, U.O.N.
- 24 1 1/2" (M.P. FLEX) - 2 #14.
- 25 TO MONITOR MODULES INSIDE OF FIRE ALARM T.C. "F.A.T.C. - R".
- 26 1/2" (M.P. FLEX) - 4 #14.
- 27 1 1/4" - ONE "SFA" CABLE, TWO "F55" CABLES, 2 #10.



DATE: JULY 10, 2019

ALTERNATE EDUCATION COMPLEX
 PORTERVILLE UNIFIED SCHOOL DISTRICT
 914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257

NO.	REVISIONS

MANGINI ARCHITECTURE
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 MANGINI ASSOCIATES INC.
 4320 West Mineral King Avenue
 Visalia, California 93291



Rose Sing and Associates, Inc.
 Electrical Consultants
 131 S. Dunworth - (559) 733-2671
 Visalia, California 93292-6705

**COMPLETE AUTOMATIC FIRE ALARM SYSTEM
 PLAN SUBMITTAL**

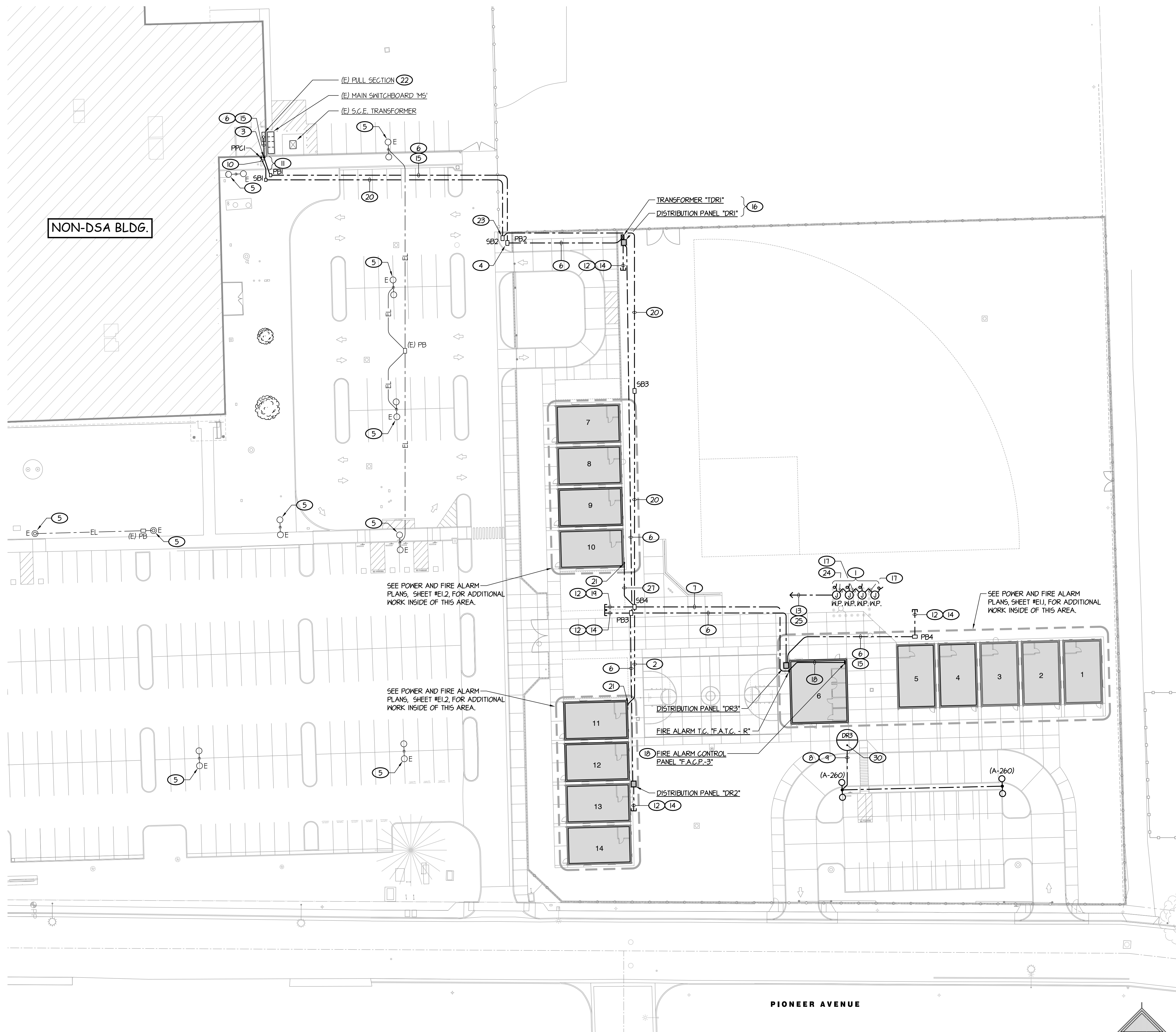
THE FIRE ALARM SYSTEM SHOWN ON THESE PLANS HAS BEEN SUBMITTED AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT. ANY SUBSTITUTION OF THE FIRE ALARM SYSTEM SHALL BE RESUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL PAY ANY ADDITIONAL FEES THAT ARE INCURRED DUE TO THIS SUBSTITUTION.

THE FIRE ALARM SYSTEM SHALL BE A TOTAL (COMPLETE) AUTOMATIC HEAT (AT BUILDING #6 ONLY) AND SMOKE DETECTION SYSTEM, PER C.F.C. SECTION 901.2.3.6, AND SHALL COVER EVERY ROOM AND/OR AREA. UPON THE ACTIVATION OF ANY INITIATION DEVICE THE FIRE ALARM SYSTEM SHALL ALERT ALL OCCUPANTS AND TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION (C.F.C. SECTION 901.2.3.5).

TITLE
 NEW SITE
 ELECTRICAL PLAN

ES1.1

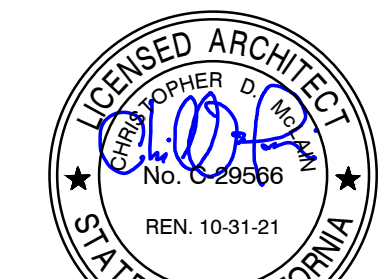
PROJECT 1901



NEW SITE ELECTRICAL PLAN
 1" = 30'-0"

Z:\Working\Jobs\USA\SCHOOLS\PKLLEY\PKLLEY\Alternates\Educ. Complex\ES1.dwg DATE: 02/06/20 DATE PLOTTED: 02/06/20 BY: Corey_ABB # 19-021-JJ

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP. 02-117736 INC.
 REVIEWED FOR:
 SS FLS ACS
 DATE: 02/13/2020

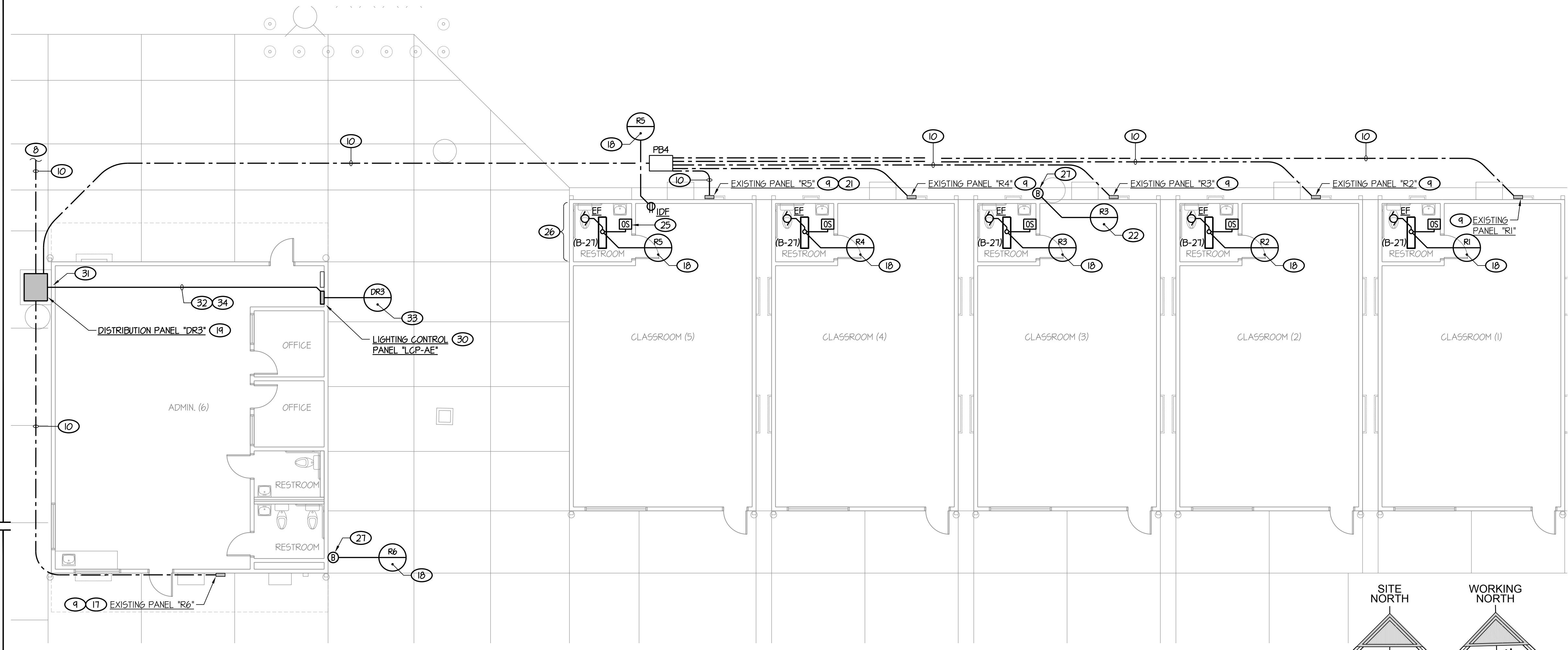


DATE: JULY 10, 2019

**ALTERNATE
 EDUCATION COMPLEX**
 PORTERVILLE UNIFIED SCHOOL DISTRICT
 914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257

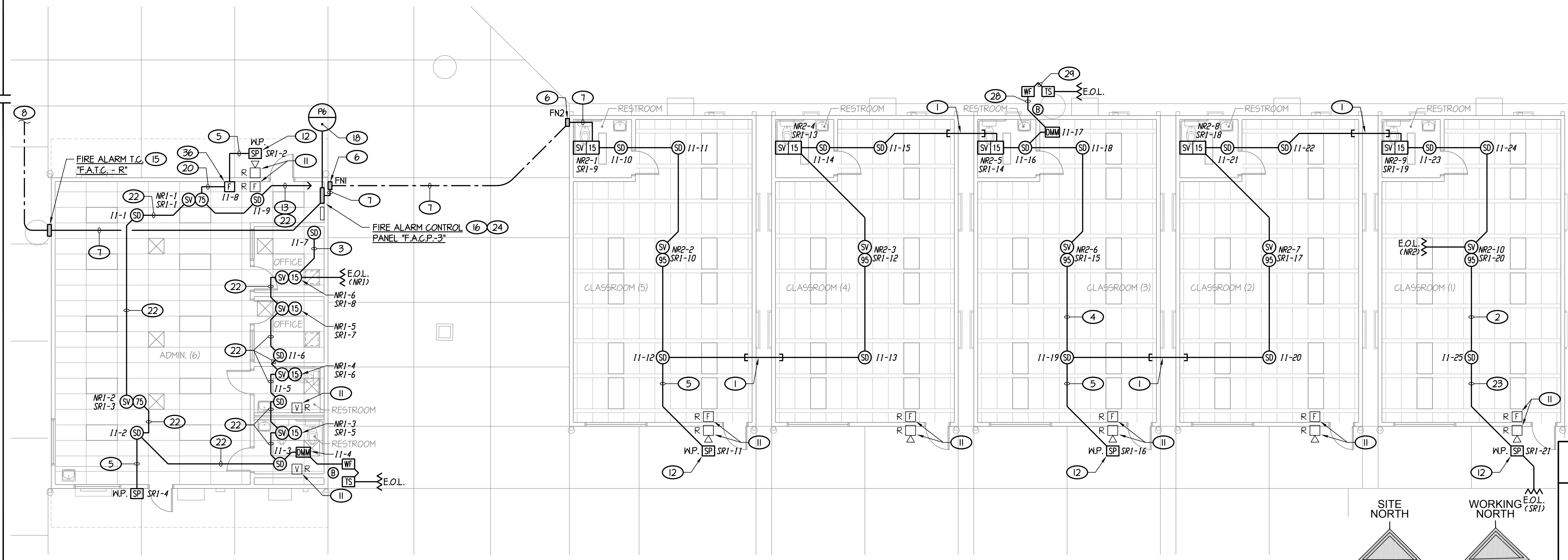
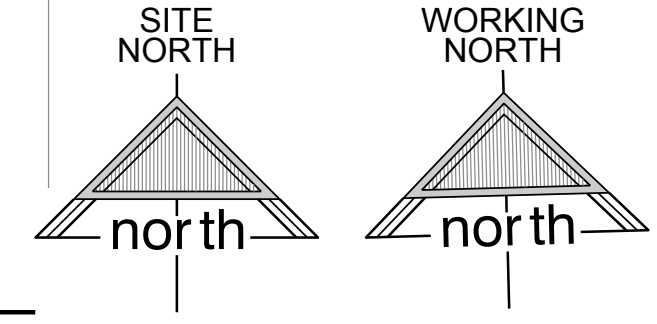
NOTES (THIS SHEET ONLY):

- 1 SPAN BETWEEN BUILDING PER DETAIL #1/E3.2.
- 2 3/4" - ONE "F5" CABLE, ONE "FA" CABLE.
- 3 1/2" - ONE "FA" CABLE.
- 4 1" - ONE "F5" CABLE, ONE "FA" CABLE 2 #12. TYPICAL, U.O.N.
- 5 3/4" - TWO "F5" CABLES.
- 6 PROVIDE A "FIRE ALARM" PULL ENCLOSURE PER DETAIL #2/E3.2. SURFACE MOUNT HIGH ON WALL NEAR ROOF. ROUTE CONDUIT OUT THE BACK OF THE PULL CAN, PUNCH THRU EXTERIOR WALL STRUCTURE AND CONTINUE THRU ACCESSIBLE ATTIC SPACE ABOVE T-BAR CEILING AS SHOWN. SEAL AROUND CONDUIT PENETRATION AS REQUIRED TO PREVENT LEAKAGE INTO WALL STRUCTURE.
- 7 1 1/4" - ONE "SFA" CABLE, ONE "F55" CABLE (5PKR CKT #5R1), 2 #12 (N.A.C. "NR2").
- 8 SEE SITE ELECTRICAL PLAN, SHEET ES1.I FOR CONTINUATION.
- 9 CONNECT EXISTING PANEL PROVIDED WITH RELOCATABLE BUILDING, TYPICAL.
- 10 FEEDER(S) PER ONE LINE DIAGRAM #1/E3.1.
- 11 DISCONNECT AND REMOVE EXISTING DEVICE AND RETURN TO THE OWNER.
- 12 INSTALL NEW EXTERIOR SPEAKER WHERE EXTERIOR HORN WAS REMOVED AND CONNECT AS SHOWN.
- 13 TO FIRE ALARM CONTROL PANEL "F.A.C.P.-3"
- 14 MOUNT PER DETAIL #3/E2.3.
- 15 MOUNT PER DETAIL #4/E2.3.
- 16 1" - TWO "F5" CABLES, ONE "FA" CABLE.
- 17 PROVIDE NEW 20 AMP, 1-POLE CIRCUIT BREAKER WITH LOCK ACCESSORY.
- 18 CONNECT TO NEW 20 AMP, 1-POLE CIRCUIT BREAKER IN LISTED PANEL.
- 19 MOUNT PER DETAIL #3/E3.2.
- 20 INSTALL NEW PULL STATION WHERE EXISTING PULL STATION WAS REMOVED AND CONNECT AS SHOWN.
- 21 PROVIDE A NEW 20A, 1-POLE CIRCUIT BREAKER IN PANEL.
- 22 1 1/4" - TWO "F5" CABLES, 2 #12, ONE "FA" CABLE.
- 23 1/2" - ONE "F5" CABLE.
- 24 FIRE ALARM CONTROL PANEL IS NOT IN EGRESS PATHWAY. MICROPHONE ACCESSIBILITY COMPLIES WITH C.B.C. 11B-305 AND 11B-308.
- 25 PROVIDE LINE VOLTAGE OCCUPANCY SENSOR. LUTRON #MS-A102-WH OR EQUAL.
- 26 WORK SHOWN AT THIS TOILET IS TYPICAL WORK FOR ALL TOILET ROOMS #1 THROUGH #5.
- 27 CONNECT ELECTRIC FIRE BELL, 120V.
- 28 3/4" - 4 #14.
- 29 3/4" - 2 #14.
- 30 PROVIDE L.C.A.D. BLUE BOX LT #GRI404-5MNEI ENCLOSURE WITH #GRI404-4NOL-DTC-DV-D14 INTERIOR. PROVIDE PHOTOCELL #PCCELL2W0BB
- 31 SEAL AROUND CONDUIT PENETRATION TO PREVENT LEAKS INTO WALL STRUCTURE.
- 32 PROVIDE ONE 1" FOR ROUTING OF EXTERIOR LIGHTING CIRCUITS AND ONE SPARE 1".
- 33 CONNECT TO 20 AMP, 1-POLE CIRCUIT BREAKER IN LISTED PANEL PER ONE LINE DIAGRAM #1/E3.1.
- 34 RUN CONCEALED IN ACCESSIBLE ATTIC SPACE, U.O.N.



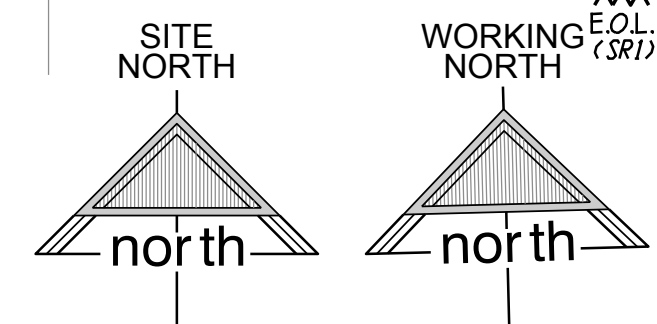
POWER PLAN

1/8" = 1'-0"



FIRE ALARM PLAN

1/8" = 1'-0"



**COMPLETE AUTOMATIC FIRE ALARM SYSTEM
 PLAN SUBMITTAL**

THE FIRE ALARM SYSTEM SHOWN ON THESE PLANS HAS BEEN SUBMITTED AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT. ANY SUBSTITUTION OF THE FIRE ALARM SYSTEM SHALL BE RESUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL PAY ANY ADDITIONAL FEES THAT ARE INCURRED DUE TO THIS SUBSTITUTION.

THE FIRE ALARM SYSTEM SHALL BE A TOTAL (COMPLETE) AUTOMATIC SMOKE DETECTION SYSTEM PER C.F.C. SECTION 907.2.3.6, AND SHALL COVER EVERY ROOM AND/OR AREA. UPON THE ACTIVATION OF ANY INITIATION DEVICE THE FIRE ALARM SYSTEM SHALL ALERT ALL OCCUPANTS AND TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION (C.F.C. SECTION 907.2.3.5).



Rose Sing and Associates, Inc.
 Electrical Consultants
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 Visalia, California 93292-6705

REVISIONS

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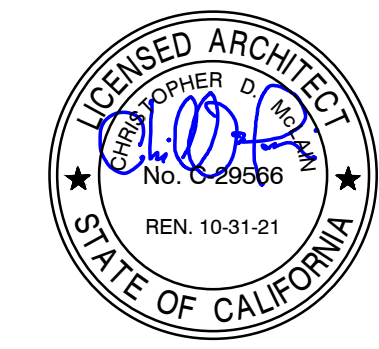
TITLE
 POWER AND
 FIRE ALARM
 PLANS

E1.1

PROJECT 1901

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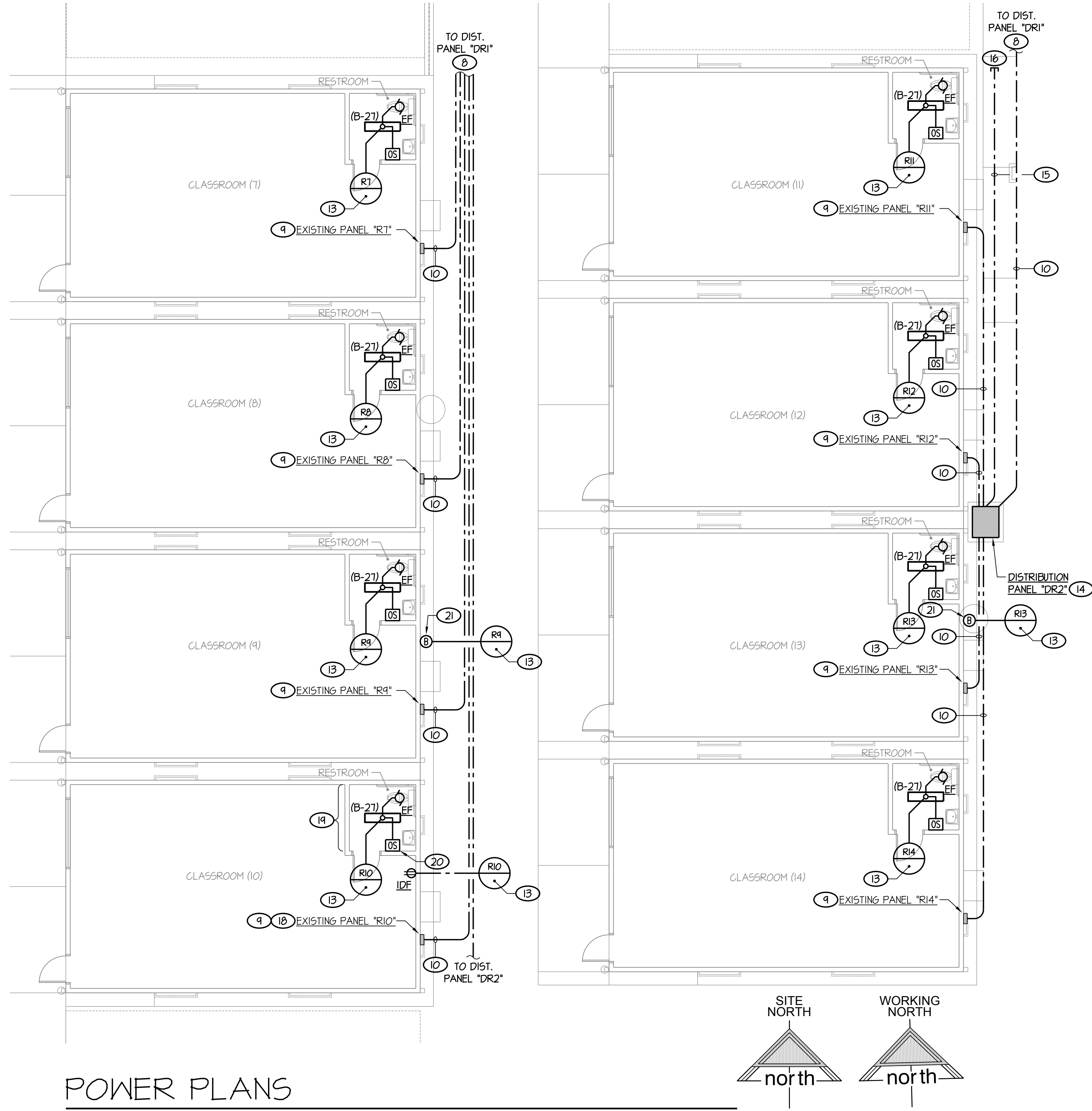
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DATE: 02/13/2020



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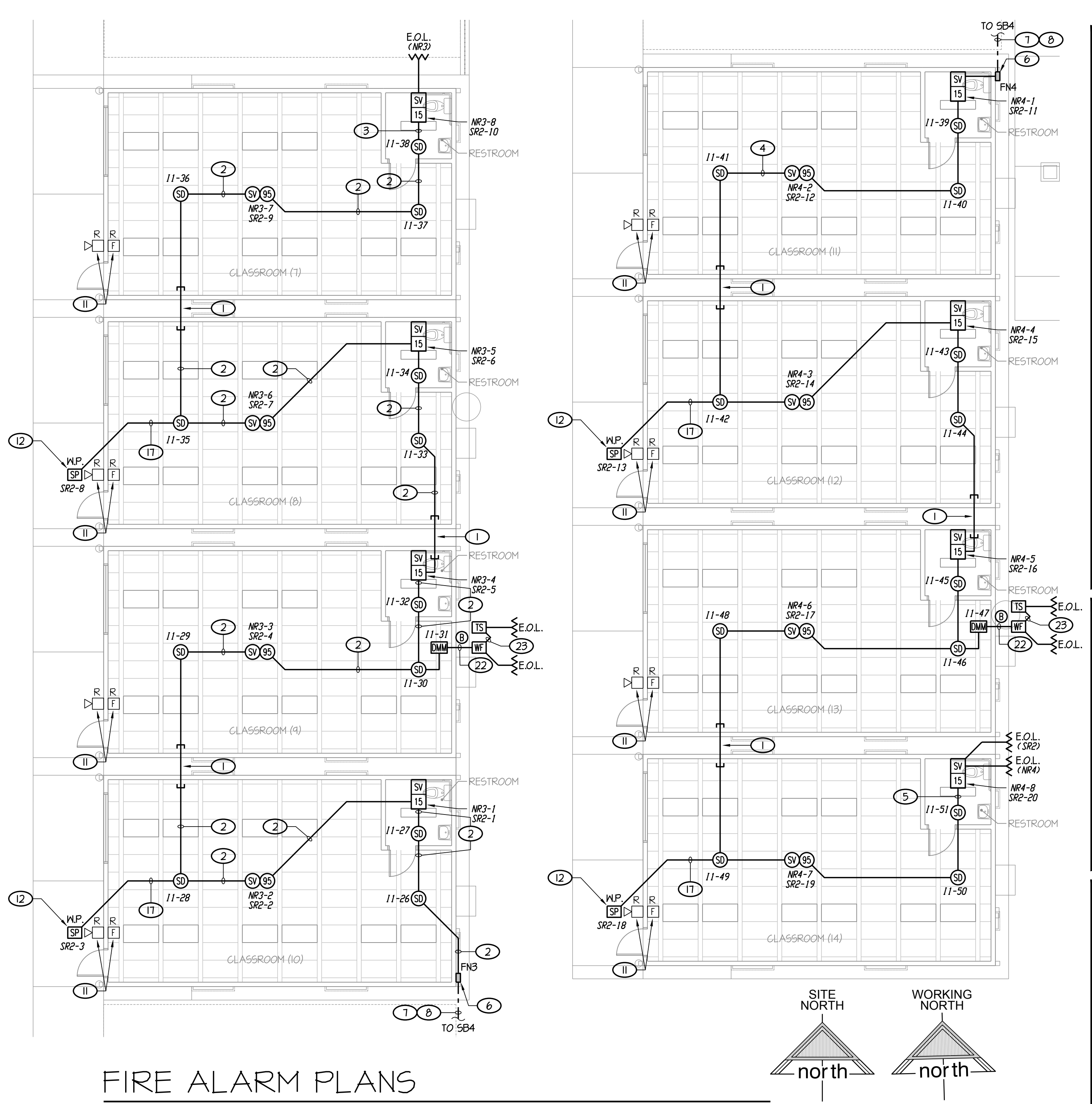
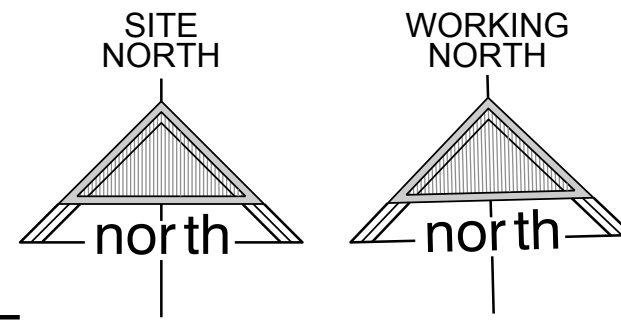
NOTES (THIS SHEET ONLY):

- 1 SPAN BETWEEN BUILDING PER DETAIL #1/E3.2.
- 2 1" - TWO "F5" CABLES, ONE "FA" CABLE, 2 #12.
- 3 1" - TWO "F5" CABLES, 2 #12.
- 4 1" - ONE "F5" CABLE, ONE "FA" CABLE 2 #12. TYPICAL, U.O.N.
- 5 1/2" - ONE "F5" CABLE.
- 6 PROVIDE A "FIRE ALARM" PULL ENCLOSURE PER DETAIL #2/E3.2. SURFACE MOUNT HIGH ON WALL NEAR ROOF. ROUTE CONDUIT OUT THE BACK OF THE PULL CAN, PUNCH THRU EXTERIOR WALL STRUCTURE AND CONTINUE THRU ACCESSIBLE ATTIC SPACE ABOVE T-BAR CEILING AS SHOWN. SEAL AROUND CONDUIT PENETRATION AS REQUIRED TO PREVENT LEAKAGE INTO WALL STRUCTURE.
- 7 1 1/4" - ONE "SFA" CABLE, ONE "F55" CABLE (SPKR CKT #SR2), 2 #10 (N.A.C. "NR3").
- 8 SEE SITE ELECTRICAL PLAN, SHEET ES11 FOR CONTINUATION.
- 9 CONNECT EXISTING PANEL PROVIDED WITH RELOCATABLE BUILDING.
- 10 FEEDER(S) PER ONE LINE DIAGRAM #1/E3.1.
- 11 DISCONNECT AND REMOVE EXISTING DEVICE AND RETURN TO THE OWNER.
- 12 INSTALL NEW EXTERIOR SPEAKER WHERE EXTERIOR HORN WAS REMOVED AND CONNECT AS SHOWN.
- 13 CONNECT TO THE NEW 20A, 1-POLE CIRCUIT BREAKER IN LISTED PANEL.
- 14 MOUNT PER DETAIL #3/E3.2.
- 15 SPARE CONDUIT PER ONE LINE DIAGRAM #1/E3.1.
- 16 STUB OUT TO THIS LOCATION AND CAP FOR FUTURE USE.
- 17 3/4" - TWO "F5" CABLES.
- 18 PROVIDE A NEW 20A, 1-POLE CIRCUIT BREAKER IN PANEL.
- 19 WORK SHOWN AT THIS TOILET IS TYPICAL WORK FOR ALL TOILETS IN ROC THROUGH #14.
- 20 PROVIDE LINE VOLTAGE OCCUPANCY SENSOR. LUTRON #MS-A102-WH OR EQUAL.
- 21 CONNECT ELECTRIC FIRE ALARM BELL, 120V.
- 22 3/4" - 4 #14.
- 23 3/4" - 2 #14.



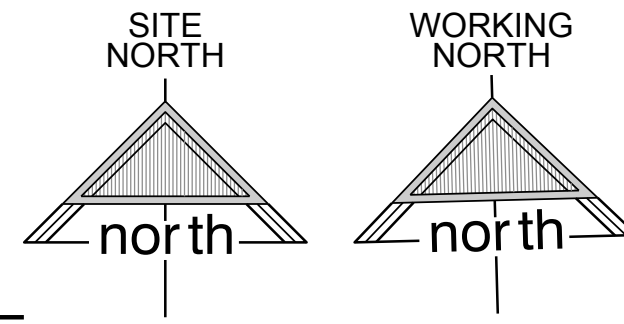
POWER PLANS

1/8" = 1'-0"



FIRE ALARM PLANS

1/8" = 1'-0"



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COMPLETE AUTOMATIC FIRE ALARM SYSTEM
PLAN SUBMITTAL

THE FIRE ALARM SYSTEM SHOWN ON THESE PLANS HAS BEEN SUBMITTED AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT. ANY SUBSTITUTION OF THE FIRE ALARM SYSTEM SHALL BE RESUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL PAY ANY ADDITIONAL FEES THAT ARE INCURRED DUE TO THIS SUBSTITUTION.

THE FIRE ALARM SYSTEM SHALL BE A TOTAL (COMPLETE) AUTOMATIC SMOKE DETECTION SYSTEM, PER C.F.C. SECTION 907.2.3.6, AND SHALL COVER EVERY ROOM AND/OR AREA. UPON THE ACTIVATION OF ANY INITIATION DEVICE THE FIRE ALARM SYSTEM SHALL ALERT ALL OCCUPANTS AND TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION (C.F.C. SECTION 907.2.3.5).

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TITLE
POWER AND
FIRE ALARM
PLANS

E1.2

PROJECT 1901

FIRE ALARM GENERAL NOTES

- SMOKE DETECTORS SHALL BE INSTALLED 3' AWAY FROM SUPPLY AND RETURN AIR REGISTERS.
- FINAL FIRE ALARM TEST OF ALL DEVICES SHALL BE WITNESSED BY THE PROJECT INSPECTOR. TEST SHALL INCLUDE ALL INFORMATION PER NFPA 12 14.6.2.4 AND FIGURE 1.8.2(a) AND READ OUT VERIFICATION FORM FROM CENTER STATION.
- UNDERGROUND AND EXTERIOR CONDUITS WILL HAVE WATER-TIGHT FITTINGS. (C.F.C. 10.11 AND 300.6)
- AUDIBLE DEVICE(S) SHALL BE AT LEAST 15 dBA ABOVE AVERAGE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75 dBA AT 10' OR MORE THAN 110 dBA IN TOTAL, THROUGHOUT (NFPA 12 18.4, AND C.F.C. 9015.2)
- FIRE ALARM AUDIBLE DEVICES SHALL SOUND THE TEMPORAL PATTERN, CODE 3 AND ANY ADDITIONAL EMERGENCY VOICE MESSAGES. CARBON MONOXIDE DETECTORS SHALL SOUND THE TEMPORAL PATTERN, CODE 4.
- VISUAL DEVICES SHALL NOT EXCEED TWO FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN ONE FLASH PER SECOND (NFPA 12 18.5.3.1).
- PROVIDE AN ENGRAVED NAMEPLATE INDICATING THE D.S.A. APPLICATION NUMBER, FILE NUMBER AND DATE OF INSTALLATION AT THE FIRE ALARM CONTROL PANEL "FACP", THE EMERGENCY VOICE EVACUATION FIRE ALARM CONTROL PANEL "EVFACP", AND EACH FIRE ALARM POWER EXPANDER/AMPLIFIER PANEL "FAXP".
 - THE PRIMARY POWER SUPPLY TO THE FIRE ALARM CONTROL PANEL "FACP", THE EMERGENCY VOICE EVACUATION FIRE ALARM CONTROL PANEL "EVFACP", AND EACH FIRE ALARM POWER EXPANDER/AMPLIFIER PANEL "FAXP", SHALL BE IN ACCORDANCE WITH NFPA 12 10.6.5 AND AS FOLLOWS:
 - THE CIRCUIT BREAKER FEEDING THE RESPECTIVE PANEL SHALL BE LOCATED IN A LOCKED ROOM OR BEHIND A LOCKABLE DOOR AND BE READILY ACCESSIBLE TO AUTHORIZED PERSONNEL ONLY. PAINT HANDLE OR LOCK ON ACCESSORY RED.
 - THE CIRCUIT BREAKER SHALL BE EQUIPPED WITH A LOCK-ON ACCESSORY.
 - THE CIRCUIT BREAKER SHALL HAVE AN ENGRAVED NAMEPLATE THAT IDENTIFIES IT AS A "FIRE ALARM CIRCUIT". THIS ENGRAVED NAMEPLATE SHALL HAVE WHITE LETTERS ON A RED BACKGROUND. MOUNT ONTO THE INTERIOR TRIM AND LOCATE ADJACENT TO CIRCUIT BREAKER WHERE POSSIBLE.
 - THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL PANEL "FACP", THE EMERGENCY VOICE EVACUATION FIRE ALARM CONTROL PANEL "EVFACP", AND EACH FIRE ALARM POWER EXPANDER/AMPLIFIER PANEL "FAXP". PROVIDE AN ENGRAVED NAMEPLATE (WHITE LETTERS ON A RED BACKGROUND) WHICH INDICATES THIS.
 - ALL ENGRAVED NAMEPLATES SHALL BE ATTACHED TO THE FRONT OF THE RESPECTIVE ENCLOSURE WITH SCREWS OR RIVETS.
- PROVIDE A COPY OF THE BATTERY CALCULATION AT THE FIRE ALARM CONTROL PANEL "FACP", THE EMERGENCY VOICE EVACUATION FIRE ALARM CONTROL PANEL "EVFACP", AND EACH FIRE ALARM POWER EXPANDER/AMPLIFIER PANEL "FAXP". BATTERY CALCULATION SHALL CONTAIN INFORMATION AS NOTED ON SCHEDULES AND BE PLASTIC LAMINATED. MOUNT ONTO INSIDE FACE OF DOOR.
- MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES OR GROUPS OF SYNCHRONIZED APPLIANCES IN THE SAME ROOM OR ADJACENT SPACE WITHIN THE FIELD OF VIEW SHALL FLASH IN SYNCHRONIZATION. NFPA 12 18.5.5.4.2(3).
- THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL'S REGULATIONS (C.F.C. 901.8).

FIRE ALARM SYSTEM EQUIPMENT SPECIFICATIONS

SYMBOL	DESCRIPTION	MODEL #	C5FM LISTING #	BACKBOX REQUIREMENTS (B)	MOUNTING HEIGHT (TO CENTER U.O.N.)
FACP	FIRE ALARM CONTROL PANEL	GAMEWELL/FCI #E3BDC/NC/1 E3INXG/PLATE/E3ID2C	7165-1703:0125	INCLUDED	60", U.O.N.
	FIRE ALARM ANUNCIATOR	GAMEWELL/FCI #LCD-E3	7165-1703:0125		
	DIGITAL ALARM COMMUNICATOR/ TRANSMITTER	GAMEWELL/FCI #DACT-E3	7165-1703:0125		
	POWER SUPPLY	GAMEWELL/FCI #PM-9	7165-1703:0125		
	MOTHER BOARD	GAMEWELL/FCI #MI-MB-E3	7165-1703:0125		
	VOICE GATEWAY	GAMEWELL/FCI #NI-VGX	7165-1703:0125		
	AMPLIFIER	GAMEWELL/FCI #AM-50-10	7165-1703:0125		
MICROPHONE	GAMEWELL/FCI #NCC-MIC	7165-1703:0125			
F	ADDRESSABLE MANUAL PULL STATION	GAMEWELL/F.C.I. #MS-TAF	7150-1703:0119	4" 5Q. x 2 1/8" DP. OUTLET BOX	PER DETAIL #1/E2.3
SD	ADDRESSABLE PHOTOELECTRONIC SMOKE DETECTOR	GAMEWELL/F.C.I. #ASD-PL2F/B2IOLP	7212-1703:0121 7300-1653:0104	3.5" OCTAGON BOX OR 4" OCTAGON BOX WITH RAISED ROUND COVER	PER DETAIL #1/E2.3
MU	ADDRESSABLE MONITOR MODULE	GAMEWELL/F.C.I. #AMM-4F	7300-1103:0102	4" 5Q. x 2 1/8" DP. OUTLET BOX	---
MM	DUAL MONITOR MODULE	GAMEWELL/F.C.I. #AMM-2IF	7300-1103:0107	---	---
SV 15	SPEAKER/STROBE, WALL MOUNTED (CANDELA RATING AS NOTED)	SYSTEM SENSOR #SPSRL	7320-1653:0505	4" 5Q. x 2 1/8" DP. OUTLET BOX WITH 1 1/2" DP. BOX EXTENSION	PER DETAIL #1/E2.3
SV 15 75, 95	SPEAKER/STROBE, CEILING MOUNTED (CANDELA RATING AS NOTED)	SYSTEM SENSOR #SPSCL	7320-1653:0505	4" 5Q. x 2 1/8" DP. OUTLET BOX WITH 1 1/2" DP. BOX EXTENSION	PER DETAIL #1/E2.3
SP	INTERIOR SPEAKER, WALL MOUNTED	SYSTEM SENSOR #SPRL	7320-1653:0201	4" 5Q. x 2 1/8" DP. OUTLET BOX WITH 1 1/2" DP. BOX EXTENSION	PER DETAIL #1/E2.3
SP W.P.	EXTERIOR SPEAKER, WALL MOUNTED	SYSTEM SENSOR #SPRCK-R/PMMB	7320-1653:0201	PROVIDE WEATHERPROOF PLATE FOR SEMI-FLUSH MOUNTING	---
E.O.L.	END OF LINE RESISTOR	---	---	---	---
FA	ADDRESSABLE FIRE ALARM CABLE (INDOORS)	WEST PENN #D440	7161-0854:0101	---	---
SFA	ADDRESSABLE FIRE ALARM CABLE (OUTDOORS)	WEST PENN #AQ225	7161-0854:0101	---	---
F5	FIRE ALARM SPEAKER CABLE	WEST PENN #9445	7161-0854:0101	---	---
F55	FIRE ALARM SPEAKER SITE CABLE	WEST PENN #AQ225	7161-0854:0101	---	---

NOTES (FIRE ALARM SYSTEM EQUIPMENT SPECIFICATIONS):

- END OF LINE RESISTORS FOR NOTIFICATION APPLIANCE CIRCUITS SHALL BE 3.9K OHM, 1/2 WATT.
- VERIFY BACKBOX REQUIREMENTS WITH FIRE ALARM SYSTEM EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- END OF LINE RESISTORS FOR CONVENTIONAL DEVICES CONNECTED TO ADDRESSABLE MONITOR MODULE DEVICES AND/OR ADDRESSABLE CONTROL MODULES SHALL BE 3.9K OHM, 1/2 WATT.

FIRE ALARM SYSTEM SEQUENCE OF OPERATIONS

RESULT OF OPERATION	TYPE OF INITIATION					
	MANUAL PULL STATION	AREA SMOKE DETECTOR (I)	LOSS OF POWER	SHORT CIRCUIT/GROUND FAULT	FIRE SPRINKLER RISER WATER FLOW SWITCH	FIRE SPRINKLER RISER TAMPER SWITCH
ANNUNCIATE ALARM AT FIRE ALARM CONTROL PANEL	YES	YES	---	---	YES	---
ANNUNCIATE TROUBLE AT FIRE ALARM CONTROL PANEL	---	---	YES	YES	---	---
ANNUNCIATE SUPERVISORY AT FIRE ALARM CONTROL PANEL	---	---	---	---	---	YES
ACTIVATE ALL AUDIBLE AND VISUAL ALARM SIGNALS	YES	YES	---	---	YES	---
TRANSFER TO BATTERY BACK-UP	---	---	YES	---	---	---
ANNUNCIATE AT 24 HR. ATTENDED LOCATION	YES	YES	YES	YES	YES	YES
CENTRAL STATION FOR MONITORING (ALARM)	YES	YES	---	---	YES	---
CENTRAL STATION FOR MONITORING (TROUBLE)	---	---	YES	YES	---	---
CENTRAL STATION FOR MONITORING (SUPERVISORY)	---	---	---	---	---	YES

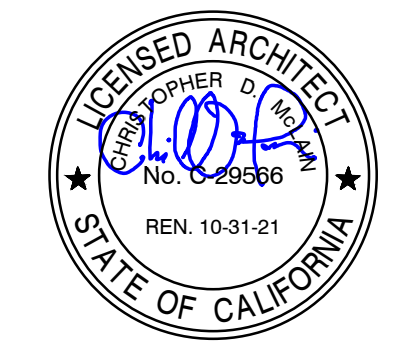
FIRE ALARM LEVEL OF AUDIBILITY

ALARM INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL BE SO LOCATED AND UNOBSTRUCTED AS TO CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15db ABOVE AMBIENT NOISE LEVELS MEASURED FOUR FEET ABOVE THE FLOOR INSIDE BUILDING.

AMBIENT NOISE LEVELS SHALL BE CONSTRUED TO MEAN THAT WHICH CAN NORMALLY BE EXPECTED TO EXIST WHEN THE FACILITY, BUILDING, ROOM OR AREA IS FUNCTIONING UNDER NORMAL OPERATIVE OR WORKING CONDITIONS.

THE FIRE ALARM SIGNAL SHALL COMPLY WITH THE CALIFORNIA EDUCATION CODE, SECTIONS 32000 AND 32004, AND BE A TEMPORAL PATTERN, CODE 3 AND THEN FOLLOWED BY ANY VOICE MESSAGES.

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SCHOOLS FIRE ALARM REQUIREMENTS

THE FIRE ALARM SYSTEM SHALL CONFORM TO CALIFORNIA BUILDING CODE, SECTION 901.2.3, CALIFORNIA ELECTRICAL CODE, ARTICLE 160 AND CALIFORNIA FIRE CODE, CHAPTER 9, SECTION 901.

UPON COMPLETION OF THE INSTALLATION OF THE FIRE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING FIRE AGENCY, NFPA 12. IF TESTING RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET 15db OVER AMBIENT NOISE LEVELS, ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY THE ENFORCING FIRE AGENCY.

FIRE ALARM SYSTEM CERTIFICATION AND DESCRIPTION SHALL BE PROVIDED FOR TESTING AND A PLASTIC LAMINATED COPY SHALL REMAIN (WITH INSTRUCTIONS) AT THE FIRE ALARM CONTROL PANEL PER NFPA 12.

THE FIRE ALARM "CERTIFICATE OF COMPLETION" FORM IN NFPA 12 SHALL BE COMPLETED, SIGNED AND SUBMITTED.

SCOPE OF WORK

- PROVIDE A NEW AUTOMATIC FIRE ALARM SYSTEM WITH VOICE EVACUATION
- PROVIDE A NEW FIRE ALARM CONTROL PANEL, FIRE ALARM TERMINAL CABINET, ADDRESSABLE INITIATION DEVICES, NOTIFICATION APPLIANCES, CONDUIT, CABLING AND CONDUCTORS AS SHOWN ON THE DRAWINGS.

FIRE ALARM MONITORING NOTE

AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 12. THE SUPERVISING STATION SHALL BE LISTED AS EITHER ULFX (CENTRAL STATION) OR ULUS (REMOTE) BY UNDERWRITERS LABORATORY (UL) OR SHALL COMPLY WITH THE REQUIREMENTS OF STANDARD FM 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.

FIRE ALARM RECORD DOCUMENTS CABINET NFPA 12, 7.1.2

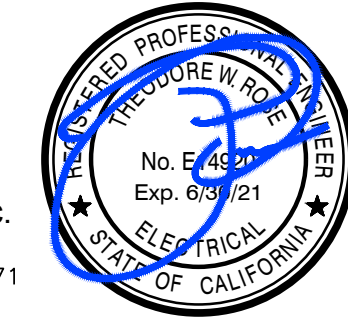
- EVERY NEW FIRE ALARM SYSTEM SHALL PROVIDE A DOCUMENTATION CABINET, INSTALLED AT THE SYSTEM CONTROL PANEL OR OTHER APPROVED LOCATION.
- THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED, "SYSTEM RECORD DOCUMENTS".
- ALL RECORD AND TESTING DOCUMENTATION SHALL BE STORED IN THE CABINET.
- CONTENTS SHALL BE ACCESSIBLE BY AUTHORIZED PERSONNEL ONLY.
- WHERE CABINET IS INSTALLED IN A LOCATION OTHER THAN THE SYSTEM CONTROL UNIT, ITS LOCATION SHALL BE IDENTIFIED AT THE SYSTEM CONTROL UNIT.

SYSTEM DOCUMENTS AS APPLICABLE:

- RECORD DRAWINGS/AS-BUILTS.
- EQUIPMENT CUT SHEETS AND CA 5FM LISTINGS.
- ALTERNATIVE MEANS AND METHODS.
- PERFORMANCE BASED DESIGN DOCUMENTATION (NFPA 12, 7.3.1).
- SYSTEM RECORD OF COMPLETION AND ANY SUPPLEMENTAL INSPECTION AND TESTING DOCUMENTATION (NFPA 12, 7.8.2).
- EMERGENCY RESPONSE PLAN (NFPA 12, 7.3.8).
- EVALUATION DOCUMENTATION (NFPA 12, 7.3.4).
- RISK ANALYSIS DOCUMENTATION (NFPA 12, 7.3.6).
- SOFTWARE AND FIRMWARE CONTROL DOCUMENTATION (NFPA 12, 23.2.2).

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COMPLETE AUTOMATIC FIRE ALARM SYSTEM PLAN SUBMITTAL

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THE FIRE ALARM SYSTEM SHALL BE A TOTAL (COMPLETE) AUTOMATIC HEAT (AT BUILDING #6 ONLY) AND SMOKE DETECTION SYSTEM, PER C.F.C. SECTION 901.2.3.6, AND SHALL COVER EVERY ROOM AND/OR AREA. UPON THE ACTIVATION OF ANY INITIATION DEVICE THE FIRE ALARM SYSTEM SHALL ALERT ALL OCCUPANTS AND TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION (C.F.C. SECTION 901.2.3.5).

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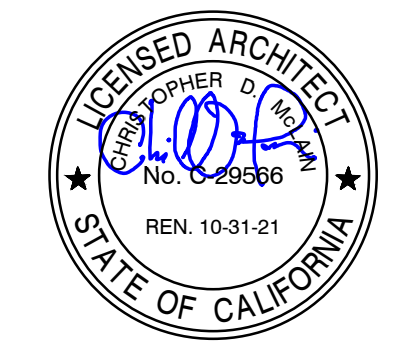
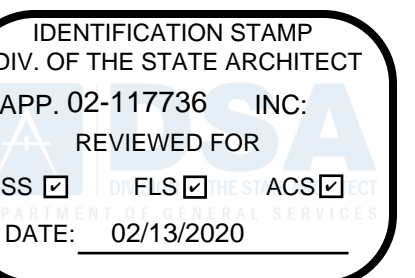
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FIRE ALARM SYSTEM
EQUIP. SPECS, CODES
AND NOTES

E2.1

PROJECT 1901

NOTES (THIS SHEET ONLY):

- 1 LENGTHS INDICATED WERE USED FOR CALCULATIONS/DESIGN PURPOSES ON AND BASED UPON THE "DIAGRAMMATIC" LAYOUT SHOWN ON THE DRAWINGS. LENGTHS SHALL NOT BE USED FOR BIDDING.
- 2 PROVIDE A COPY OF THE BATTERY CALCULATION FOR THE FIRE ALARM CONTROL PANEL "F.A.C.P.". THE BATTERY CALCULATION SHALL CONTAIN INFORMATION (AS NOTED ON THESE PLANS) AND BE PLASTIC LAMINATED. MOUNT ONTO INSIDE FACE OF PANEL DOOR.
- 3 REFER TO RESPECTIVE FIRE ALARM PLAN FOR CONDUIT AND CABLING/ CONDUCTOR REQUIREMENTS, TYPICAL.
- 4 CIRCUIT BREAKER SHALL BE EQUIPPED WITH A LOCK-ON ACCESSORY. PROVIDE AN ENGRAVED NAMEPLATE: "FIRE ALARM - LEAVE ON". NAMEPLATE SHALL HAVE WHITE LETTERS ON A RED BACKGROUND. PAINT LOCK-ON ACCESSORY "RED" IN COLOR.
- 5 1 1/4" - ONE "F55" CABLE, ONE "SFA" CABLE, 4 #10 (NACS "NR3" AND "NR4").
- 6 DENOTES END OF LINE RESISTOR ON NOTIFICATION APPLIANCE CIRCUIT. RESISTORS SUPPLIED WITH CONTROL/EXPANDER PANELS AS REQUIRED. LOCATE RESISTORS AT END OF LINE APPLIANCES (CLASS "B" WIRING). TYPICAL.
- 7 ONE SPARE 1 1/4".
- 8 ONE SPARE 1 1/2".
- 9 PER FIRE ALARM SYSTEM EQUIPMENT SPECIFICATIONS ON SHEET #E2.1.
- 10 NEW PULL BOX AT SOUTH EAST CORNER OF EXISTING MAIN BUILDING. SEE SHEET #E5.1 FOR LOCATION.
- 11 STUB UP ON BUILDING PER SITE ELECTRICAL PLAN.



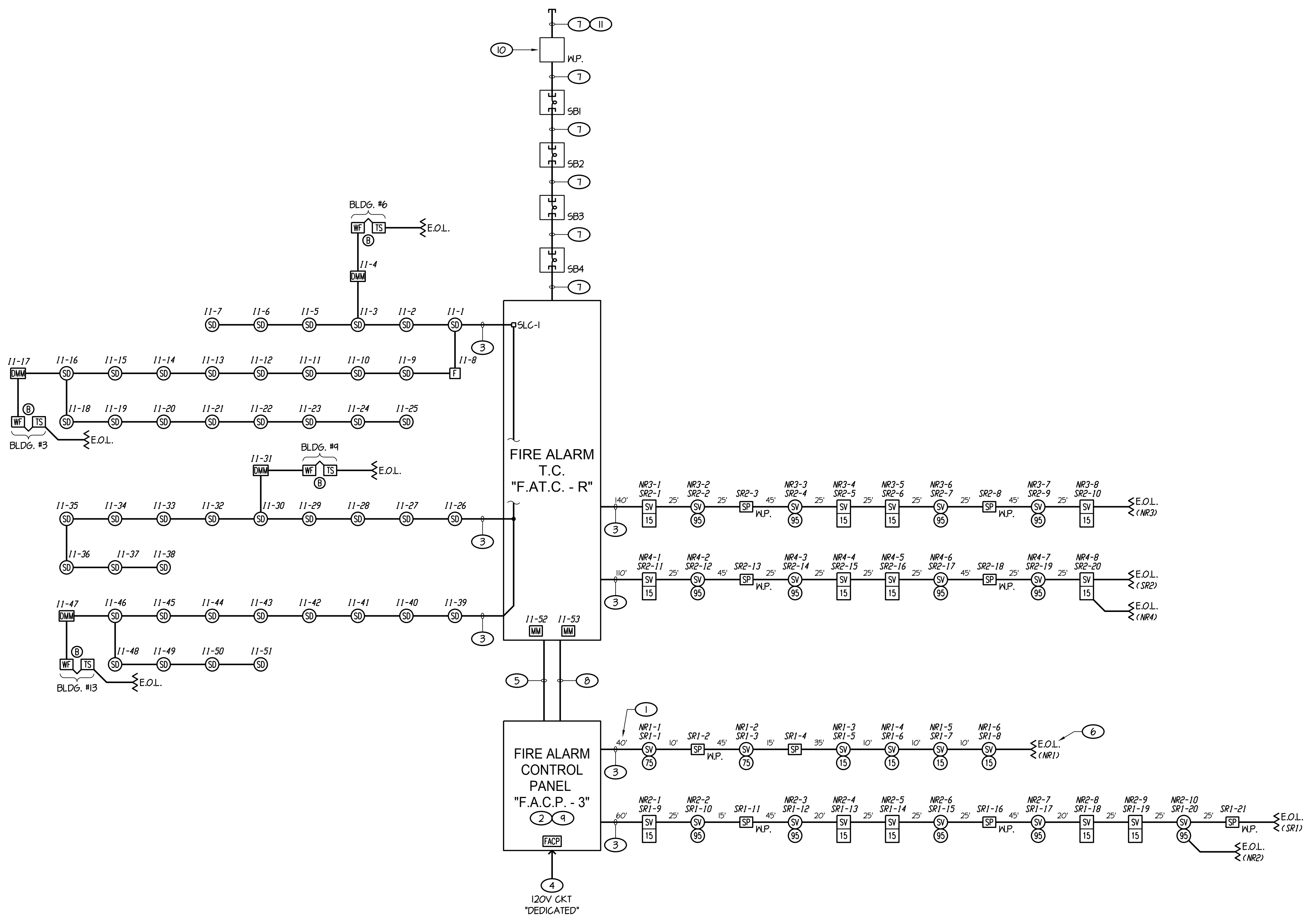
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TITLE
FIRE ALARM SYSTEM
 RISER DIAGRAM
E2.2
 PROJECT 1901



1 FIRE ALARM SYSTEM RISER DIAGRAM

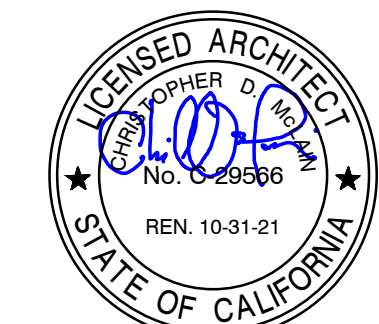
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TITLE
FIRE ALARM
DETAILS AND
CALCULATIONS

E2.3

PROJECT 1901

**NEW FIRE ALARM CONTROL PANEL "F.A.C.P. - 3"
BATTERY CALCULATION**

DESCRIPTION	QUANTITY	SUPV. CURRENT		ALARM CURRENT	
		EACH	SUB-TOTAL	EACH	SUB-TOTAL
FIRE ALARM EXPANDER PANEL	1	0.0175	0.0175	0.206	0.206
PULL STATION	1	0.00030	0.00030	0.007	0.007
SMOKE DETECTORS	46	0.0003	0.0138	0.0003	0.0138
MONITOR MODULES	2	0.000315	0.00075	0.005	0.01
DUAL MONITOR MODULES	4	0.0075	0.03	0.0051	0.0228
SPEAKER/15cd STROBE (WALL)	13	—	—	0.066	0.858
SPEAKER/15cd STROBE (CEILING)	4	—	—	0.066	0.264
SPEAKER/15cd STROBE (CEILING)	2	—	—	0.158	0.316
SPEAKER/15cd STROBE (CEILING)	13	—	—	0.181	2.353
TOTALS			0.16605		4.0506

TOTAL ALARM CURRENT OF 4.0506 x .25 (15 MINUTES) = 1.0126 A.H.
TOTAL SUPERVISORY CURRENT OF 0.16605 x 24 HOURS = 3.9852 A.H.
TOTAL AMP HOURS REQUIRED 4.9978 A.H.
x 1.2 SAFETY FACTOR
5.9973 A.H.

PROVIDE 26.0 AMP HOUR BATTERIES

(A) THE CURRENT VALUES LISTED ARE FOR THE STROBES ONLY. THE SPEAKER CURRENT IS INCLUDED IN THE VALUES LISTED UNDER THE DIGITAL AMPLIFIER.

VOLTAGE DROP CALCULATIONS (OHM'S LAW)

VOLTAGE DROP = 2 (DC RESISTANCE AT 75°C FROM TABLE 8, C.E.C.) (LENGTH OF CIRCUIT / 1000) (CURRENT)

PERCENT VOLTAGE DROP = (VOLTAGE DROP / NOMINAL VOLTAGE) x 100

I. NOTIFICATION APPLIANCE CIRCUIT "NR1":

SV : 4 x 0.066A = 0.264A
15
SV : 2 x 0.158A = 0.316A
75

VOLTAGE DROP = 2 (1.98) (175 / 1000) (0.58) = 0.402 V.D.
PERCENT VOLTAGE DROP = (0.402 / 24) x 100 = 1.68%

VOLTAGE DROP CALCULATIONS (OHM'S LAW)

VOLTAGE DROP = 2 (DC RESISTANCE AT 75°C FROM TABLE 8, C.E.C.) (LENGTH OF CIRCUIT / 1000) (CURRENT)

PERCENT VOLTAGE DROP = (VOLTAGE DROP / NOMINAL VOLTAGE) x 100

I. NOTIFICATION APPLIANCE CIRCUIT "NR3":

SV : 4 x 0.066A = 0.264A
15
SV : 4 x 0.181A = 0.724A
75

VOLTAGE DROP = 2 (1.98) (405 / 1000) (0.988) = 1.585 V.D.
PERCENT VOLTAGE DROP = (1.585 / 24) x 100 = 6.6%

VOLTAGE DROP CALCULATIONS (OHM'S LAW)

VOLTAGE DROP = 2 (DC RESISTANCE AT 75°C FROM TABLE 8, C.E.C.) (LENGTH OF CIRCUIT / 1000) (CURRENT)

PERCENT VOLTAGE DROP = (VOLTAGE DROP / NOMINAL VOLTAGE) x 100

I. NOTIFICATION APPLIANCE CIRCUIT "NR2":

SV : 5 x 0.066A = 0.33A
15
SV : 5 x 0.181A = 0.905A
95

VOLTAGE DROP = 2 (1.98) (380 / 1000) (1.235) = 1.858 V.D.
PERCENT VOLTAGE DROP = (1.858 / 24) x 100 = 7.7%

VOLTAGE DROP CALCULATIONS (OHM'S LAW)

VOLTAGE DROP = 2 (DC RESISTANCE AT 75°C FROM TABLE 8, C.E.C.) (LENGTH OF CIRCUIT / 1000) (CURRENT)

PERCENT VOLTAGE DROP = (VOLTAGE DROP / NOMINAL VOLTAGE) x 100

I. NOTIFICATION APPLIANCE CIRCUIT "NR4":

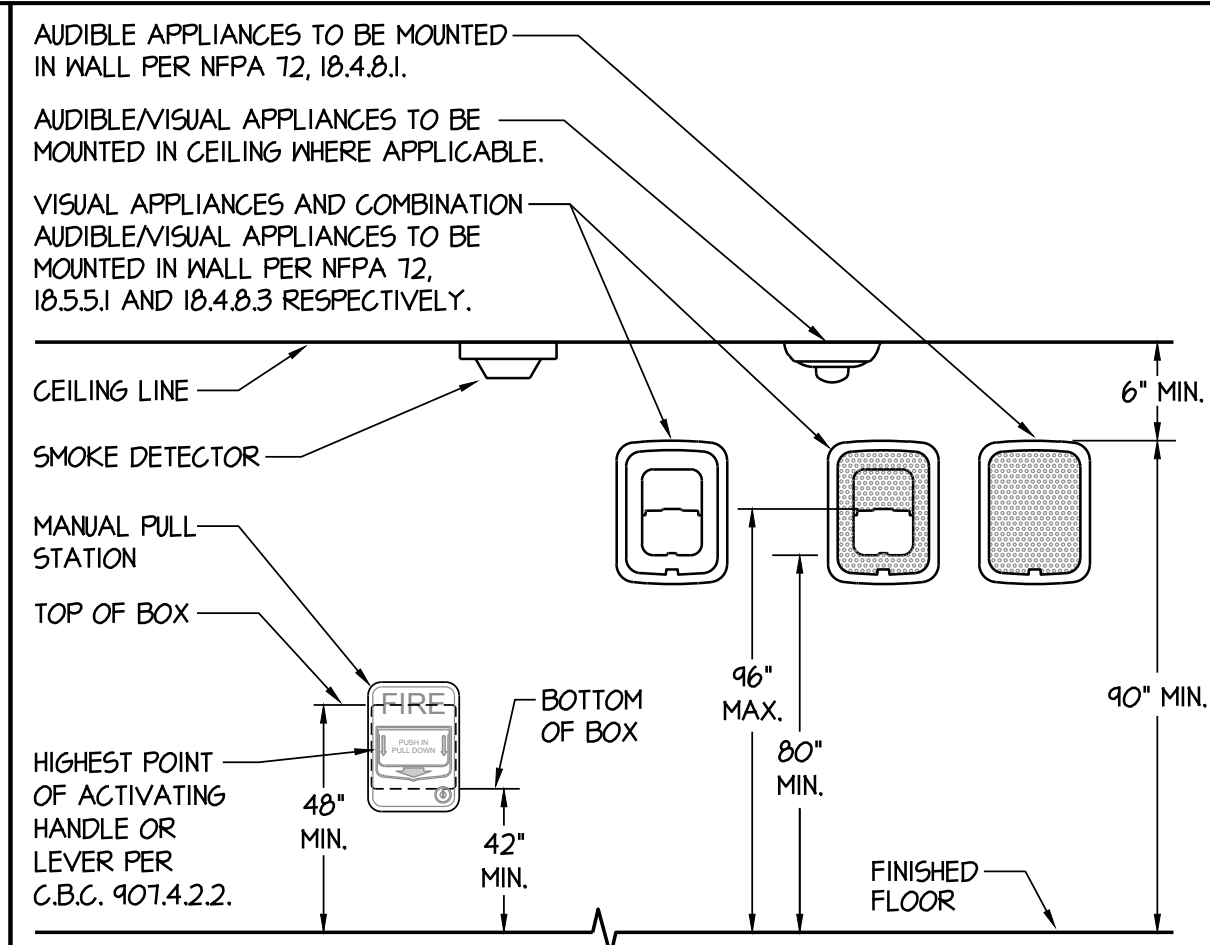
SV : 4 x 0.066A = 0.264A
15
SV : 4 x 0.181A = 0.724A
75

VOLTAGE DROP = 2 (1.98) (375 / 1000) (0.988) = 1.47 V.D.
PERCENT VOLTAGE DROP = (1.47 / 24) x 100 = 6.13%

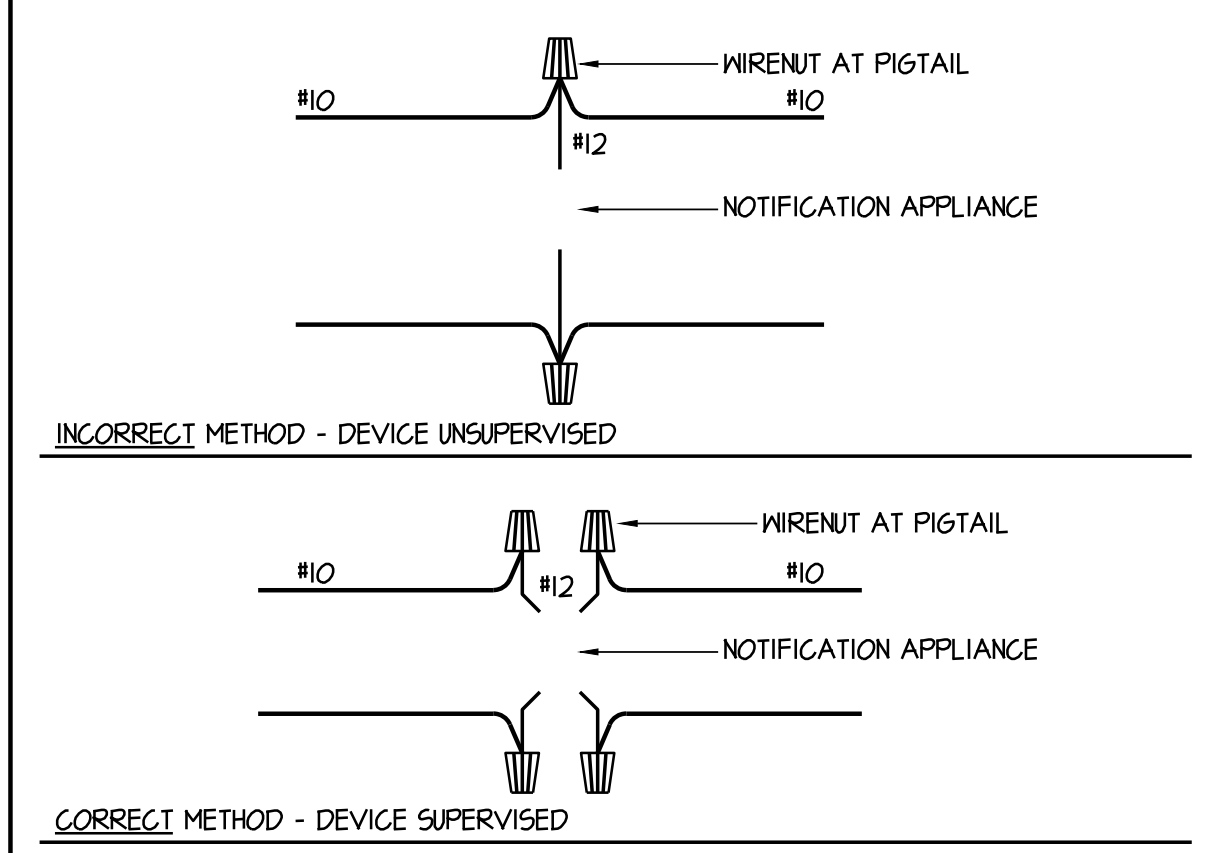
SPEAKER dB LOSS CALCULATION

SPEAKER CIRCUIT	SPEAKER VOLTAGE	WIRE SIZE	RESISTANCE PER FOOT	FEET REQUIRED ON CIRCUIT	WIRE RESISTANCE	TOTAL WATTAGE OF SPEAKERS ON CIRCUIT	SPEAKER CURRENT (AMPS)	RESISTANCE OF SPEAKER LOAD	WIRE SIZE	ACTUAL VOLTAGE AT SPEAKER LOAD	ACTUAL WATTS AT SPEAKER LOAD	dB LOSS
SR1	70	18	0.01278	555'	7.04	26	0.31	188.46	18	67.46105	24.1481213	-0.32
SR2	70	18	0.01278	780'	9.97	24	0.34	204.17	18	66.74137	21.8175115	-0.41

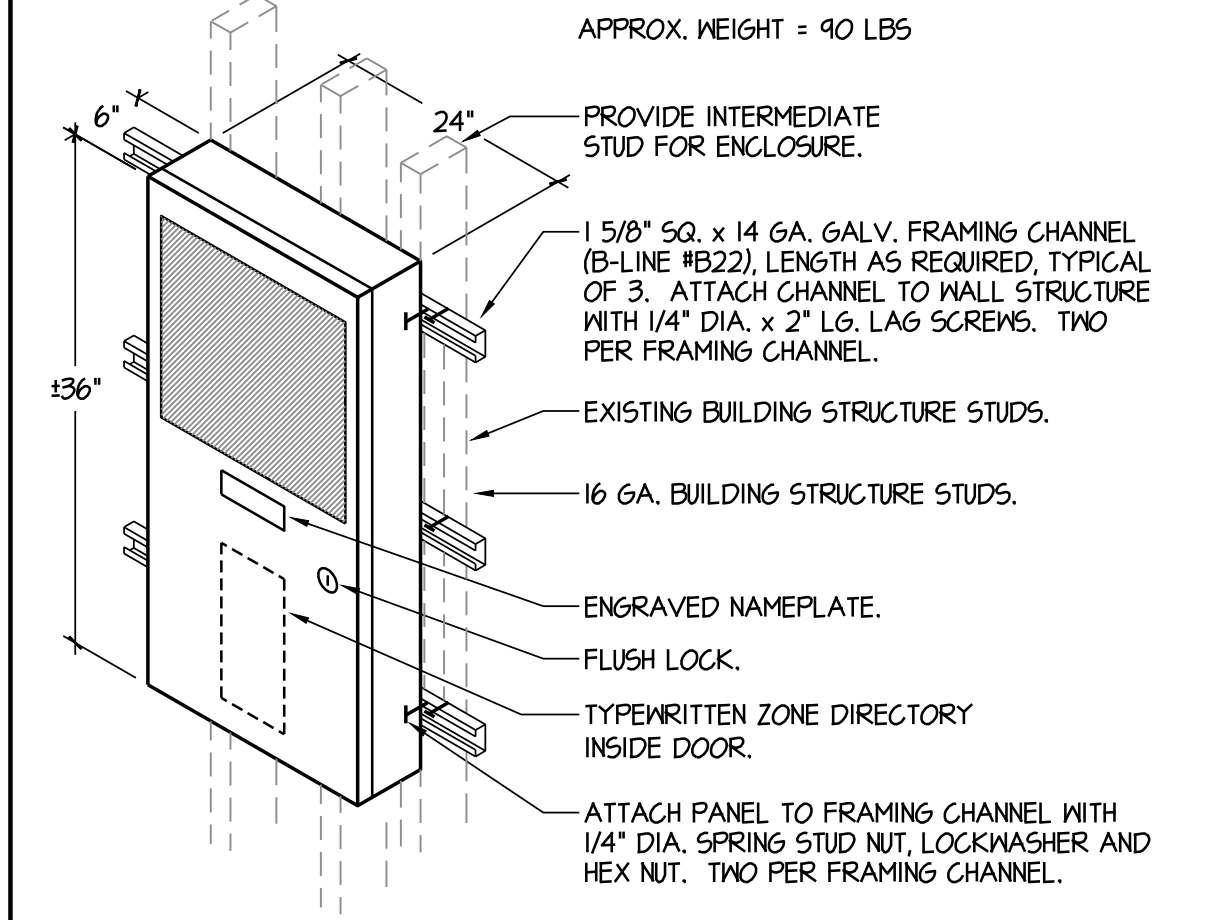
NOTE:
CALCULATION IS BASED ON EACH OF THE "INTERIOR" SPEAKERS TAPPED AT 1 WATT AND EACH OF THE "EXTERIOR" SPEAKERS TAPPED AT 2 WATTS.



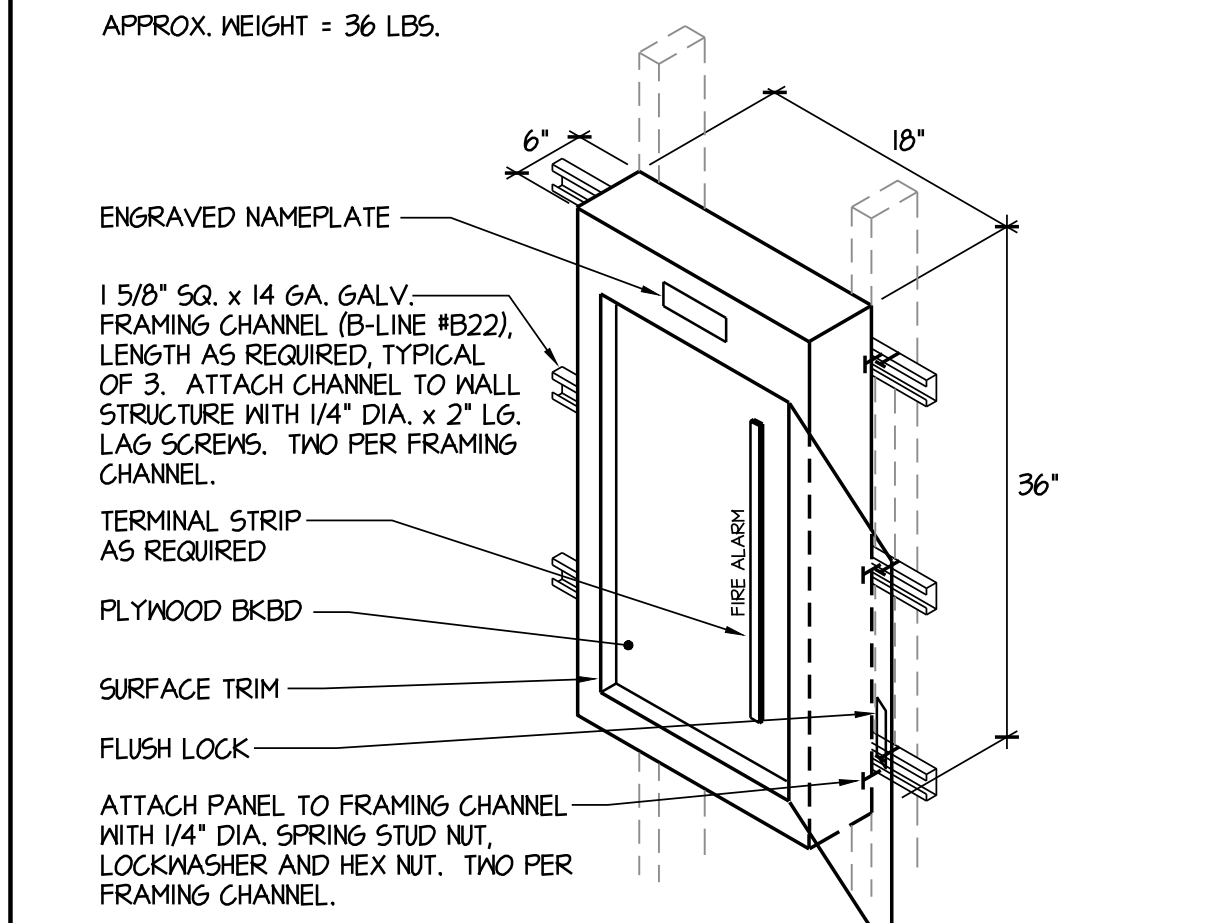
1 FIRE ALARM DEVICES ELEVATION NTS



2 PIGTAIL WIRING DETAIL NTS



3 FIRE ALARM CONTROL PANEL "F.A.C.P. - 3" MOUNTING NTS

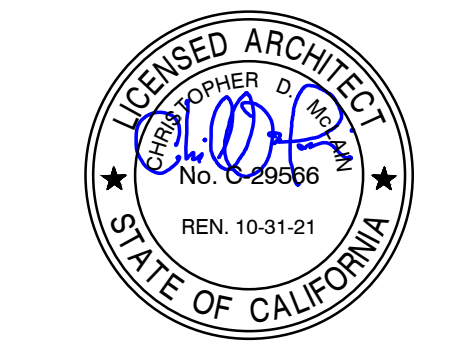
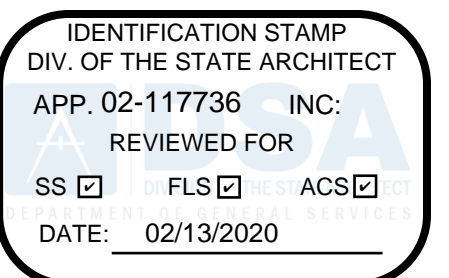


4 FIRE ALARM TERMINAL CABINET MOUNTING "F.A.T.C. - R" NTS

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TITLE
ONE LINE
DIAGRAM

E3.1

PROJECT 1901

FAULT CURRENT CALCULATIONS

DESIGNATION	ISC	MIN. EQUIPMENT RATINGS
(E) SWITCHBOARD 'MS'	65,000	65,000
(E) DISTRIBUTION PANEL 'DHI'	36,846	50,000
(E) PANEL 'HIA'	36,012	50,000
(E) PANEL 'HIB'	15,495	22,000
(E) PANEL 'HIC'	21,102	35,000
(E) PANEL 'HID'	14,319	22,000
(E) PANEL 'FL'	5,365	14,000
(E) DISTRIBUTION PANEL 'DLI'	12,434	22,000
(E) PANEL 'LIA'	11,132	22,000
(E) PANEL 'LIB'	8,847	22,000
(E) PANEL 'LIC'	11,852	22,000
(E) PANEL 'LID'	5,585	10,000
(E) PANEL 'LIE'	5,647	10,000
(E) PANEL 'LIF'	5,563	10,000
(E) PANEL 'LBI'	8,361	10,000
(E) DISTRIBUTION PANEL 'HG'	23,140	35,000
(E) PANEL 'HG1'	23,054	35,000
(E) PANEL 'HG2'	11,584	14,000
(E) DISTRIBUTION PANEL 'LG'	21,065	35,000
(E) PANEL 'LG1'	19,116	22,000
(E) PANEL 'LG2'	7,522	10,000
(E) PANEL 'DP'	1,504	10,000
(E) PANEL 'BC'	3,454	10,000
(E) PANEL 'FL'	6,714	10,000
DISTRIBUTION PANEL 'DRI'	11,358	22,000
DISTRIBUTION PANEL 'DR2'	6,603	10,000
DISTRIBUTION PANEL 'DR3'	5,300	10,000

(1) SERIES RATINGS MAY BE USED TO ACHIEVE THE REQUIRED MINIMUM EQUIPMENT A.I.C. RATINGS. PROVIDE AN ENGRAVED NAMEPLATE WHICH INDICATES THIS APPLICATION TO COMPLY WITH C.E.C. ARTICLES 110.22 AND 240.83.
(2) THE SHORT CIRCUIT CALCULATIONS AND MIN. EQUIPMENT A.I.C. RATINGS ARE PRELIMINARY AND FOR BIDDING PURPOSES ONLY. THE SHORT CIRCUIT AND PROTECTIVE DEVICES COORDINATION STUDY, AS REQUIRED BY THE PROJECT MANUAL, WILL DETERMINE THE ACTUAL SHORT CIRCUIT CURRENT RATINGS.

(E) MAIN SWITCHBOARD LOAD CALCULATIONS

EXISTING LOAD:	
DEMAND FROM S.C.E.	375 kVA
DEMAND x 125% (ADJUSTMENT PER C.E.C. SECTION 220.87)	468.75 kVA
NEW LOAD (RELOCATABLE BUILDINGS):	
14 RELOCATABLE BUILDINGS	160.16 kVA
TOTAL	160.16 kVA
AT 480/277V, 3Ø, 4W	156.81 AMPS
SOLAR	640 AMPS
GRAND TOTAL EXISTING + NEW	1346.81 AMPS
THEREFORE A 3000 AMP SERVICE IS ADEQUATE.	

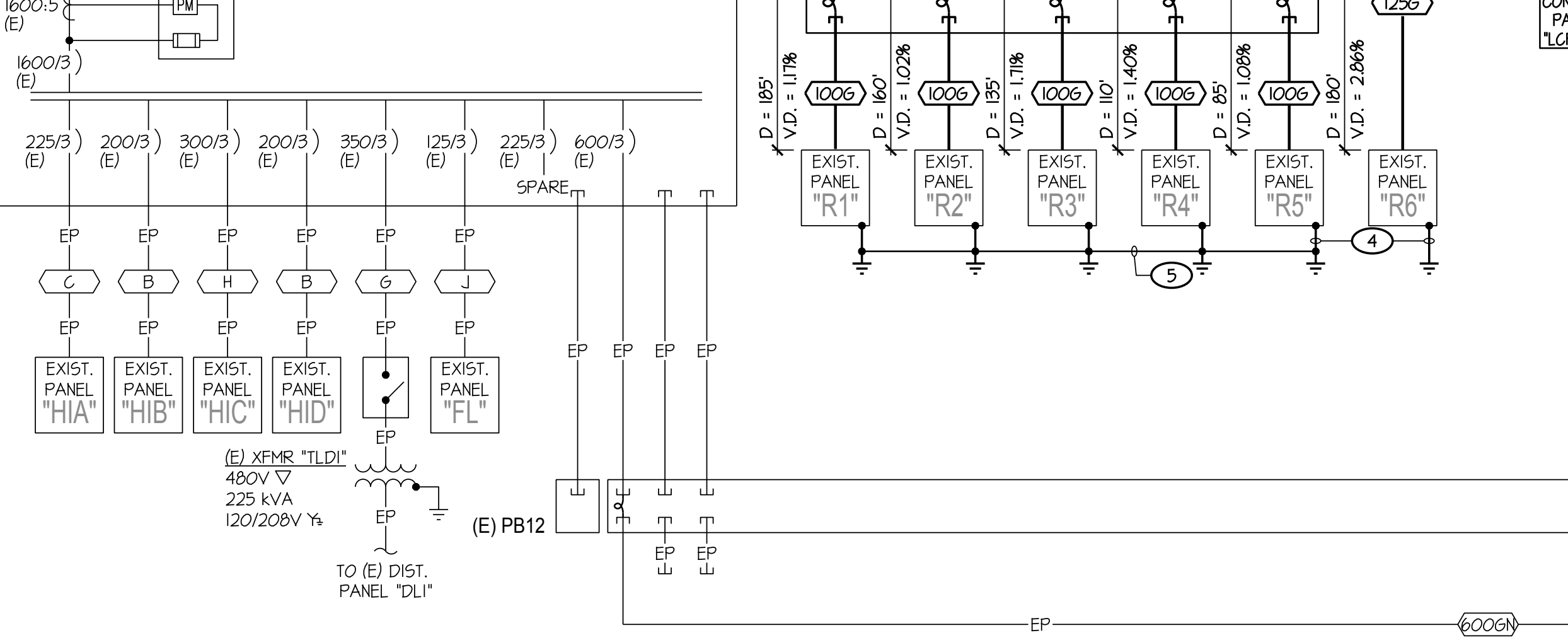
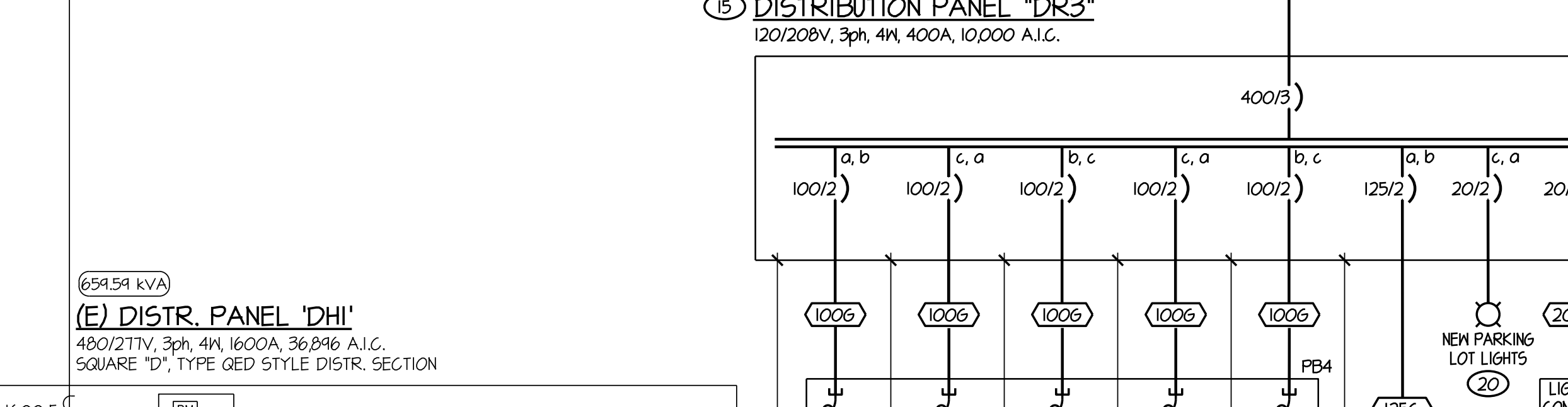
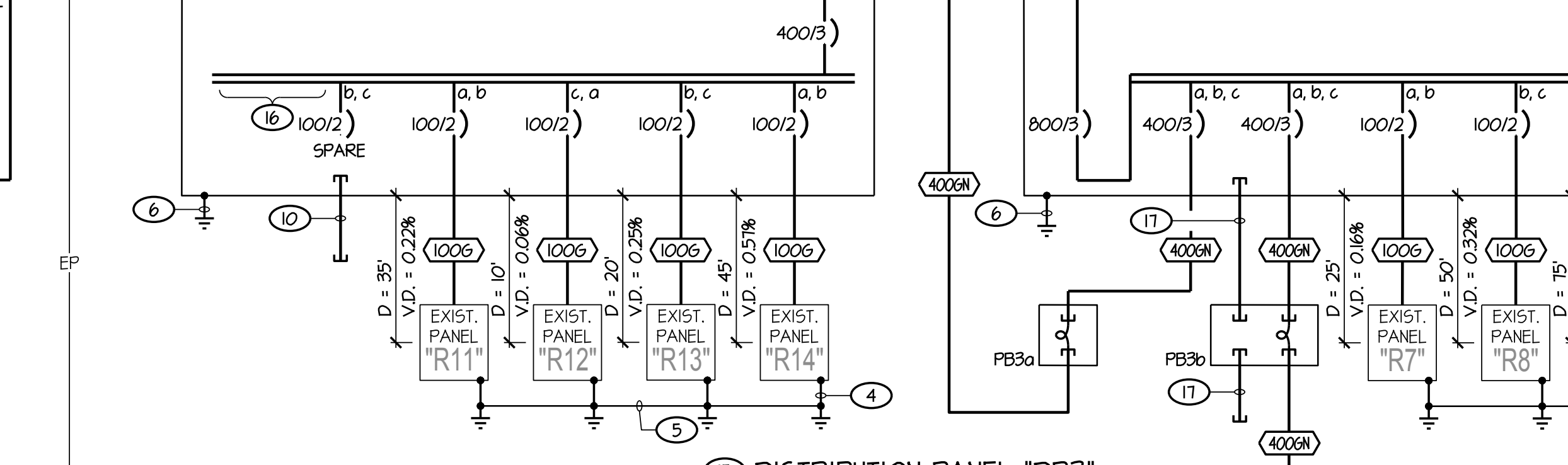
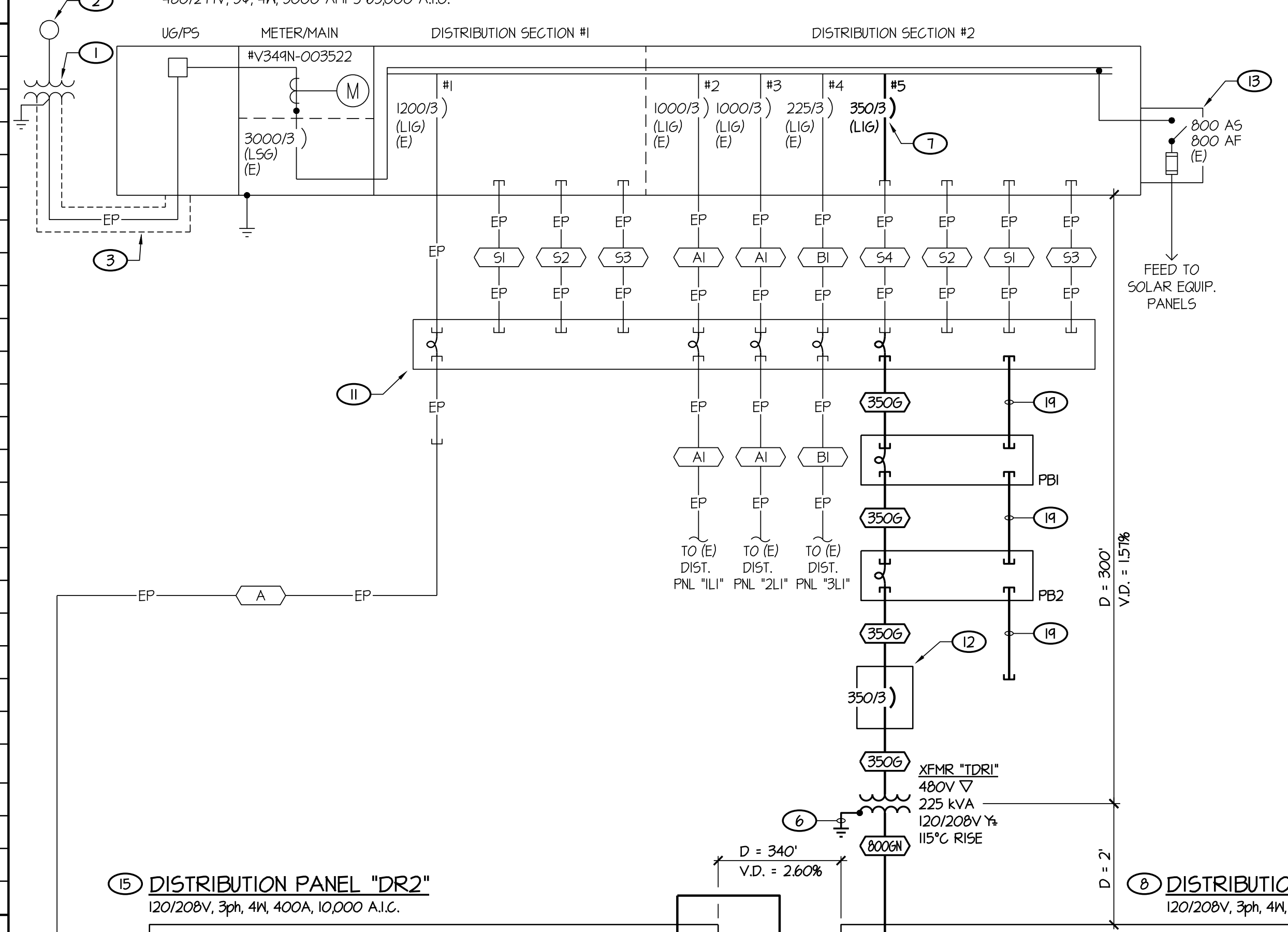
LOAD CALCULATION NOTES:

1. LOAD TAKEN FROM PREVIOUS PROJECTS AND FIELD VERIFIED.

NOTE:

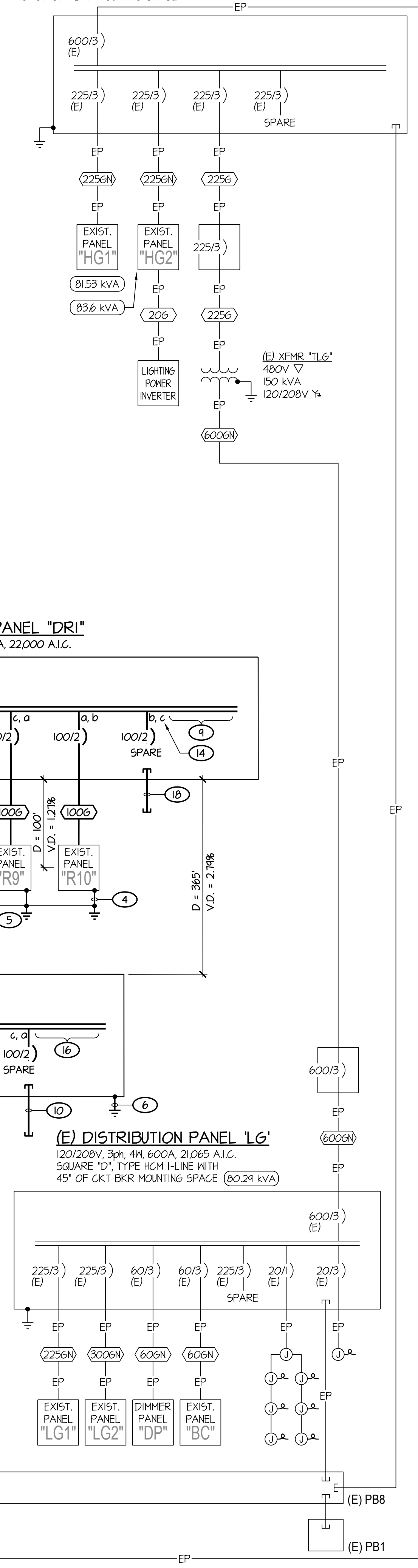
ALL VOLTAGE DROPS TO PANEL AND TRANSFORMERS ARE DONE USING 80% OF THE AMP RATING OF THE SUPPLYING CIRCUIT BREAKER, U.O.N.

(E) MAIN SWITCHBOARD 'MS' (352 kVA)
480/277V, 3Ø, 4W, 3000 AMPS, 65,000 A.I.C.



EXISTING DISTRIBUTION PANEL 'HG'

480/277V, 3Ø, 4W, 600A, 23,140 A.I.C.
SQUARE 'D', TYPE HCM I-LINE WITH
45° OF CKT BKR MOUNTING SPACE



ONE LINE DIAGRAM NOTES:

- 1 EXISTING S.C.E. PAD TRANSFORMER TO REMAIN IN USE.
- 2 EXISTING S.C.E. POLE TO REMAIN.
- 3 EXISTING S.C.E. TRENCH DUCT TO REMAIN.
- 4 GROUND PER DETAIL #10/E3.2. TYPICAL AT EACH RELOCATABLE BUILDING.
- 5 1 #4 CU BETWEEN ADJACENT GROUND RODS, TYPICAL.
- 6 BOND AND GROUND PER DETAIL #4/E3.2.
- 7 PROVIDE NEW CIRCUIT BREAKER, AMP RATING AS NOTED. 65,000 A.I.C. RATED.
- 8 PROVIDE WITH AN 800 AMP MAIN CIRCUIT BREAKER AND 63" OF SPACE AND MOUNTING HARDWARE FOR CIRCUIT BREAKERS AND FUTURE CONNECTION. SQUARE 'D', 'GED', I-LINE OR EQUAL.
- 9 SPARE INCHES OF SPACE AND MOUNTING HARDWARE FOR FUTURE CONNECTION PER KEYNOTE #8.
- 10 PROVIDE THREE SPARE 1 1/2" STUBS FOR FUTURE USE.
- 11 EXISTING FULL ENCLOSURE IN MAIN BUILDING.
- 12 PRIMARY CIRCUIT BREAKER WITH NEMA 3R ENCLOSURE.
- 13 SOLAR FUSED SWITCH ON SIDE OF ENCLOSURE.
- 14 DENOTES PHASES TO CONNECT CIRCUIT BREAKER ON, TYPICAL.
- 15 PROVIDE WITH A 400 AMP MAIN CIRCUIT BREAKER AND 63" OF SPACE AND MOUNTING HARDWARE FOR CIRCUIT BREAKERS AND FUTURE CONNECTION. SQUARE 'D', 'GED', I-LINE OR EQUAL.
- 16 SPARE INCHES OF SPACE AND MOUNTING HARDWARE FOR FUTURE CONNECTION PER KEYNOTE #15.
- 17 PROVIDE ONE SPARE 1 1/2" STUB.
- 18 PROVIDE THREE 1 1/2" AND ONE 2 1/2" STUB OUTS FOR FUTURE USE.
- 19 SPARE 3 1/2".
- 20 CONTROLLED VIA LIGHTING CONTROL PANEL 'LCP-AE'.

FEEDER SCHEDULE:

(ALL UNDERGROUND CONDUCTORS, OF A 480/277V POWER SYSTEM, SHALL BE TYPE CU-XHHW-2. ALL FEEDERS MOUNTED ON ROOF SHALL BE CU-XHHW-2. ALL OTHER CONDUCTORS, INCLUDING THE EQUIPMENT GROUNDING CONDUCTOR, SHALL BE CU-TW-90 FOR #8 AWG OR LARGER AND CU-TW-90 FOR #10 AWG OR SMALLER.)

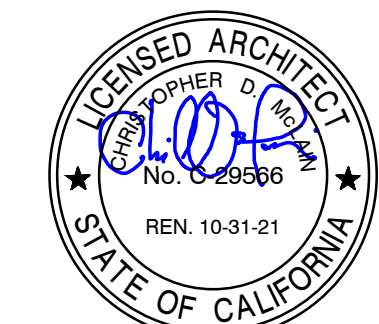
- AI EXISTING THREE 3 1/2" - 4 #500 kcmil + 1 #2/0 GND IN EACH.
- BI EXISTING 2 1/2" - 4 #4/0 + 1 #4 GND.
- A EXISTING FOUR 4" - 4 #600 kcmil + 1 #4/0 GND IN EACH CONDUIT.
- B EXISTING 2" - 4 #3/0 + 1 #6 GND.
- C EXISTING 2 1/2" - 4 #4/0 + 1 #4 GND.
- G EXISTING TWO 3" - 3 #2/0 + 1 #2 GND IN EACH CONDUIT.
- H EXISTING 3" - 4 #350 + 1 #2 GND.
- J EXISTING 1 1/2" - 4 #1 + 1 #6 GND.
- SI EXISTING SPARE 3 1/2".
- S2 EXISTING SPARE 3".
- S3 EXISTING SPARE THREE 2 1/2".
- S4 EXISTING SPARE 4".
- 20GN EXISTING 3/4" - 4 #12 + 1 #12 GND.
- 60GN EXISTING 1" - 4 #6 + 1 #10 GND.
- 225GN EXISTING 2" - 3 #4/0 + 1 #4 GND.
- 225GN EXISTING 2 1/2" - 4 #4/0 + 1 #4 GND.
- 300GN EXISTING 3" - 4 #250 kcmil + 1 #4 GND.
- 600GN EXISTING TWO 3" - 4 #350 kcmil + 1 #1 GND IN EACH.
- 20GN 3/4" - 2 #12 + 1 #12 GND.
- 100G 1 1/2" - 3 #2 + 1 #8 GND.
- 125G 1 1/2" - 3 #2 + 1 #6 GND.
- 350G 3" - 3 #350 kcmil + 1 #2 GND.
- 400GN TWO 3 1/2" - 4 #300 kcmil + 1 #1/0 GND.
- 800GN TWO 4" - 4 #500 kcmil + 1 #3/0 GND EACH.



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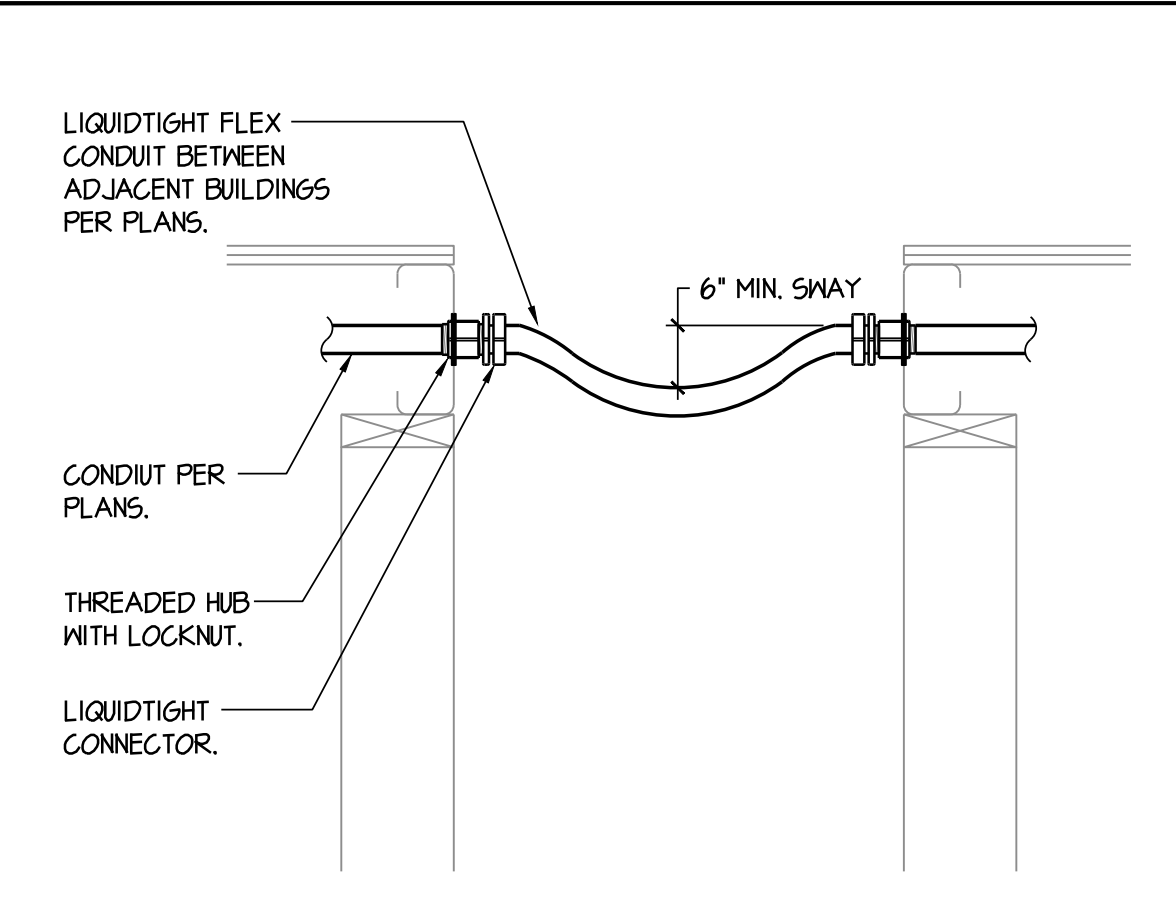
1 ONE LINE DIAGRAM

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-117736 INC.
REVIEWED FOR:
SS FLS ACS
DATE: 02/13/2020



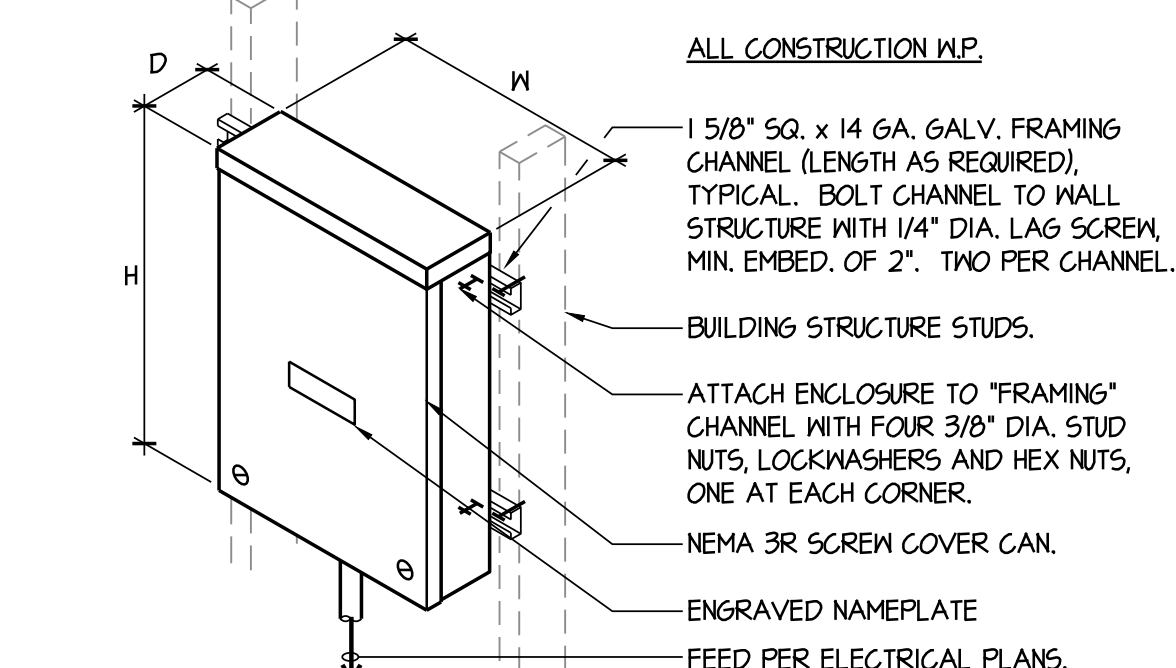
DATE: JULY 10, 2019

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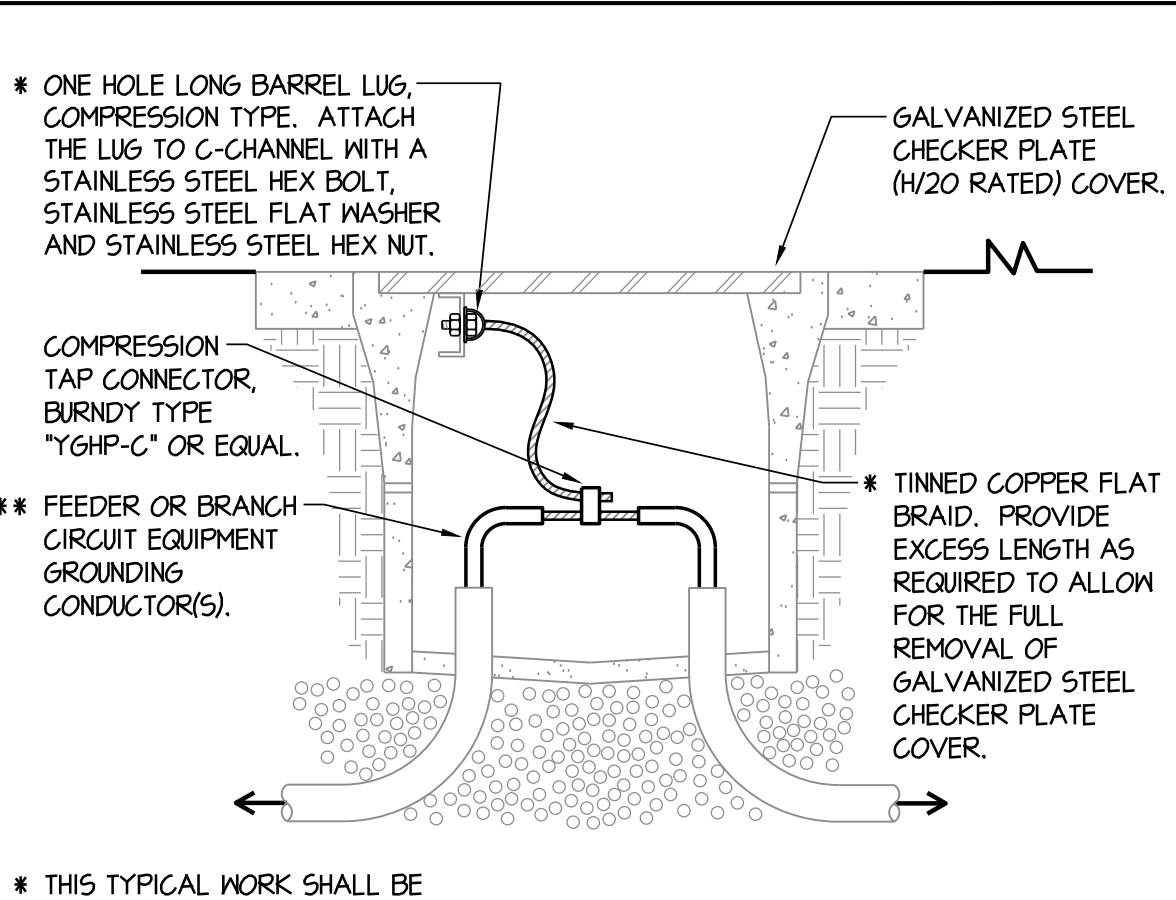


1 CONDUIT CONNECTION BETWEEN ADJACENT BUILDINGS NTS

PULL ENCLOSURE	FN1, FN2, FN3, FN4	PPC1	PC1, PC2, PC3	PC4, PC5
W	12"	24"	12"	12"
L	12"	30"	16"	16"
D	6"	20"	6"	6"
WEIGHT	40 LBS.	95 LBS.	65 LBS.	65 LBS.



2 PULL ENCLOSURE MOUNTING NTS



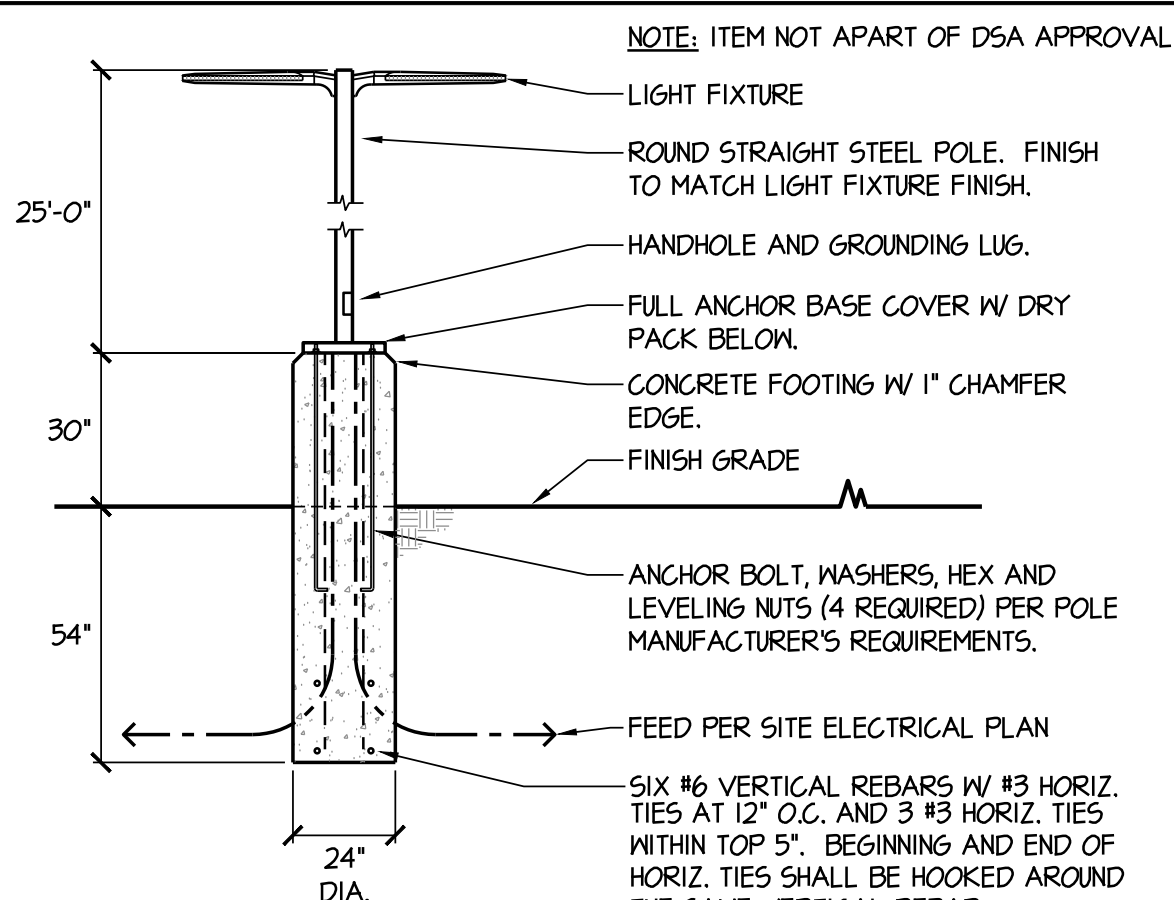
3 GROUNDING AND BONDING OF STEEL CHECKER PLATE COVERS NTS

MATRIX FOR TINNED COPPER FLAT BRAID

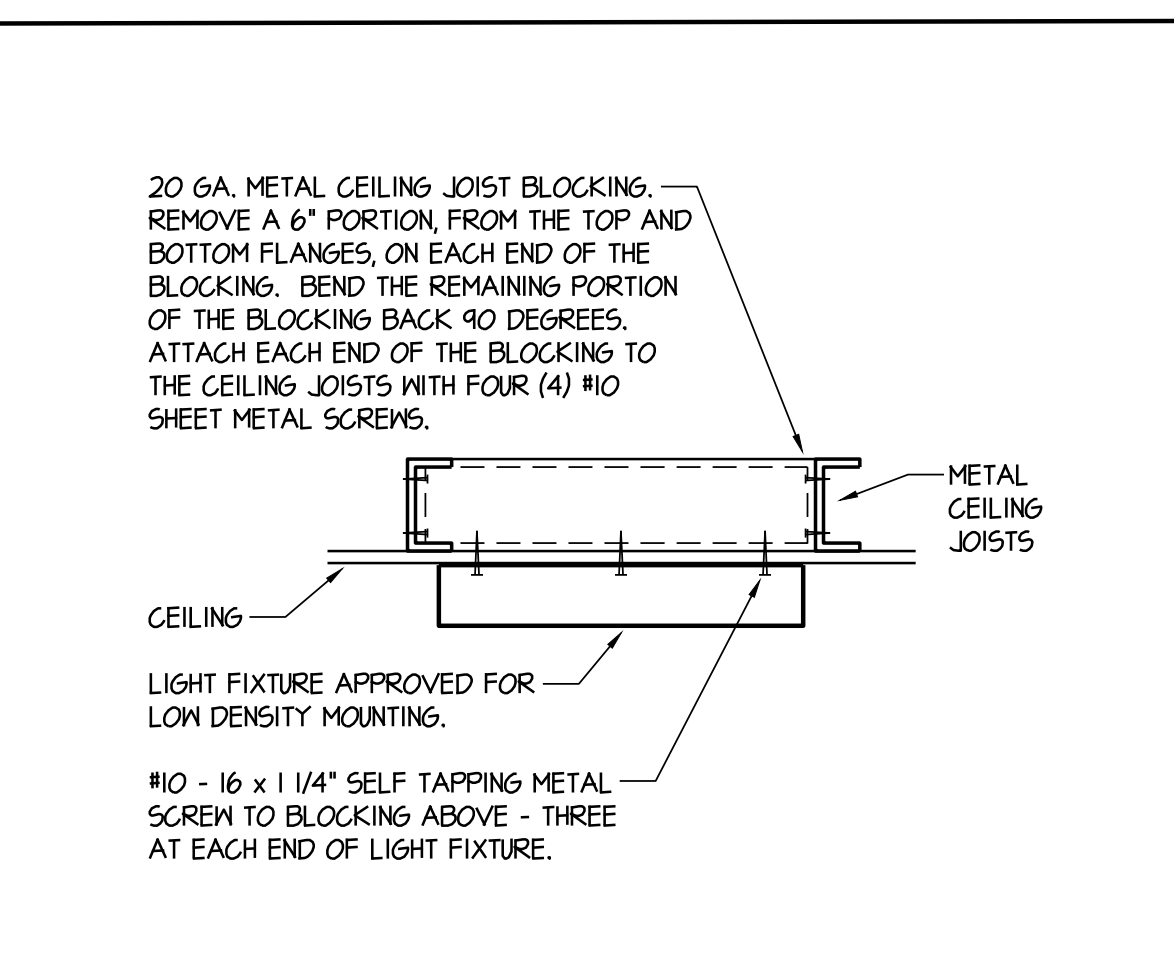
SIZE OF EQUIPMENT GROUNDING CONDUCTOR (G)	ALPHA WIRE PART #	OLYMPIC WIRE AND CABLE PART #
#8	1233	108
#6	1235	110
#4	1234	110
#2 THRU #1/0	1240	113
#2/0 THRU #4/0	1241	114

(G) CONTAINED IN THE LARGEST FEEDER (OR BRANCH CIRCUIT) PASSING THRU THE RESPECTIVE PULL BOX.

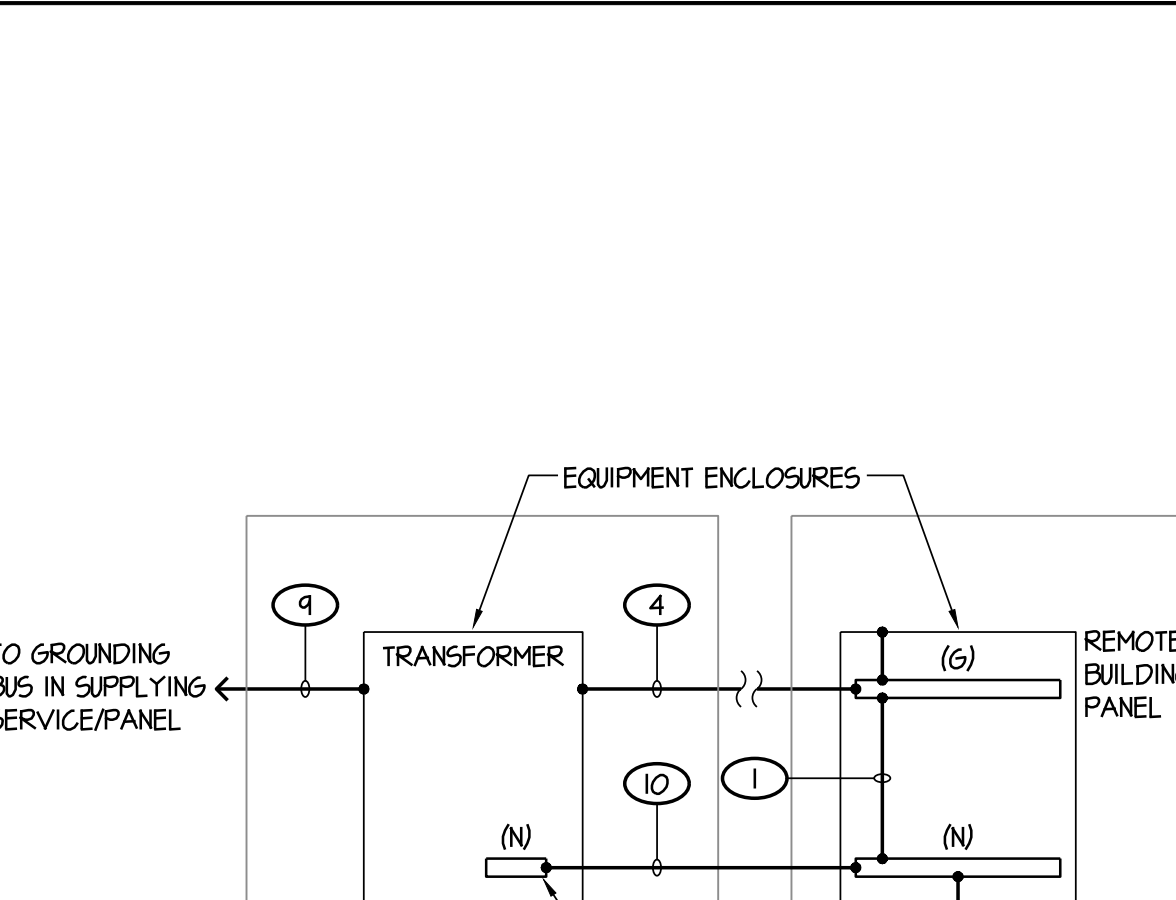
5 GROUNDING AND BONDING OF STEEL CHECKER PLATE COVERS NTS



4 POLE FIXTURE MOUNTING NTS



8 SURFACE FIXTURE MOUNTING NTS

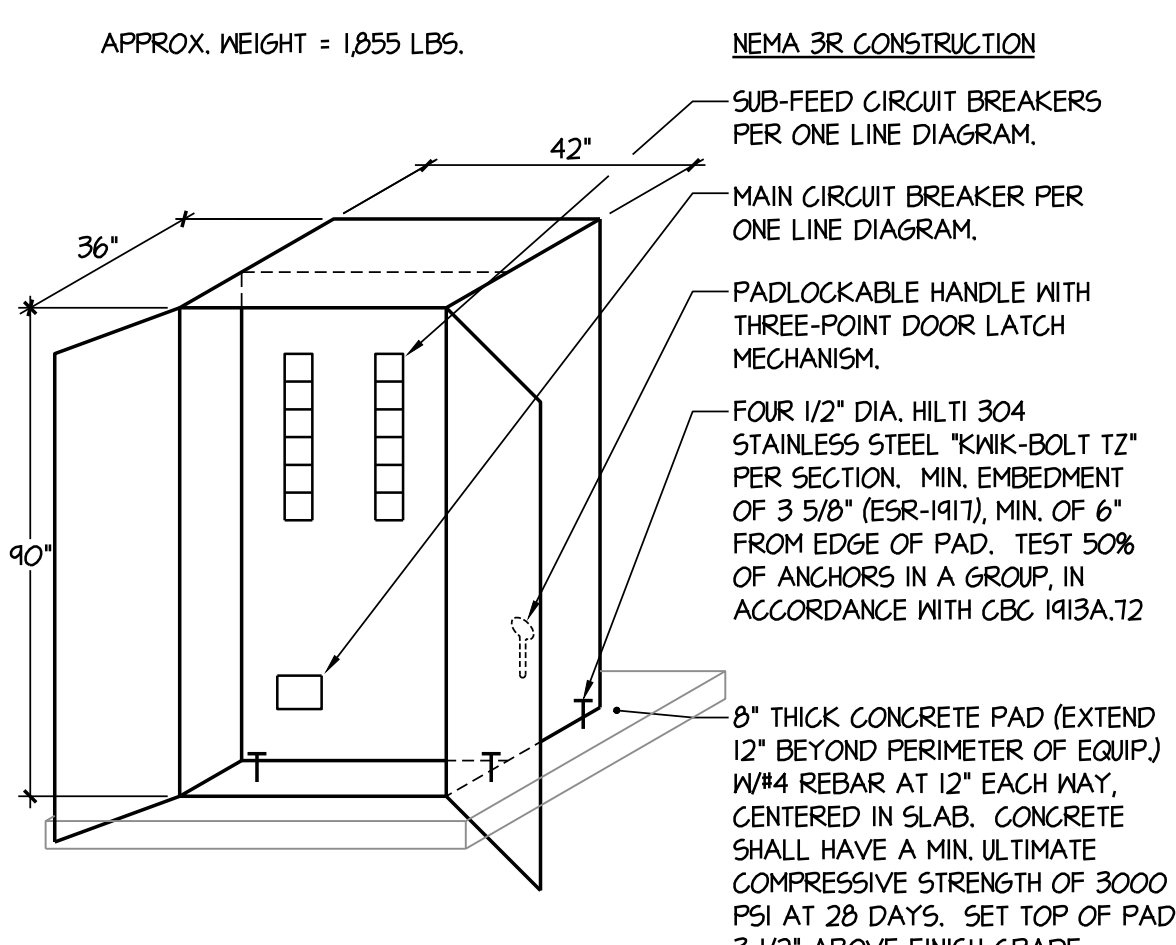


7 REMOTE TRANSFORMER AND REMOTE BUILDING PANEL - GROUNDING AND BONDING NTS

- NOTES (THIS DETAIL ONLY):**
- SYSTEM BONDING JUMPER PER C.E.C. 250.102.
 - FULL SIZE GROUNDING ELECTRODE CONDUCTOR PER C.E.C., TABLE 250.66.
 - METAL WATER PIPING PER C.E.C. 250.104.
 - SUPPLY SIDE BONDING JUMPER PER C.E.C. 250.30 (A), (2).
 - OTHER ABOVEGROUND METALLIC PIPING SYSTEMS PER C.E.C. 250.104.
 - 5/8" DIA. ROD ELECTRODE PER C.E.C. 250.52 (A), (5).
 - BUILDING STRUCTURAL STEEL PER C.E.C. 250.104.
 - CONCRETE ENCASED ELECTRODE PER C.E.C. 250.52 (A), (3).
 - EQUIPMENT GROUND CONDUCTOR PER C.E.C., TABLE 250.122.
 - NEUTRAL CONDUCTOR PER FEEDER SCHEDULE.
 - NEUTRAL BAR.

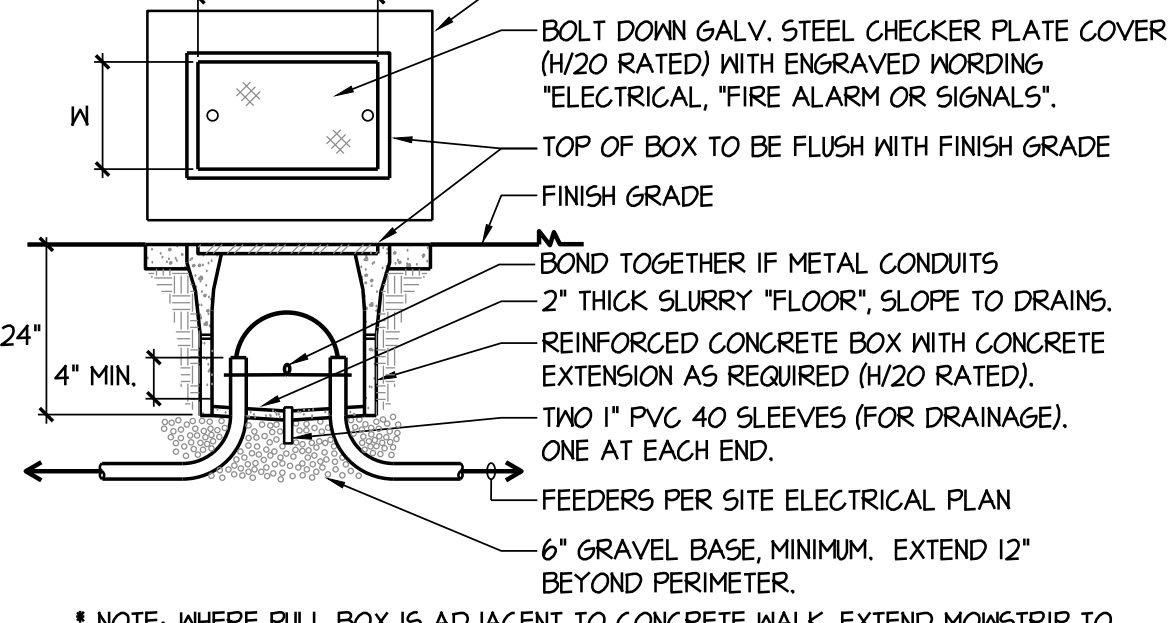
LEGEND:
(G) DENOTES THE GROUND BUS OR BAR
(N) DENOTES THE NEUTRAL BUS OR BAR

GENERAL NOTE:
ALL MATERIALS AND METHODS USED IN GROUNDING AND BONDING SHALL COMPLY WITH C.E.C. ARTICLE 250.

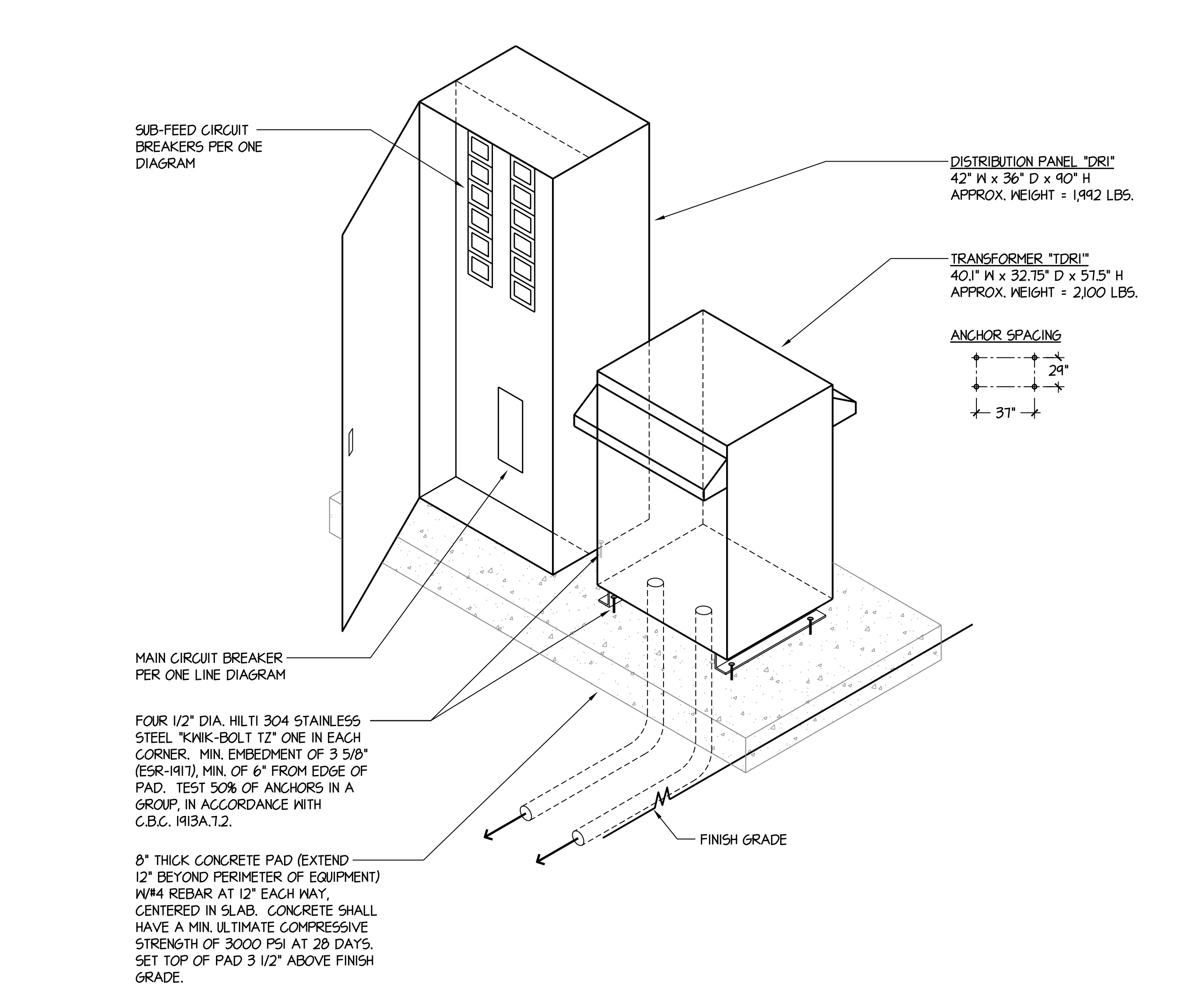


3 DISTRIBUTION PANEL "DR2" AND "DR3" NTS

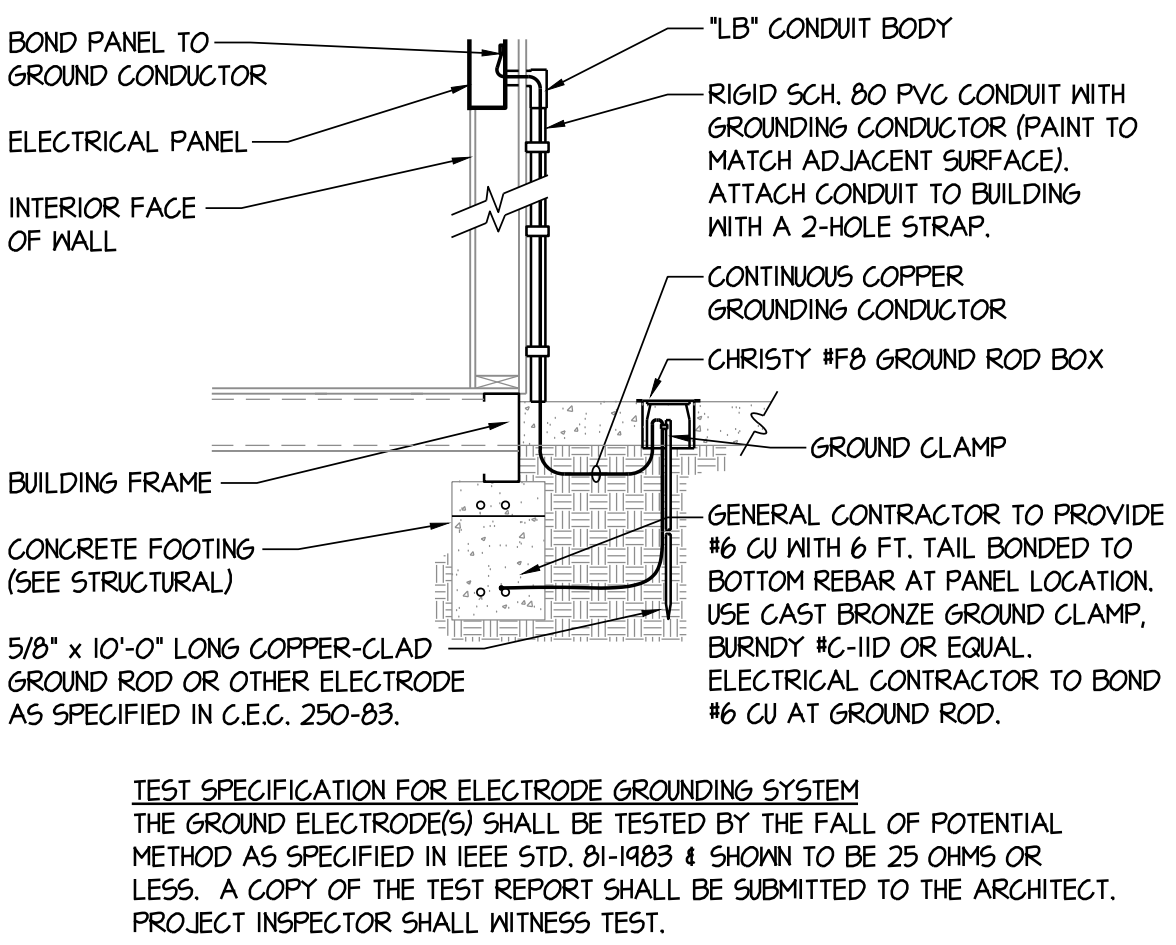
PULL BOX	PB1, PB2	PB3a, PB3b, PB4	SB1, SB2	SB3, SB4, SB5
W	30 1/4"	30 1/4"	30 1/4"	30 1/4"
L	48"	48"	48"	48"
CHRISTY #	B304B	B304B	B304B	B304B



4 PULL BOX MOUNTING NTS



6 DISTRIBUTION PANEL "DR1" AND TRANSFORMER "TDRI" MOUNTING NTS



10 GROUNDING ELECTRODE SYSTEM NTS

TEST SPECIFICATION FOR ELECTRODE GROUNDING SYSTEM
THE GROUND ELECTRODE(S) SHALL BE TESTED BY THE FALL OF POTENTIAL METHOD AS SPECIFIED IN IEEE STD. 81-1983 & SHOWN TO BE 25 OHMS OR LESS. A COPY OF THE TEST REPORT SHALL BE SUBMITTED TO THE ARCHITECT. PROJECT INSPECTOR SHALL WITNESS TEST.

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TITLE
DETAILS
E3.2
PROJECT 1901

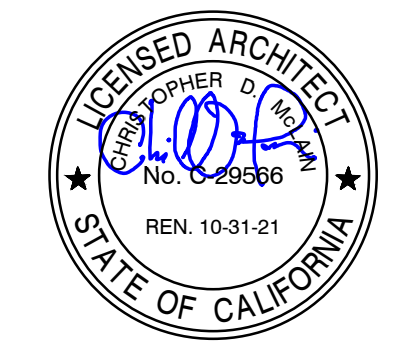


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NOTES (THIS SHEET ONLY):

- 1 PROVIDE A "SIGNAL" PULL ENCLOSURE PER DETAIL #2/E3.2. SURFACE MOUNT HIGH ON WALL NEAR ROOF. ROUTE CONDUIT OUT THE BACK OF THE PULL ENCLOSURE THRU EXTERIOR WALL STRUCTURE AND CONTINUE THRU ACCESSIBLE SPACE ABOVE T-BAR CEILING AS SHOWN. SEAL AROUND CONDUIT PENETRATIONS AS REQUIRED TO PREVENT LEAKAGE INTO WALL STRUCTURE.
- 2 NEW 2" INNER DUCT FROM EXISTING CABLE TRAY/RACK SYSTEM TO PULL CONDUIT ON WALL.
- 3 NEW TWO 2".
- 4 NEW PULL BOX, MOUNT PER DETAIL #4/E3.2, TYPICAL.
- 5 SAWCUT AND PATCH EXISTING SIDEWALK AS REQUIRED TO UNDERGROUND CONDUITS.
- 6 NEW TWO MM12 FIBER OPTICS, TWO 25PR CAT3 OSP CABLES FROM (E) MDF.
- 7 NEW ONE MM12 FIBER OPTICS, ONE 25PR CAT3 OSP CABLES FROM (E) MDF. TO NEW "HC-PS" AND "HC-PIO" CABINETS.

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 APP. 02-117736 INC.
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 SS FLS ACS
 DATE: 02/13/2020



DATE: JULY 10, 2019

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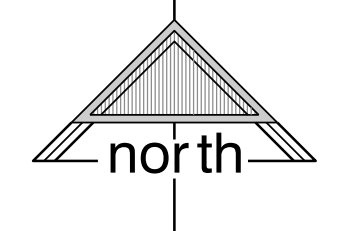
TITLE
 NEW SITE
 SIGNAL PLAN

TS1.1

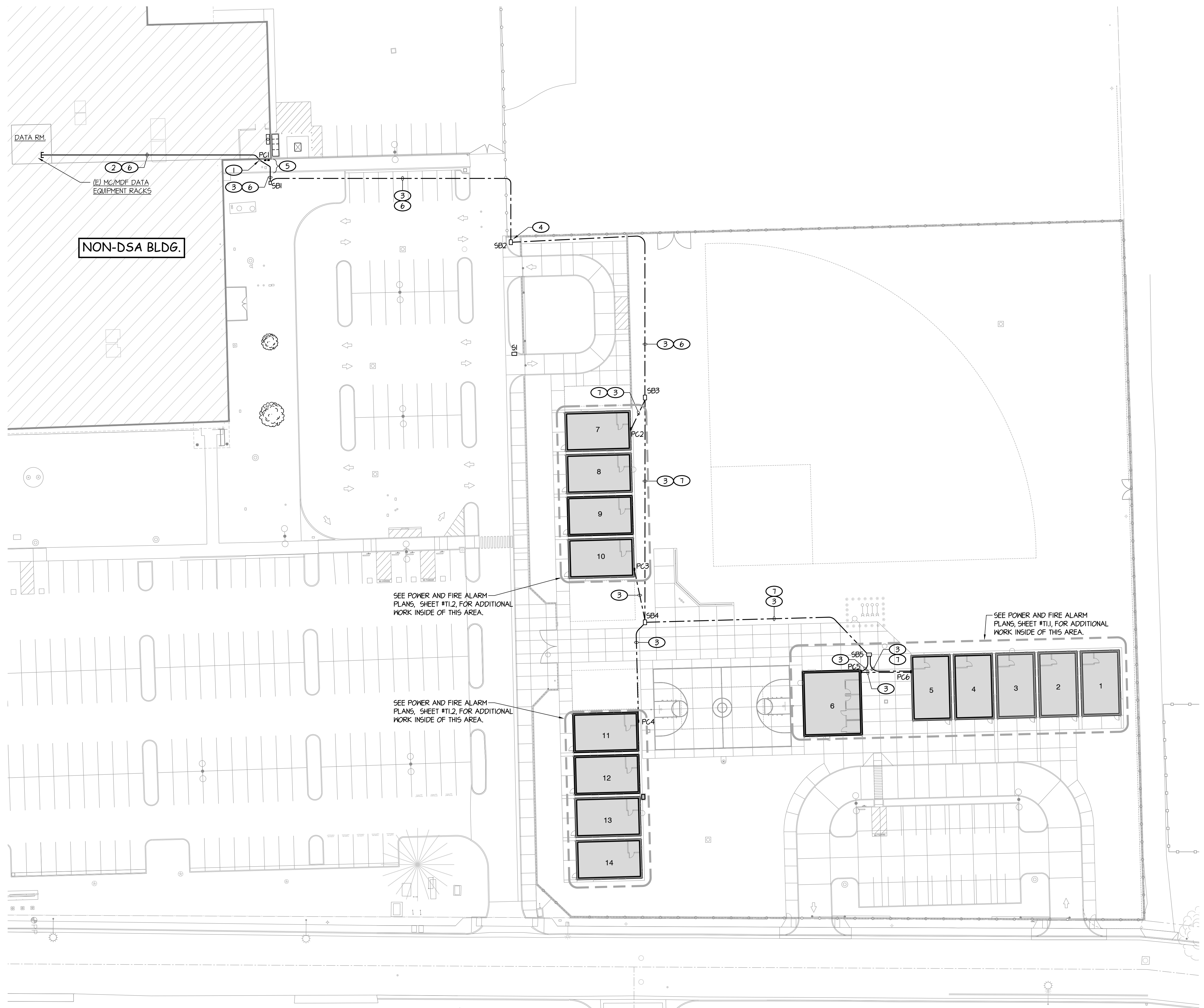
PROJECT 1901



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PIONEER AVENUE



NEW SITE SIGNAL PLAN

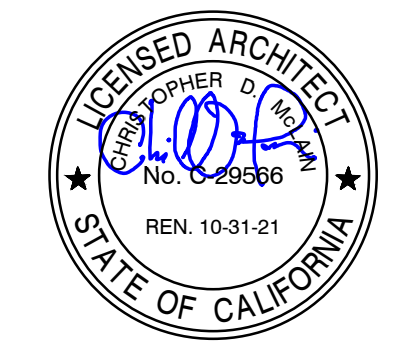
1" = 30'-0"

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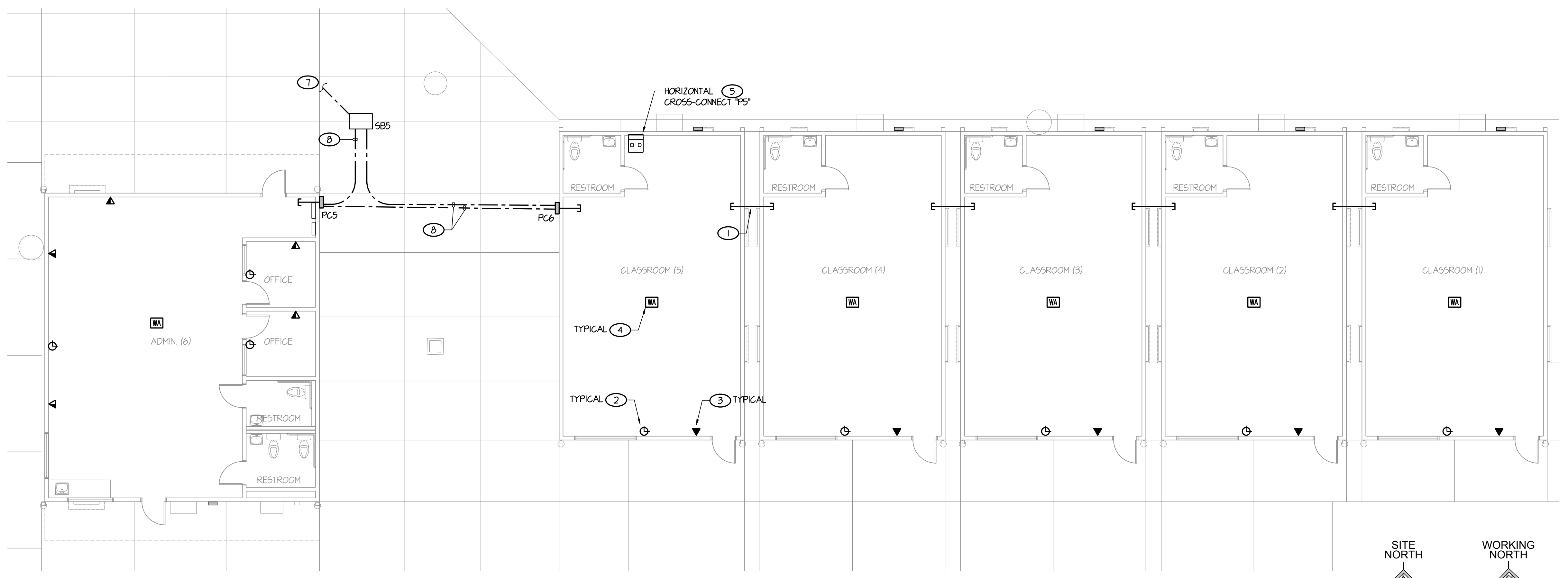
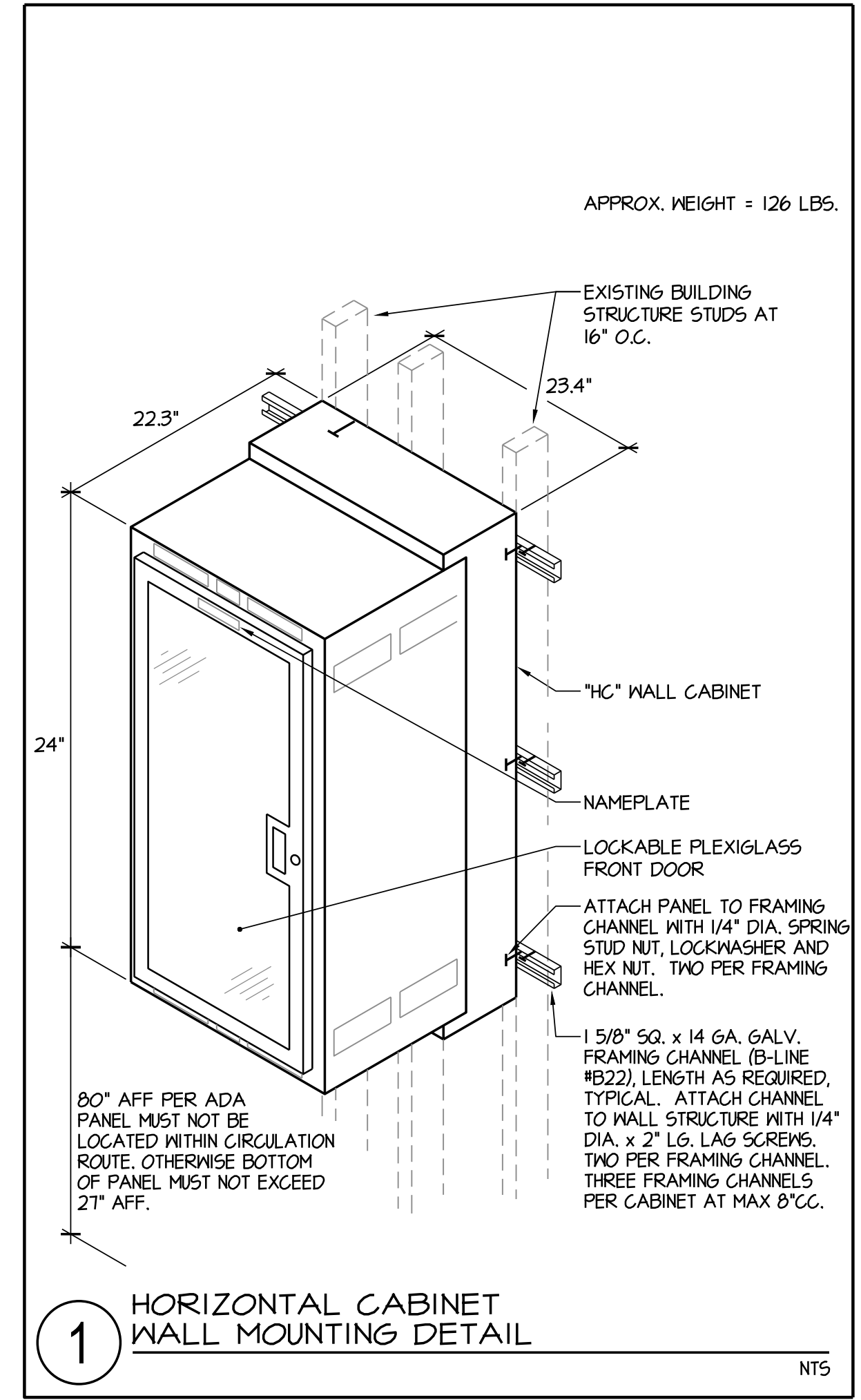
NOTES (THIS SHEET ONLY):

- 1 SPAN BETWEEN BUILDING PER DETAIL #1/E3.2.
- 2 EXISTING CLOCK TO REMAIN, CONNECT TO SITE MASTER CLOCK SYSTEM.
- 3 EXISTING TELEPHONE HANDSET TO REMAIN, PULL NEW CAT5E CABLE TO IDF.
- 4 EXISTING INTERCOM SPEAKER/WIRELESS AP TO REMAIN, PULL NEW CAT5E T. "HC-P5".
- 5 NEW "HC-P5" CABINET, REFER TO DETAIL 1/11. PROVIDE NEW TERMINATION HARDWARE FOR FIBER OPTICS, CATX CABLING, INTERCOMPHONE OSP CABLES. CROSS-CONNECT TO MASTER EQUIPMENT AS REQUIRED.
- 6 PROVIDE A "SIGNAL" PULL ENCLOSURE 16126 NBR PER DETAIL #2/E3.2. SURFACE MOUNT HIGH ON WALL NEAR ROOF. ROUTE CONDUIT OUT THE BACK OF THE PULL CAN, PUNCH THRU EXTERIOR WALL STRUCTURE AND CONTINUE THRU ACCESSIBLE ATTIC SPACE ABOVE T-BAR CEILING PER DETAIL #1/E3.2. SEAL AROUND CONDUIT PENETRATION AS REQUIRED TO PREVENT LEAKAGE INTO WALL STRUCTURE.
- 7 SEE SITE SIGNAL PLAN, SHEET T511 FOR CONTINUATION.
- 8 SEE SITE SIGNAL PLAN, SHEET T511 FOR ADDITIONAL DETAIL.

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP. 02-117736 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 02/13/2020

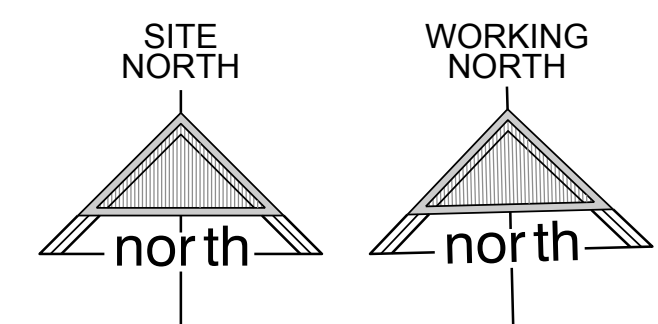


DATE: JULY 10, 2019



SIGNAL PLAN

1/8" = 1'-0"



Rose Sing and Associates, Inc.
 Electrical Consultants
 131 S. Dunworth - (559) 733-2671
 Visalia, California 93292-6705

ALTERNATE
 EDUCATION COMPLEX
 PORTERVILLE UNIFIED SCHOOL DISTRICT
 914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257

REVISIONS

MANGINI ARCHITECTURE INGENUITY
 MCLAIN BARENG MORRELLI
 MANGINI ASSOCIATES INC.
 4320 West Mineral King Avenue
 Visalia, California 93291
 www.mangini.us
 (559) 627-0930 Office
 (559) 627-1526 Fax

TITLE
 SIGNAL
 PLANS

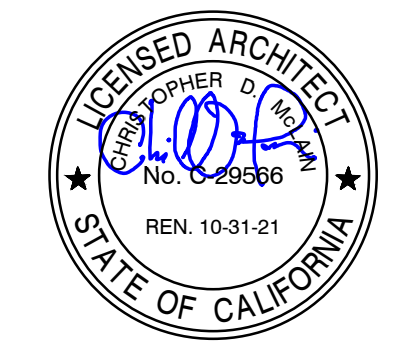
T1.1

PROJECT 1901

NOTES (THIS SHEET ONLY):

- ① SPAN BETWEEN BUILDING PER DETAIL #1/E3.2.
- ② EXISTING CLOCK TO REMAIN, CONNECT TO SITE MASTER CLOCK SYSTEM.
- ③ EXISTING TELEPHONE HANDSET TO REMAIN, PULL NEW CAT5E CABLE TO IDF/AC.
- ④ EXISTING INTERCOM SPEAKER/WIRELESS AP TO REMAIN, PULL NEW CAT5E TO IDF/AC.
- ⑤ NEW "HG-P5" CABINET, REFER TO DETAIL 1/T1.1. PROVIDE NEW TERMINATION HARDWARE FOR FIBER OPTICS, CATX CABLING, INTERCOM/PHONE OSP CABLES. CROSS-CONNECT TO MASTER EQUIPMENT AS REQUIRED.
- ⑥ PROVIDE A "SIGNAL" PULL ENCLOSURE 16126 NBR PER DETAIL #2/E3.2. SURFACE MOUNT HIGH ON WALL NEAR ROOF. ROUTE CONDUIT OUT THE BACK OF THE PULL CAN PUNCH THRU EXTERIOR WALL STRUCTURE AND CONTINUE THRU ACCESSIBLE ATTIC SPACE ABOVE T-BAR CEILING PER DETAIL #1/E3.2. SEAL AROUND CONDUIT PENETRATION AS REQUIRED TO PREVENT LEAKAGE INTO WALL STRUCTURE.
- ⑦ SEE SITE ELECTRICAL PLAN, SHEET TS11 FOR CONTINUATION.

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 APP. 02-117736 INC:
 REVIEWED FOR
 SS FLS ACS
 DATE: 02/13/2020

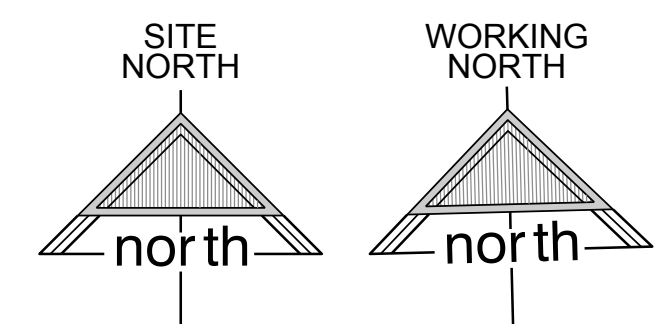


DATE: JULY 10, 2019



SIGNAL PLANS

1/8" = 1'-0"



**ALTERNATE
 EDUCATION COMPLEX**
 PORTERVILLE UNIFIED SCHOOL DISTRICT
 914 WEST PIONEER AVENUE, PORTERVILLE, CA 93257

REVISIONS

MANGINI ARCHITECTURE
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 Visalia, California 93201
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TITLE
 SIGNAL
 PLANS

T1.2

PROJECT 1901

Rose Sing and Associates, Inc.
 Electrical Consultants
 131 S. Dunworth - (559) 733-2671
 Visalia, California 93292-6705



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OFFICE OF STATE FIRE MARSHAL
APPROVED

Approval of this plan does not authorize or approve any emission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: [Signature] 2-19-91

OFFICE OF THE STATE ARCHITECT
ACCESS COMPLIANCE SECTION
APPROVED FEB 19 1991
PC 118 FEB 19 91

APPROVAL of this plan does not authorize or approve any emission or deviation from applicable regulations.

Reviewed by: YASSA

NOT FOR CONSTRUCTION

SHEET INDEX

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- FLOOR PLAN
- DOOR/WINDOW SCHEDULES
- EXTERIOR ELEVATIONS

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- ELECTRICAL PLAN
- MECHANICAL PLAN
- MECHANICAL LEGEND
- ELEC/FIRE NOTES
- ELEC SERVICE GROUND
- LIGHT FIXTURE MOUNTING
- ELEC PANEL/SCHEDULE
- HEAT PUMP INSTALLATION
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- CEILING CONNECTIONS
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S-5 WOOD WALL ELEV. & DETAILS

S-6 SPECIFICATIONS

R-1 HC RAMP DETAILS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-117736 INC.
REVIEWED FOR
SS FLS ACS
DATE: 02/13/2020

REV	DATE	DESCRIPTION

G. A. GRAEBE & ASSOCIATES
Structural & Civil Engineers
Land Surveyors
154 West San Luis Street
Salinas, California 94701
[Signature]

PROFESSIONAL ENGINEER
No. 1873
Exp. 3/31/93

CENTRAL COAST MODULAR INC
RELOCATABLE CLASSROOMS
320 WEST MARKET ST. SALINAS CA 95301
TEL (408) 753-1216 FAX (408) 753-0311

PROJECT # 90-01

SHEET NUMBER

INDEX SHEETS

- DETAIL OR SECTION NUMBER SHEET NO. WHERE DRAWN
- WINDOW WINDOW NO.
- DOOR DOOR NO.
- NOTE REFERENCE
- SECTION NUMBER SHEET NO.
- ROOM NUMBER

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Office of the State Architect
FEB 21 1991
Structural Safety Section
Checked By: [Signature]

DESIGN BASIS
CALIFORNIA BUILDING CODE (CBC)

DESIGN LOADS

ROOF LIVE LOAD: 20 PSF, REDUCED PER TABLE 23C
FLOOR LIVE LOAD: 50 PSF, REDUCED PER SECTION 2306

WIND LOAD BASIC WIND SPEED OF 75 MPH
EXPOSURE "C" PER CBC
SECTION 2311

SEISMIC ZC V WITH Z=0.40, C=2.75, R_w=6, I=1.0
PER SEC 2312

FOUNDATION: TEMPORARY FOUNDATION WITH PIERS LESS THAN 16" HIGH
REQUIRED SOIL BEARING CAPACITY Q_o=1000 PSF MIN
PER OSA IR SECTION 23-6

EACH MODULE SHALL HAVE PERMANENTLY ATTACHED TAG ATTACHED TO THE EXTERIOR END OF EACH UNIT GIVING OSA APPLICATION NUMBER AND MANUFACTURER'S NAME AND SERIAL NUMBER.

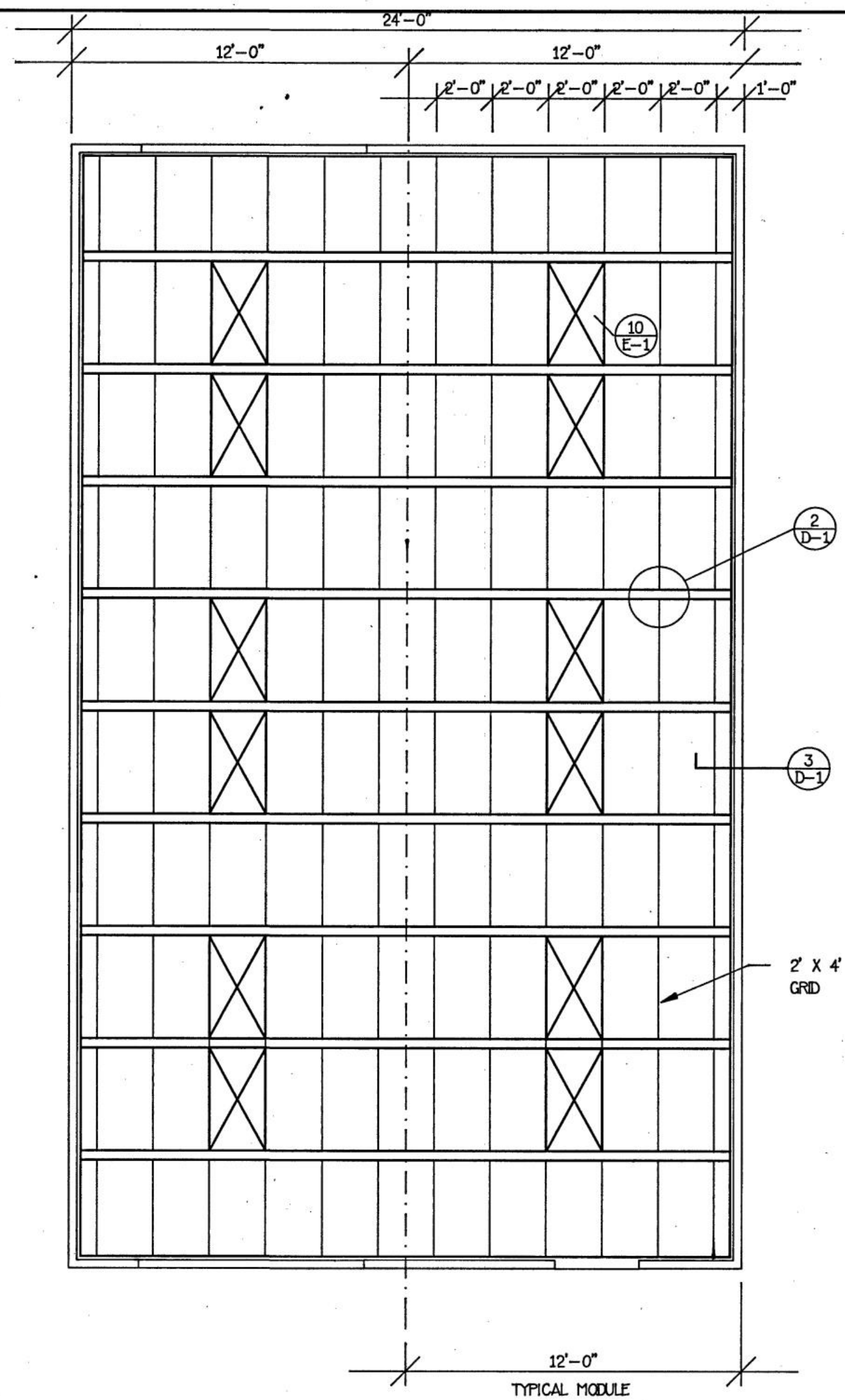
SYMBOL LEGEND

GENERAL NOTES

TYPICAL ABBREVIATIONS

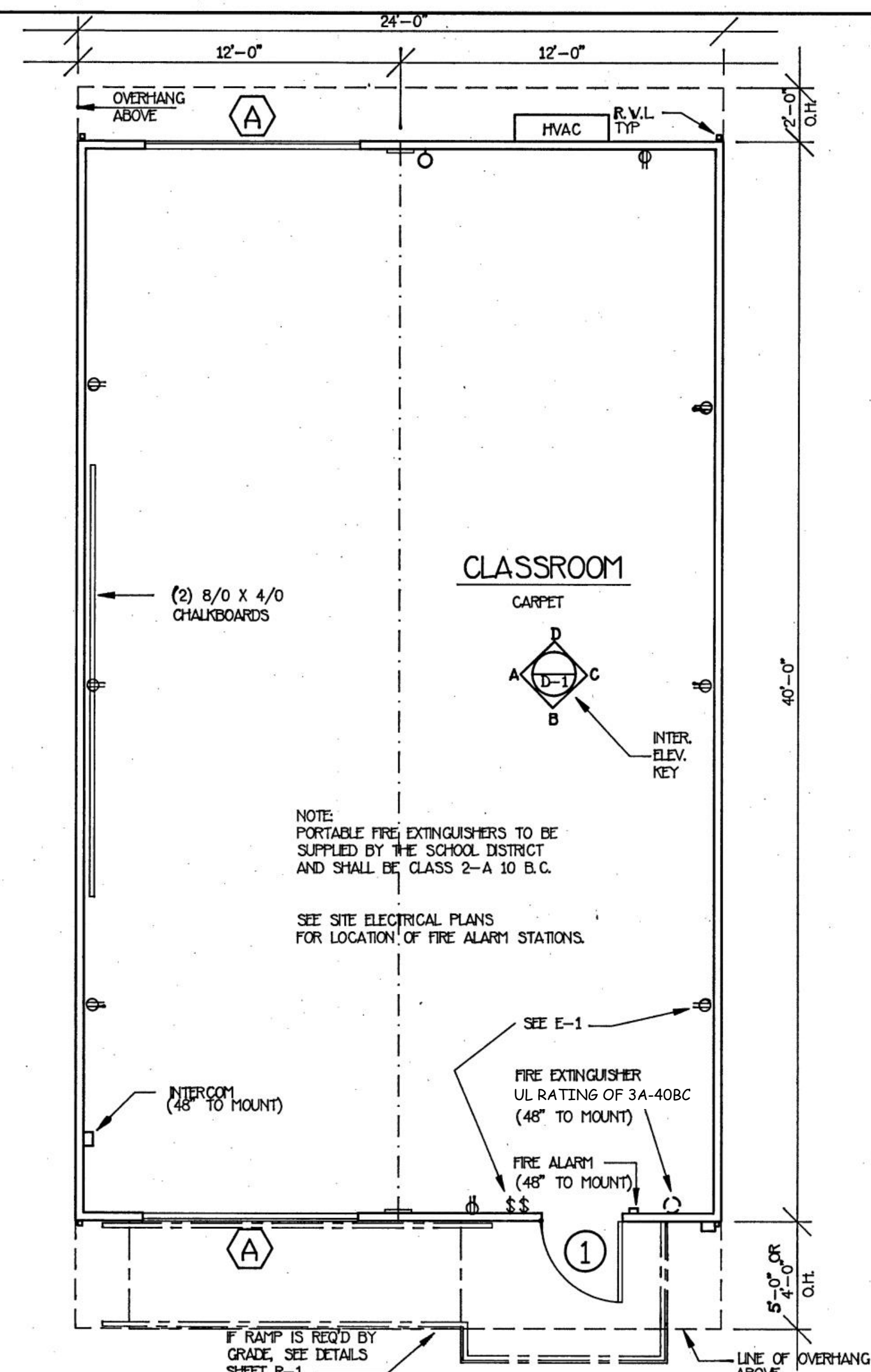
ACST	ACOUSTIC	EP	ELECTRIC PANEL	Q/C, O.C.	ON CENTER (SPACING)	SUSP	SUSPENDED
ATC	ACOUSTIC TILE CEILING	EWC	ELECTRIC WATER COOLER	PRCST	PRECAST	SAPC	SUSPENDED ACOUSTICAL
APC	ACOUSTICAL PLASTER CEILING	ELEC	ELECTRICAL	Q.T.	QUARRY TILE	SATC	PLASTER CEILING
ADD	ADDENDUM	EL	ELEVATION	RAD	RADIUS	SATC	SUSPENDED ACOUSTICAL
ADDL	ADDITIONAL	ELEV	ELEVATOR	R.W.L.	RAIN WATER LEADER	SPC	TILE CEILING
AGGR	AGGREGATE	EMER	EMERGENCY	ROWD	REDWOOD	SSAC	SUSPENDED PLASTER CEILING
ADJ	ADJUSTABLE	ENCL	ENCLOSURE	REF	REFERENCE	SSAC	SUSPENDED SPRAYED
ALTN	ALTERNATE	EQ	EQUAL	REFR	REFRIGERATOR	SYM	ACOUSTICAL CEILING
AL	ALUMINUM	EQPT	EQUIPMENT	RGTR	REGISTER	SYM	SYMMETRICAL
AB	ANCHOR BOLT	EXIST	EXISTING	REINF	REINFORCED	TEL	TELEPHONE
&	AND	EXP	EXPANSION	REQD	REQUIRED	TV	TELEVISION
L	ANGLE	EXPJ	EXPANSION JOINT	RESIL	RESILIENT	TER	TERRAZZO
ANDZ	ANODIZE	EXP	EXPOSED	REV	REVISION	THK.	THICK
APPROX	APPROXIMATE	EXT	EXTERIOR	RHMS	ROUND HEAD MACHINE SCREW	T.P.D.	TOILET PAPER DISPENSER
ARCH	ARCHITECTURAL	F.O.C.	FACE OF CONCRETE	RHSB	ROUND HEAD STOVE BOLT	T&G	TONGUE & GROOVE
AD	AREA DRAIN	F.O.F.	FACE OF FINISH	R	RISER	T.C.	TOP OF CURB
ASPH	ASPHALT	F.O.S.	FACE OF STUDS	RD	ROOF DRAIN	T.P.	TOP OF PAVEMENT
AC	ASHPALTIC CONCRETE	F.O.M.	FACE OF MASONRY	RM	ROOM	T.W.	TOP OF WALL
@	AT	F.F.	FACTORY FINISH	RO	ROUGH OPENING	T.B.	TOWEL BAR
BSMT	BASEMENT	FIN	FINISH	S.N.D.	SANITARY NAPKIN DISPENSER	TS	TUBULAR STEEL
BM	BEAM	FA	FIRE ALARM	S.N.R.	SANITARY NAPKIN RECEPTACLE	TYP	TYPICAL
BRG	BEARING	F.E.	FIRE EXTINGUISHER	SCHED	SCHEDULE	UNFN	UNFINISHED
BITUM	BITUMINOUS	F.E.C.	FIRE EXTINGUISHER CABINET	S.C.D.	SEAT COVER DISPENSER	U.N.O.	UNLESS NOTED OTHERWISE
CONSTR	CONSTRUCTION	FHC	FIRE HOSE CABINET	SECT	SECTION	UR	URINAL
CJ	CONSTRUCTION JOINT	SS	FIREPROOF	SS	SERVICE SINK	VERT	VERTICAL
CONT	CONTINUOUS	SH	FLASHING	SH	SHEET	VEST	VESTIBULE
CNTR	COUNTER	SHF	FLAT BAR	SHWR	SHOWER	V.T.	VINYL TILE
CTSK	COUNTERSUNK	SHWS	FLATHEAD MACHINE SCREW	SHWR	SHOWER	V.C.B.	VINYL COVE BASE
DET	DETAIL	SL	FLATHEAD WOOD SCREW	SIM	SIMILAR	V.F.	VINYL FABRIC
DIA	DIAMETER	S.D.	FLOOR	S.O.	SOAP DISPENSER	WA	WAINSCOT
DIM	DIMENSION	S.C.	FLOOR DRAIN	S.C.	SOLID CORE	WC	WATER CLOSET
DISP	DISPENSER	S	FLUORESCENT	SOUTH	SOUTH	WH	WATER HEATER
DN	DOWN	SPEC	FOOT (FEET)	SPEC	SPECIFICATION	WTRPRF	WATERPROOF
DS	DOWNSPOUT	SQ	FOOTING	SQ	SQUARE	WT	WEIGHT
DWR	DRAWER	SST	FOUNDATION	SST	STAINLESS STEEL	W	WEST
DWG	DRAWING	STD	FURRING	STD	STANDARD	W/O	WITHOUT
DF	DRINKING FOUNTAIN	STA	FUTURE	STA	STATION	W	WOOD
DSF	DRY STANDPIPE	STL	GALVANIZED	STL	STEEL		
EA	EACH	STOR	GAUGE	STOR	STORAGE		
E	EAST	STRL	GLASS	STRL	STRUCTURAL		

STATE OF CALIFORNIA
Department of General Services
FEB 2 1991
Office of the State Architect
Structural Safety Section



① REFLECTED CEILING PLAN

SCALE 1/4"=1'-0"



② FLOOR PLAN

SCALE 1/4"=1'-0"

FOR CALIFORNIA STATE AGENCY USE ONLY:

OFFICE OF STATE FIRE MARSHAL
APPROVED

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

REVIEWED BY: *[Signature]* 2-14-21

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DIV. OF THE STATE ARCHITECT
APP. 02-117736 INC.
REVIEWED FOR:
SS FLS ACS
DATE: 02/13/2020

DOOR SCHEDULE

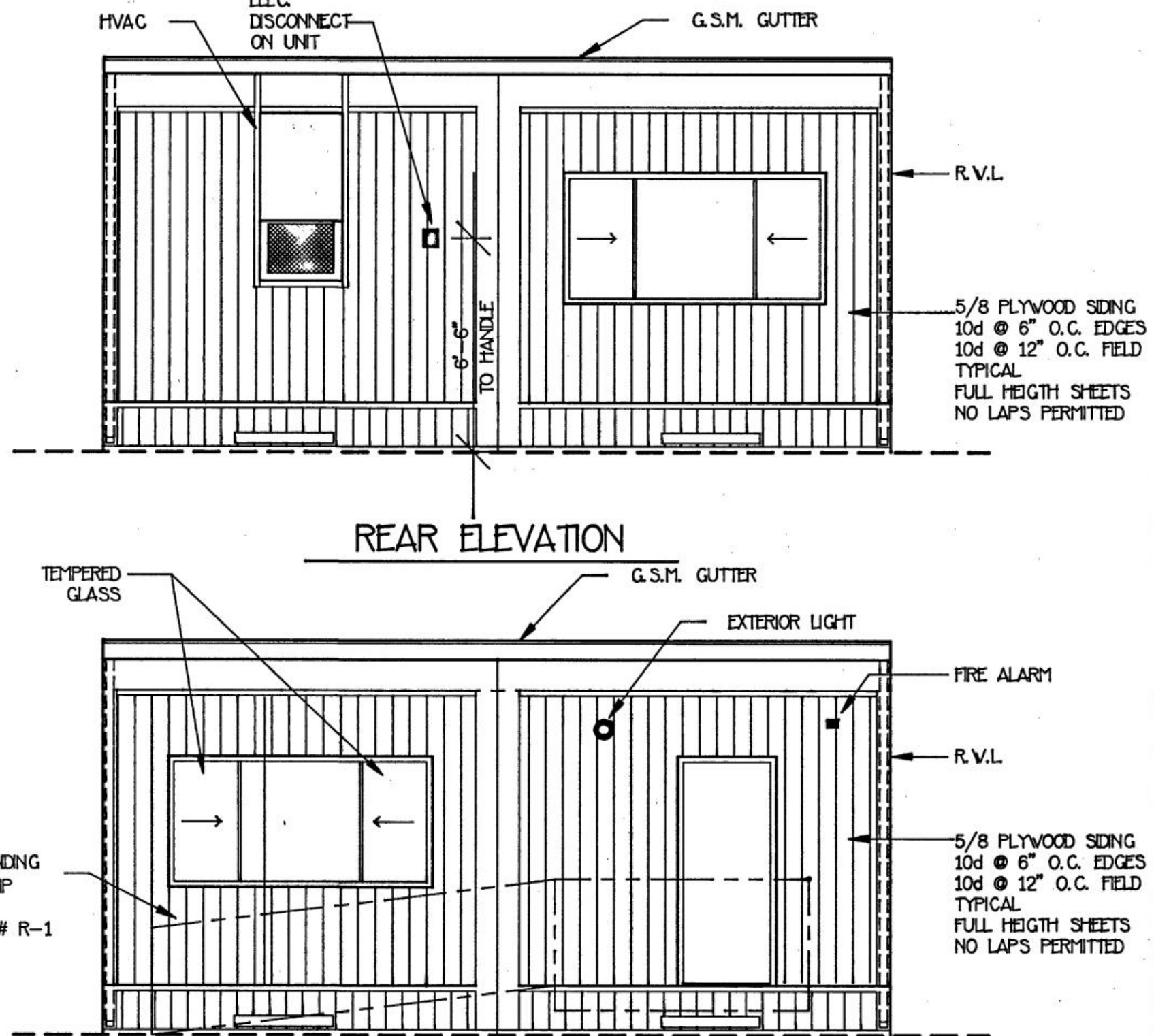
NO.	TYPE	SIZE	THICK	FRAME	DETAIL	HARDWARE
①	A	3/0 X 7/0	1 3/4"	METAL	4/D-1	PANIC DEVICE W/ HEX KEY ON PUSH SIDE & ACC. LEVER HANDLE ON PULL SIDE

WINDOW SCHEDULE

NO.	TYPE	SIZE	FRAME	DETAIL
	A	47 5/8" X 45 5/8"	ALUMINUM	SCHEDULE A

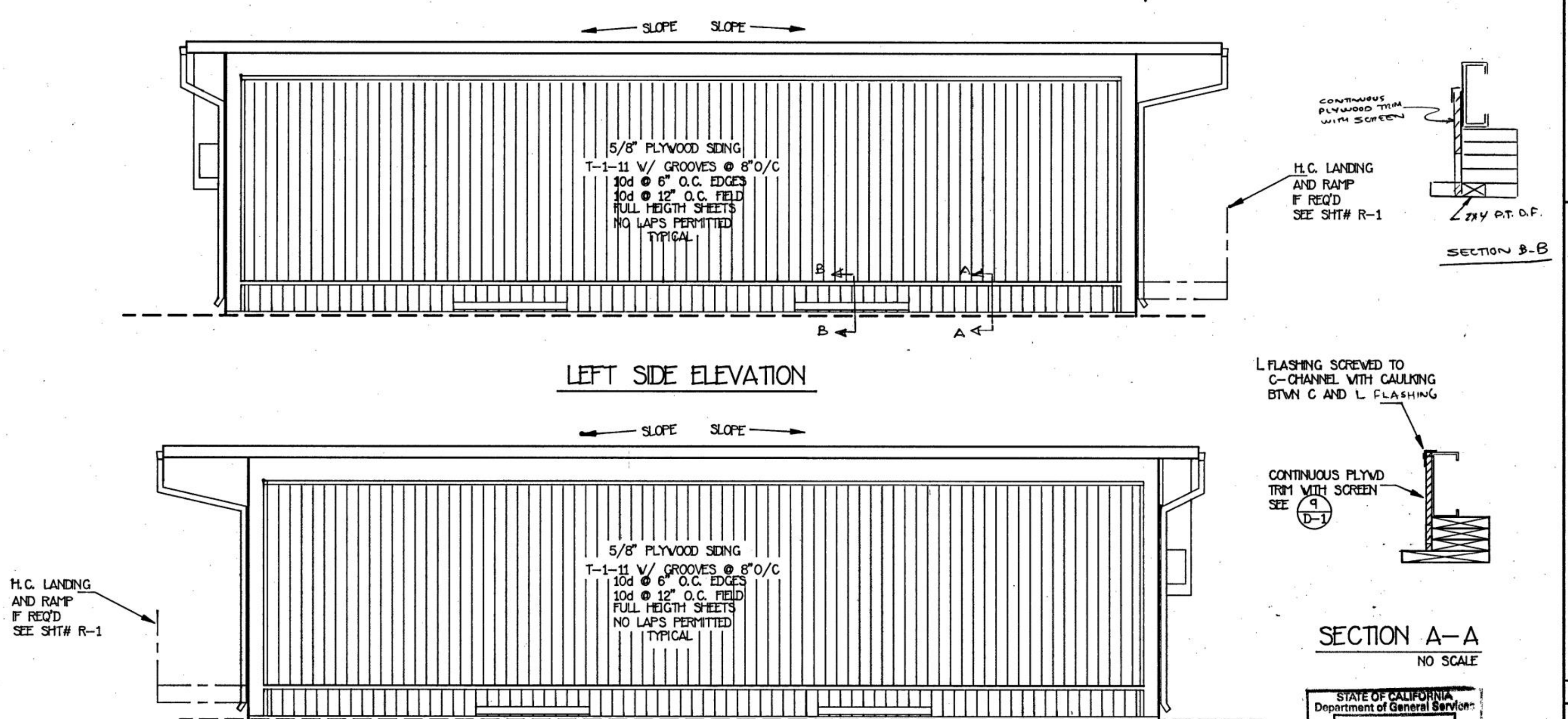
IDENTIFICATION STAMP
Department of General Services
Office of the State Architect
FEB 21 2021
Structural Safety Section
App. # PC-118 Revised
Checked by: *[Signature]*

③ WINDOW/DOOR SCHEDULE



④ EXTERIOR ELEVATIONS

SCALE 1/4"=1'-0"



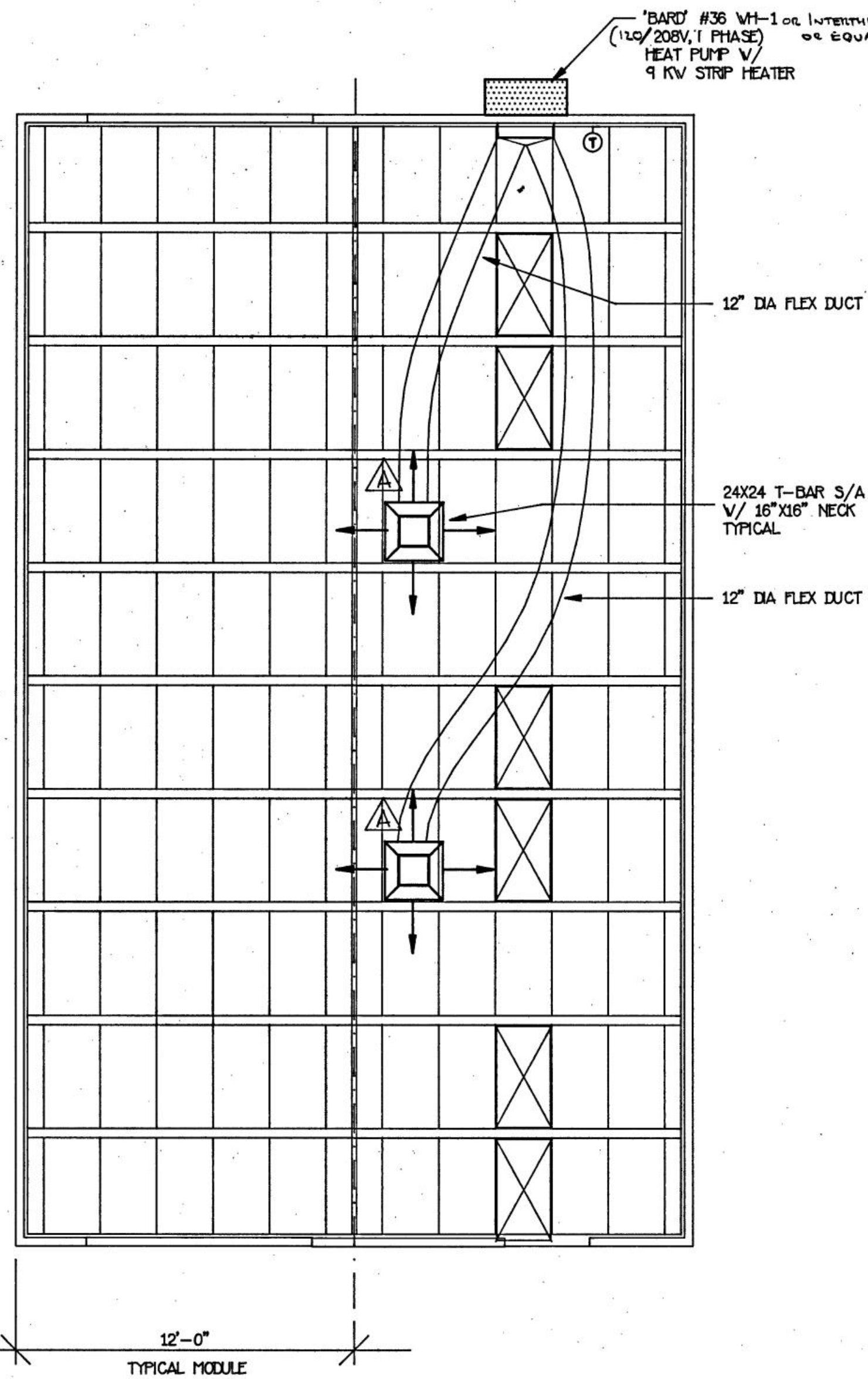
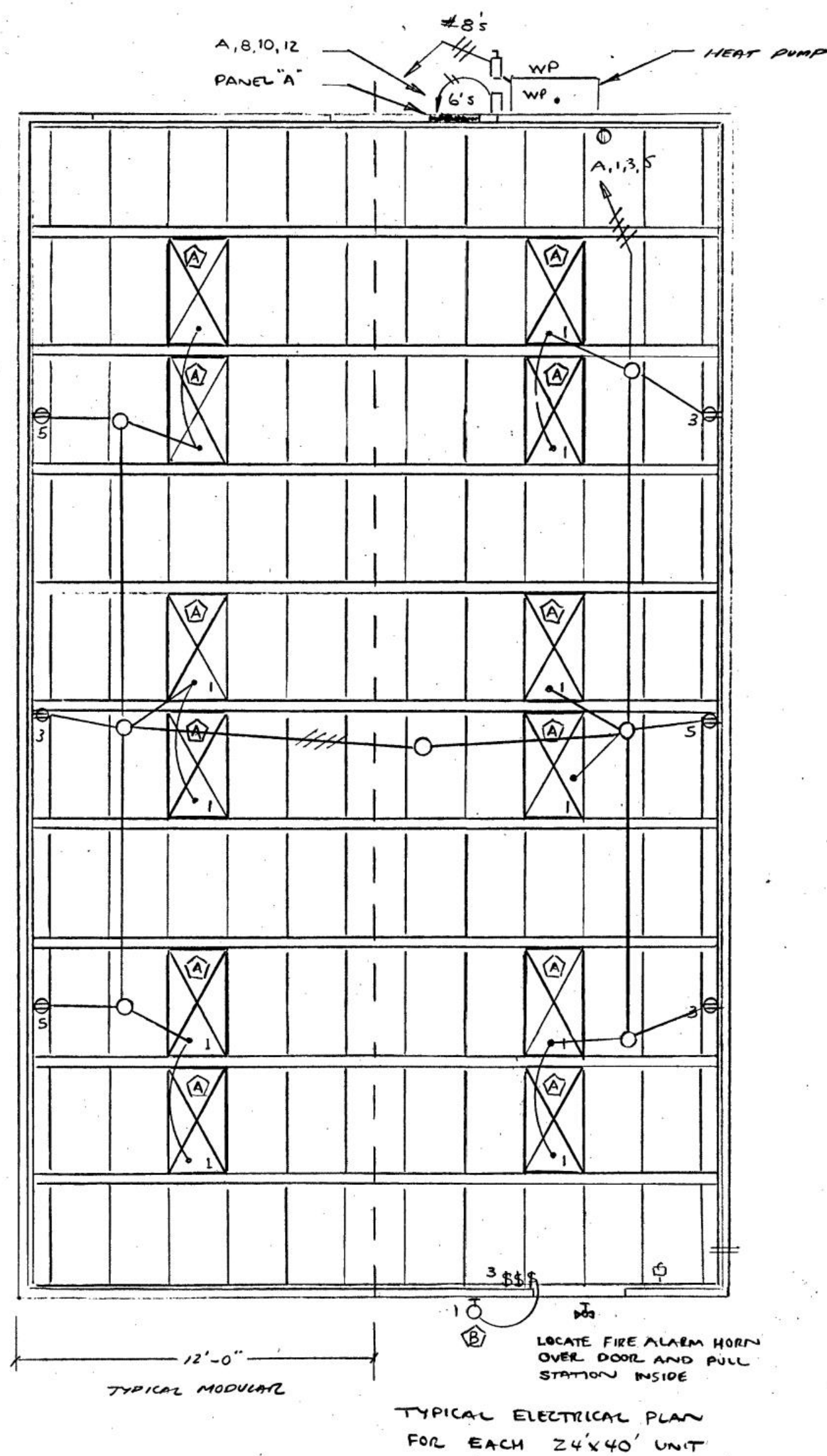
SECTION A-A
NO SCALE

STATE OF CALIFORNIA
Department of General Services
FEB 28 2021
Office of the State Architect

SCALE 1/4"=1'-0"

CENTRAL COAST MODULAR INC.
RELOCATABLE CLASSROOMS
320 WEST MARKET ST. SALINAS CA 93901
TEL (408) 753-1216 FAX (408) 753-0311

SCHAI-2
PROJECT # 90-01
SHEET NUMBER
A-1
OF SHEETS



FOR CALIFORNIA STATE AGENCY USE ONLY:

OFFICE OF STATE FIRE MARSHAL
APPROVED

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Reviewed by: *[Signature]* 2-19-91

NOT FOR CONSTRUCTION

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DIV. OF THE STATE ARCHITECT
APP. 02-117736 INC.
REVIEWED FOR
SS FLS ACS
DATE: 02/13/2020

AIR OUTLET SCHEDULE

TYPE	ITEM	MFR	MODEL	TYPE	ITEM	MFR	MODEL
△	CSD	METALARE	LS-D SERIES	△	VRR	METALARE	4002R0A-0
△	CR	METALARE	CC-5-D				
△	CEG	METALARE	CC-5				

SYMBOL	ABBR.	DESCRIPTION	SYMBOL	ABBR.	DESCRIPTION	
—	—	SUPPLY AIR	—	VD	VOLUME DAMPER	
—	—	RETURN OR EXHAUST AIR	—	TV	AIR TURNING VANES	
—	—	SUPPLY DUCT	—	—	THERMOSTAT-UP 48"	
—	—	RETURN OR EXHAUST DUCT	—	OA	OUTSIDE AIR	
—	—	SUPPLY DUCT	—	WP	WEATHER PROOF	
—	—	RETURN OR EXHAUST DUCT	—	UCN	UNLESS OTHERWISE NOTED	
—	—	CSD	CEILING SUPPLY DIFFUSER	—	VSD	WALL SUPPLY DIFFUSER
—	—	CR	CEILING RETURN REGISTER			
—	—	CEG	CEILING EXHAUST GRILLE			
—	—	VRR	WALL RETURN REGISTER			

NOTES

1. ALL DUCTS SHALL BE RUN TO AVOID ARCHITECTURAL OPENINGS, STRUCTURAL MEMBERS, FIXTURES AND OTHER OBSTRUCTIONS.
2. ALL BRANCH SUPPLY DUCT TAKE OFF'S SHALL HAVE VOLUME DAMPERS.
3. ALL SQUARE ELBOWS IN SUPPLY DUCTWORK SHALL HAVE TURNING VANES.
4. INCREASE SIZE OF DUCTWORK WHERE ACOUSTICAL LINING IS CALLED FOR TO RETAIN INSIDE DIMENSIONS AS NOTED.
5. REFER TO MFR'S CERTIFIED DRAWINGS FOR EXACT DIMENSIONS OF ALL EQUIPMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CHANGES CAUSED BY SUBSTITUTIONS TO MATERIALS SPECIFIED.
6. MAKE CONNECTIONS TO EQUIPMENT AS PER MFR'S CERTIFIED DRAWINGS.
7. DO NOT SCALE FLOOR PLAN DRAWINGS - INSTALL TO FIT FIELD CONDITIONS.
8. FLEXIBLE ROUND DUCTS IN DUCT SIZES AS INDICATED MAY BE USED IN LIEU OF SIZE DUCTS AS SHOWN. ROUND DUCTS SHALL BE "NOFLEX", TYPE N-1, OR EQUIVALENT.

① ELECTRICAL PLAN SCALE 1/4"=1'-0"

ELECTRICAL LEGEND

SYM	DESCRIPTION	SYM	DESCRIPTION
⊠	FLUORESCENT LIGHT FIXTURE	*	FIRE ALARM HORN - UP TO 96" UCN
○	CLG. INCANDESCENT LIGHT FIXTURE	⊠	FIRE ALARM BELL
⊞	WALL INCANDESCENT LIGHT FIXTURE	⊞	FIRE ALARM BREAKGLASS STATION-UP 48"
⊞	DUPLEX RECEPTACLE - UP TO 15"	—	HOME RUN TO PANEL BOARD
⊞	DUPLEX RECEPTACLE - FLOOR MOUNTED	—	QUANTITY OF WIRES IN CONDUIT
⊞	SINGLE POLE SWITCH - UP TO 48"	—	CONDUIT AND WIRE ABOVE CEILING
⊞	TWO-POLE SWITCH - UP TO 48"	—	WIRING BELOW FLOOR OR BELOW GRADE
⊞	THREE-WAY SWITCH - UP TO 48"	—	CLOCK OR SIGNAL CONDUIT
⊞	JUNCTION BOX	—	FIRE ALARM SYSTEM CONDUIT
⊞	MOTOR OUTLET	—	TELEPHONE CONDUIT
⊞	DISCONNECT SWITCH	—	WEATHER PROOF
⊞	THERMOSTAT - UP TO 48"	UCN	UNLESS OTHERWISE NOTED
⊞	CLOCK OUTLET - UP 96"		
⊞	TELEPHONE OUTLET - UP 15"		

ELECTRICAL NOTES

1. ALL EQUIPMENT SHALL BE AS SPECIFIED OR EQUIVALENT
2. SERVICE ENTRANCE CONDUIT SHALL BE RIGID GALVANIZED OR AS NOTED
3. ALL CONDUCTORS SHALL BE COPPER (2) #12-1/2 U.O.N. MINIMUM WIRE SIZE SHALL BE #12 T W
4. ALL CONDUITS AND WIRE SHOWN SHALL BE RUN IN WALLS OR ABOVE CEILING.
5. IF FIXTURE WEIGHS MORE THAN 6 LBS OR EXCEEDS 16" IN DIAMETER, IT SHALL NOT BE SUPPORTED BY THE SOREV. SHELL OF THE LAMPHOLDER. IF FIXTURE WEIGHS MORE THAN 50 LBS, IT SHALL BE SUPPORTED INDEPENDENT OF THE OUTLET BOX. CALIFORNIA ELECTRICAL CODE (C.E.C.)
6. FIXTURE INSTALLATION SHALL COMPLY WITH THE LATEST EDITIONS OF C.E.C. & CALIF STATE BLDG CODE OR APPLICABLE CODES.
7. FLUORESCENT FIXTURES MOUNTED ON LOW DENSITY MATERIAL SHALL BE U.L. LABEL FOR SUCH INSTALLATION

FIRE ALARM SYSTEM

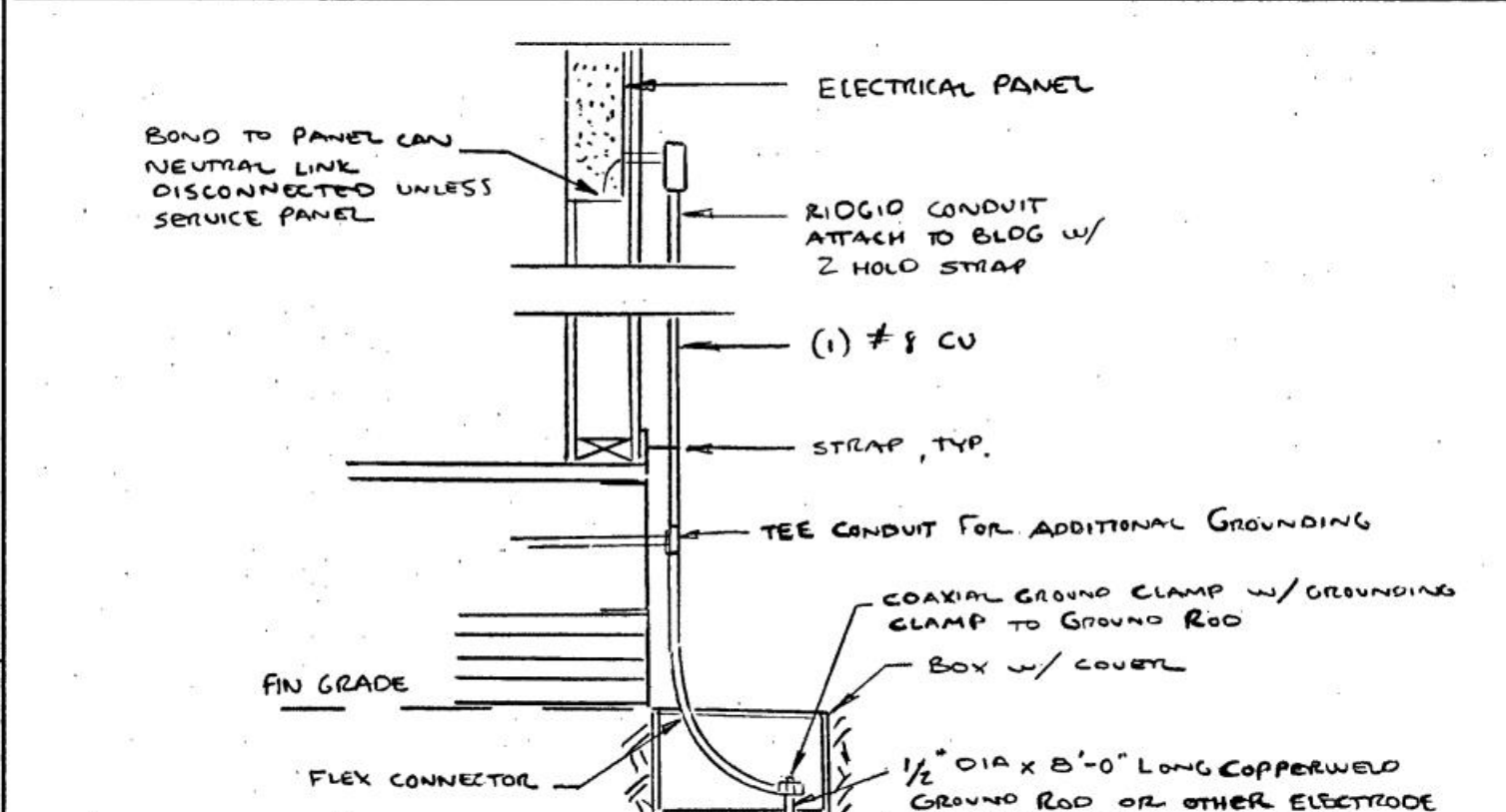
1. FIRE ALARM SHALL CONFORM TO SECTION 809, CALIF BUILDING CODE AND ARTICLE 760, CALIF. ELEC. CODE
2. UPON COMPLETION OF THE INSTALLATION, TESTING OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.
3. COMPONENTS TO BE USED:
COMPONENT _____ MFR'S PART NO. _____ STATE FIRE MARSHAL'S LISTING NO.
FULL STATION _____ NOTIFIER CO. ENG-175 _____ 7150-028.3 (INSIDE ONLY)
HORN _____ NOTIFIER CO. #31-12-V88 _____ 7135-028.42

THE ABOVE ITEMS SHALL BE CONNECTED INTO THE EXISTING FIRE ALARM SYSTEM OF THE SCHOOL.

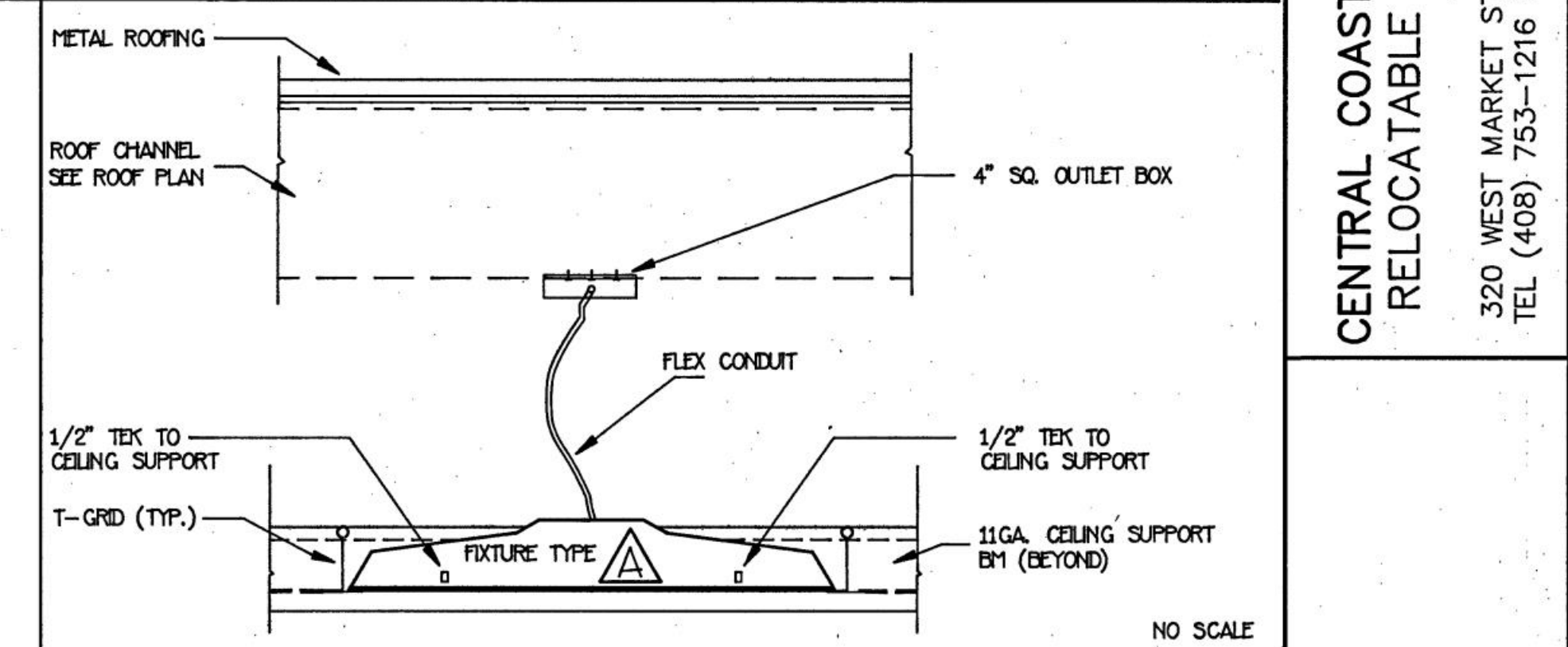
INSTALLATION OF FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAIL PLANS AND SPECIFICATIONS INCLUDE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM AND HAS BEEN APPROVED BY THE STATE FIRE MARSHAL, OSA.

PROVIDE PROOF OF EXISTING FIRE ALARM SYSTEM TO ACCOMMODATE NEW DEVICE AND BE ELECTRICALLY COMPATIBLE. AUDIBLE DEVICES MUST BE OF SIMILAR TONE AS EXISTING FIRE ALARM DEVICES.

② MECHANICAL PLAN SCALE 1/4"=1'-0"



③ MECHANICAL LEGEND



④ ELEC/FIRE ALARM NOTES

LIGHT FIXTURE SCHEDULE

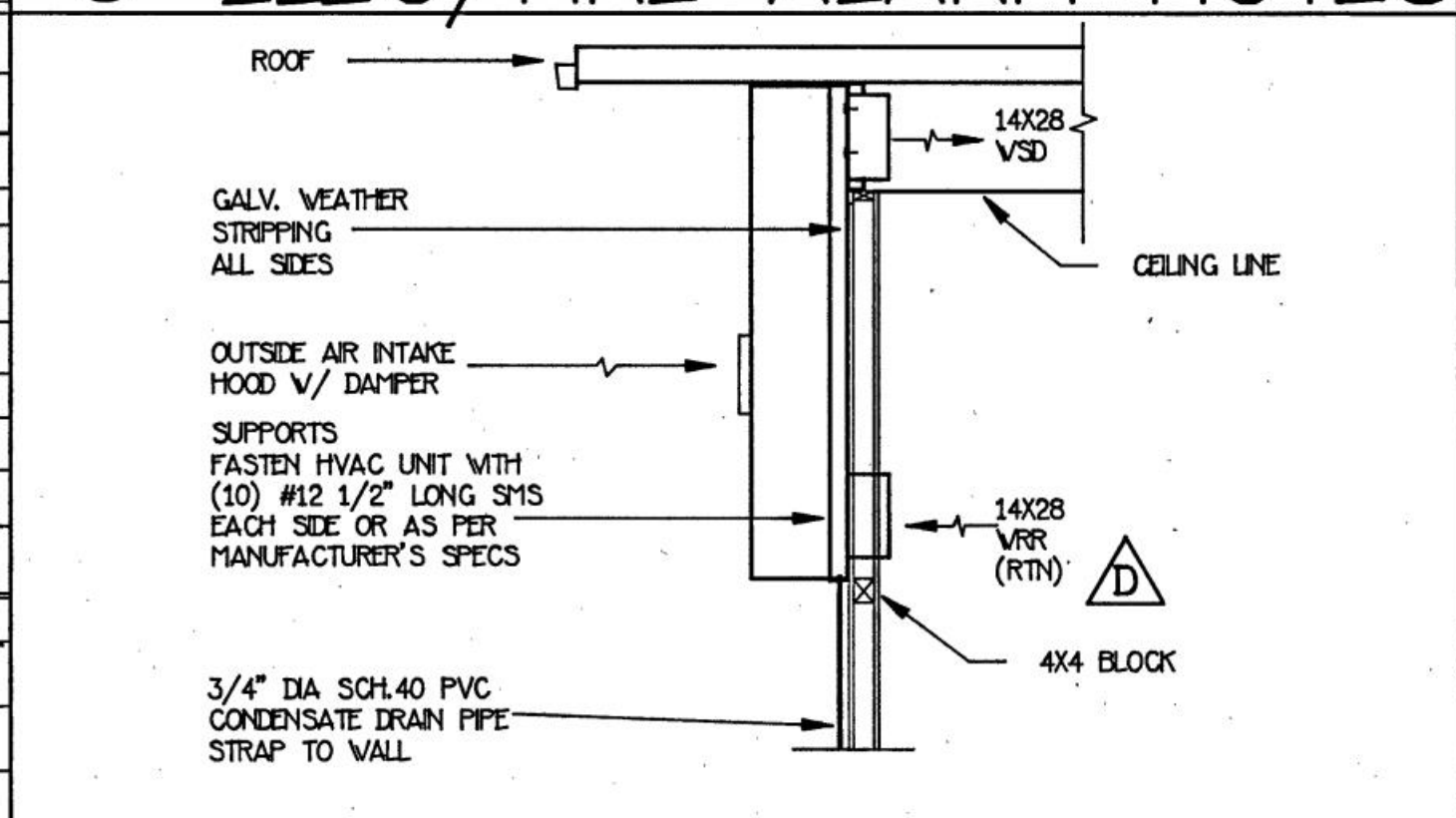
TYPE	DESCRIPTION	TYPE	DESCRIPTION
⊞	WELLMADE #323-12A-248RS/2-F40CV		
⊞	KENALL #3636 / 1-100V		

PANEL SCHEDULE

VOLTAGE	120/208	1, 3W	MOUNTING	FLUSH	MAIN 100/1P BRK	NON-AUTO
LIGHTING - INTERIOR & EXTERIOR	1684	1	20/1		2	2220 HEAT PUMP
RECP	800	3		40/1	4	2220 FLA=18.5
RECP	600	5			6	2220
SPARE		7			8	3000 STRIP HEATER
SPARE		9		50/1	10	3000 9KV
SPARE OR F.A. PANEL		11			12	3000

Amps/Phase	58.4	50.2	48.5
TOTAL KV	7.00	6.02	5.82

④ ELEC/FIRE ALARM NOTES



⑤ ELEC SERVICE GROUND (N.E.C.)

NOTES

- 1) SIZE OF CONDUCTORS SHALL COMPLY WITH C.E.C. TABLE 250-95
- 2) BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL FRAME (C.E.C. 250-81) IN ADDITION TO THE DETAIL SHOWN THIS PAGE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10'-0" INTO THE SOIL. IF AVAILABLE, (C.E.C. 250-81 & 250-83)
- 3) ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER, INCLUDING METAL HC RAMP (BOLTING ONLY IS NOT ACCEPTABLE BONDING)
- 4) CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN, SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (C.E.C. 250-84)

AT PORTABLE BLDG. PROVIDE THE FOLLOWING

1. ADD GROUND BAR KIT TO (E) PANEL TRANSFER GROUNDING WIRES TO GROUND BAR.
2. CONNECT GROUNDING CONDUCTOR FROM DISTRIBUTION PANEL TO GROUND BAR.
3. BOND GROUND BAR TO NEUTRAL BAR WITH #6 CU.
4. PROVIDE #6 CU TO (E) GROUND ROD (IF NONE, PROVIDE 5/8" DIA X 12'-0" COPPERWELD IN VAULT.)
5. BOND BUILDING METAL AND WATER PIPES (INTERIOR AND UNDERGROUND) IF ANY, WITH #6 CU TO GROUND BAR.

⑥ LIGHT FIXTURE MOUNTING

NOTES

- 1) SIZE OF CONDUCTORS SHALL COMPLY WITH C.E.C. TABLE 250-95
- 2) BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL FRAME (C.E.C. 250-81) IN ADDITION TO THE DETAIL SHOWN THIS PAGE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10'-0" INTO THE SOIL. IF AVAILABLE, (C.E.C. 250-81 & 250-83)
- 3) ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER, INCLUDING METAL HC RAMP (BOLTING ONLY IS NOT ACCEPTABLE BONDING)
- 4) CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN, SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (C.E.C. 250-84)

⑦ ELEC PANEL/SCHEDULE

⑧ HEAT PUMP INSTALLATION

⑤ ELEC SERVICE GROUND (N.E.C.)

④ NOT USED

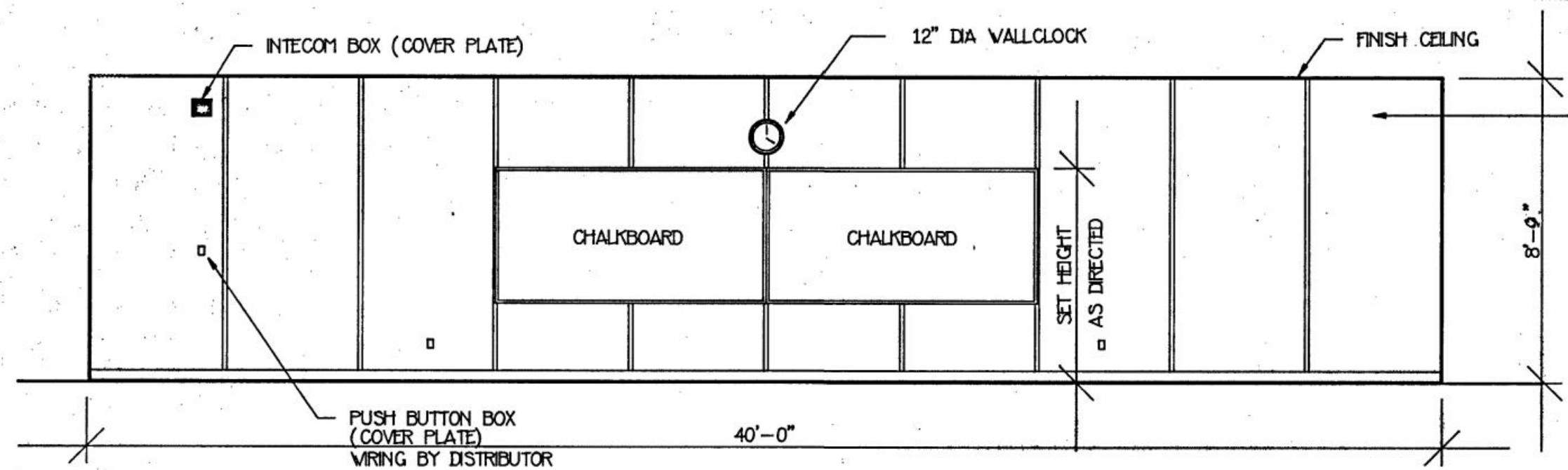


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RELOCATABLE CLASSROOMS
320 WEST MARKET ST. SALINAS CA 93901
TEL (408) 753-1216 FAX (408) 753-0311

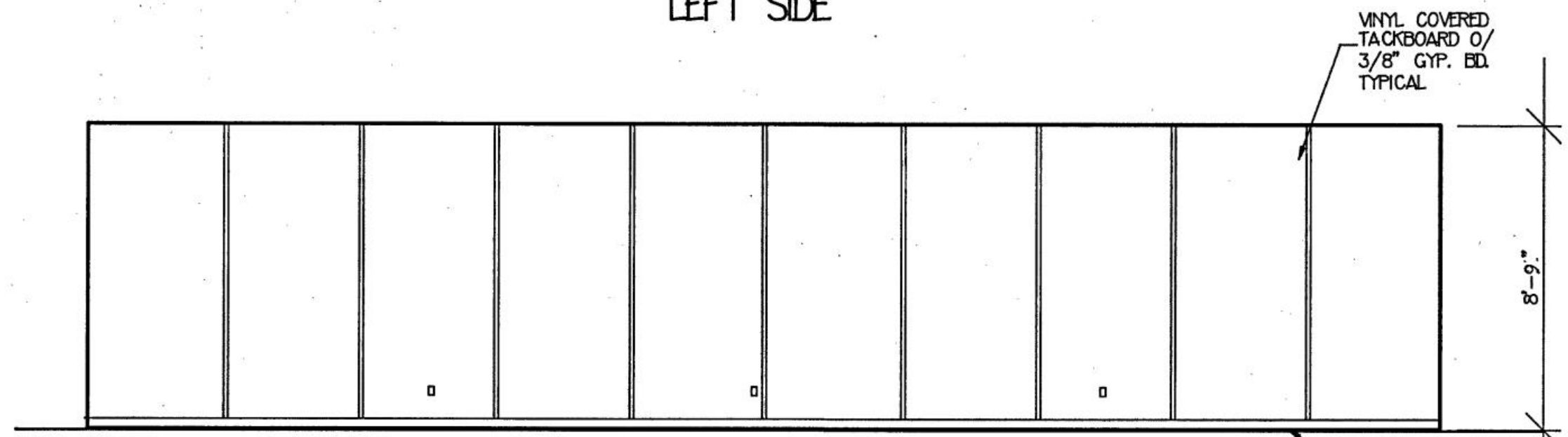
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FEB 21 1991
Structural Safety Section
App # PC-118 Revised
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Structural Safety Section

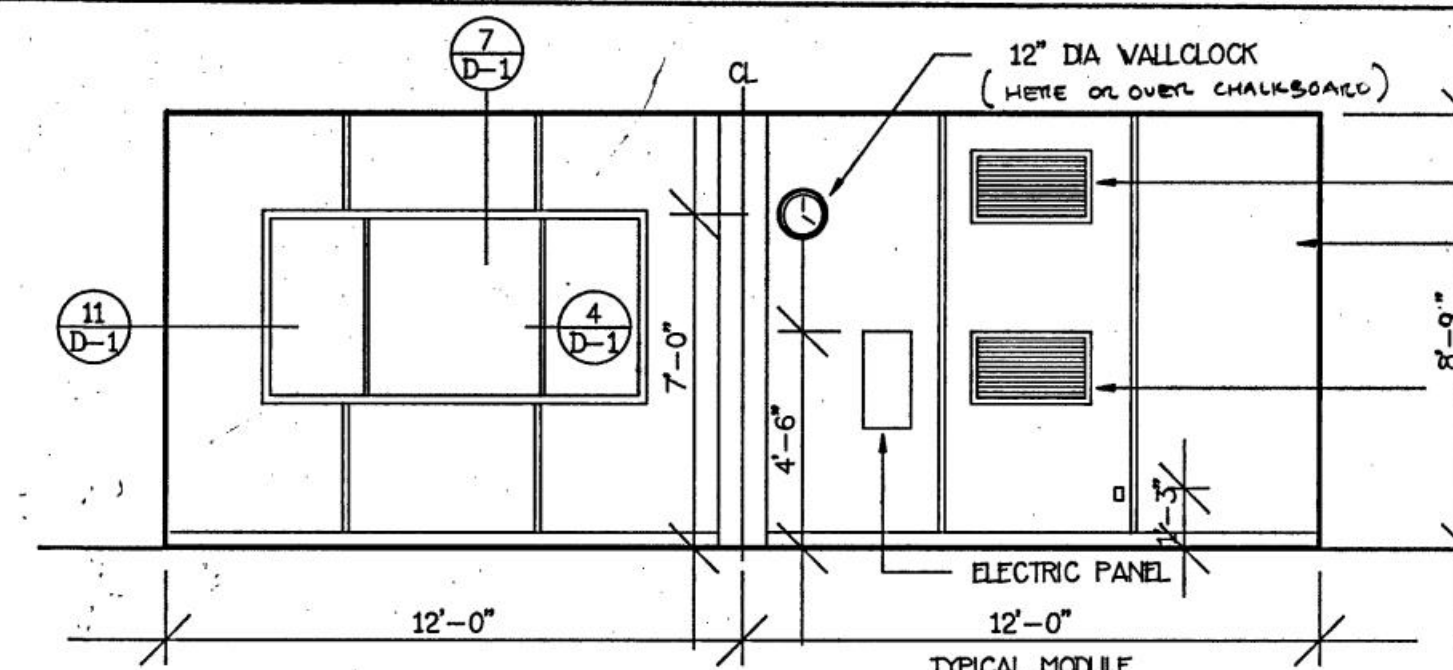
SOIIE-2
PROJECT # 90-01
SHEET NUMBER
M-1, E-1
OF SHEETS



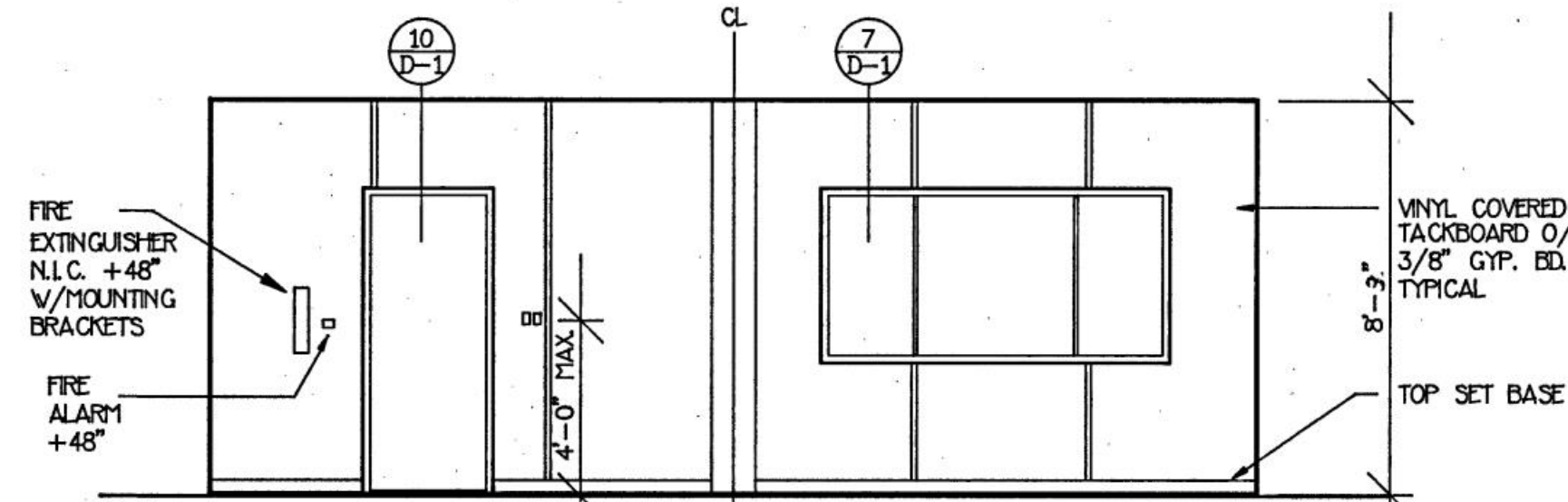
ELEVATION A
LEFT SIDE



ELEVATION C
RIGHT SIDE



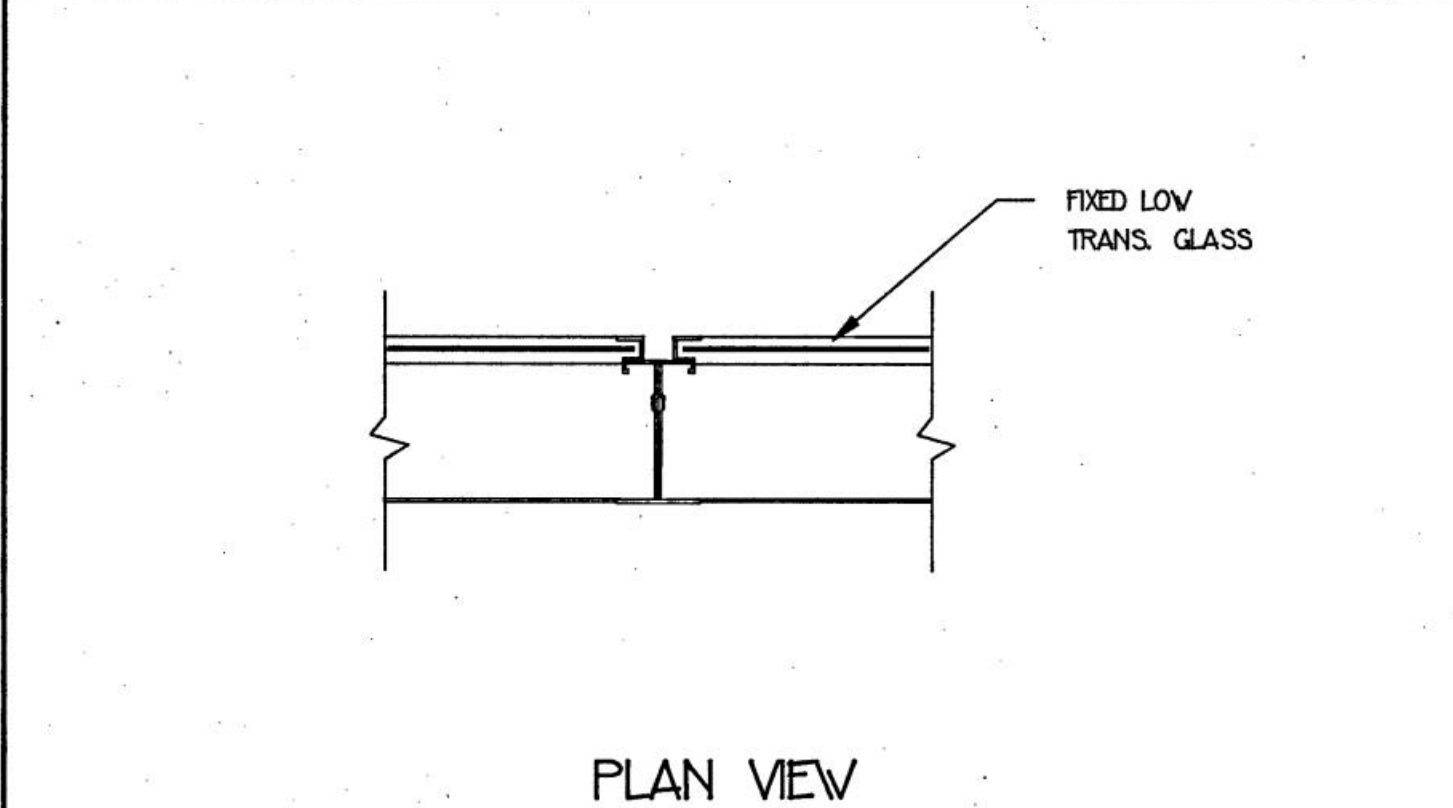
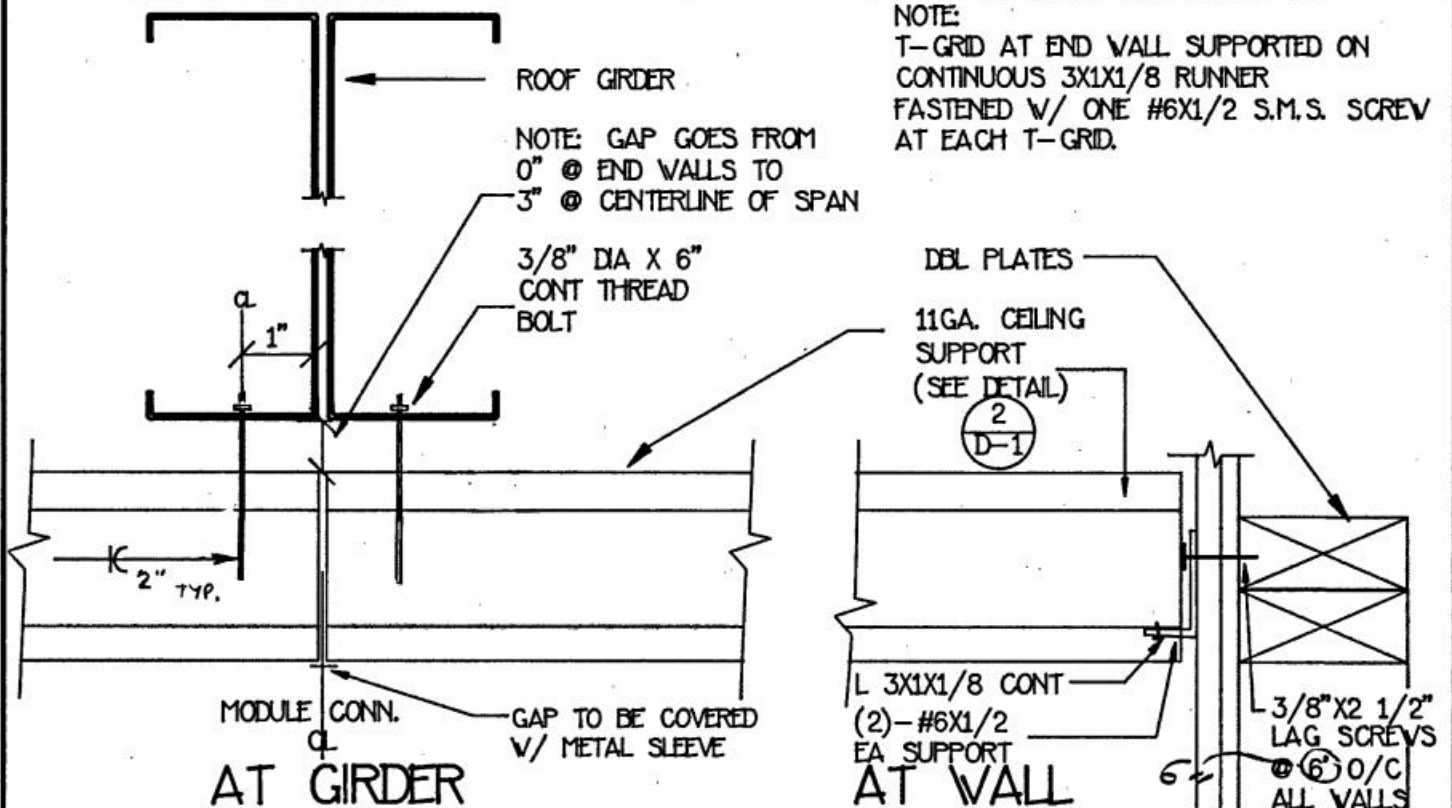
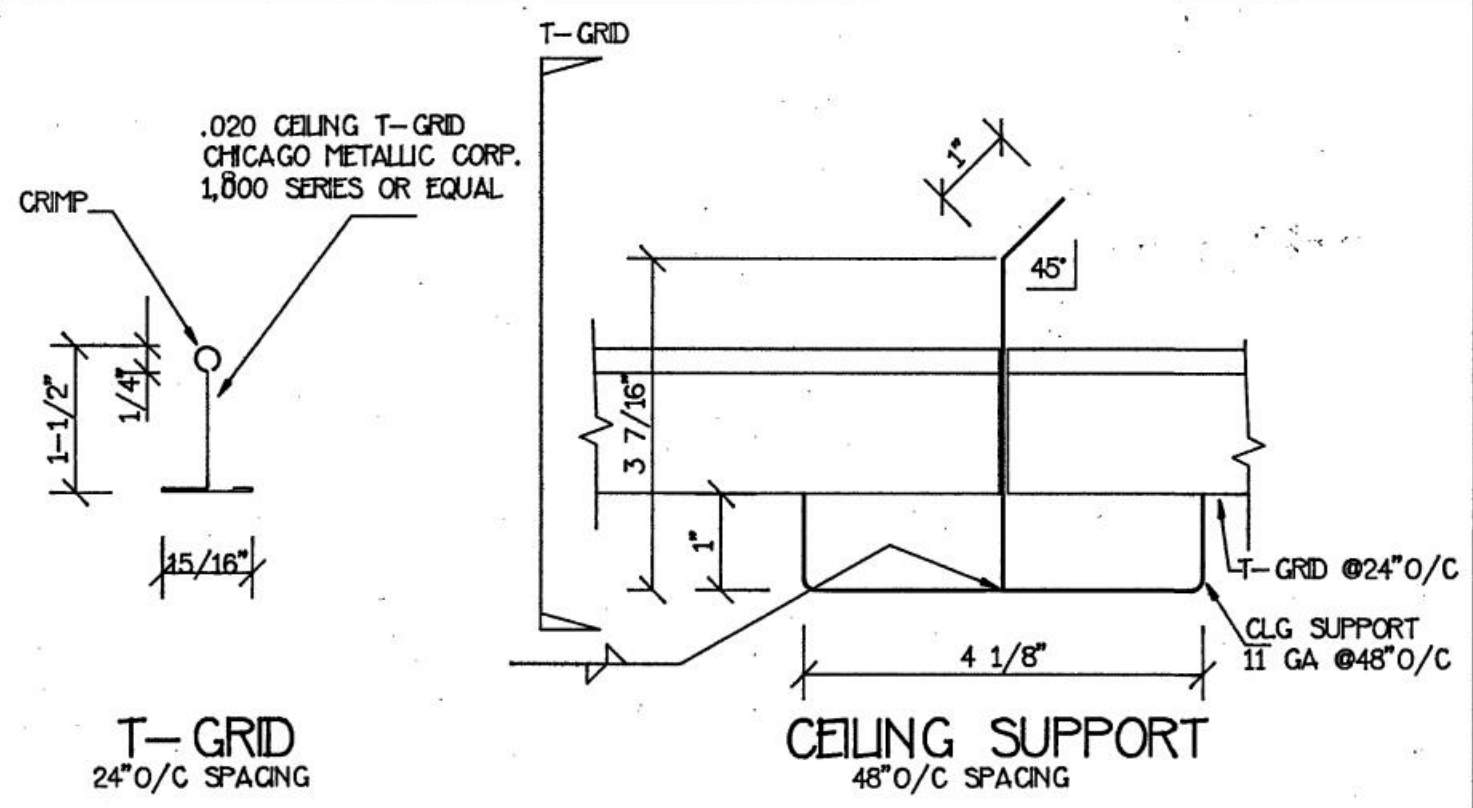
ELEVATION D
REAR WALL



ELEVATION B
FRONT WALL

① INTERIOR ELEVATIONS

SC 1/4"=1'-0"

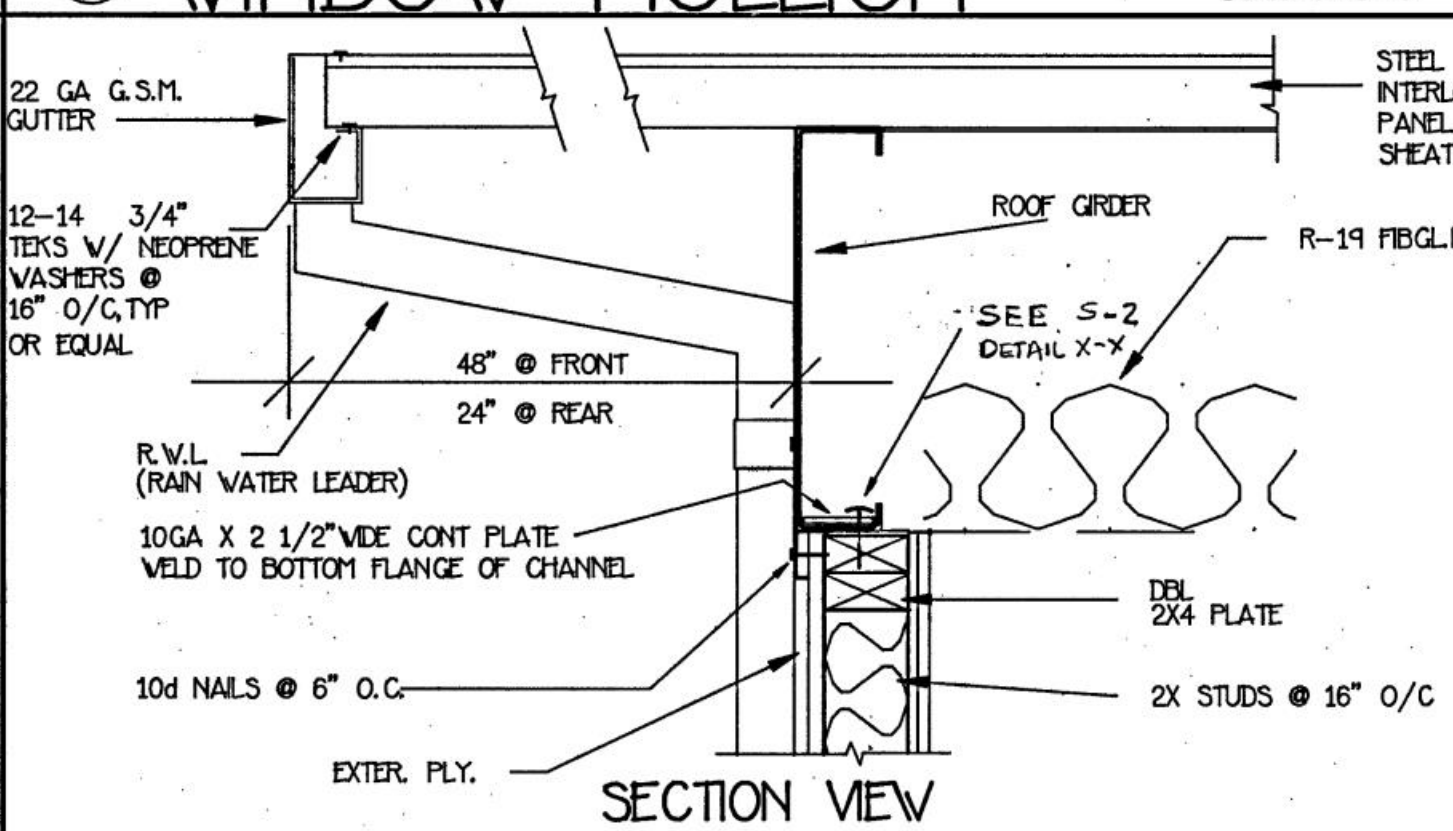
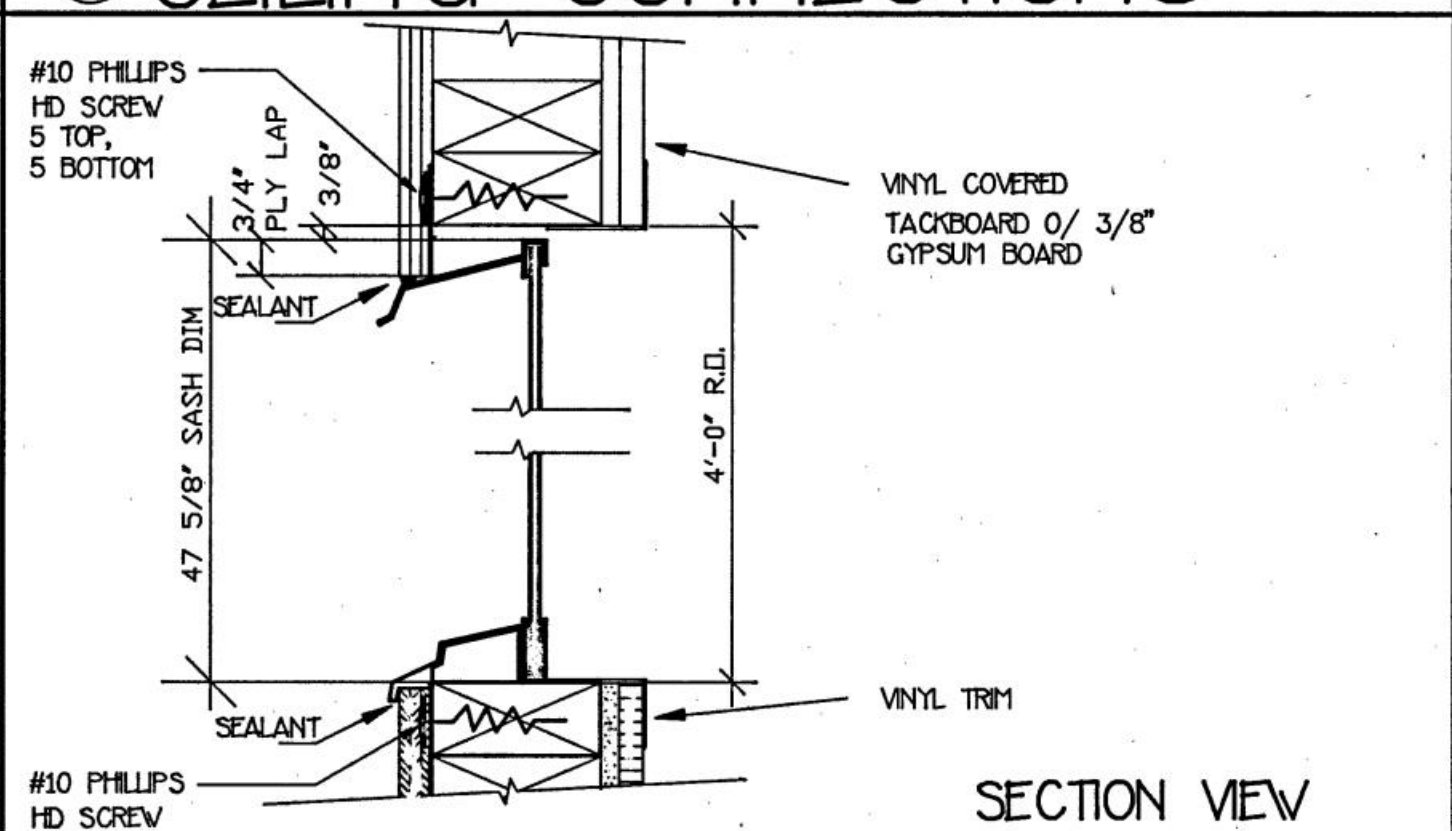
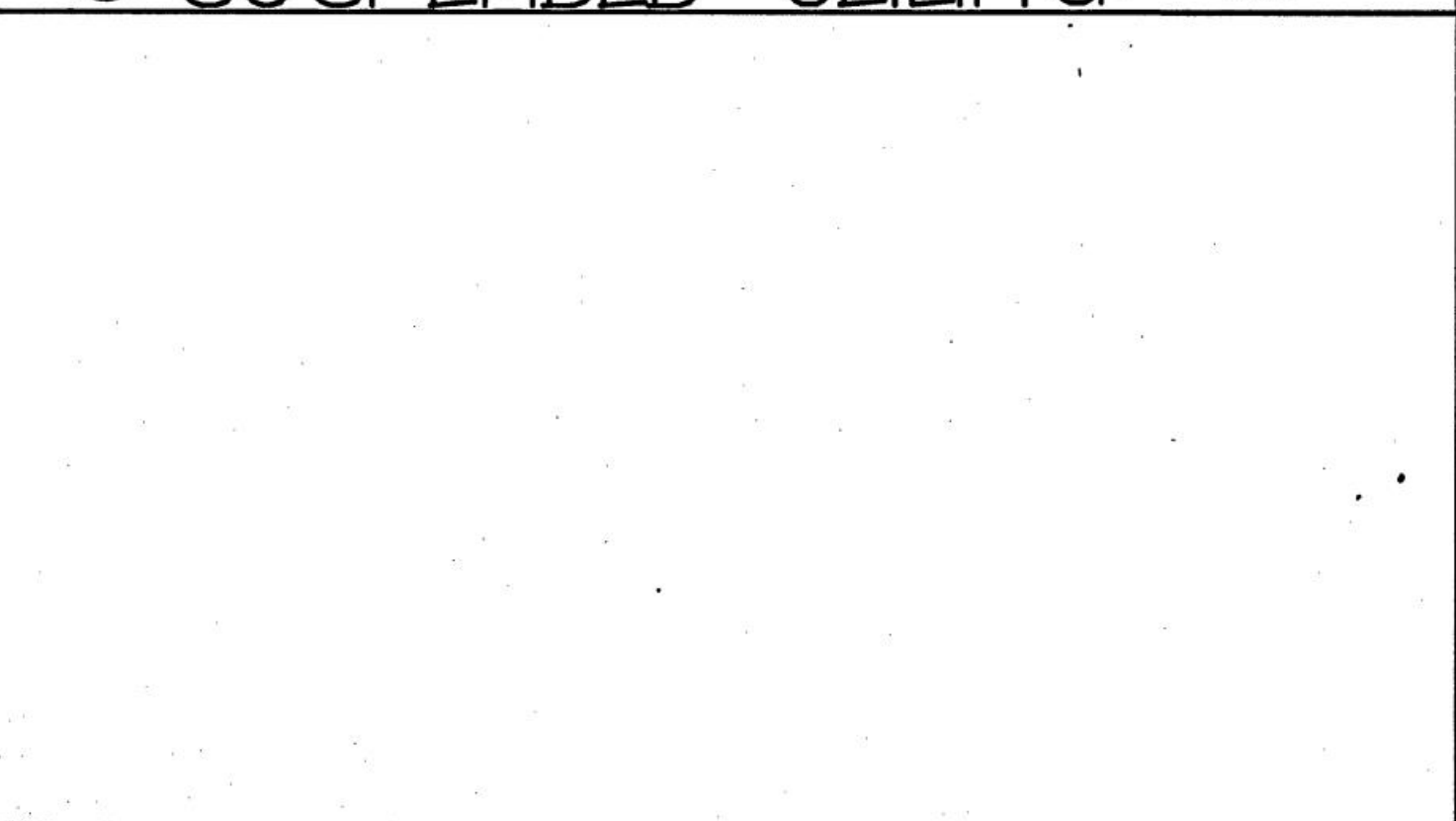


PLAN VIEW

② SUSPENDED CEILING

③ CEILING CONNECTIONS

④ WINDOW MULLION

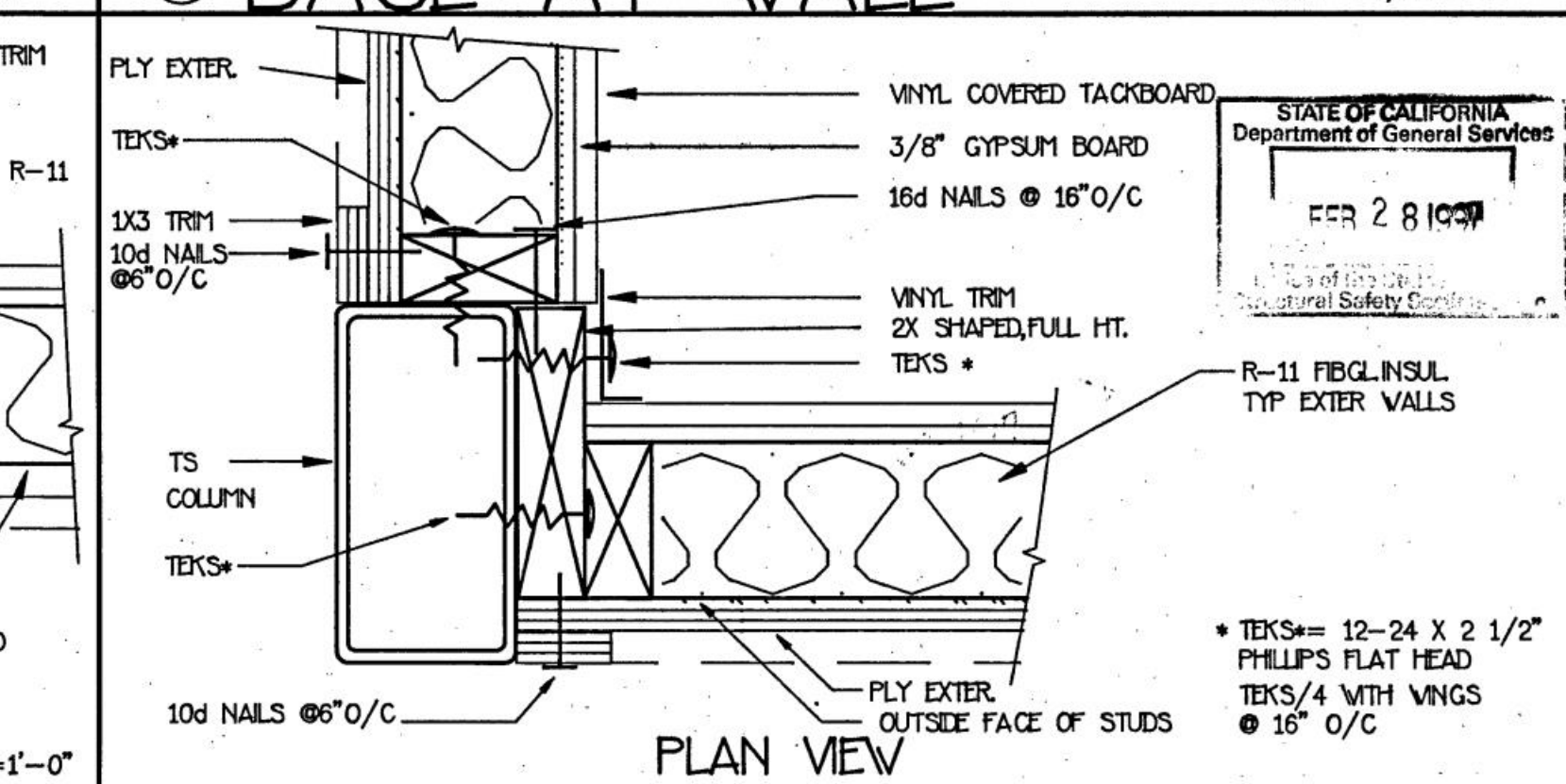
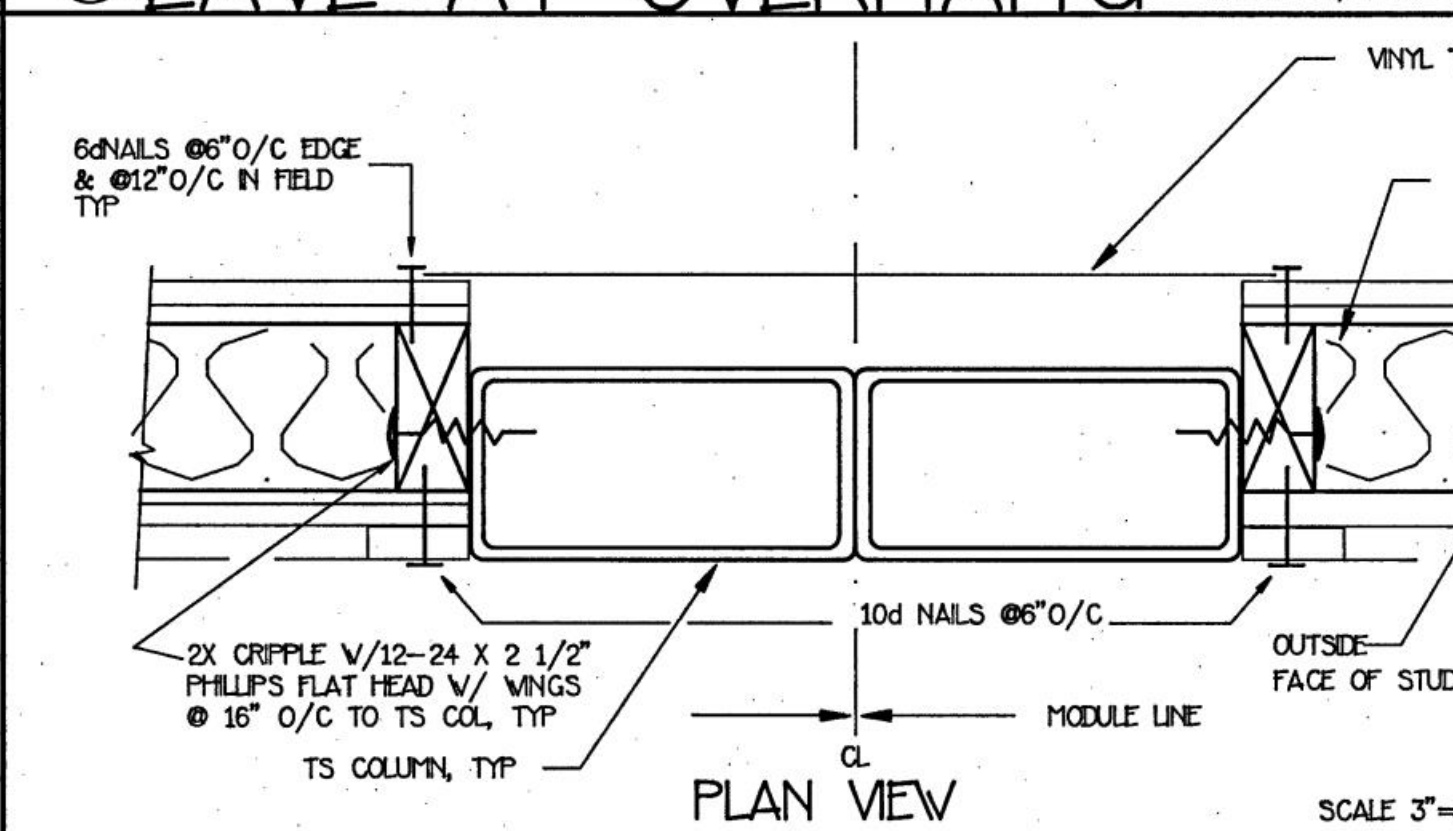
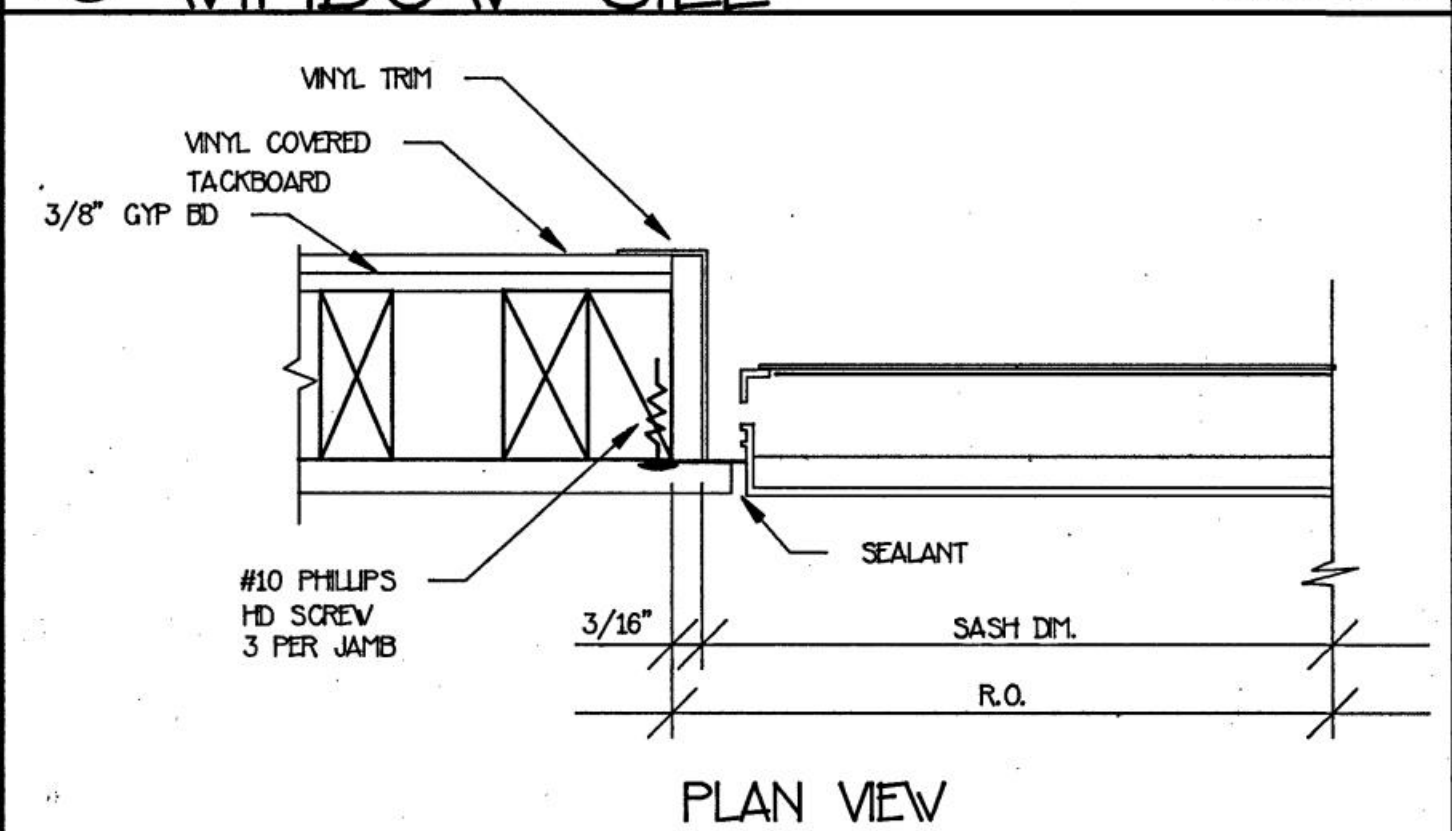
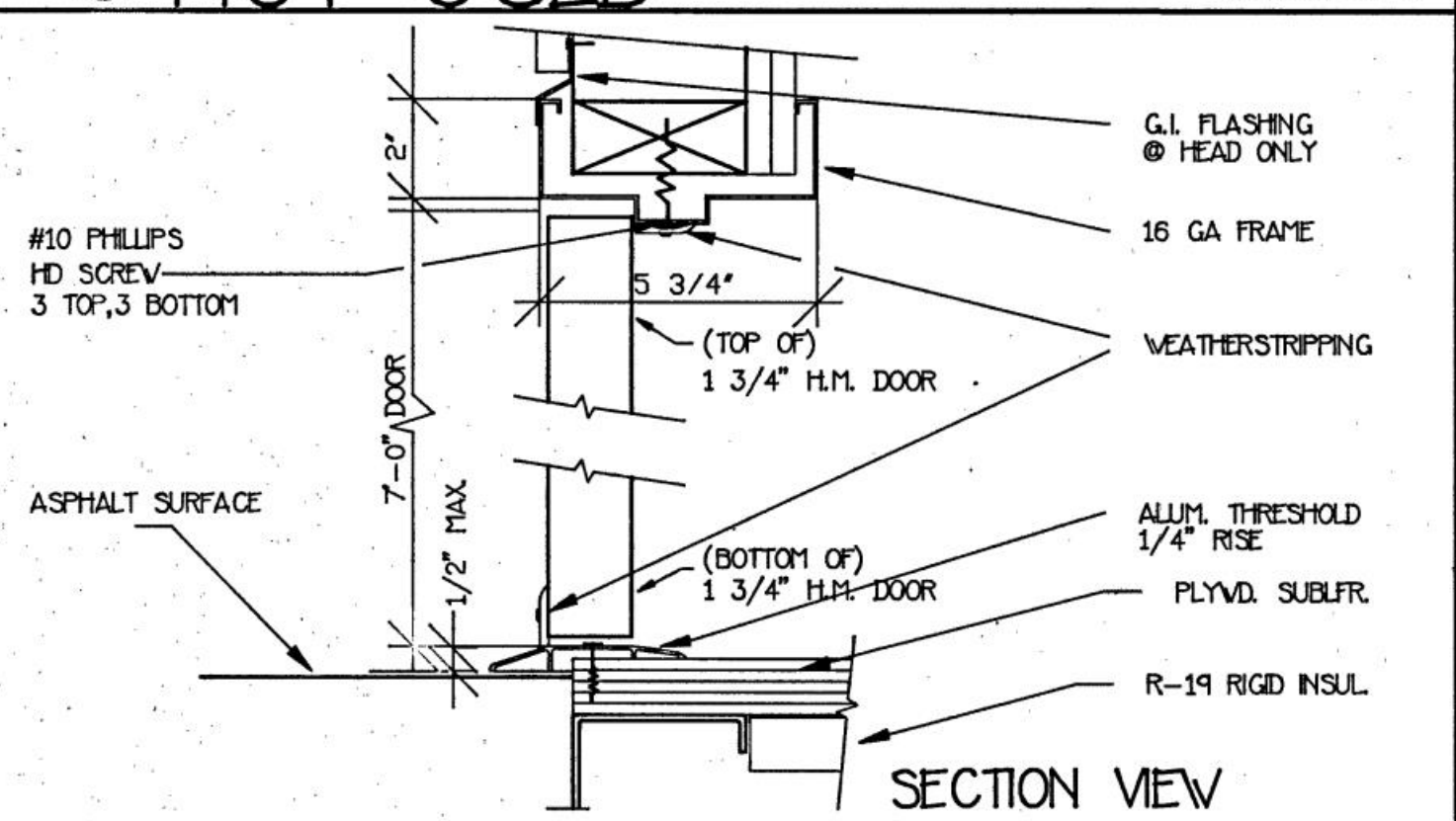


⑥ NOT USED

⑦ WINDOW SILL

⑧ EAVE AT OVERHANG

⑨ BASE AT WALL



⑩ DOOR BASE & HEAD

⑪ WINDOW JAMB

⑫ MODULE JOINT AT WALL

⑬ CORNER AT WALL

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Reviewed by: *J. J. 2-19-91*

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ROOM	NO.	FLOOR	CARPET	VINYL ASPRESTOS TILE	LINOLEUM	VINYL TOP SET	LINOLEUM COVE	GYP. BOARD	VINYL COVERED TACKBOARD	1/8" MARBLE WALLBOARD	GYP. BOARD	SUSPENDED ACOUSTICAL	METAL PANEL	WOOD PANEL	HT	TRM	DATE	REV	DESCRIPTION
CLASSROOM	1														8'-9"		2-10-91		
	2																		
	3																		
	4																		

FINISH NOTES:

- FURNISH PREFINISHED CHALKBOARDS WHERE SHOWN ON PLANS.
- CABINET WORK WHERE SHOWN SHALL BE PREFINISHED.
- COUNTER TOPS WHERE SHOWN SHALL BE LAMINATED PLASTIC.

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DETAILS

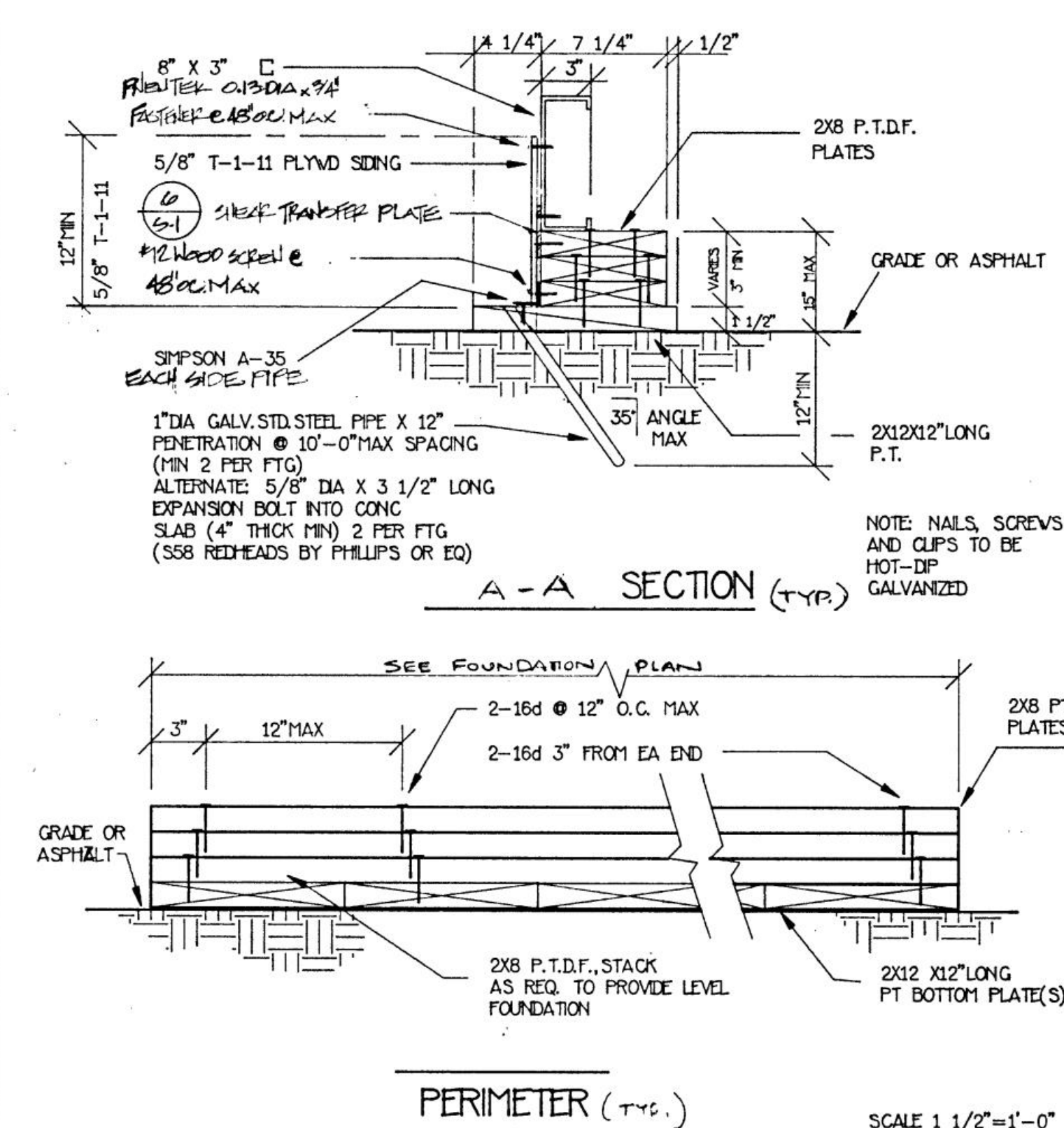
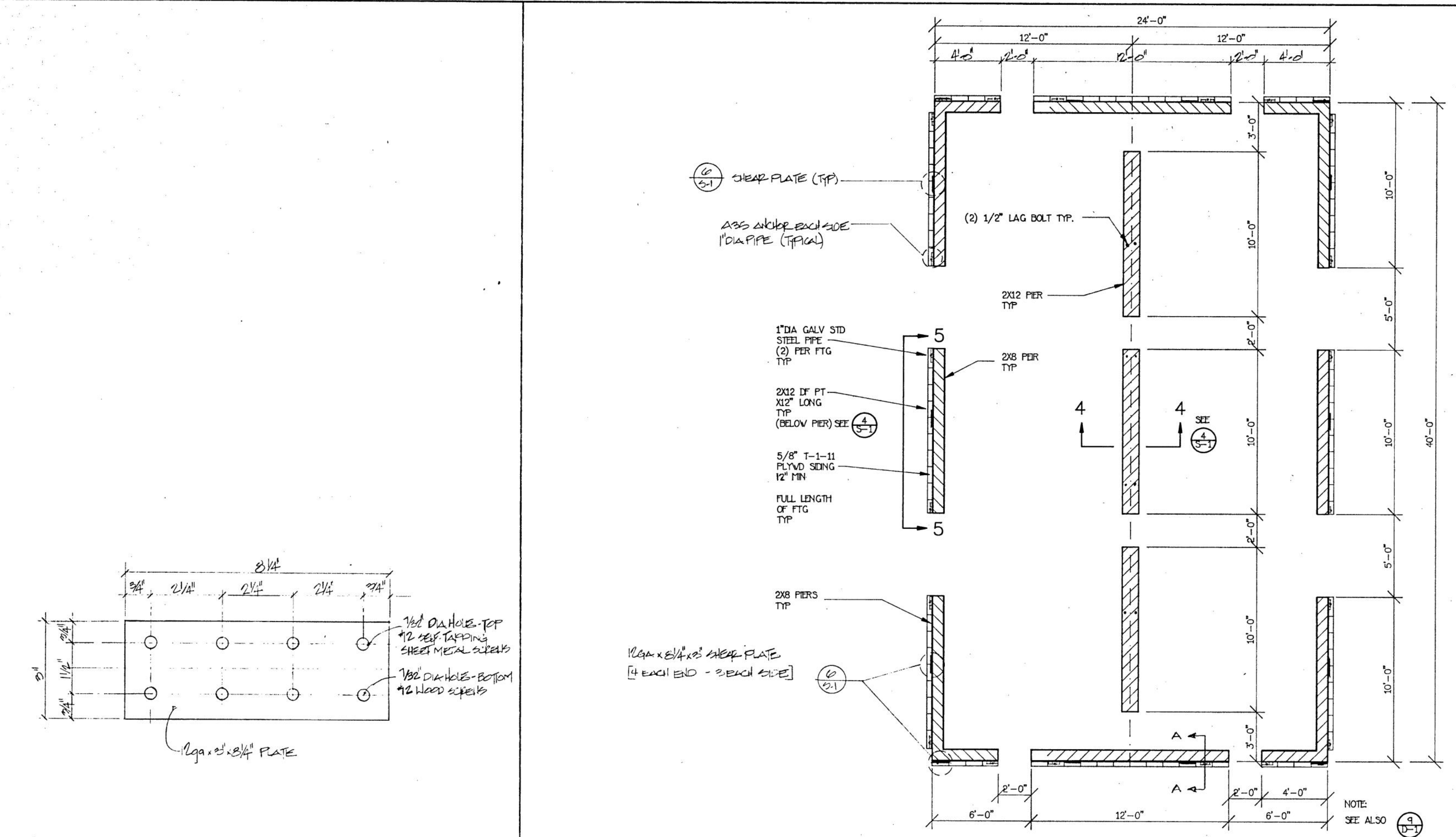
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SHEET NUMBER D-1
OF SHEETS

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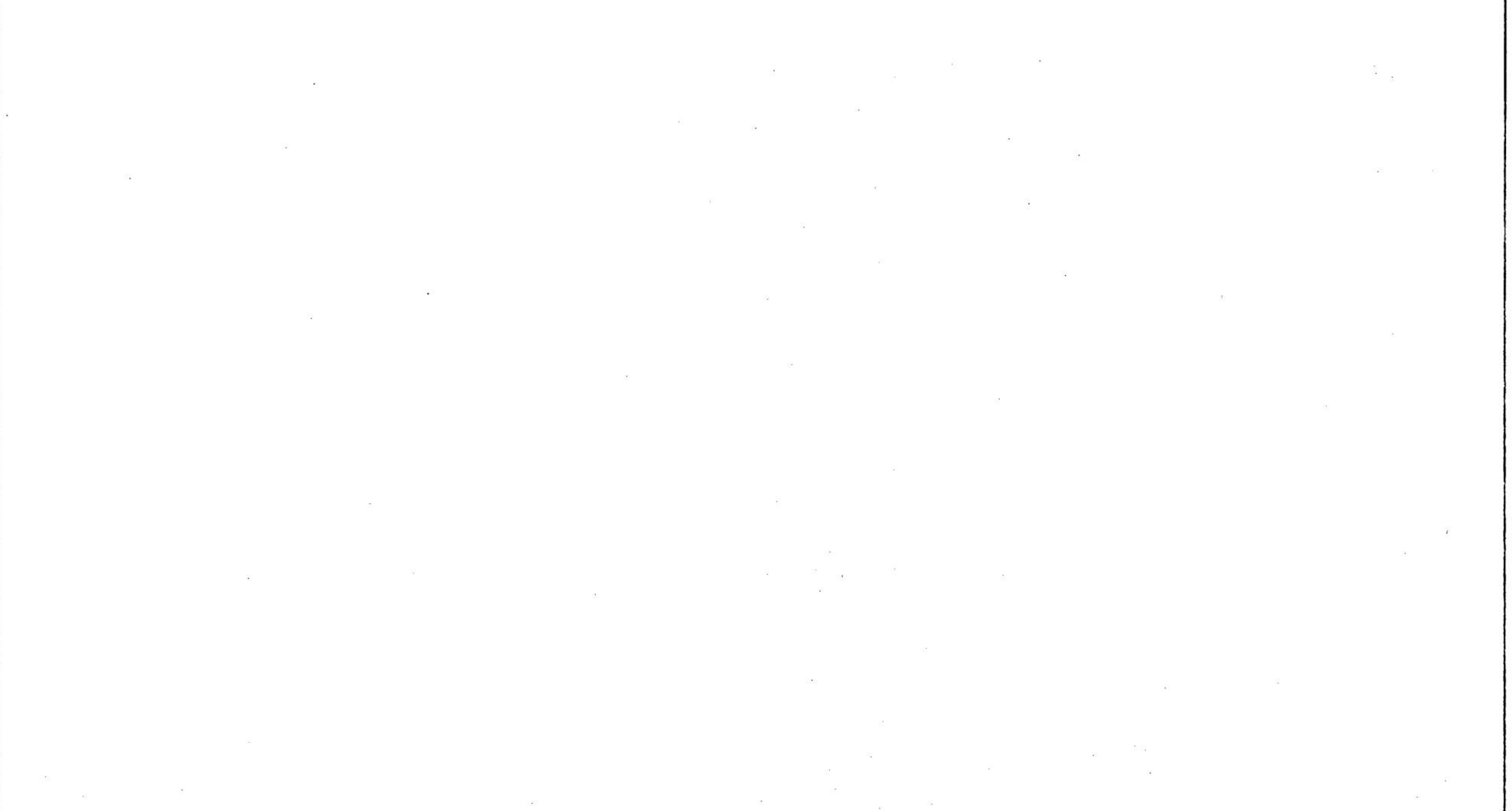
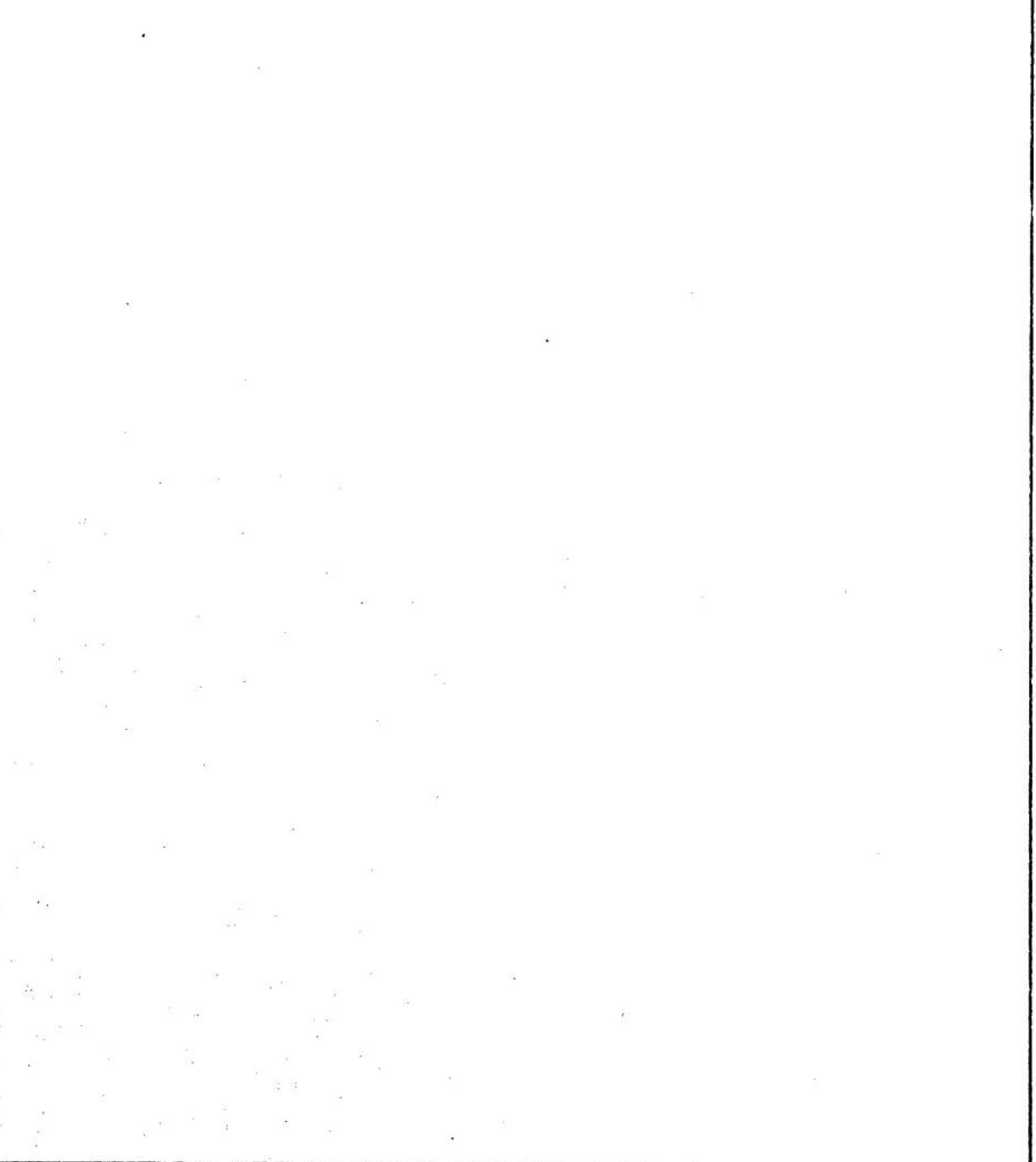
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(1) SHEAR TRANSFER PLATE SCALE: HALF SIZE

(2) FOUNDATION PLAN-2 MODULE BUILDING SCALE 1/4"=1'-0"

(3) TYP PIER AT FOUNDATION SCALE 1 1/2"=1'-0"



(4) NOT USED SCALE 1"=1'-0"

(5) TYP PIER AT FOUNDATION SCALE 1 1/2"=1'-0"

DESCRIPTION	
DATE	11/18/11
REV	
DATE	11/18/11
DRAWN	YAG
CHECK	YAG

GERALD A. GRAEBE & ASSOCIATES
 Structural & Civil Engineers
 1540 CANTON ST., SUITE 100
 MONTEREY, CALIF. 94033
 TEL: (408) 422-6408
 FAX: (408) 422-6409

REGISTERED PROFESSIONAL ENGINEER
 No. 1,373
 EXP. 3/31/23
 STATE OF CALIFORNIA

CENTRAL COAST MODULAR INC
 RELOCATABLE CLASSROOMS
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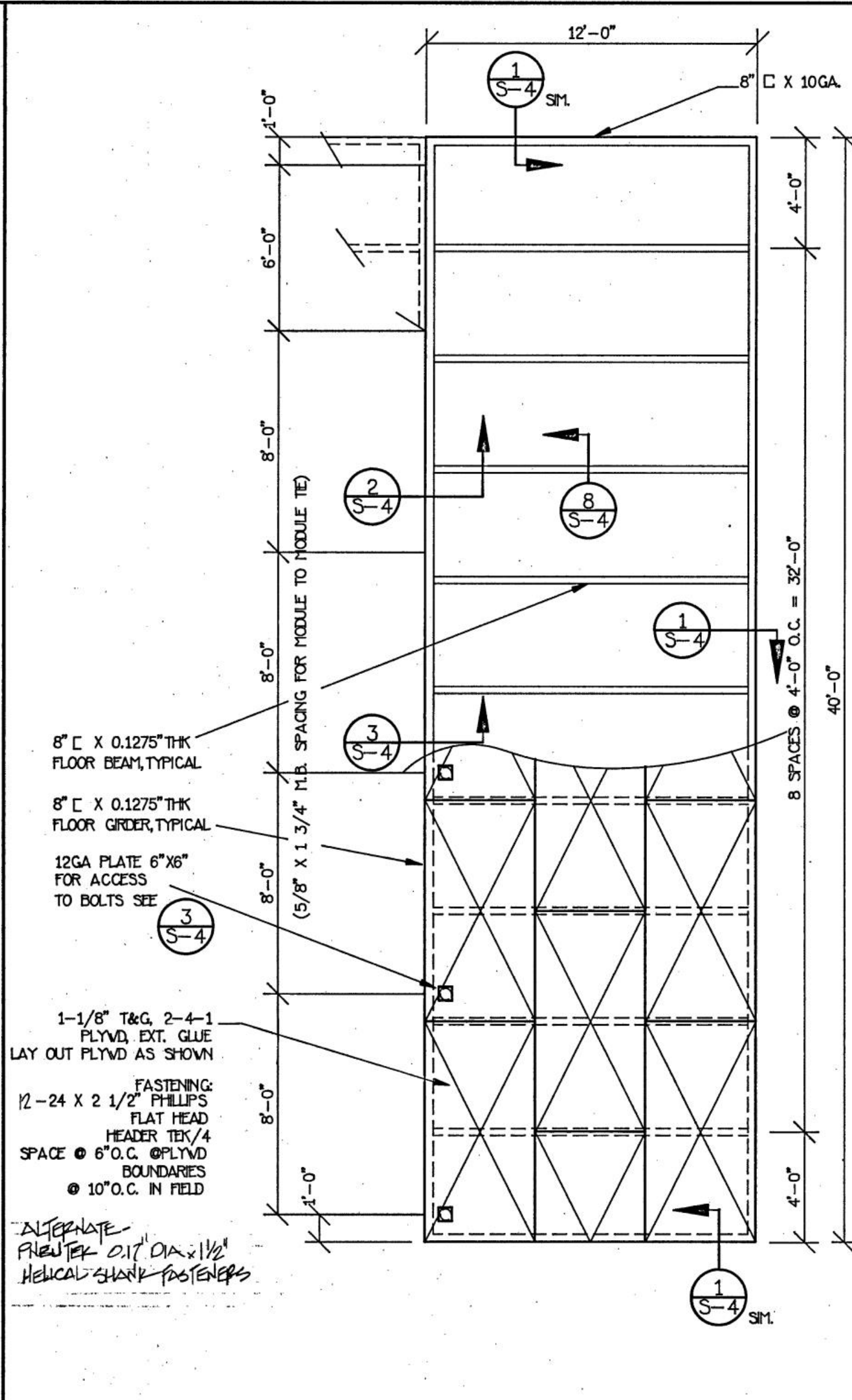
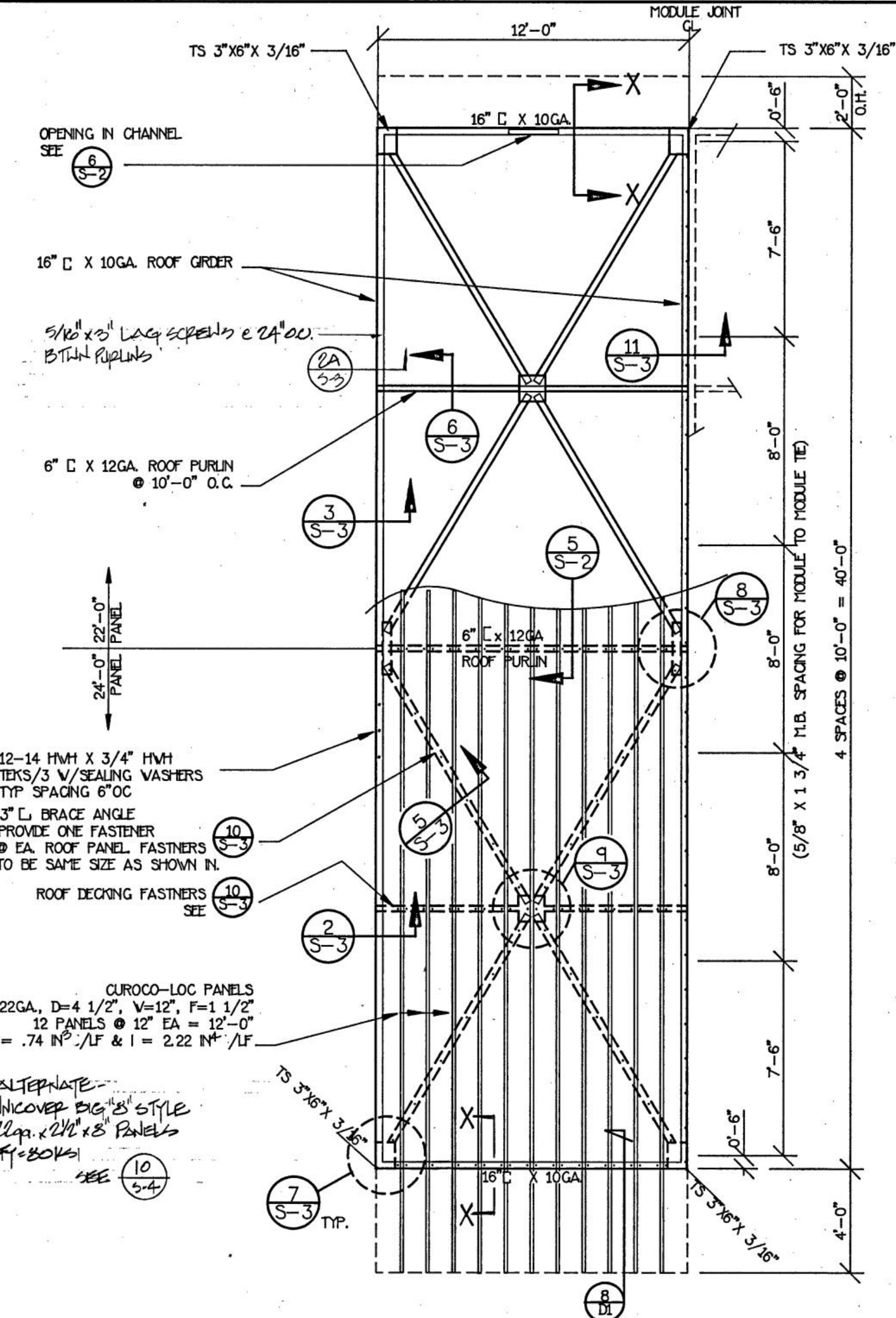
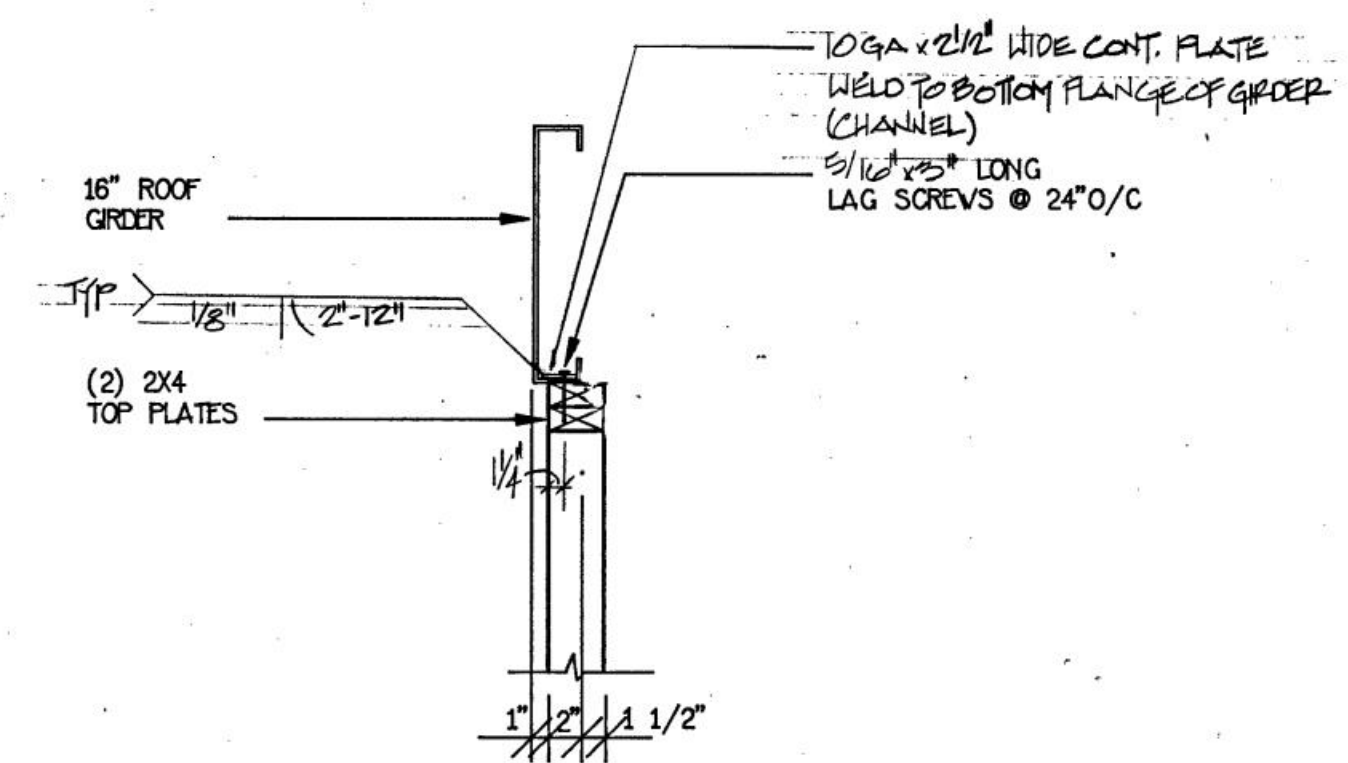
DATE	REV	DESCRIPTION
1/1/89	1	DESIGN
1/1/89	2	DRAWN
1/1/89	3	CHECK

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Structural & Civil Engineers
154 W. San Luis St.
San Jose, CA 95101
(408) 422-6409



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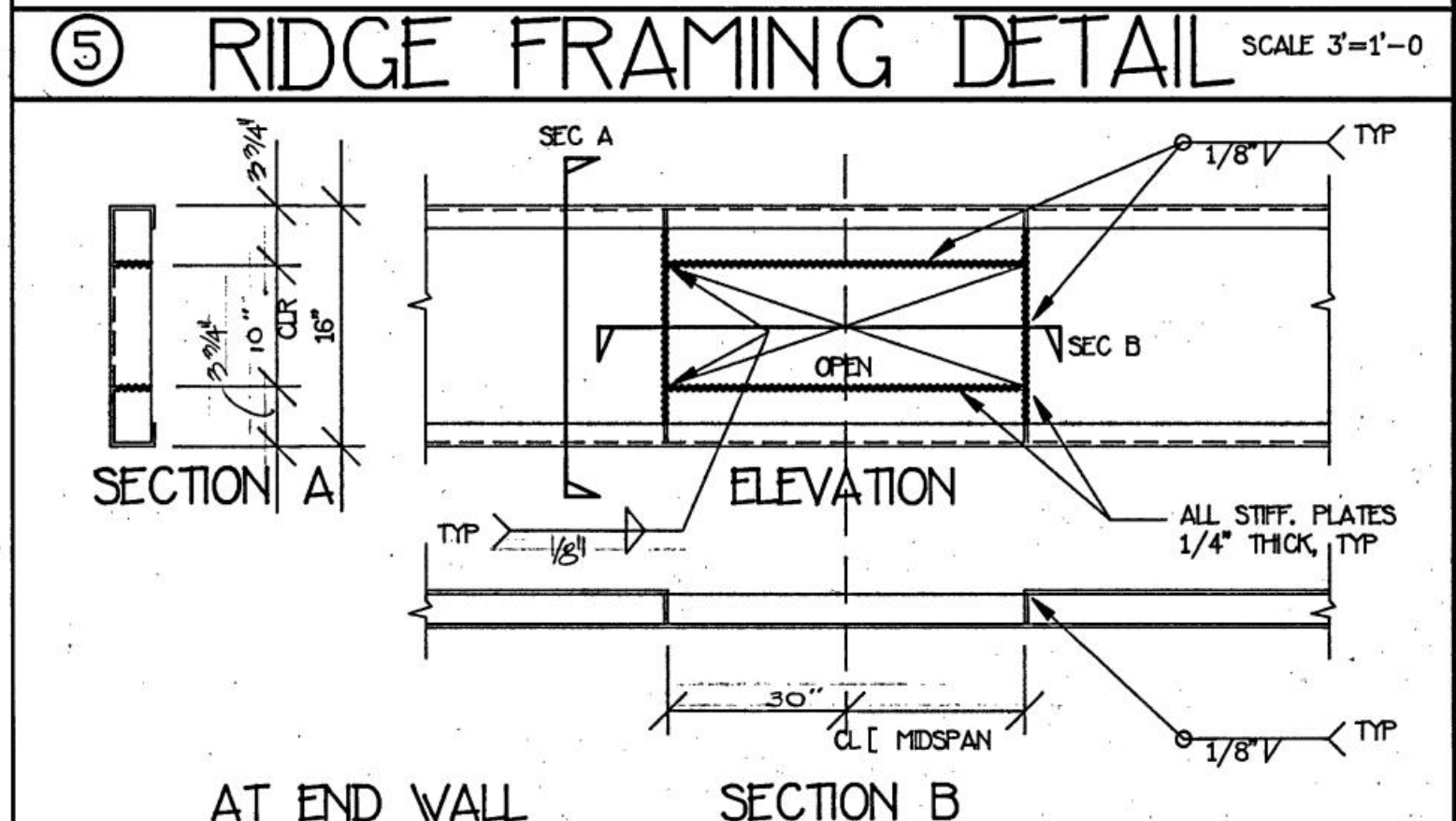
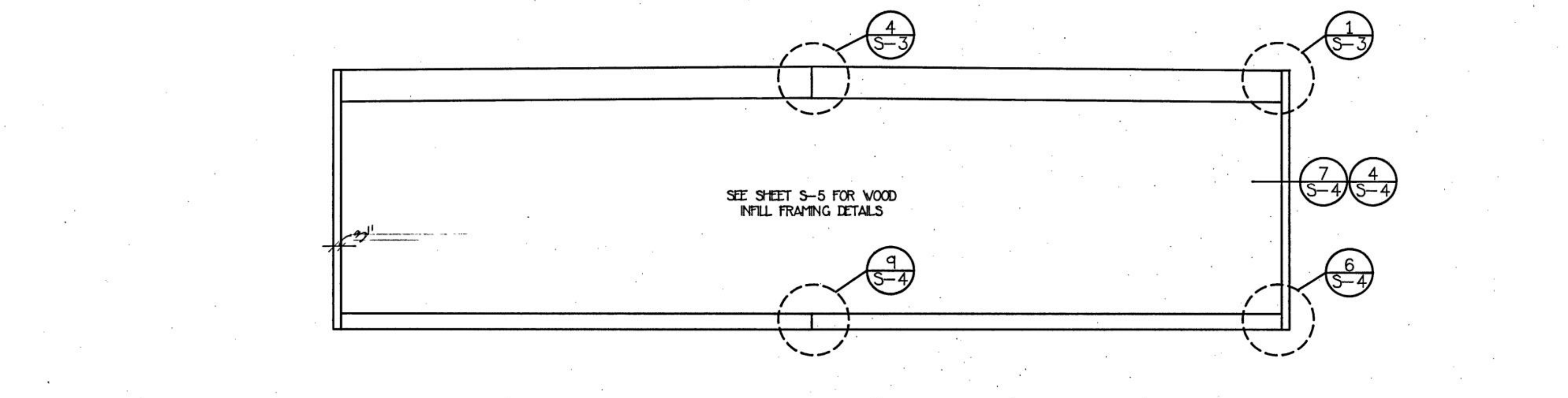
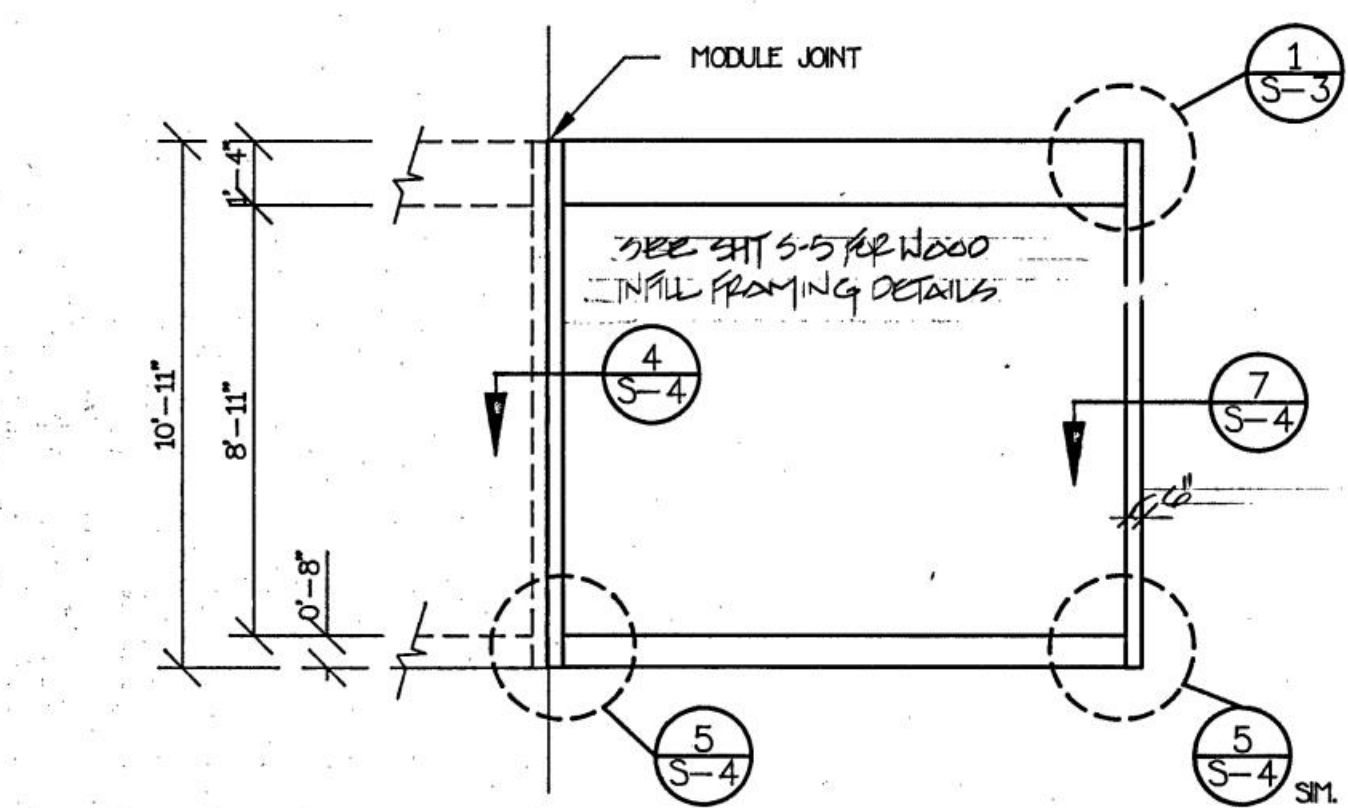
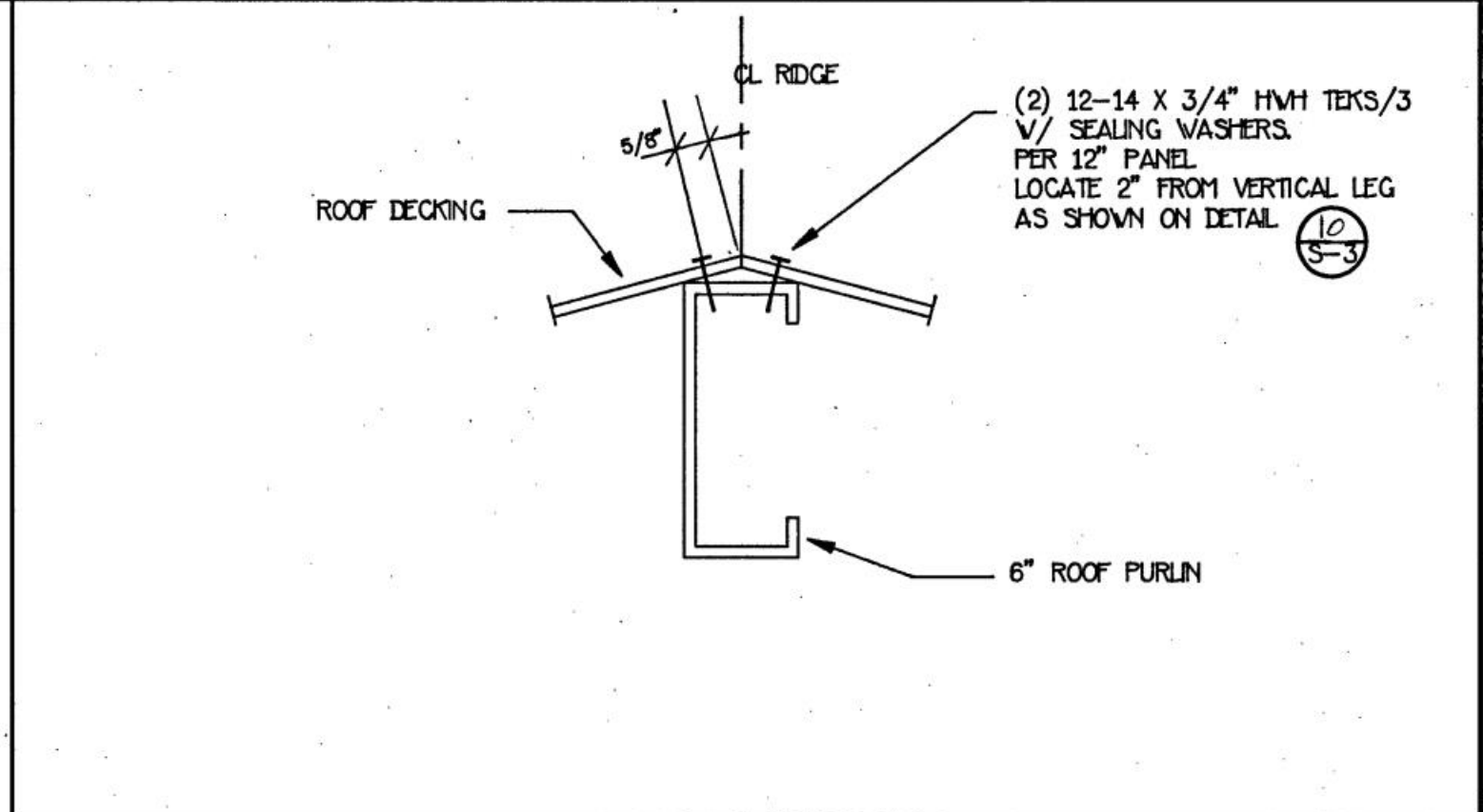


DETAIL X-X SCALE 1 1/2"=1'-0"

① ROOF FRAMING PLAN SCALE 1/4"=1'-0"

② FLOOR FRAMING PLAN SCALE 1/4"=1'-0"

⑤ RIDGE FRAMING DETAIL SCALE 3"=1'-0"



③ FRAME ELEVATION AT ENDWALL SCALE 1/4"=1'-0"

④ FRAME ELEVATION AT SIDEWALL SCALE 1/4"=1'-0"

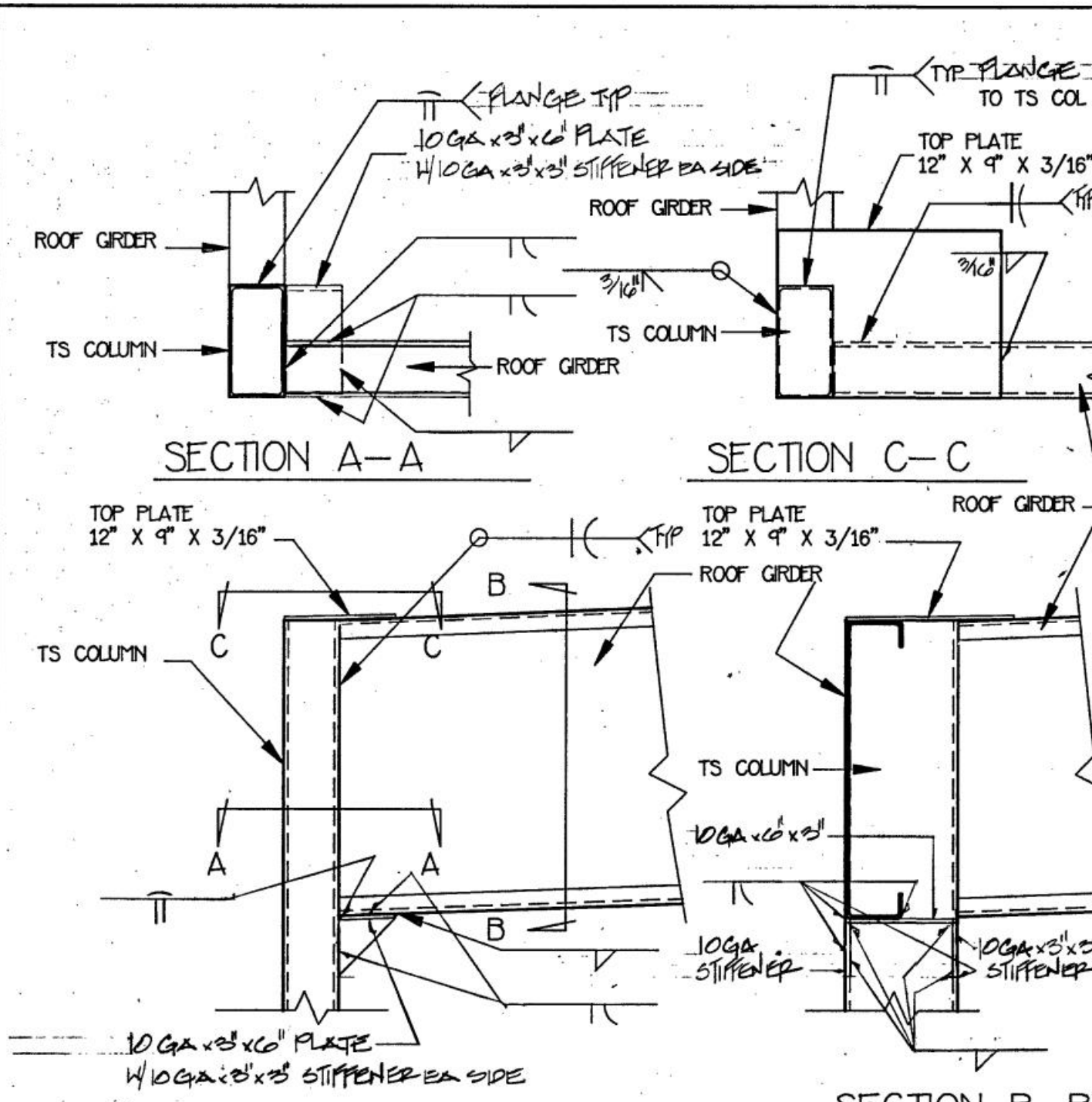
⑥ OPENING IN CHANNEL SCALE 1"=1'-0"

FRAMING PLANS & ELEVATIONS
BTS2
PROJECT # 90-01
SHEET NUMBER
S-2
OF SHEETS

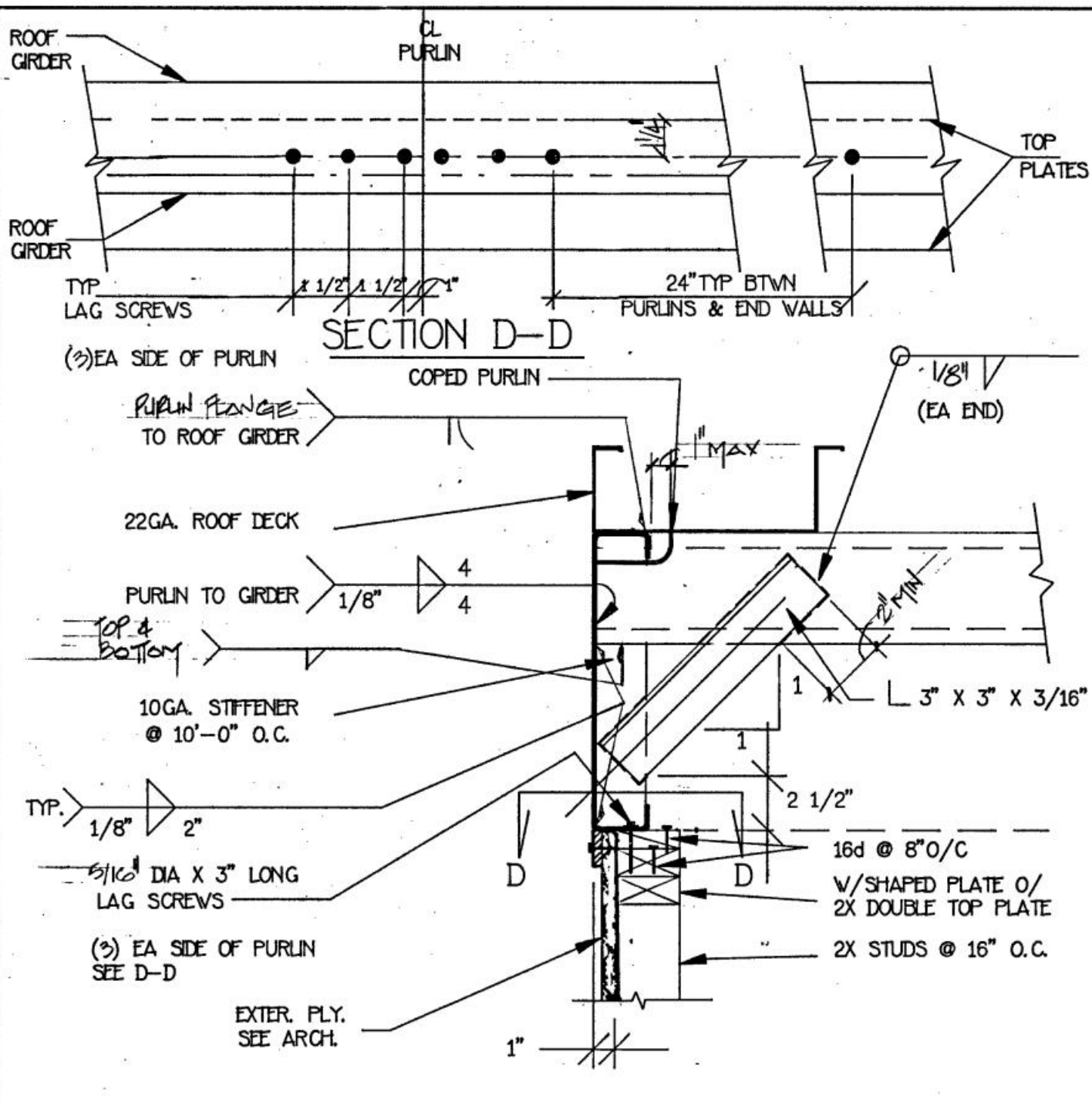
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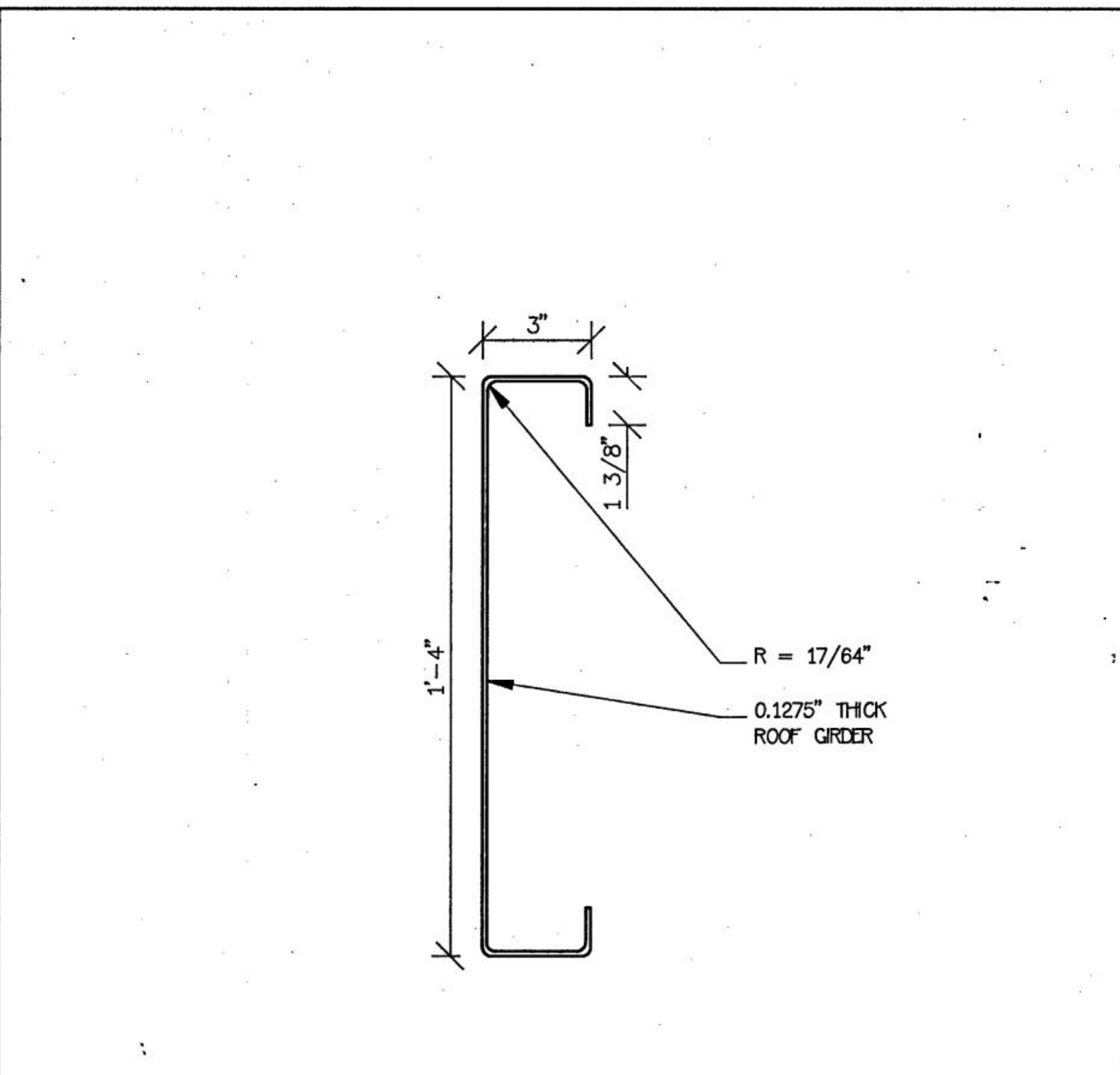
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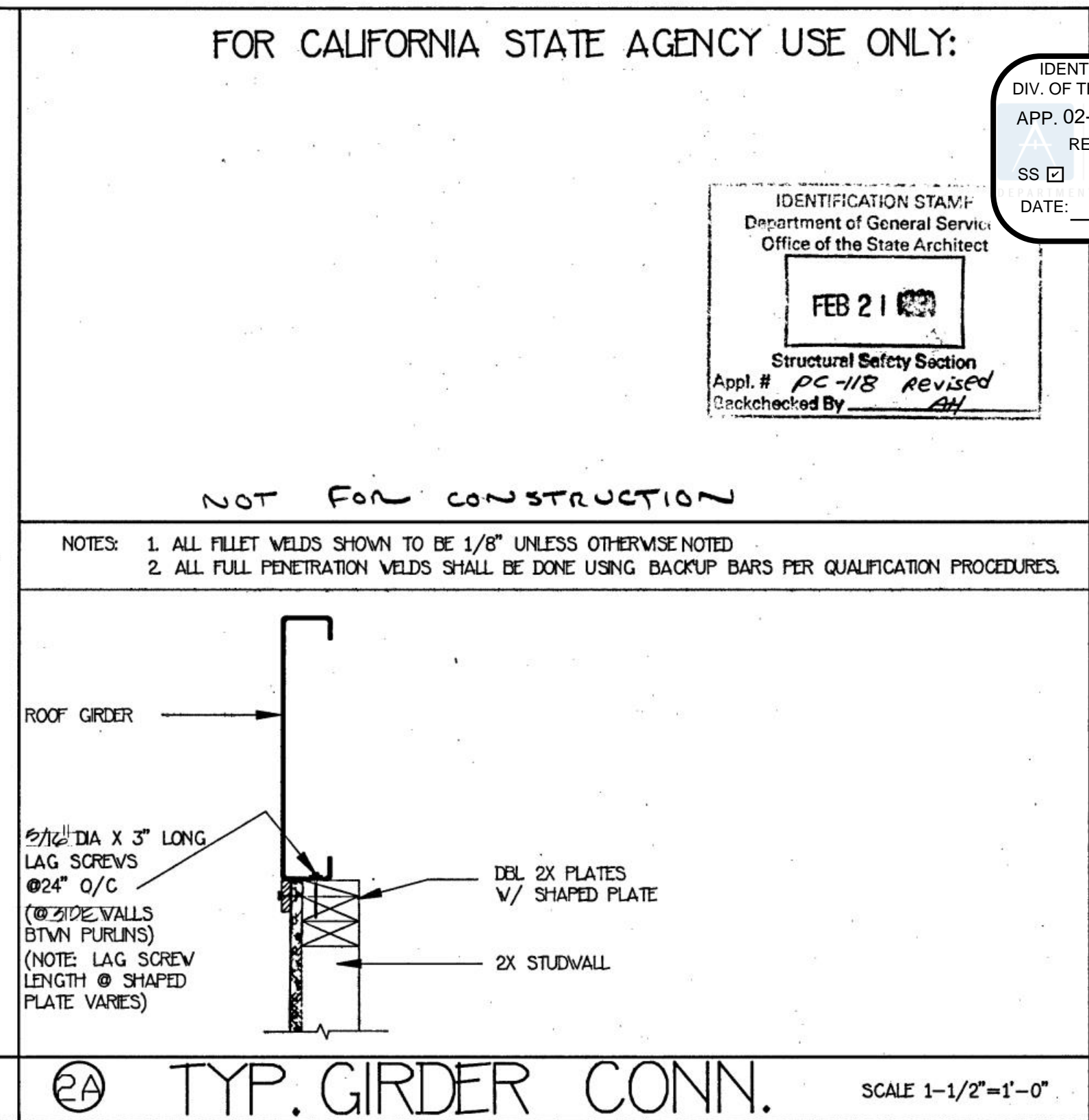
① ROOF GIRDER AT CORNER CONN. SCALE 1-1/2\"/>



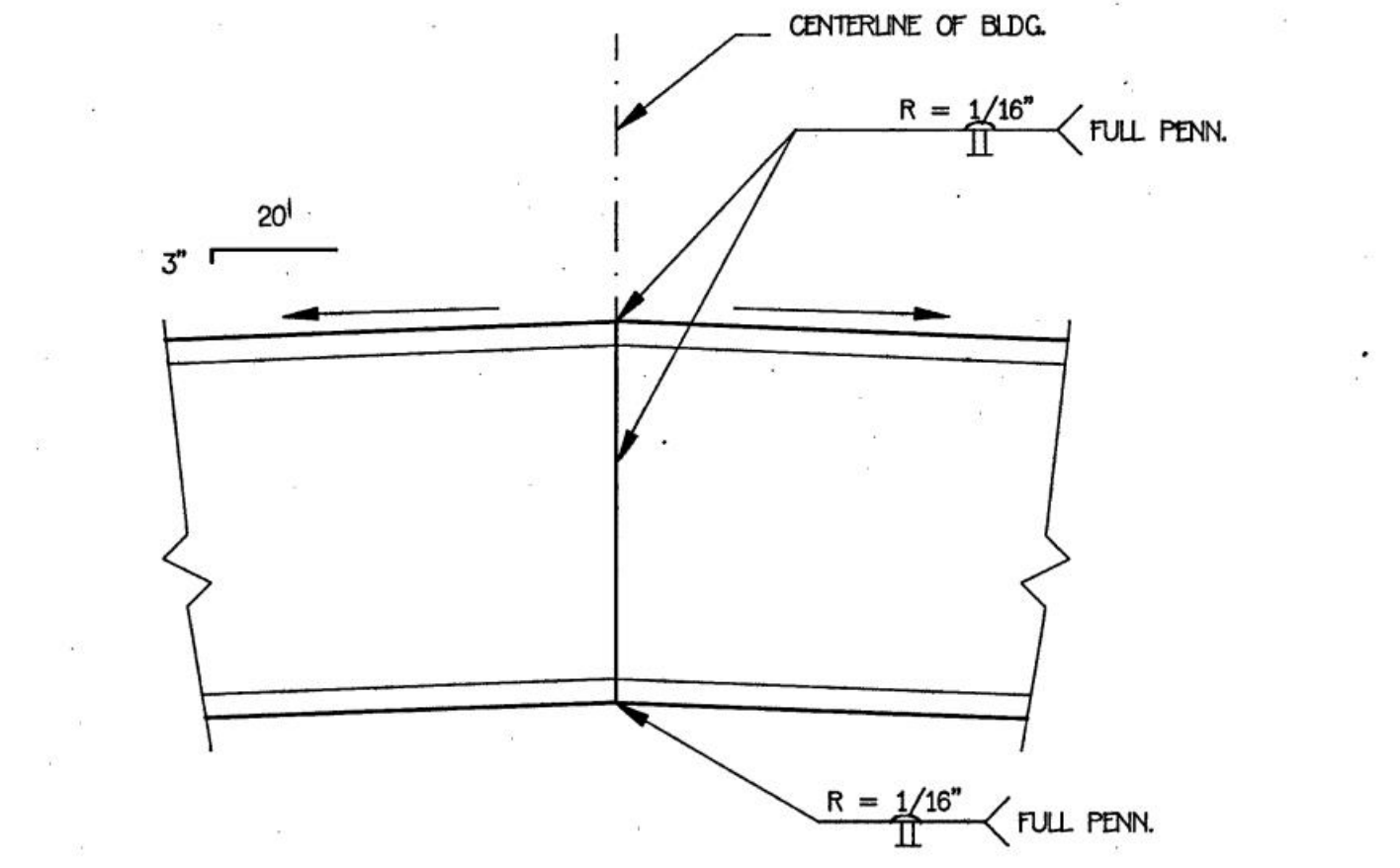
② PURLIN CONN AT ROOF GIRDER SCALE 1-1/2\"/>



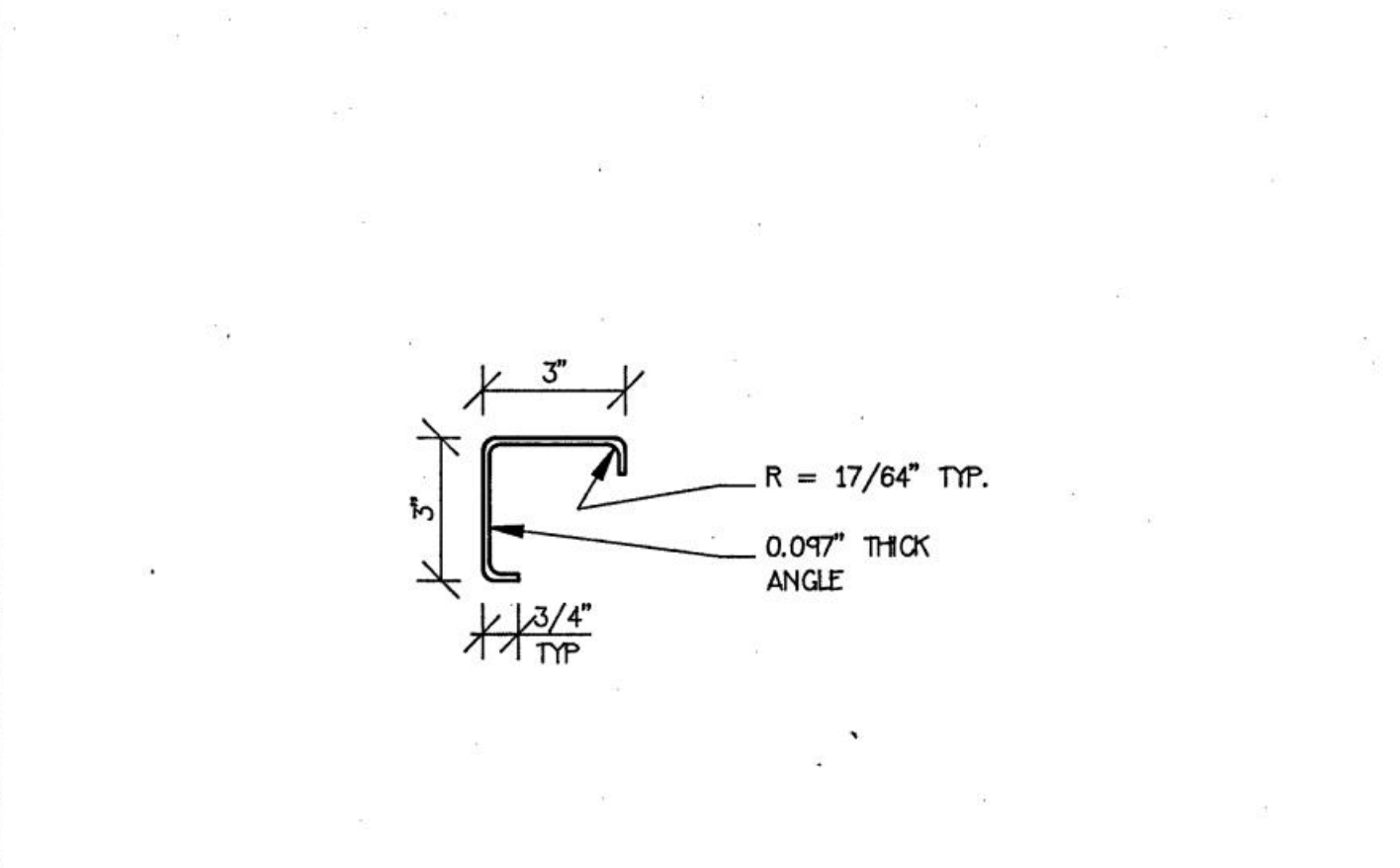
③ TYP. ROOF GIRDER SCALE 3\"/>



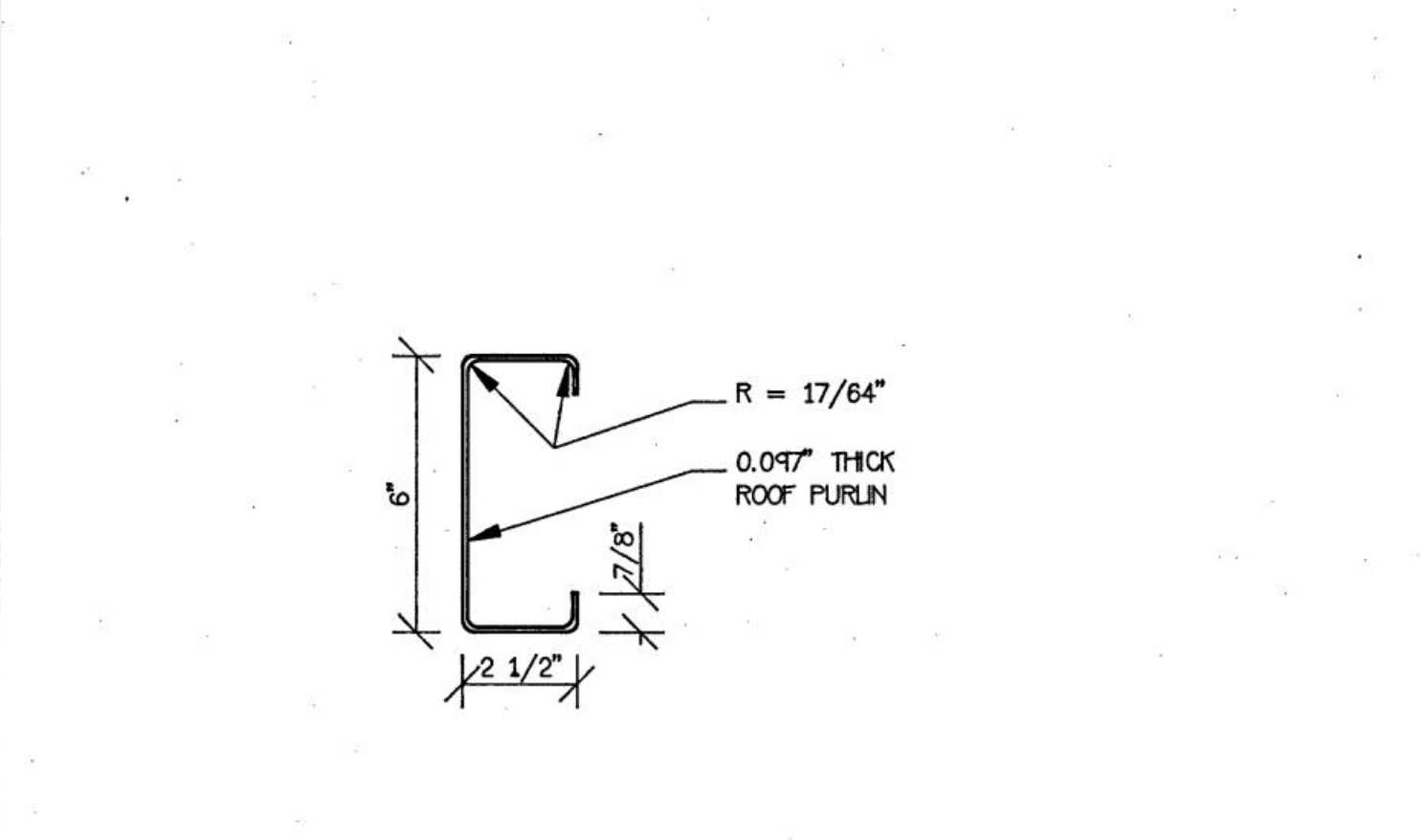
④ TYP. GIRDER CONN. SCALE 1-1/2\"/>



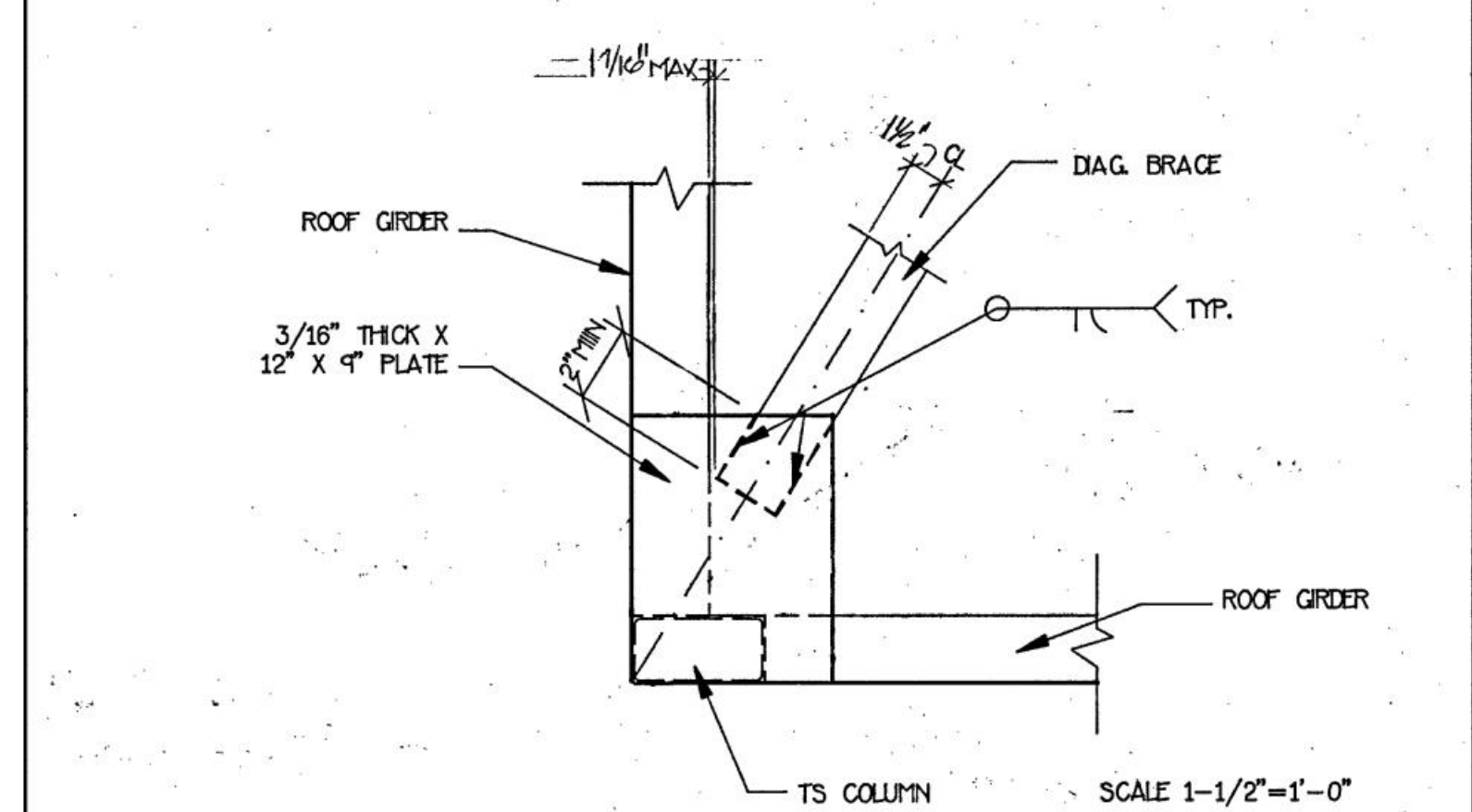
④ BEAM SPLICE SCALE 1-1/2\"/>



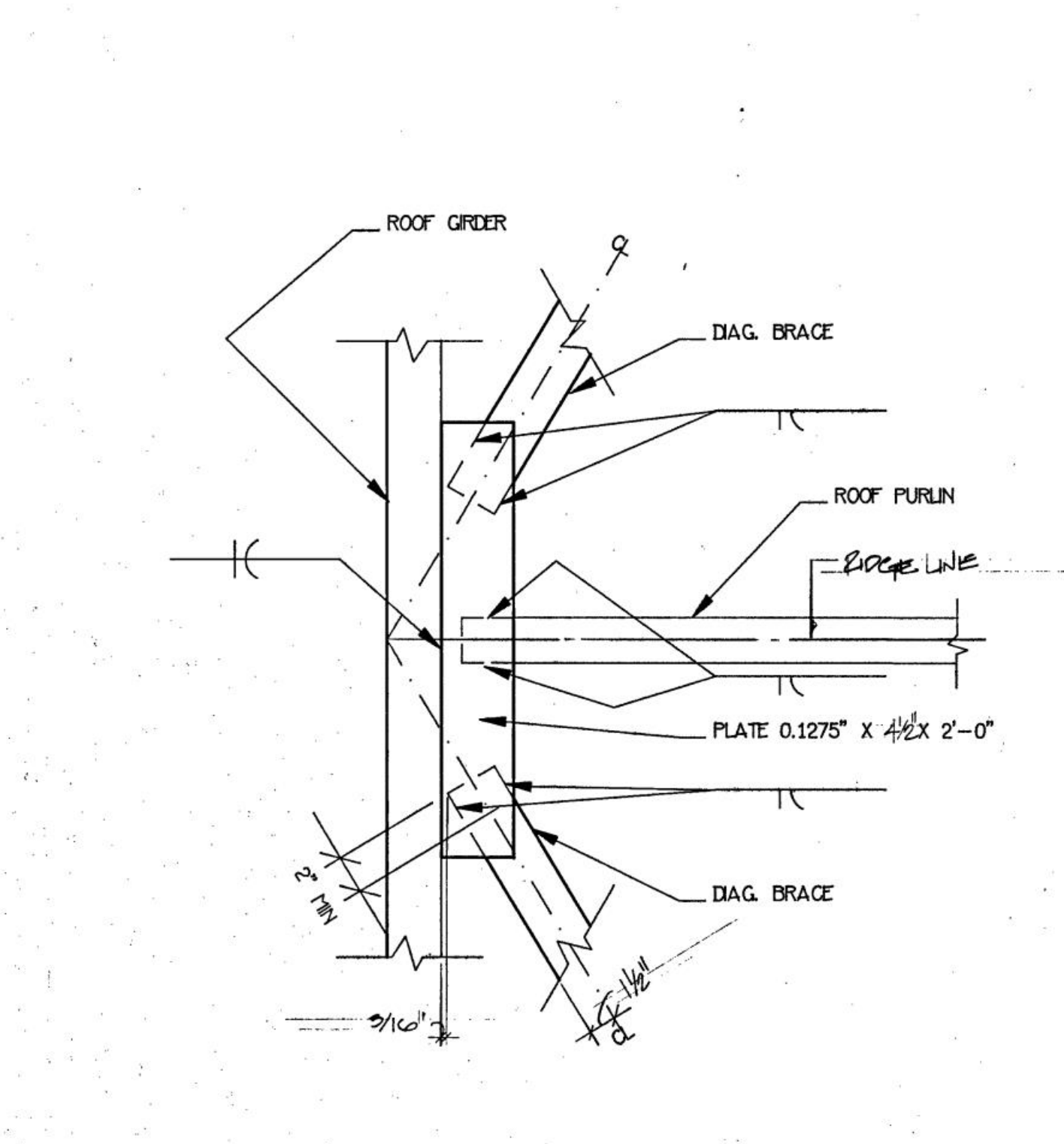
⑤ DIAGONAL BRACE SCALE 3\"/>



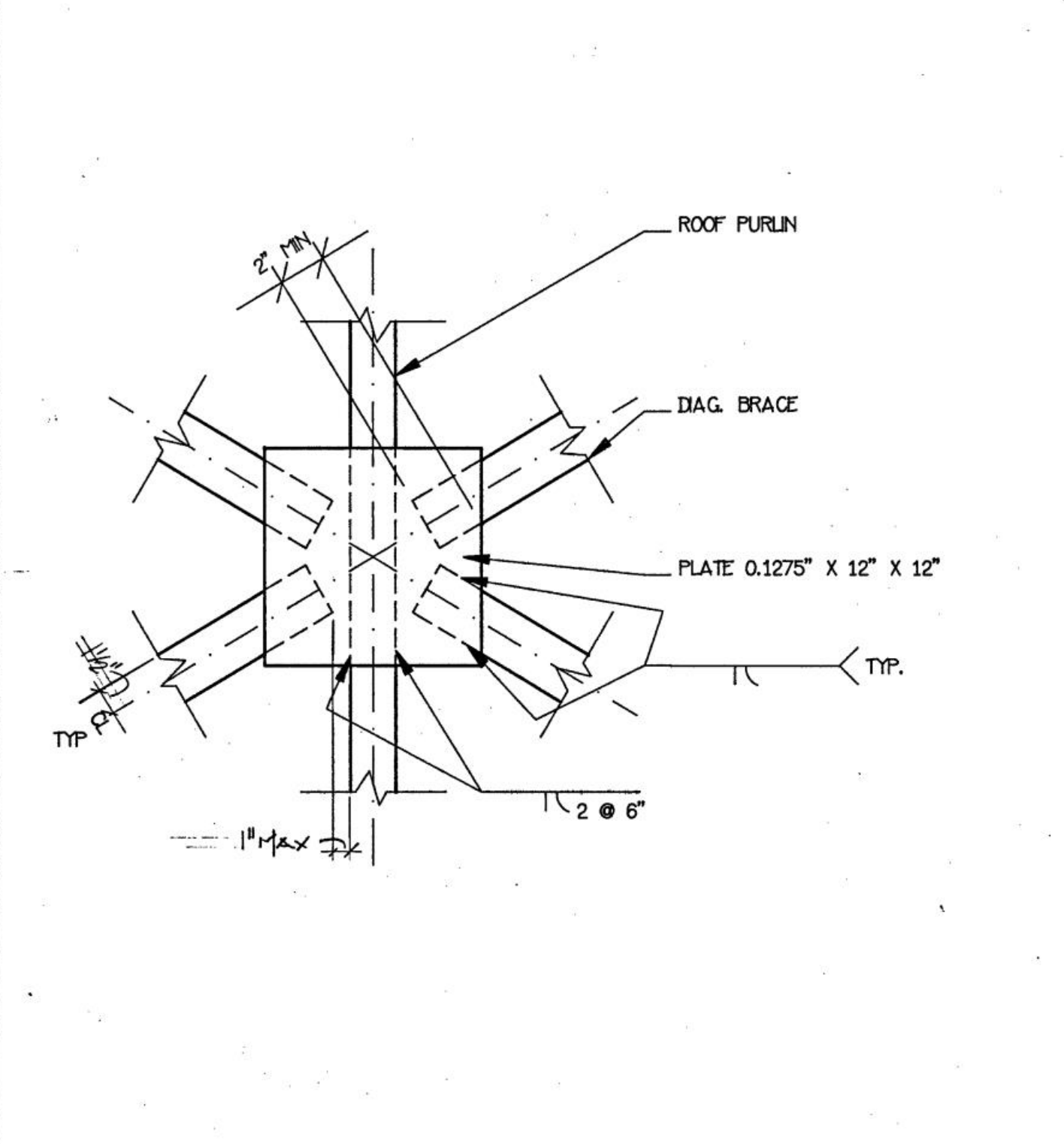
⑥ TYP. ROOF PURLIN SCALE 3\"/>



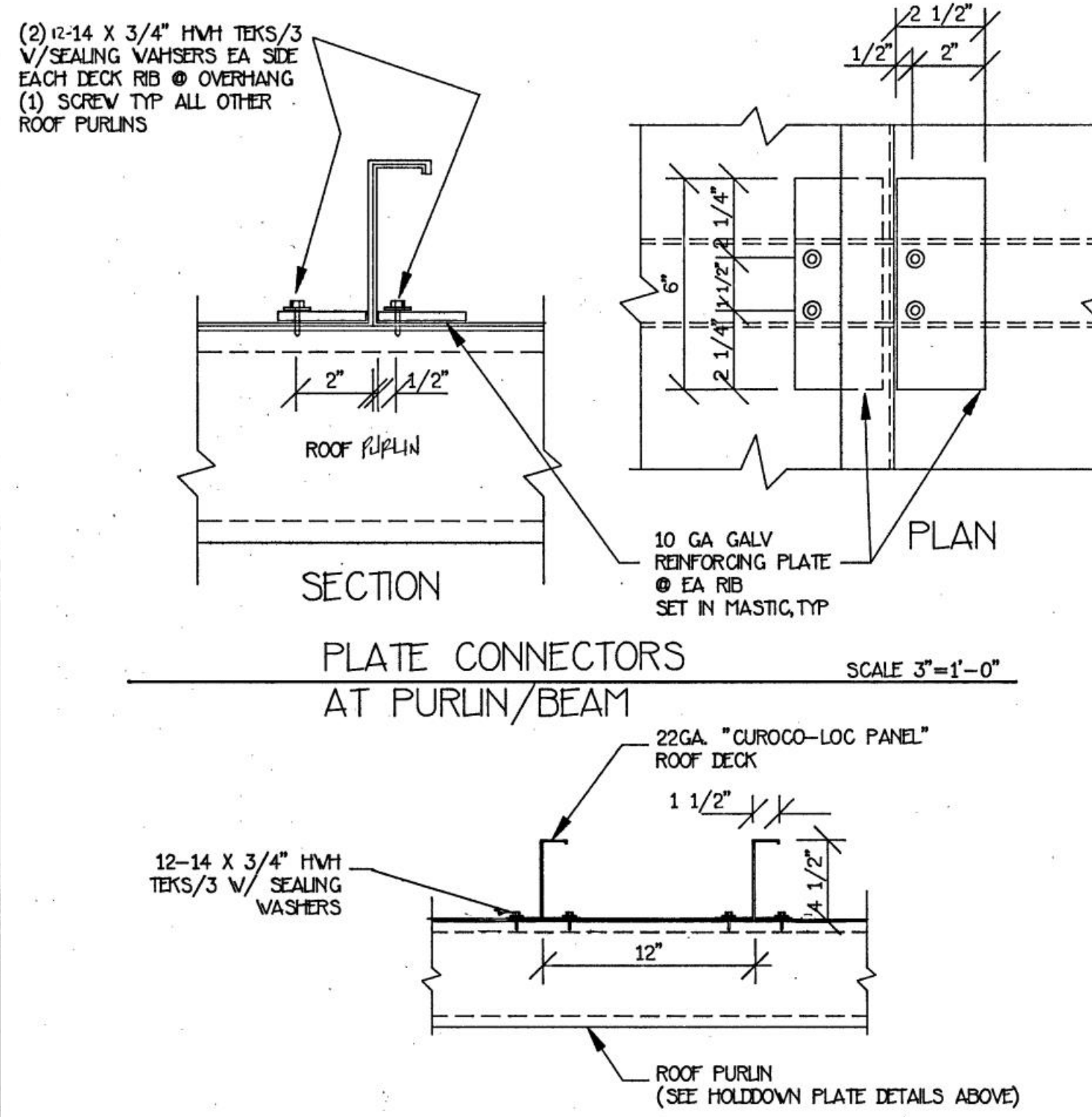
⑦ ROOF BEAM AT CORNER SCALE 1-1/2\"/>



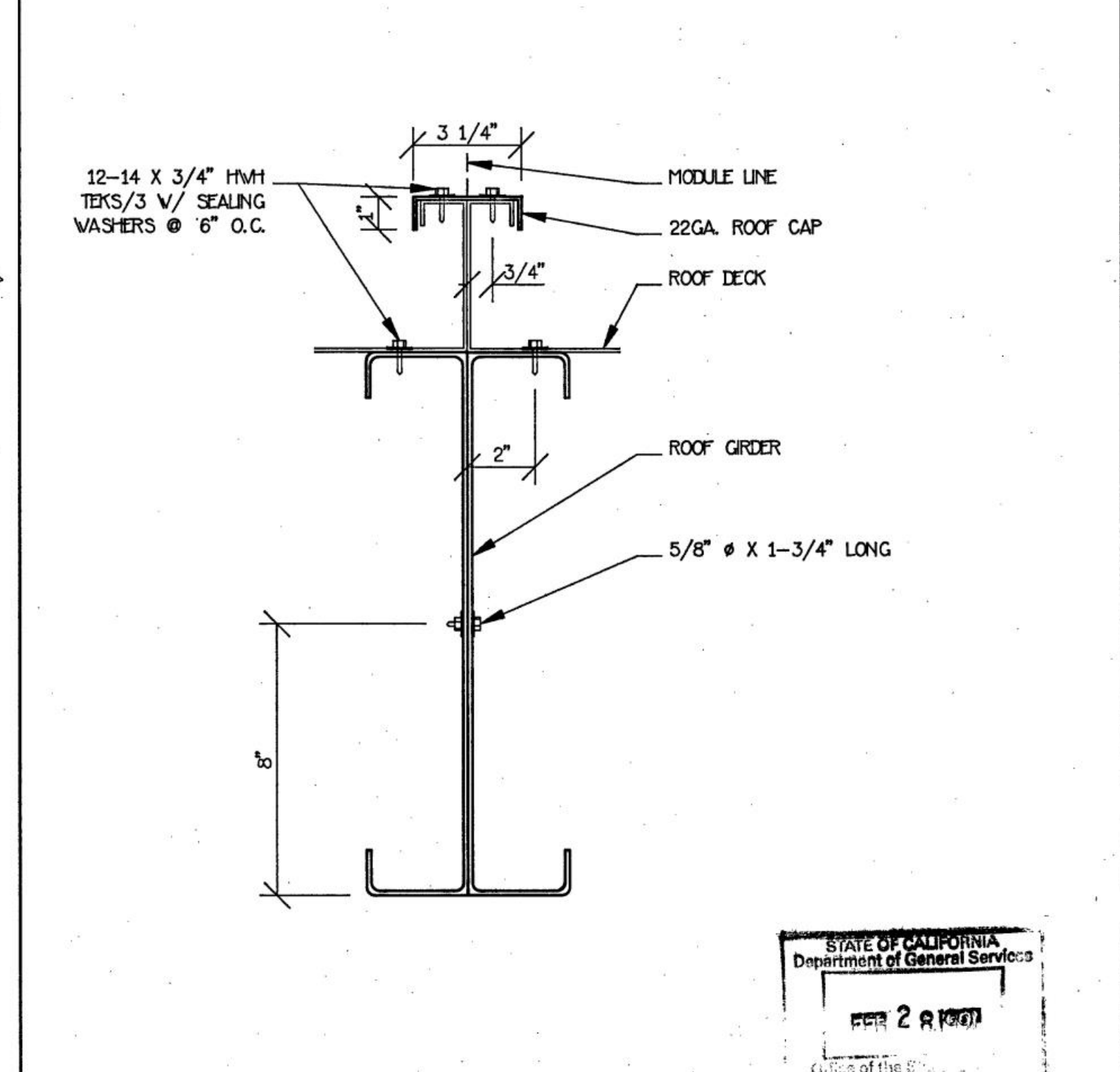
⑧ DIAGONAL BRACE AT ROOF PURLIN SCALE 1-1/2\"/>



⑨ CENTER PLATE AT DIAGONAL BRACE SCALE 1-1/2\"/>



⑩ ROOF DECKING TO ROOF PURLIN SCALE 1-1/2\"/>



⑪ ROOF CLOSURE SCALE 3\"/>

DATE	REV	DATE	DESCRIPTION
11-FEB-11			

GERALD A. GRAEBE & ASSOCIATES
 Structural & Civil Engineers
 154 W. San Luis St., Salinas, CA 93901
 (408) 422-6409 Monterey 394-1183

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 320 WEST MARKET ST. SALINAS, CA 93901
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ROOF FRAMING DETAILS
 BT33
 PROJECT # 90-01
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1. ALL FILLET WELDS SHOWN TO BE 1/8" UNLESS OTHERWISE NOTED

REV	DATE	DESCRIPTION

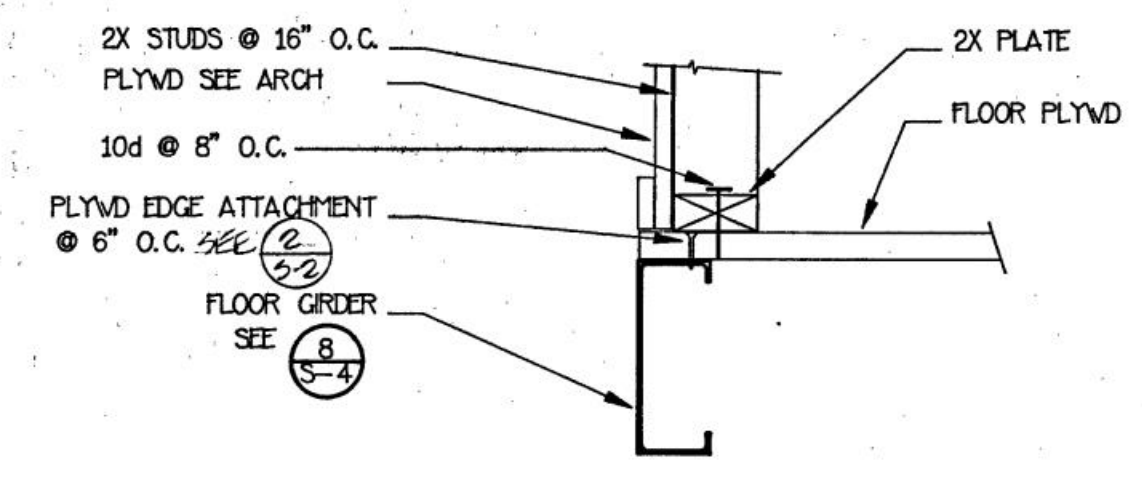
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 CHECK: [Signature]

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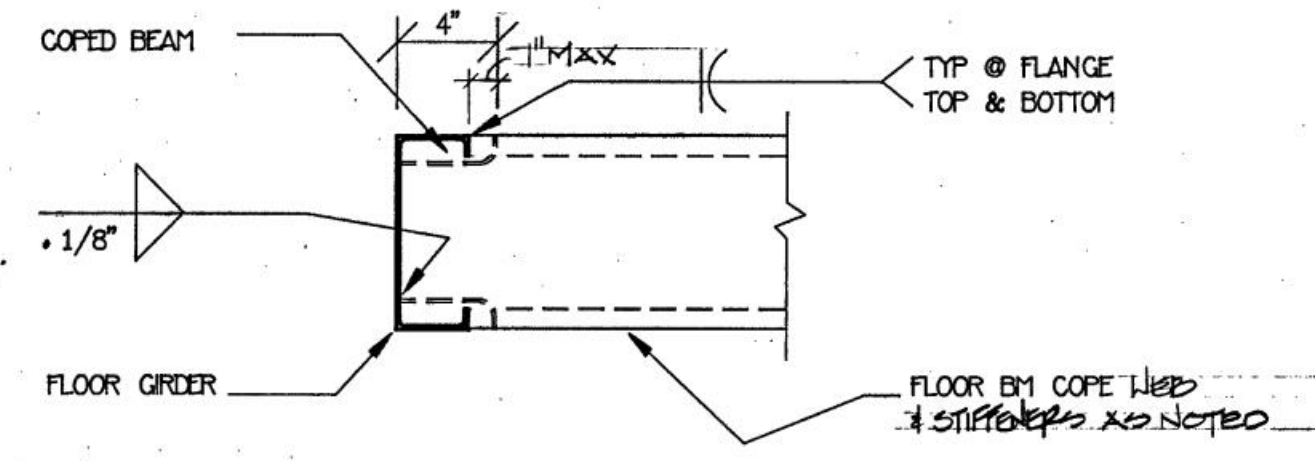
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FLOOR FRAMING
 DETAILS

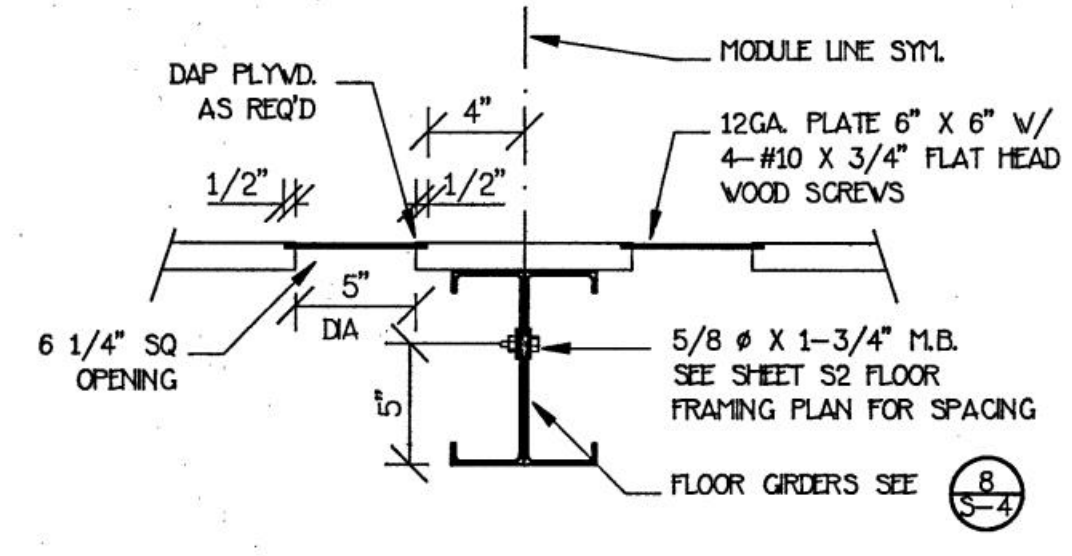
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 PROJECT # 90-01
 SHEET NUMBER
S-4
 OF SHEETS



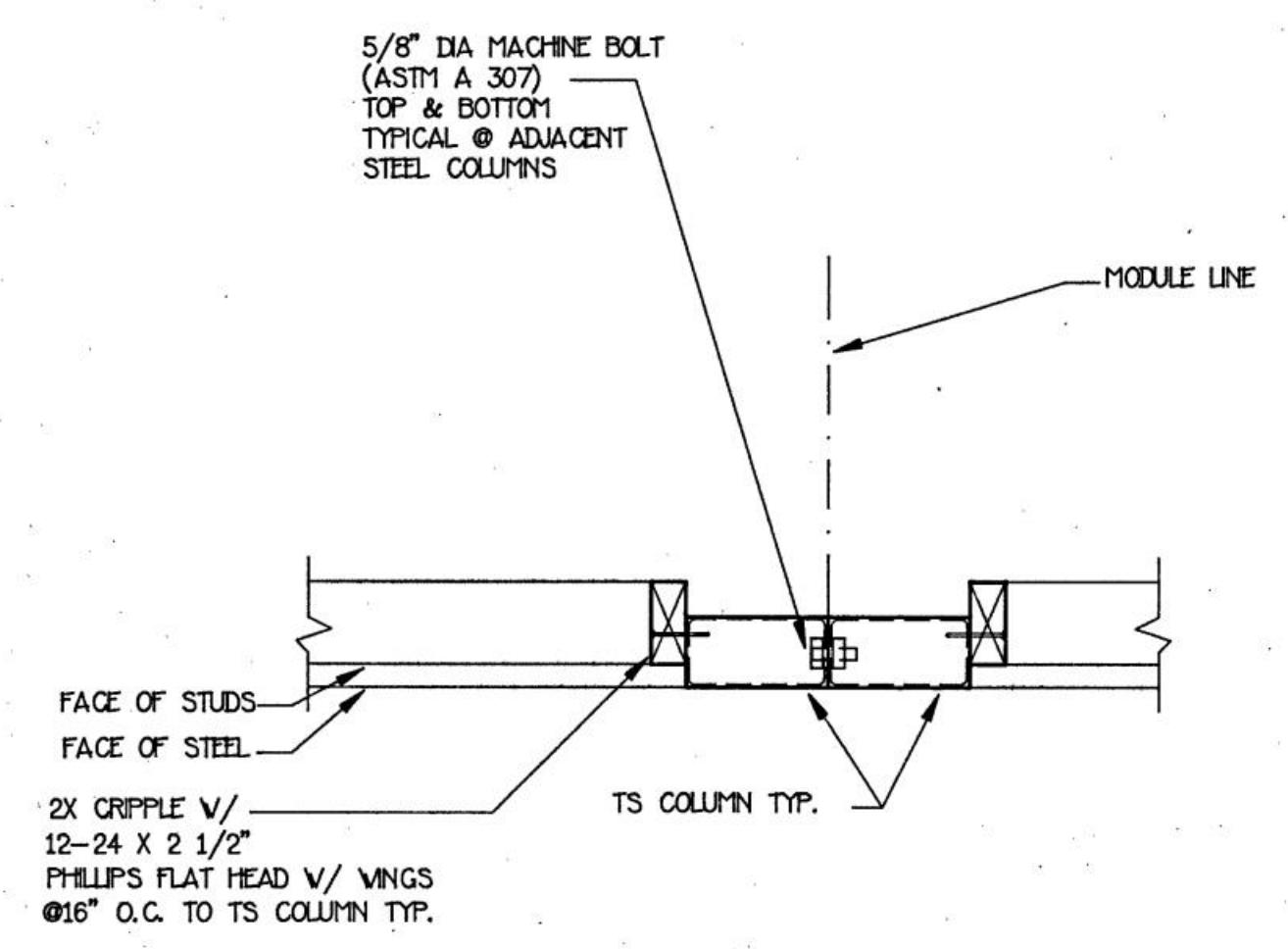
SECTION
 WALL CONN. AT
 ① FLOOR GIRDER 1-1/2"=1'-0"



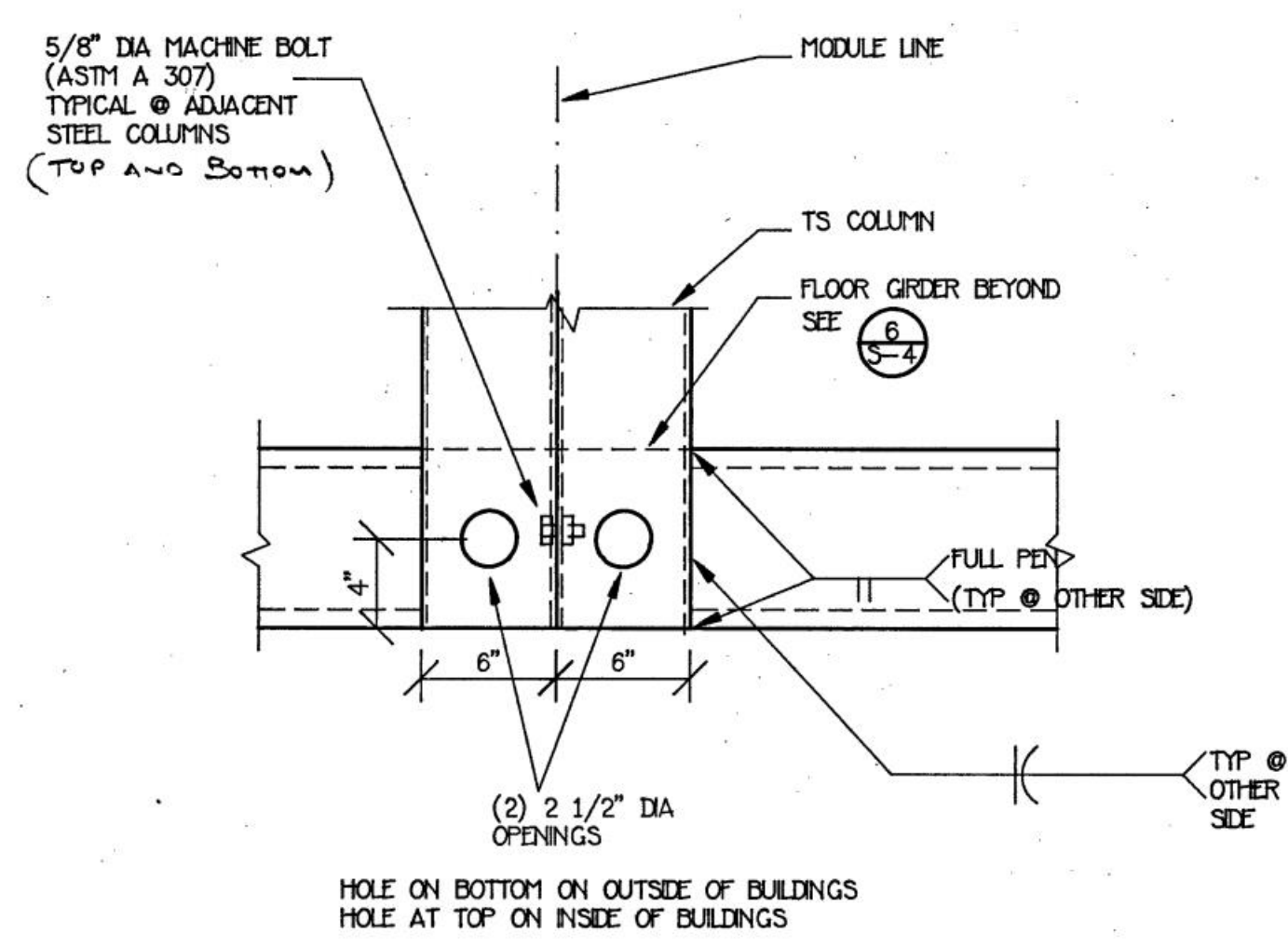
SECTION
 FLOOR GIRDER TO
 ② FLOOR BM. CONN. 1-1/2"=1'-0"



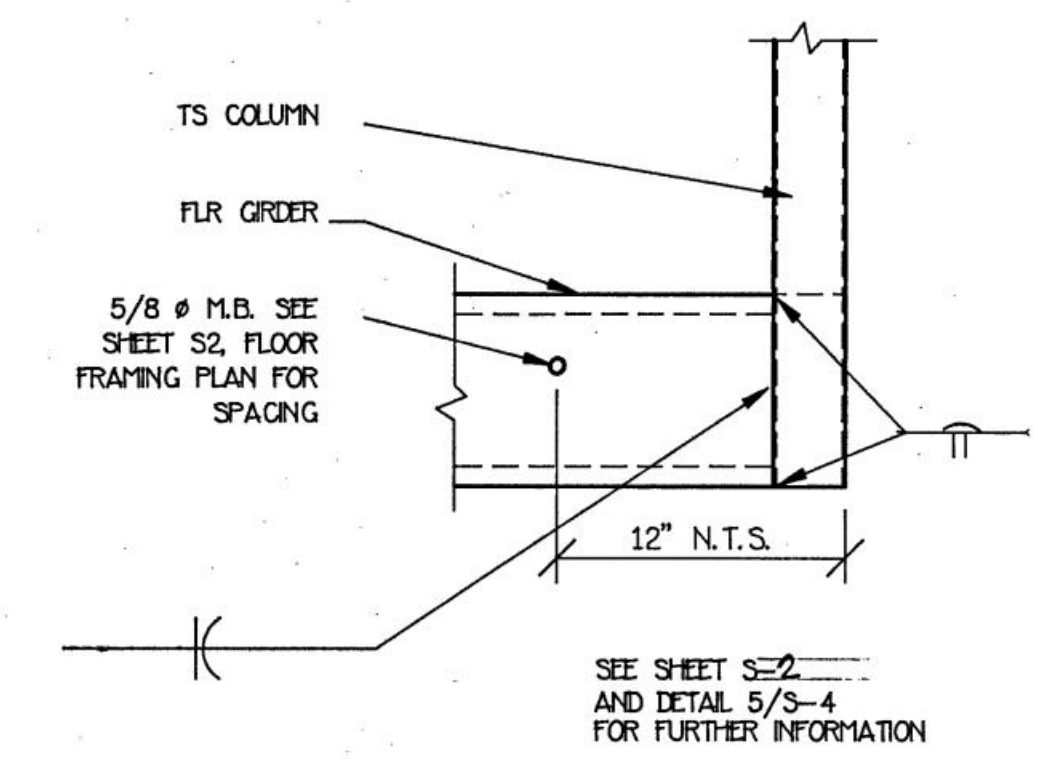
SECTION
 ③ FLOOR CLOSURE 1-1/2"=1'-0"



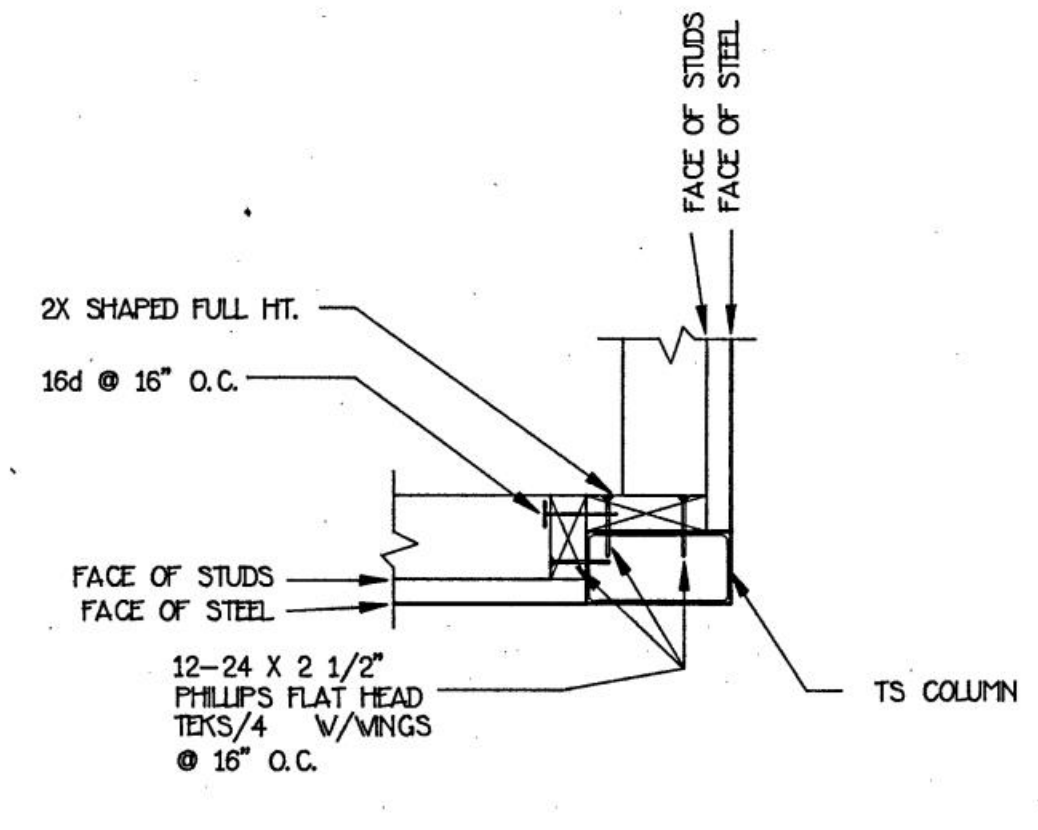
PLAN
 MODULE JOINT
 ④ AT WALL 1-1/2"=1'-0"



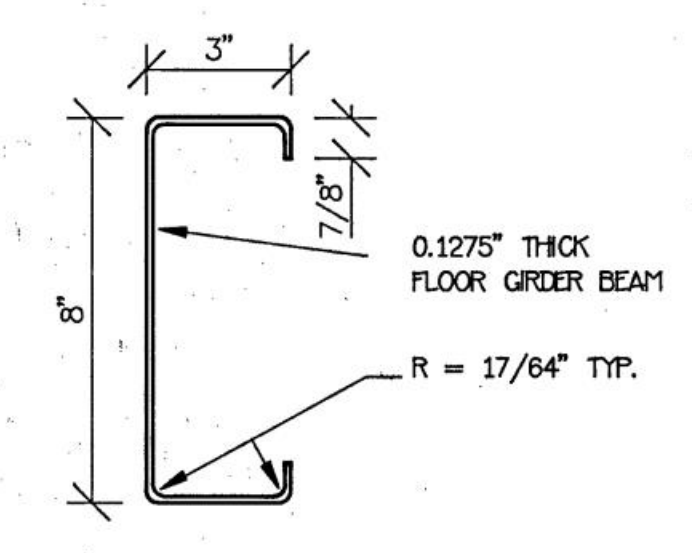
ELEVATION
 TUBULAR STEEL CONN.
 ⑤ AT MODULE LINE 1-1/2"=1'-0"



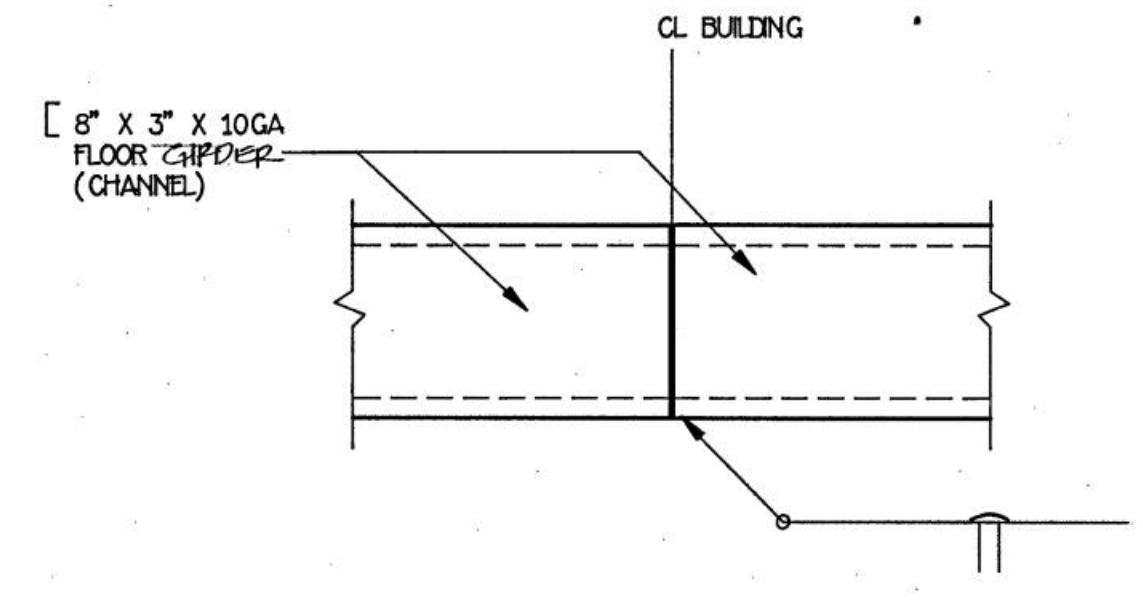
SECTION
 TS COLUMN CONN.
 ⑥ W/ FLOOR GIRDER 1-1/2"=1'-0"



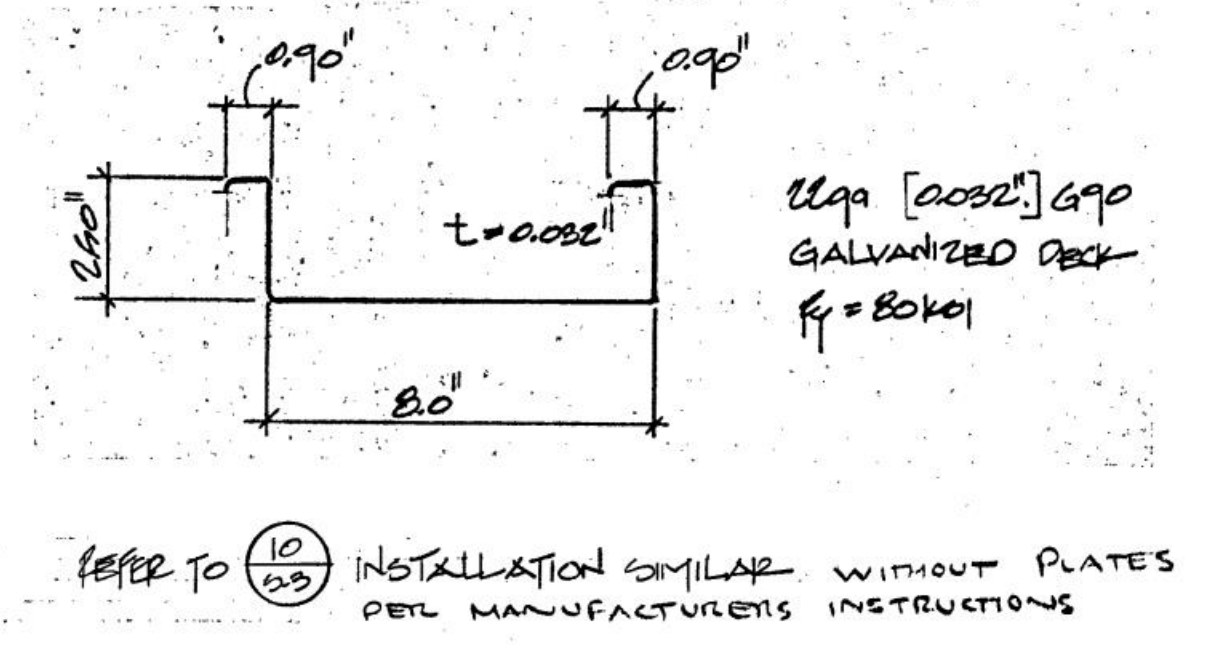
PLAN
 TYPICAL CONN AT
 ⑦ EXTERIOR CORNER 1-1/2"=1'-0"



TYPICAL FLOOR
 GIRDER & BEAM
 ⑧ 3"=1'-0"



ELEVATION
 FLOOR BEAM SPLICE
 ⑨ 1-1/2"=1'-0"



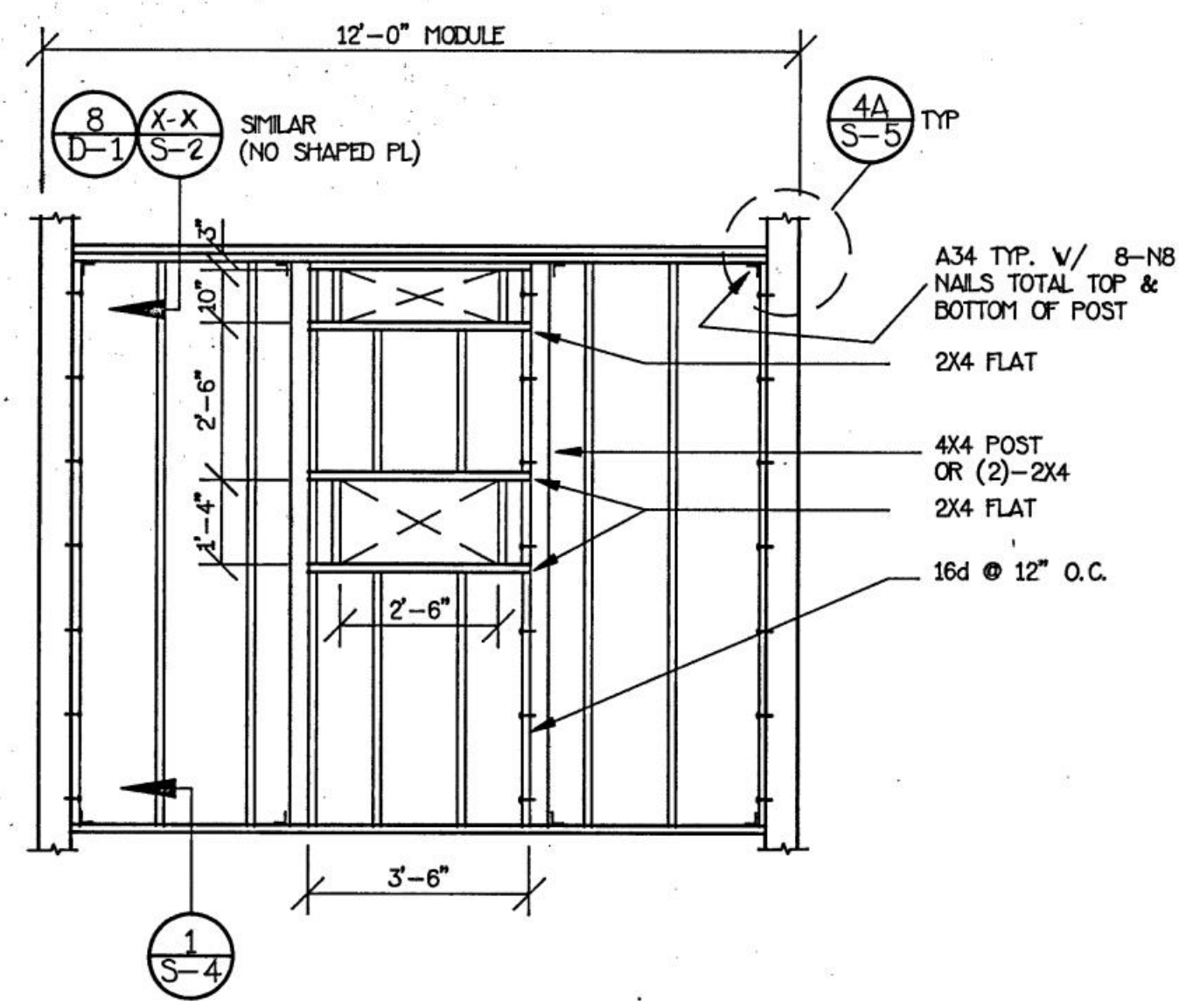
UNICOVER ROOF DECK SECTION
 ⑩ SCALE 3"=1'-0"

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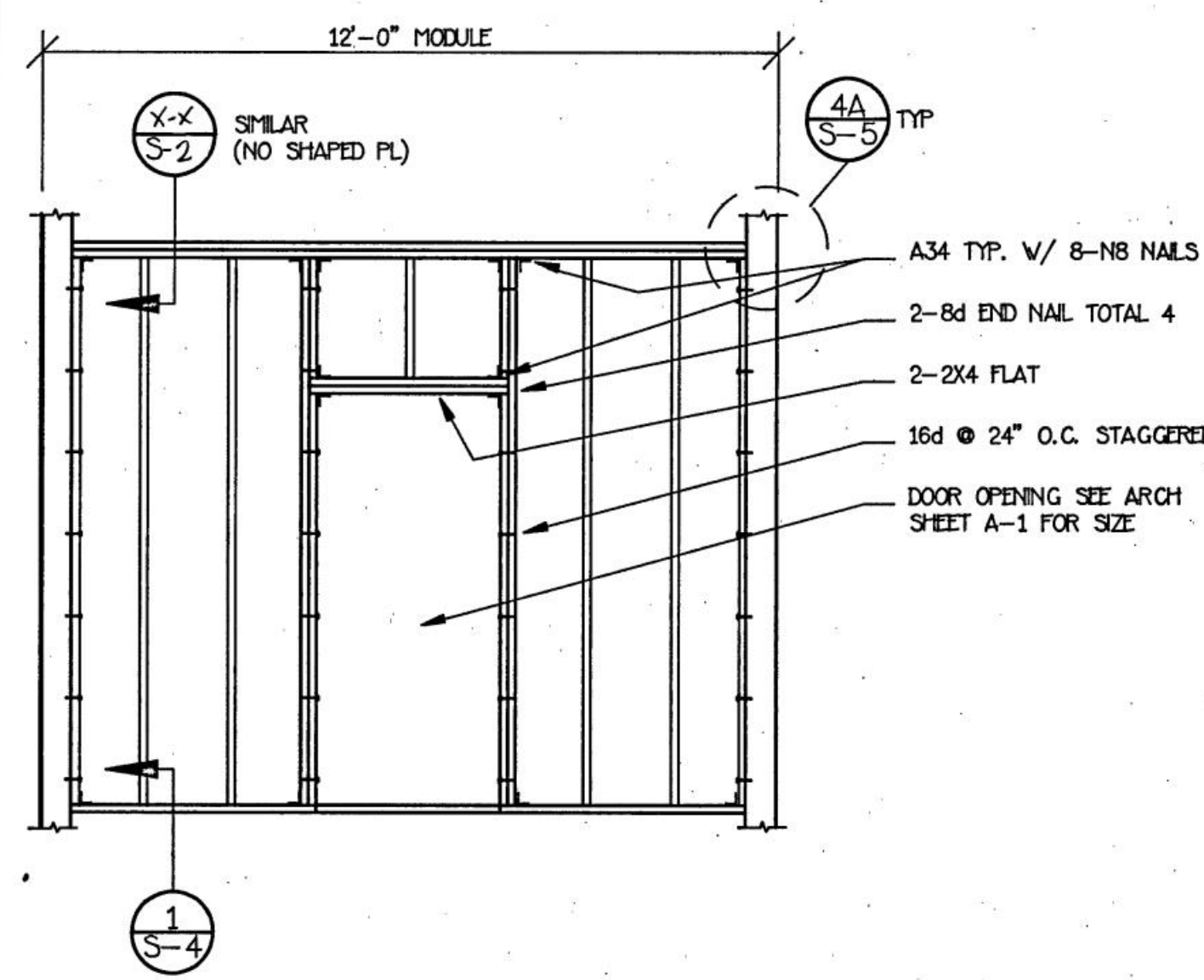
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NOTE: THE TOP H.V.A.C. OPENING IS ELIMINATED WHEN A DUCTED SYSTEM IS USED. IN ADDITION, THE BOTTOM OPENING LOCATION MOVES UPWARD, DEPENDING ON WHICH BRAND USED.

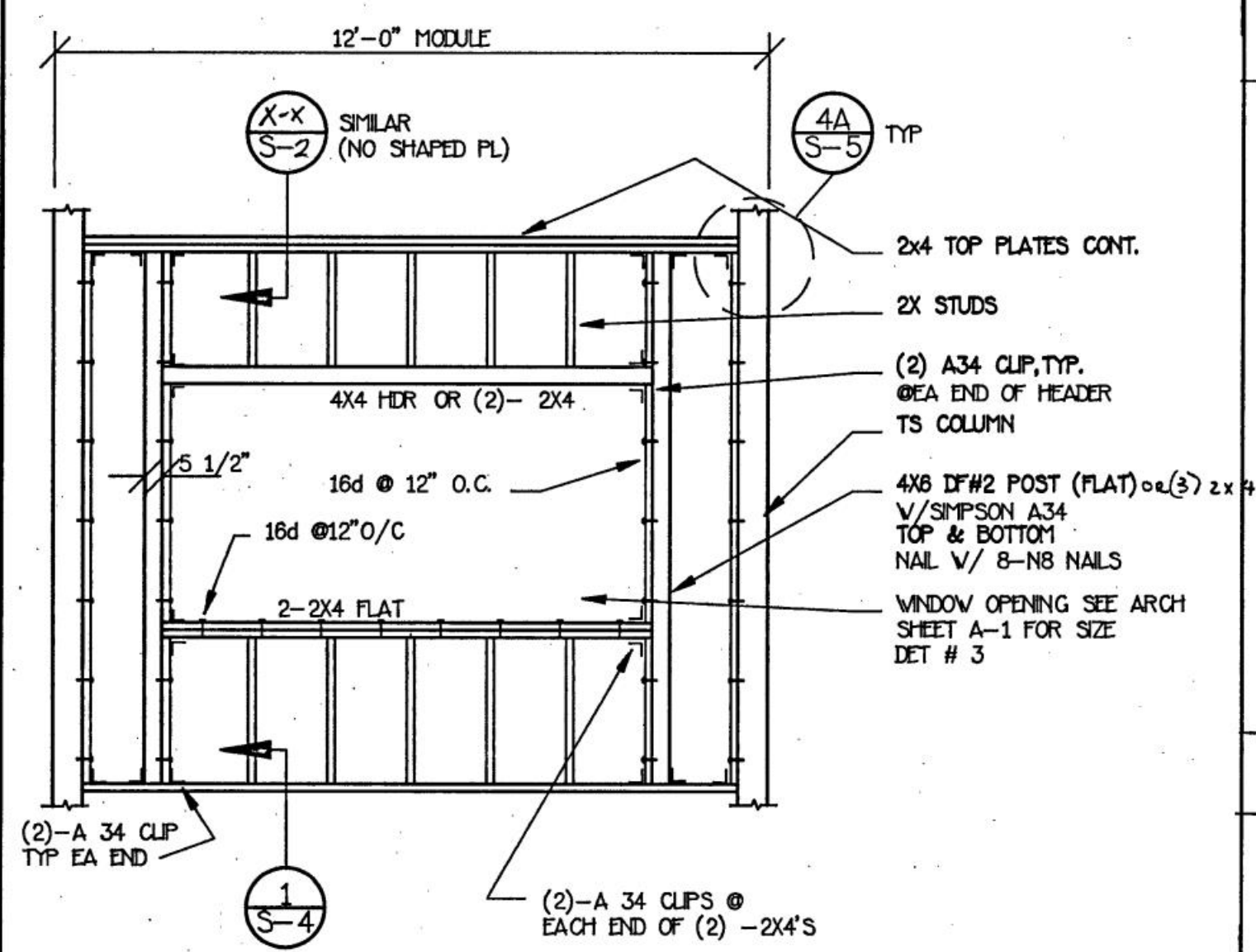
FOR NOTES NOT SHOWN SEE TYP. END WALL FRAMING.

1 END WALL FRAMING AT H.V.A.C. SCALE 3/8"=1'-0"



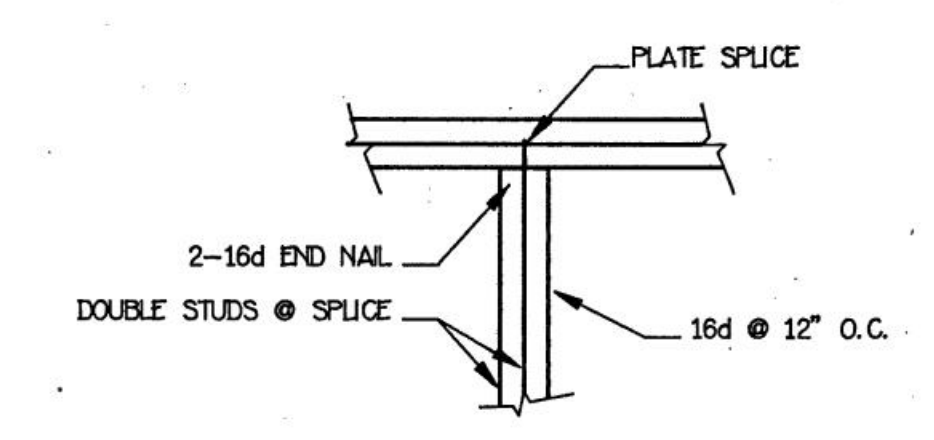
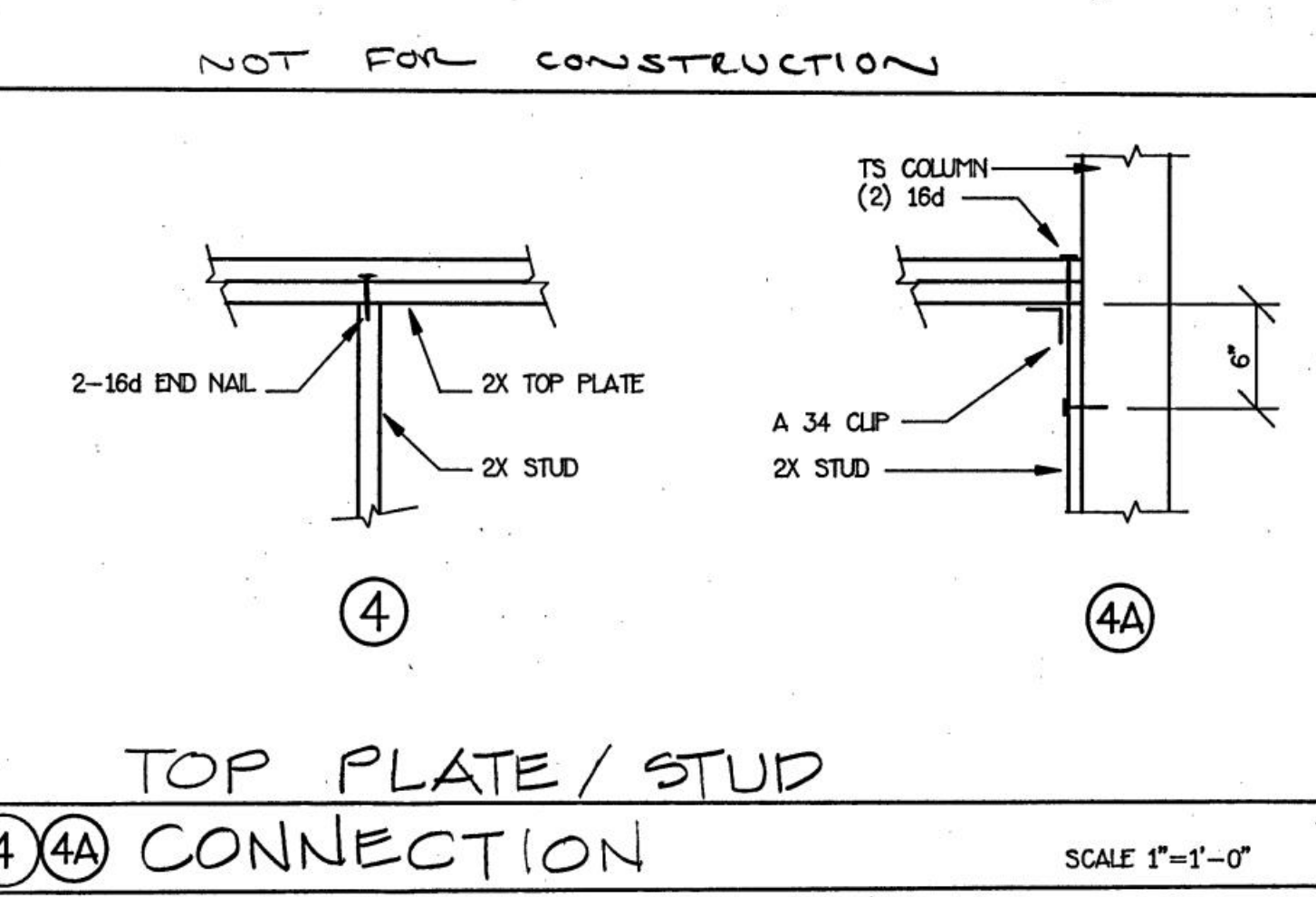
FOR NOTES NOT SHOWN SEE TYP. END WALL FRAMING.

2 END WALL FRAMING AT DOOR SCALE 3/8"=1'-0"

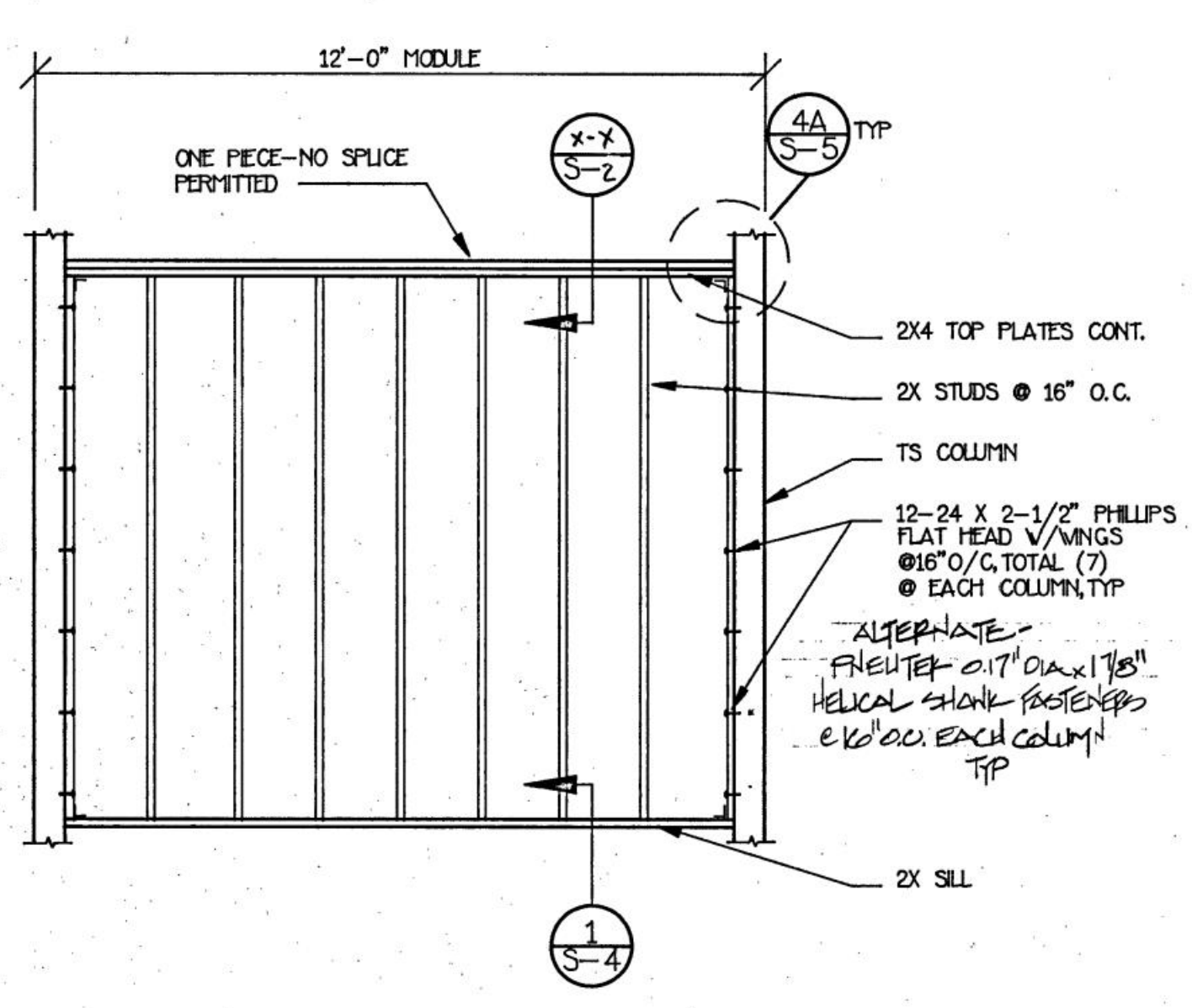


FOR NOTES NOT SHOWN SEE TYP. END WALL FRAMING.

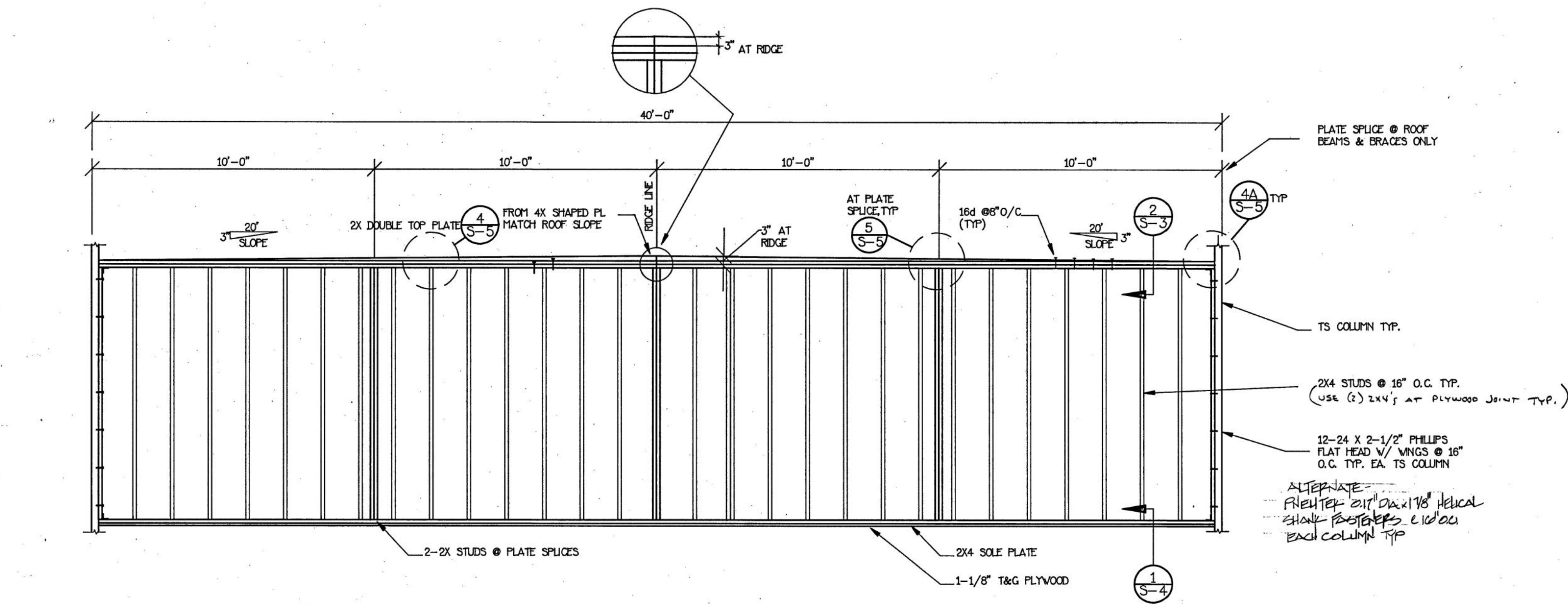
3 END WALL FRAMING AT WINDOW SCALE 3/8"=1'-0"



5 TOP PLATE SPLICE SCALE 1"=1'-0"



6 TYP. END FRAMING SCALE 3/8"=1'-0"



7 WALL FRAMING AT SIDEWALL SCALE 3/8"=1'-0"

DATE	REV	DESCRIPTION
11/15/2011	DESIGN	
11/15/2011	DRAWN	
	CHECK	

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 Structural & Civil Engineers
 15415 N. 1st St., Suite 100
 (408) 422-6409 Monterey 93941-1183

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 320 WEST MARKET ST. SALINAS CA 93901
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WOOD WALL ELEV. DETAILS
 PROJECT # 2020
 SHEET NUMBER
S-5
 OF SHEETS

STATE OF CALIFORNIA
 Department of General Services
FEB 21 1991
 Office of the State Architect
 Structural Safety Section

TEK SCREW DESIGN DATA

DESIGNATION	CONNECTION	DIA	LENGTH	PITCH
12-14 X 3/4 HWH TEK/3	ROOF DECK TO .1275" SHEET	.210"	.75"	14
12-24 X 2-1/2 HEADER TEK/4	FLOOR PLY TO .1275" SHEET	.210"	2.50"	24
12-24 X 2-1/2 HEADER TEK/4	2X FRAMING TO 3/16" TUBE	.210"	2.50"	24
12-24 X 2-1/2 HEADER TEK/4	2X FRAMING TO .1275" SHEET	.210"	2.50"	24
PNEUTEK .170 HELICAL FASTENER	FLOOR PLY TO .1275" SHEET	.170"	1.60"	
PNEUTEK HELICAL FASTENER	2X FRAMING TO 3/16" TUB STEEL	.170"	1.85"	

NOTE: PNEUTEK HELICAL .170 DIA FASTENERS MAY BE SUBSTITUTED FOR 12-14 X 3/4" TEK/4 SCREWS

SPECIFICATIONS

GENERAL

- THESE PLANS HAVE BEEN PREPARED FOR THE STRUCTURAL ELEMENTS OF A RELOCATABLE SCHOOL BUILDING MANUFACTURED IN A PLANT IN ACCORDANCE WITH THE STATE BUILDING CODE, T-24, AND ASSOCIATED INTERPRETATIONS OF REGULATIONS BY THE OFFICE OF THE STATE ARCHITECT. THE PLANS DO NOT ADDRESS STRUCTURAL CONSIDERATIONS ASSOCIATED WITH THE SITE WORK, UTILITY CONNECTION, FOUNDATION PREPARATION OR FIELD ERECTION OF THE BUILDING.
- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE REQUIREMENTS OF THE STATE BUILDING CODE, TITLE 24 PART 2 AND TITLE 24, PART 1 OF THE CALIFORNIA CODE OF REGULATIONS, THE CALIFORNIA BUILDING CODE AND APPLICABLE FEDERAL AND STATE CODES, LAWS ORDINANCES AND PERMIT REQUIREMENTS. THE CONTRACTOR SHALL HAVE ONE CURRENT COPY OF T-24 ON THE JOB SITE AT ALL TIMES.
- SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL WORK; SUCH AS MECHANICAL, ELECTRICAL, FINISHES AND WATERPROOFING SYSTEMS.
- THESE DRAWINGS, SPECIFICATIONS, CALCULATIONS AND REPRODUCTIONS ARE INSTRUMENTS OF SERVICE TO BE USED ONLY FOR THIS SPECIFIC PROJECT.

DESIGN BASIS

UNIFORM BUILDING CODE, 1988 EDITION, WITH STATE OF CALIFORNIA 1989 AMENDMENTS.

DESIGN LOADS: ROOF LIVE: 20 PSF, REDUCED PER TABLE 23C

FLOOR LIVE: 40 PSF, REDUCED PER SECTION 2306

WIND: BASIC WIND SPEED OF 75 MPH EXPOSURE C

SEISMIC: $V=ZICW/Rw$ WITH $C=2.75$; $I=1.0$; $Z=0.4$
 $Rw=6$ PER SECTION 2312

FOUNDATION

TEMPORARY FOUNDATION WITH PIERS LESS THAN 15 INCHES HIGH
BEARING CAPACITY $C_u = 1000$ PSF MINIMUM PER OSA
R SECTION 23.6.

QUALITY CONTROL

THE SCHOOL DISTRICT/OWNER SHALL PROVIDE SERVICES OF A TESTING AND INSPECTION SERVICE TO PERFORM MATERIAL TESTING AND SPECIAL INSPECTION REQUIRED BY THE STATE BUILDING CODE AND SECTION 306 OF THE UNIFORM BUILDING CODE. THE FOLLOWING ITEMS WILL REQUIRE CONTINUOUS IN-PLANT INSPECTION:

- COLD FORMED STEEL FABRICATION AND CONNECTIONS;
- WOOD FRAMING AND CONNECTIONS;

THE SPECIAL INSPECTORS SELECTED BY THE SCHOOL DISTRICT ARE SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER OR MANUFACTURER AND O.S.A. THE INSPECTION SERVICE SHALL PROVIDE QUALIFIED PERSONNEL TO PERFORM SPECIFIED INSPECTIONS, SAMPLING, TESTING AND/OR REPORTS AS NEEDED TO COMPLY WITH OSA IR 6-1, THE SPECIFIED STANDARDS, APPLICABLE ASTM OR RECOGNIZED INDUSTRY STANDARDS TO ASCERTAIN COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

WOOD FRAMING

NOTCHING OF WOOD STUDS SHALL NOT BE ALLOWED. THE EDGE OF BORE HOLES SHALL NOT BE LOCATED CLOSER THAN 1 INCH (1") FROM THE NARROW FACE OF THE STUD AND THE DIAMETER SHALL NOT EXCEED ONE-THIRD (1/3) THE MEMBER DEPTH, AND SHALL BE LOCATED IN THE CENTER OF THE STUD. HOLES TO BE LOCATED WITHIN 4" TO 5" FROM ENDS OF STUDS.

FRAMING LUMBER

ALL FRAMING LUMBER SHALL BE DOUGLAS FIR COAST REGION, CONFORMING TO THE WEST COAST LUMBER INSPECTION BUREAU STANDARD GRADING AND DRESSING RULE NUMBER 16, AS AMENDED TO DATE. LUMBER SHALL BE SURFACED FOUR SIDES (S4S) AND ALL PIECES SHALL BE GRADE STAMPED. LUMBER SHALL BE DRY AT THE TIME OF USE. THE AVERAGE MOISTURE CONTENT SHALL NOT EXCEED 19 PERCENT BY WEIGHT AS DETERMINED BY MEASUREMENT. LUMBER GRADES SHALL BE EQUAL TO OR BETTER THAN THE MINIMUM LISTED USE BELOW UNLESS OTHERWISE NOTED:

VERTICAL MEMBERS (STUDS, POSTS AND MULLIONS)

- CONCEALED 2X4 LESS THAN 10 FEET LONG CONSTRUCTION OR D.F. #2 GRADES LIGHT FRAMING AND STUDS PARAGRAPH 121-C
- CONCEALED 2" TO 4" THICK 5" AND WIDER "NO. 1" GRADE STRUCTURAL JOISTS AND PLANKS PARAGRAPH 123-B

HORIZONTAL MEMBERS (JOISTS, BEAMS, LEDGERS, PLATES AND BLOCKING)

- CONCEALED 2" TO 4" THICK 2" TO 4" WIDE "NO. 1" GRADE STRUCTURAL LIGHT FRAMING PARAGRAPH 124-B
- CONCEALED 2" TO 4" THICK 5" AND WIDER "NO. 1" GRADE STRUCTURAL JOISTS AND PLANKS PARAGRAPH 123-B

ALL PLATES IN CONTACT WITH CONCRETE, MASONRY OR ASPHALT PAVEMENT SHALL BE EITHER NO. 2 FOUNDATION GRADE REDWOOD PER PARAGRAPH 320 OF THE STANDARD SPECIFICATIONS FOR GRADES OF CALIFORNIA REDWOOD LUMBER OR PRESSURE TREATED CONSTRUCTION GRADE DOUGLASS FIR COAST REGION LUMBER TREATED WITH CCA WATER BORNE SALT PRESERVATIVE IN ACCORDANCE WITH AWPB STANDARDS C-2 AND LP-2 TO A MINIMUM RETENTION OF 0.25 POUNDS PER CUBIC FOOT. ALL PRESSURE TREATED LUMBER SHALL BEAR THE AWPB QUALITY MARK ON EACH PIECE.

PLYWOOD

ALL PLYWOOD SIDING & SKIRTING SHALL CONFORM TO U.S. PRODUCT STANDARD PS 1-B3M, AMERICAN PLYWOOD ASSOCIATION. EACH SHEET SHALL BE STAMPED WITH THE PS AND/OR A.P.A. GRADEMARK.

- FLOOR PLYWOOD SHALL BE APA RATED STURD-I-FLOOR 48" O.C. INSTALLED AS SHOWN ON THE DRAWINGS. PLYWOOD SHALL BE MANUFACTURED WITH EXTERIOR GLUE. SHEETS SHALL ABUT ALONG THE CENTERLINE OF FRAMING MEMBERS WITH FASTENERS SPACED NOT LESS THAN 3/8 INCH IN FROM THE SHEET EDGE. PLYWOOD SHALL BE GLUED AND SCREWED TO THE METAL FLOOR BEAMS IN ACCORDANCE WITH APA STANDARDS.
- SIDING SHALL BE APA 303 SIDING, TEXTURE 1-11, 5/8" THICK, SPAN RATED AT 16" O.C. WITH 1/4" DEEP MAX GROOVES SPACED AT 8" O.C.

PREFABRICATED CONNECTORS

PREFABRICATED METAL CONNECTORS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE, SAN LEANDRO, CALIFORNIA. THE CONNECTOR TYPE SHALL BE AS DESIGNATED ON THE PLANS PER CATALOG NUMBER C-88H-1 OR AS REQUIRED FOR THE ACTUAL FRAMING CONDITION. ALL HARDWARE SHALL BE INSTALLED PER THE MANUFACTURERS RECOMMENDATIONS AND PER THE REQUIREMENTS OF THE ICBO EVALUATION REPORT FOR THE SPECIFIC CONNECTOR USED.

MACHINE BOLTS

ALL MACHINE BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-307. HOLES FOR BOLTS IN STEEL SHALL BE BORED 1/16" LARGER THAN THE BOLT DIAMETER. BOLTS SHALL BE INSTALLED WITH CUT WASHERS UNDER THE NUTS.

ALL BOLTS SHALL BE TIGHTENED ON INSTALLATION AND RE-TIGHTENED BEFORE CLOSING-IN OR AT THE COMPLETION TO THE JOB.

LAG SCREWS

ALL LAG SCREWS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-307. THE CLEARANCE HOLE FOR THE SHANK SHALL HAVE THE SAME DIAMETER AS THE SHANK. THE LEAD HOLE FOR THE THREADED PORTION SHALL HAVE A LENGTH EQUAL TO THE THREADED PORTION AND A DIAMETER AS FOLLOWS:

SCREW DIAMETER 5/16" LEAD HOLE DIAMETER 1/4"

INSERT LAG SCREWS BY TURNING A WRENCH, NOT BY DRIVING WITH A HAMMER. SOAP OR OTHER LUBRICANT SHALL BE USED ON THE SCREWS OR APPLIED TO THE LEAD HOLE TO FACILITATE INSERTION AND PREVENT DAMAGE TO THE SCREW OR WOOD.

SELF-DRILLING, SELF-TAPPING FASTENERS

SCREWS FOR CONNECTING THE ROOF DECK TO THE ROOF FRAMING MEMBERS AND FOR CONNECTING THE FLOOR DIAPHRAGM PLYWOOD TO THE FLOOR FRAMING MEMBERS SHALL BE SELF-DRILLING, SELF-TAPPING FASTENERS AS MANUFACTURED BY ITW BUILDDEX, ITASCA, ILLINOIS. ROOF DECK FASTENERS SHALL BE HWH TEKS/3 WITH STAINLESS STEEL CAP AND EPDM SEALING WASHER. PLYWOOD FASTENERS SHALL BE PHILLIPS WAFER HEAD TEKS/4 WITH WINGS ZINC PLATED.

NAILING

ALL NAILING FOR STRUCTURAL WORK SHALL BE COMMON WIRE NAILS IN CONFORMANCE WITH TITLE 24, TABLE 250, TYP., AND UBC STANDARD 25-17. USE ONLY HOT-DIPPED ZINC-COATED NAILS PER TABLE 25-17U FOR EXTERIOR EXPOSURES. PNEUMATICALLY DRIVEN NAILS WILL BE ALLOWED ONLY UPON SUBMISSION OF ICBO REPORTS APPROVING THE NAILS FOR THE COMMON WIRE NAIL SPECIFIED. ALL NAILING SHALL BE DONE WITHOUT SPLITTING THE WOOD. THE CONTRACTOR SHALL SUB-DRILL HOLES 3/4 OF THE DIAMETER OF THE NAIL SHANK AS NECESSARY TO PREVENT SPLITTING. ALL MEMBERS SPLIT BY NAILING SHALL BE REPLACED.

STRUCTURAL STEEL AND MISCELLANEOUS IRON

STRUCTURAL STEEL AND MISCELLANEOUS IRON SHALL BE FABRICATED AND ERECTED IN CONFORMANCE WITH AISC SPECIFICATIONS AND THE FOLLOWING REQUIREMENTS.

TUBING ASTM A 500, CHORD

LIGHT GAUGE, COLD FORMED STEEL

ROOF AND FLOOR FRAMING MEMBERS SHALL BE FABRICATED FROM SHEET COILS CONFORMING TO THE REQUIREMENTS OF ASTM A570 GRADE 50 WITH A MINIMUM YIELD STRESS OF 45 KSI. THE MINIMUM SHEET THICKNESS FOR EACH GAUGE SPECIFIED SHALL BE SHOWN.

ROOF DECKING SHALL BE FABRICATED FROM SHEET COILS CONFORMING TO ASTM A446 GRADE A WITH A MINIMUM YIELD STRESS OF 33 KSI. STEEL SHALL BE 22 GAUGE WITH A MINIMUM SHEET THICKNESS OF 0.029 INCHES.

WELDING

ALL WELDING SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE BASED ON THE THICKNESS OF MATERIAL BEING WELDED AS FOLLOWS:

AWS D1.1 "STRUCTURAL WELDING CODE - STEEL" FOR MATERIAL OF 0.18 INCHES OR GREATER THICKNESS.

AWS D1.3 "STRUCTURAL WELDING CODE - SHEET STEEL" FOR MATERIAL OF THICKNESS LESS THAN 0.18 INCHES.

ALL FULL PENETRATION WELDS TO BE PRE-QUALIFIED
ALL WELDING SHALL BE PERFORMED BY WELDERS CERTIFIED IN ACCORDANCE WITH APPLICABLE AWS WELDER QUALIFICATION PROCEDURES AND SECTION 2714, T-24. WELDERS SHALL BE CERTIFIED TO PERFORM EACH TYPE OF PROCEDURE THEY ARE REQUIRED TO PERFORM.

THE MANUFACTURER SHALL PREPARE A WRITTEN WELDING PROCEDURES SPECIFICATION SUBMITTAL. THE SUBMITTAL SHALL DESCRIBE THE PROCEDURE TO BE USED FOR EACH TYPE OF WELD, QUALIFICATION METHOD AND QUALIFICATION TEST INFORMATION. THE SUBMITTAL SHALL BE PREPARED USING FORMS SIMILAR TO THOSE RECOMMENDED BY APPLICABLE AWS CODES.

CONCRETE

- CONCRETE COMPRESSIVE STRENGTH, f'_c SHALL BE 2,000 PSI MINIMUM. UNLESS SPECIFIED OTHERWISE, f'_c SHALL BE BASED ON 28-DAY TESTING.
- CONCRETE MIX DESIGN: THE COMPRESSIVE STRENGTH OF NONDESIGNED CONCRETE SHALL BE PROPORTIONED IN ACCORDANCE WITH CBC METHOD A §2604.(c). AS SPECIFIED IN TABLE 26-A-3.
(a) FOR SMALL CONCRETE JOBS WHERE JOB MIXING IS NECESSARY, A MIX WITH PROPORTIONS OF 1:2:3 1/2 MIX BY VOLUME CONTAINING NO MORE THAN 7 GALLONS OF WATER PER SACK OF CEMENT MAY BE USED.
- EVALUATION AND ACCEPTANCE OF CONCRETE: FREQUENCY OF TESTING AND EVALUATION PROCEDURES SHALL BE IN ACCORDANCE WITH CBC §2604.(f).

FOR CALIFORNIA STATE AGENCY USE ONLY:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-117736 INC.
REVIEWED FOR
SS FLS ACS
DATE: 02/13/2020

IDENTIFICATION STAMP
Department of General Services
Office of the State Architect
FEB 21 1991
Structural Safety Section
Appl. # PC-118 Revised
Rechecked By: [Signature]
REVISED, 3-22-91 AM/SAE

NOT FOR CONSTRUCTION

TABLE NO.25-Q-NAILING SCHEDULE

CONNECTION	NAILING (1)
1. JOIST TO BEARING, EACH SIDE	2-10d
2. BRIDGING TO JOIST, TOENAIL EACH END	2-8d
3. 1" X 6" SUBFLOOR OR LESS TO EACH JOIST FACE NAIL	2-8d
4. UNDER THAN 1" X 6" SUBFLOOR TO EACH JOIST, FACE NAIL	3-8d
5. 2" SUBFLOOR TO JOIST OR GIRDER, END NAIL AND FACE NAIL	2-16d
6. SOLE PLATE TO JOIST OR BLOORING, FACE NAIL	16d @ 16" O/C
7. TOP PLATE TO STUD, END NAIL	2-16d
8. STUD TO SOLE PLATE	4-8 TOENAIL OR 2-16d END NAIL
9. DOUBLE STUDS, FACE NAIL	16d @ 24" O/C
10. DOUBLED TOP PLATES, FACE NAIL	16d @ 16" O/C
11. TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL	2-16d
12. CONTINUOUS HEADER, TWO PIECES	16d @ 16" O/C
13. CEILING JOISTS TO PLATE, TOENAIL	3-8d
14. CONTINUOUS HEADER TO STUD, TOENAIL	4-8d
15. CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	3-16d
16. CEILING JOISTS TO PARALLEL PARTITIONS, FACE NAIL	3-16d
17. RAFTER TO PLATE, TOENAIL	3-8d
18. 1" BRACE TO EA. STUD & PLATE, FACE NAIL	2-8d
19. 1" X 8" SHEATHING OR LESS TO EA. BEARING, FACE NAIL	2-8d
20. UNDER THAN 1" X 8" SHEATHING TO EACH BEARING, FACE NAIL	3-8d

CONNECTION	NAILING
21. BUILT-UP CORNER STUDS	16d @ 24" O/C
22. BUILT-UP GIRDER AND BEAMS	20d @ 32" O/C AT TOP AND BOTTOM AND STAGGERED 2'-20d @ ENDS AND AT EACH SPLICE
23. 2" PLANKS	2-16d @ EACH BEARING
24. PLYWOOD AND PARTICLE BOARD (5) SUBFLOOR, ROOF & WALL SHEATHING (TO FRAMING)	
1/2" AND LESS	6d (2)
19/32"-3/4"	8d (3) OR 6d (4)
7/8"-1"	8d (2)
1 1/8"-1 1/4"	10d (3) OR 8d (4)
CONCRETE SUBFLOOR-UNDERLAYMENT (TO FRAMING)	
3/4" OR LESS	6d (4)
7/8"-1"	8d (4)
1 1/8"-1 1/4"	10d (3) OR 8d (4)
25. PANEL SIDING (TO FRAMING):	
1/2" OR LESS	6d (6)
5/8"	8d (6)
26. FIBERBOARD SHEATHING (7)	
1/2"	NO. 11 GA. 8
	6d (3)
	NO. 16 GA. (4)
	NO. 11 GA. (8)
	8d (3)
	NO. 16 GA. (4)

- COMMON OR BOX NAILS MAY BE USED EXCEPT WHERE OTHERWISE STATED
- COMMON OR DEFORMED SHANK
- COMMON
- DEFORMED SHANK
- NAILS SPACED AT 6 INCHES ON CENTER AT EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS (10 INCHES AT INTERMEDIATE SUPPORTS FOR FLOORS). EXCEPT 8 INCHES AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE. FOR NAILING OF PLYWOOD AND PARTICLEBOARD SHEATHINGS AND STEEL WALLS REFER TO SECTION 2603 (c). NAILS FOR WALL SHEATHING MAY BE COMMON BOX OR CASING
- CONCRETE-RESISTANT NAILING OR CASING NAILS CONFORMING TO THE REQUIREMENTS OF SECTION 2606 (d) 1.
- FASTENERS SPACED 3 INCHES ON CENTER AT EXTERIOR EDGES AND 6 INCHES ON CENTER AT INTERMEDIATE SUPPORTS
- CONCRETE-RESISTANT ROOFING NAILS WITH 7/8" HIGH-DIAMETER HEAD AND 1 1/2" HIGH LENGTH FOR 1/2" HIGH SHEATHING AND 1 3/4" HIGH LENGTH FOR 22" HIGH SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION (d) 1.
- CONCRETE-RESISTANT STAPLES WITH NORMAL 7/8" HIGH CROWN AND 1 1/8" HIGH LENGTH FOR 1/2" HIGH SHEATHING AND 1 1/2" HIGH LENGTH FOR 22" HIGH SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2606 (d) 1.

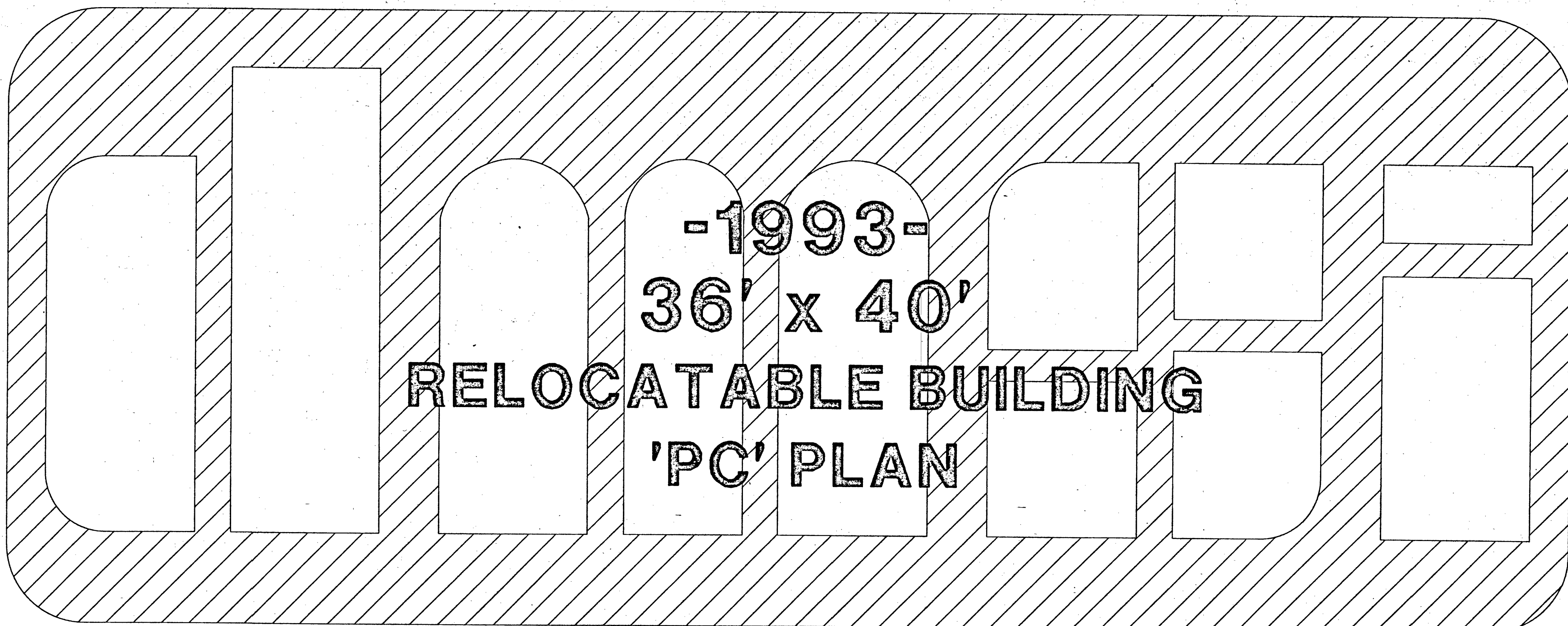
DESCRIPTION	DATE	REV	DATE	REV	DATE	REV
	1/17/91					

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SPECIFICATIONS
PROJECT # 92-01
SHEET NUMBER
S-6
OF SHEETS

STATE OF CALIFORNIA
Department of General Services
MAR 24 1991
Office of the State Architect
Structural Safety



-1993-
36' x 40'
RELOCATABLE BUILDING
'PC' PLAN

designed mobile systems industries, inc.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APP. 02-117736 INC.
REVIEWED FOR
SS FLS ACS
DATE: 02/13/2020

designed mobile systems industries, inc.
P.O. BOX 367
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95363
(209) 892-6298

Approval: Engineering Consultant

Approval: Architect

mangini ARCHITECTS
ARCHITECTURE + PLANNING INTERIORS
810 W. ACEQUIA ST. - SUITE 100 CA - 92391
(209) 827-0597 FAX 827-1626

Approval: Structural Safety

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPROVED FOR
AC 211736 FLS 21 SS 21
DATE 10-19-93 (SP)

At: City Marshal

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL G 21 5 9
AC 211736 FLS 21 SS 21
DATE 11/20/98

Approval: Access Compliance

80 MPH EXP 'C' / 20 PSF UNREDUCED
DMSI-1993

36x40 RELOCATABLE BUILDING
PORTERVILLE PUBLIC SCHOOL DISTRICT
PORTERVILLE, CA DATE: 7/26/91 JOB: 3323
Sheet Title: COVER SHEET

Drawn: J.F./WS
Date: 9/20/93
Scale: NOTED
Job:
Sheet
C
Of Sheet

TESTING LABORATORY: _____ DATE: _____
JOB NAME: _____
DISTRICT: _____
DIVISION-FILE NO.: _____ APPLICATION NO.: _____
STRUCTURAL ENGINEER: _____

STATE OF CALIFORNIA
DEPT. GENERAL SERVICES
OFFICE OF THE
STATE ARCHITECT

STRUCTURAL
TESTS
AND
INSPECTIONS

The following tests and inspections, as checked, will be required as detailed in applicable specifications.

COMPACTED FILL	CONC.	GROUT	MORTAR	TESTS
<input type="checkbox"/> Fill material acceptance tests				Test of aggregates for mix design only
<input type="checkbox"/> Compaction control continuous				Submittal tests of aggregates as detailed below
<input type="checkbox"/> Compaction tests only as ordered				Mix designs
<input type="checkbox"/> Review capacity of compacted fill				Continuous batch plant inspection (WEIGHT MASTER)
REINFORCING STEEL				
<input type="checkbox"/> Sample and test bar steel				Sample
<input type="checkbox"/> Sample and test mesh				Compression tests
<input type="checkbox"/> Inspect splices at job				Pick up samples at job
<input type="checkbox"/> Structural steel				Specimens delivered to laboratory
<input type="checkbox"/> Sample and test as detailed below				Deliver sample forms to lab
<input checked="" type="checkbox"/> Shop fabrication inspection (in-plant)				
<input type="checkbox"/> Field erection inspection				
<input type="checkbox"/> Inspection of welds-fillet				
<input type="checkbox"/> Inspection of welds-flush				
<input type="checkbox"/> Inspection of rivets at bolting-Shop				
<input type="checkbox"/> Inspection of rivets at bolting-Field				
<input type="checkbox"/> Sample and test high strength bolts and washers				
BRICK AND BLOCK				
<input type="checkbox"/> Sample and test				
<input type="checkbox"/> Test only				
<input type="checkbox"/> Inspection of staining				
<input type="checkbox"/> Core #33 samples				
GLUED LAMINATED STRUCTURAL LUMBER				
<input type="checkbox"/> Fabrication inspection				
<input type="checkbox"/> Sample and test steel accessories				
<input type="checkbox"/> Inspect fabrication of steel accessories				

List of structural steel members to be tested: (MIL Certifications Accepted in lieu of testing)
All unidentified steel and metal decking. (Metal roof covering is exempt.)

Other tests and inspections, together with special instructions:
DRIVE PINS
GENERAL IN-PLANT

Copies of Reports to:
OSA-SSS
ARCHITECT
CONTRACTOR-DMSI

By: _____
Authorized Representative

Form 411-11.

SAFE ASBESTOS LEVEL CERTIFICATION

WE HEREBY CERTIFY THAT NO ASBESTOS CONTAINING BUILDING MATERIALS WHICH EXCEED STATE AND FEDERAL MANDATED SAFE ASBESTOS LEVELS HAVE BEEN USED IN THE CONSTRUCTION OF THIS RELOCATABLE FACILITY.

BY: _____
designed mobile systems IND., INC.

CALIFORNIA STATE APPLICABLE CODES

- CALIFORNIA BUILDING CODE 1991
- CALIFORNIA MECHANICAL CODE 1991
- CALIFORNIA PLUMBING CODE 1991
- CALIFORNIA ELECTRICAL CODE 1990
- CALIFORNIA PLUMBING CODE 1991

COLLECTIVELY REFERRED TO AS TITLE 24
PARTS 2-3-4-5

GENERAL NOTES

- WIND LOAD: 80 MPH EXPOSURE 'C'
ROOF LOAD: 20 PSF UNREDUCED
FLOOR LOADS: 50 PSF LIVE LOAD
50 PSF L.L. + 20 PSF PARTITION
~~300 PSF LIVE LOAD~~
~~125 PSF LIVE LOAD~~
- SEISMIC LOAD: I=1, Z=0.4, C=2.75, R_w=6, V=0.183W
CABINETS (OPTIONAL): SEE 11/MA2 FOR ANCHORAGE DETAILS.
- THIS APPROVAL IS FOR USE AS A COMPARISON SET TO OBTAIN AN APPLICATION NUMBER. A SEPARATE APPLICATION WILL BE SUBMITTED TO O.S.A. FOR MOVING TO LOCATION ON A SPECIFIC SITE. BUILDINGS ARE NOT TO BE USED UNTIL MOVED TO A SITE APPROVED BY O.S.A. A "T & R" LIST IS REQUIRED FOR EACH APPLICATION.
- SITE INSTALLATION INCLUDES:
FOUNDATIONS, RAMP SET-UP, BOLTING OF MODS, EXTERIOR & INTERIOR CLOSE-UP AT MODULE LINE, CARPET, SHEET METAL ROOF CLOSURE, AND BONDING OF METAL BUILDING COMPONENTS AND RAMP TO ELECTRICAL PANEL AS INDICATED ON PLANS.
- SITE WORK NOT INCLUDED IN CONTRACT:
SITE GRADING, GROUNDING OF BUILDING, ELECTRICAL HOOK UP, AND TRANSITION OF RAMP TO END OF GRADE.
- MINIMUM SEPARATION BETWEEN BUILDINGS: 2'-0" U.O.N.
- CONDUIT AND JUNCTION BOXES ONLY PROVIDED FOR FIRE ALARM SYSTEMS.
- BUILDING PAD TO BE WITHIN 6" OF LEVEL.
- CONSTRUCTION: TYPE V-N
- OCCUPANCY: ~~TYPE V-N~~ AS APPLIES
- APPL G 21 5 9

DRAWING INDEX

C	COVER SHEET
MA1	FLOOR PLAN & ELEVATIONS
MA2	ALTERNATE FLOOR PLAN & ELEVATIONS
MA2	DETAILS
MA3	SPECIFICATIONS
MA4	ROOFING LAYOUT
MA4-1	ALTERNATE ROOFING LAYOUT
ME1	ELECTRICAL PLAN & DETAILS
MM1	MECHANICAL PLAN & DETAILS
MM2	ALTERNATE MECHANICAL PLAN & DETAILS
RF1	MODULE LAYOUT & STRUCTURAL NOTES
RF2	FLOOR FRAMING PLAN & DETAILS
RF2.1	ALTERNATE FLOOR FRAMING PLANS
RF3	FRAME ELEVATIONS & COLUMN POCKET DETAILS
RF4	BUILDING SECTION
RF5	ROOF FRAMING PLAN & DETAILS
RF6	ALTERNATE ROOF FRAMING
RF6	WALL FRAMING ELEVATIONS
R1	RAMP PLAN & DETAILS
CR1	ALTERNATE CONCRETE RAMP
SF1	FOUNDATION PLAN
SF1-1	ALTERNATE WOOD FOUNDATION PLAN
CF1	ALTERNATE CONCRETE FOUNDATION PLAN
CF2	ALTERNATE CONCRETE FOUNDATION DETAILS

ACCESS COMPLIANCE NOTES RE: SITE CONDITIONS

- MAX. BUILDING HEIGHT 28" FROM GRADE TO FINISH FLOOR.
- IF STANDARD RAMP IS USED MAX. HEIGHT IS 14" ABOVE GRADE. SITE MUST BE GRADED TO ACCOMMODATE THIS CONDITION. (REFER TO SHT. R1 FOR RAMP).
- BOTTOM LANDING OF RAMP MUST BE LEVEL AND 6'-0" IN LENGTH IN DIRECTION OF RAMP AND MUST BE CLEAR AND UNOBSTRUCTED. SPACING OF UNITS DEPENDS ON LENGTH OF RAMP AND LANDING.

FIRE MARSHAL NOTATION:

- APPROVAL OF THIS APPLICATION DOES NOT CONSTITUTE APPROVAL OF THE FIRE ALARM SYSTEM.
- FIRE ALARM SYSTEM IS A DEFERRED APPROVAL ITEM.
- TO BE PROVIDED TO STATE FIRE MARSHAL WHEN SITE IS DETERMINED--
ACCESS ROADS & GATE ENTRANCES PURSUANT TO: TITLE, 19, CCR, SUBCHAPTER 1, ARTICLE 3.05 ACCESS ROADS AND 3.16 GATE ENTRANCES TO SCHOOL GROUNDS. IT IS NECESSARY TO PROVIDE THE STATE FIRE MARSHAL (OSA) WITH WRITTEN CERTIFICATION FROM THE FIRE AUTHORITY THAT THE ABOVE SECTIONS ARE BEING MET TO THEIR SATISFACTION. IT IS NECESSARY TO PROVIDE THIS INFORMATION PRIOR TO RECEIVING APPROVAL BY THE STATE FIRE MARSHAL. (IF FURTHER INFORMATION IS DESIRED, PLEASE CONTACT THE SFM, IN OSA.)
- PROVIDE SEPARATE SHOP DRAWINGS FOR FIRE ALARM SYSTEM TO STATE FIRE MARSHAL AT OSA. FOR REVIEW & APPROVAL PRIOR TO INSTALLATION.
- PROVIDE STATE FIRE MARSHAL LISTING NUMBERS FOR ALL COMPONENTS.

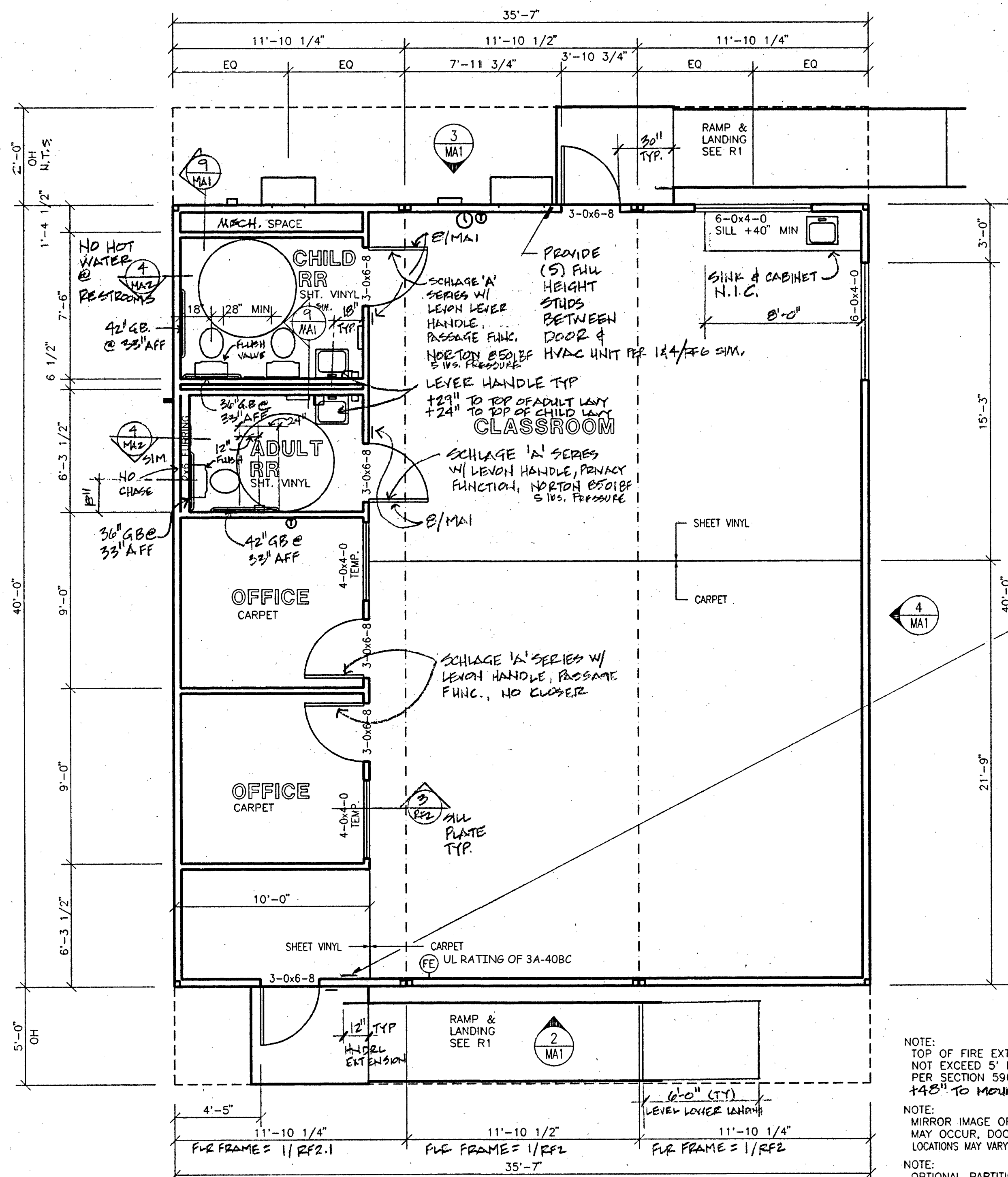
ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR	CONC.	CONCRETE	EQ	EQUAL	GND	GROUND
ALUM./AL	ALUMINUM	CONT.	CONTINUOUS	EXT	EXTERIOR	H.M.	HOLLOW METAL
ADJ.	ADJUSTABLE	DBL	DOUBLE	F.E.	FIRE EXTINGUISHER	INSUL	INSULATION
BC	BOTTOM CHORD	DIA	DIAMETER	FDN	FOUNDATION	INT	INTERIOR
BLDG	BUILDING	DIM	DIMENSION	FOS	FACE OF STUD	MAX	MAXIMUM
BLK	BLOCK	DN	DOWN	FOC	FACE OF COLUMN	MFR	MANUFACTURER
BLKG	BLOCKING	EA	EACH	FOF	FACE OF FINISH	MIN.	MINIMUM
CL	CENTER LINE	ELEC	ELECTRICAL	FFL	FINISH FLOOR	N.I.C.	NOT IN CONTRACT
CLG	CEILING	EOT	EDGE OF TRUSS	GA	GAUGE	N.T.S.	NOT TO SCALE
COL.	COLUMN	EOF	EDGE OF FLANGE	GALV	GALVANIZED	TYP.	TYPICAL

FILE NAME: CSBC
PLT SF: 1-1

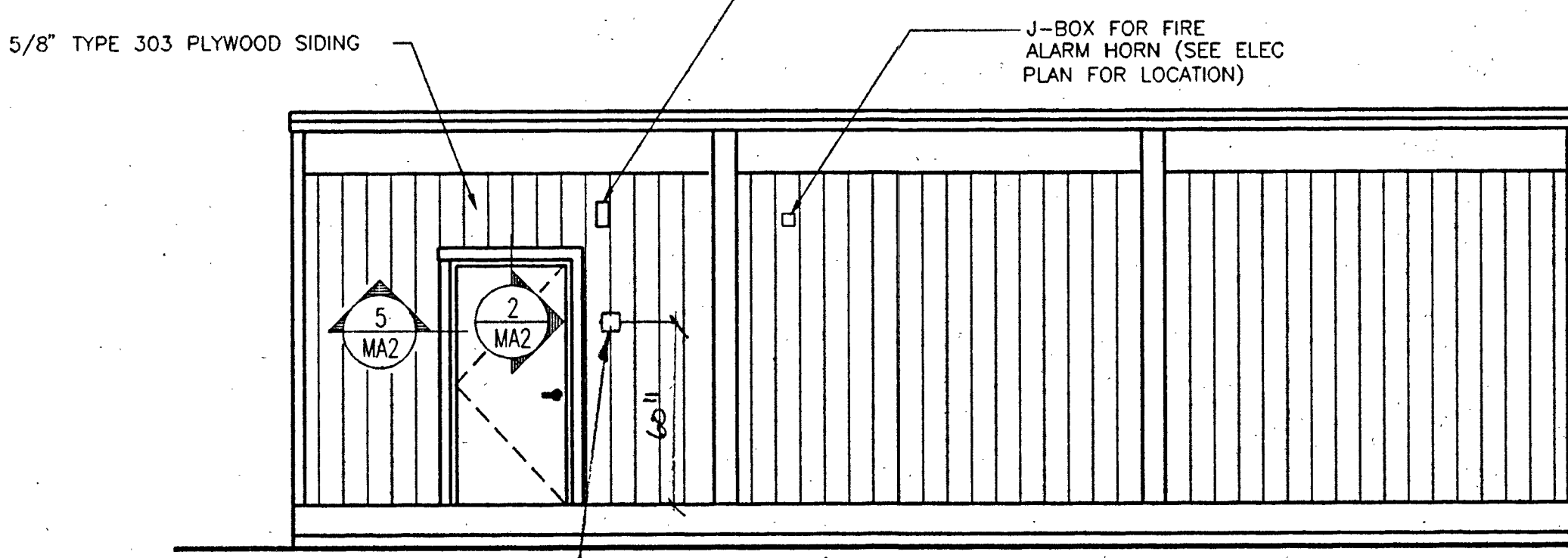
STATE OF CALIFORNIA
Department of General Services
AUG 25 1994
Division of the State Architect
Regulation Services-Struct.

TOILET ACCESSORIES (DIM. TO OPERABLE PARTS TYP)
 SOAP & TOWEL DISP. 140" AFF
 LOWER EDGE OF MIRROR 140" AFF
 SEAT COVER DISPENSER @ SIDE
 WALL ABOVE GRAB BAR
 ROLL PAPER DISP. @ SIDE WALL
 12" IN FRONT OF W.C. UNDER GRAB BAR

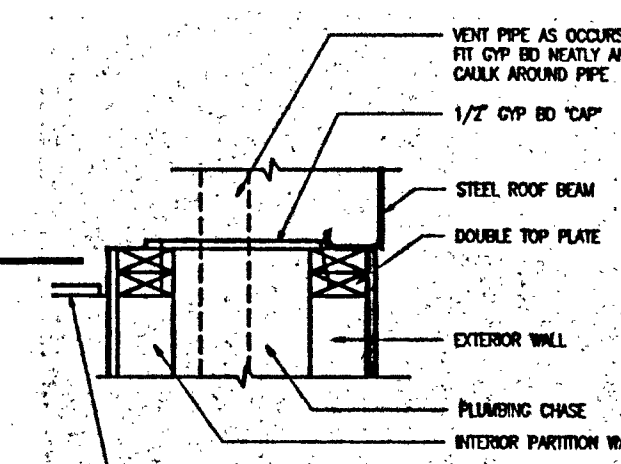


1 FLOOR PLAN
 MA1 1/4" = 1'-0"

INTERIOR DOOR FRAMES MAY BE TIMELY OR RED-I-FRAME METAL DOOR JAMBES.



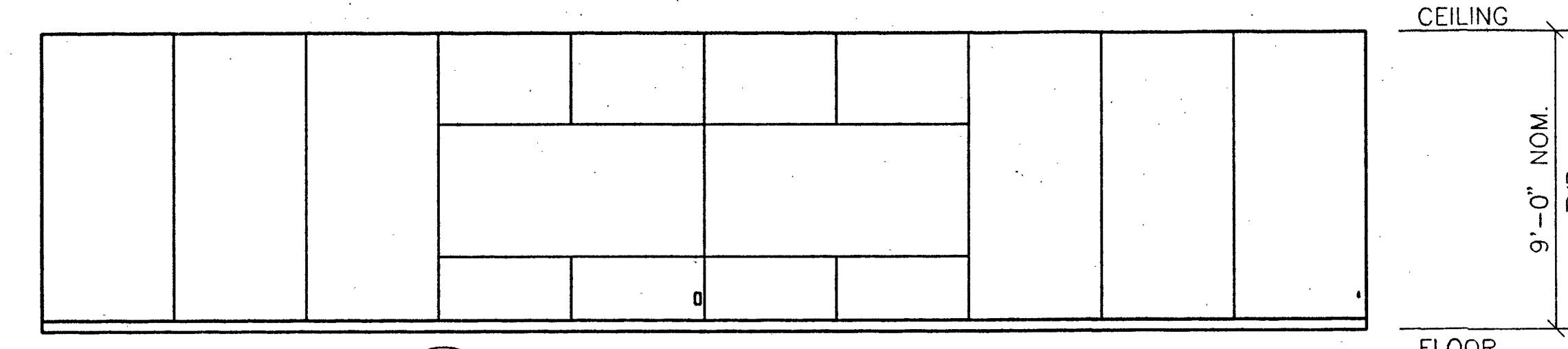
2 FRONT ELEVATION
 MA1 1/4" = 1'-0"



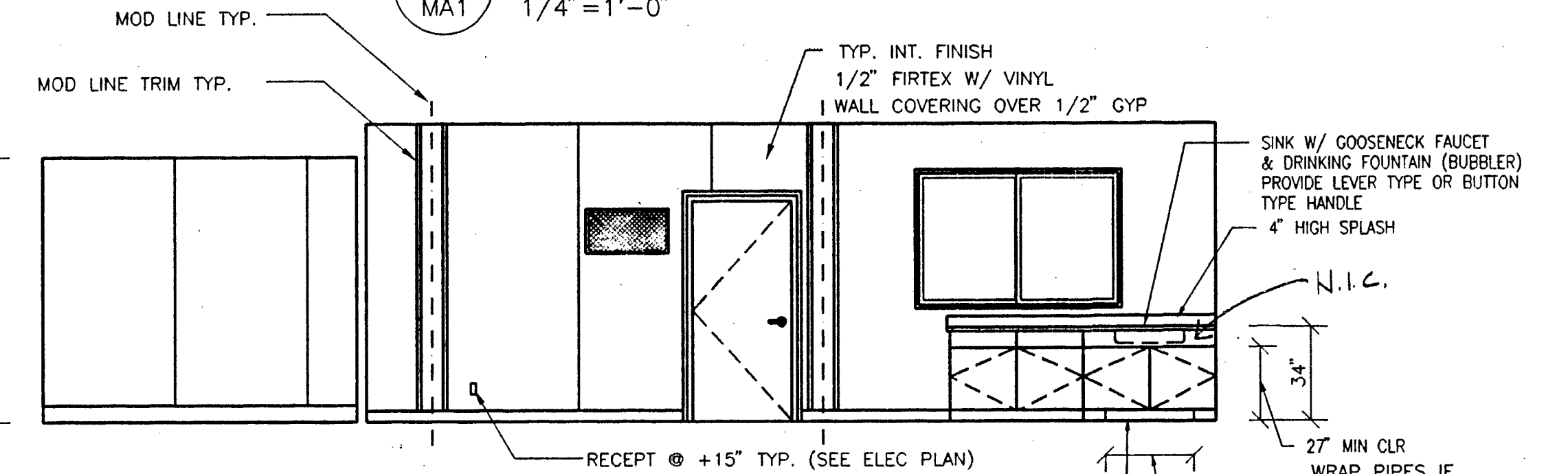
9 FIRE STOP @ PLUMBING CHASE
 MA1 NO SCALE

THIS ROOM SHALL BE POSTED WITH A DURABLE SIGN NEAR THE MAIN EXIT FROM THE ROOM. THE SIGN SHALL BE WORDED AS FOLLOWS:
 'THE NUMBER OF PEOPLE PERMITTED IN THIS ROOM SHALL NOT EXCEED 54'
 BY ORDER OF THE STATE FIRE MARSHAL

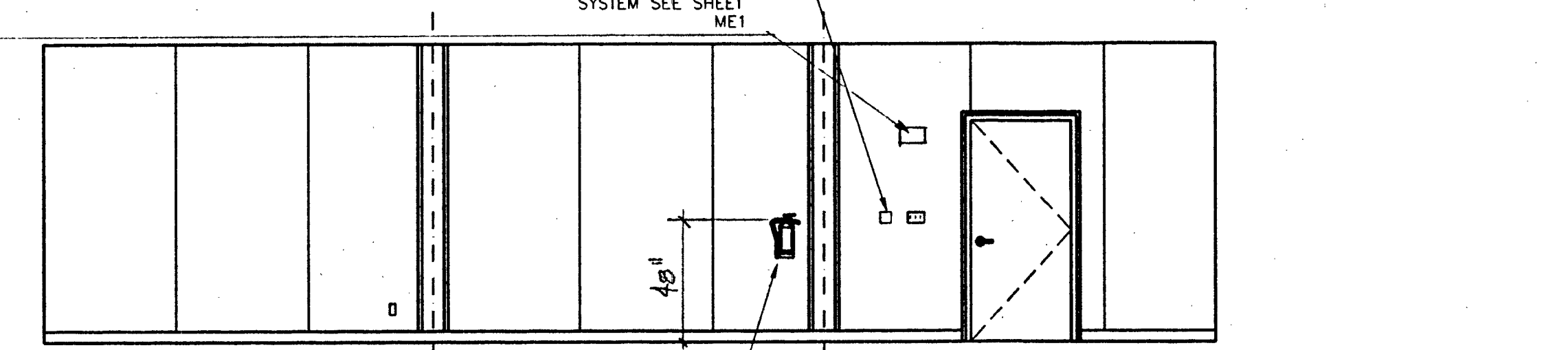
NOTE:
 TOP OF FIRE EXTINGUISHER SHALL NOT EXCEED 5' FROM FINISH FLOOR PER SECTION 596 T-19 CCA. 148" TO MOUNTING BRACKET
 NOTE:
 MIRROR IMAGE OF FLOOR PLAN MAY OCCUR. DOORS & WINDOWS LOCATIONS MAY VARY PER SITE CONDITIONS
 NOTE:
 OPTIONAL PARTITION WALLS MAY OCCUR. LOCATION MAY VARY. SEE DETAILS: 3/RF2,8/RF6,9/RF6



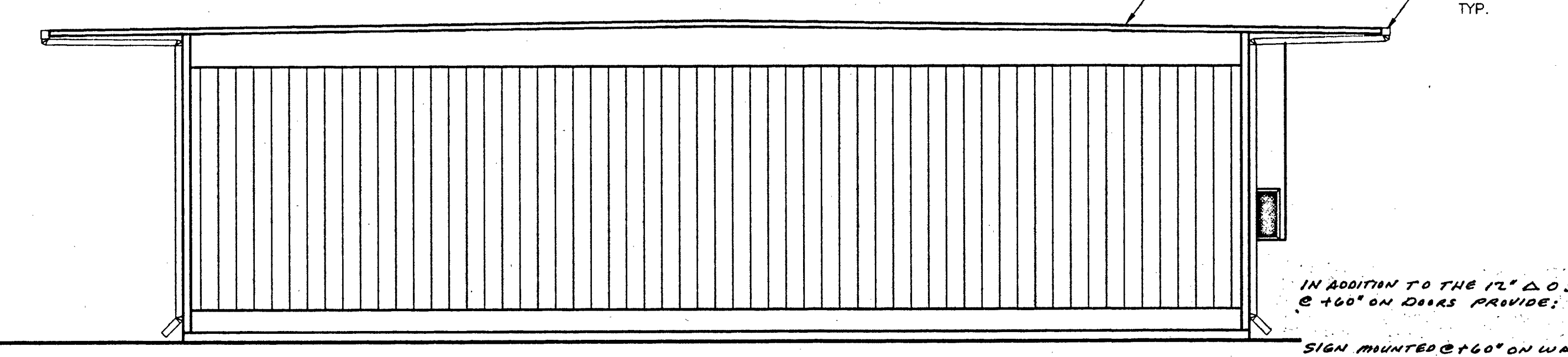
7 SIDE INTERIOR ELEVATION
 MA1 1/4" = 1'-0"



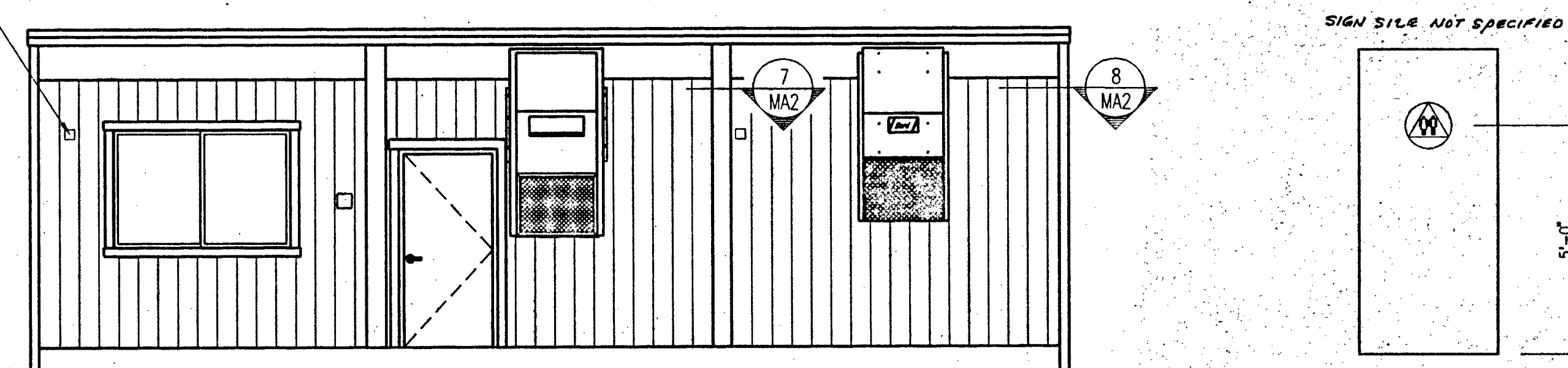
6 REAR INTERIOR ELEVATION
 MA1 1/4" = 1'-0"



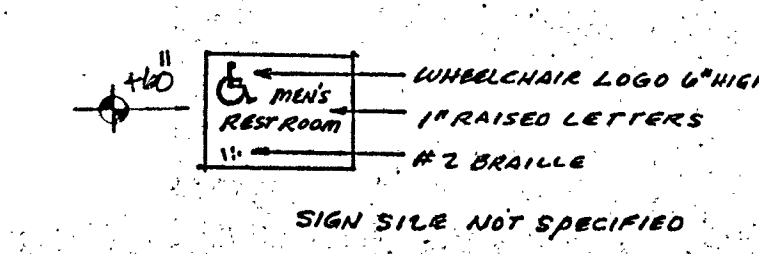
5 FRONT INTERIOR ELEVATION
 MA1 1/4" = 1'-0"



4 SIDE ELEVATION
 MA1 1/4" = 1'-0"

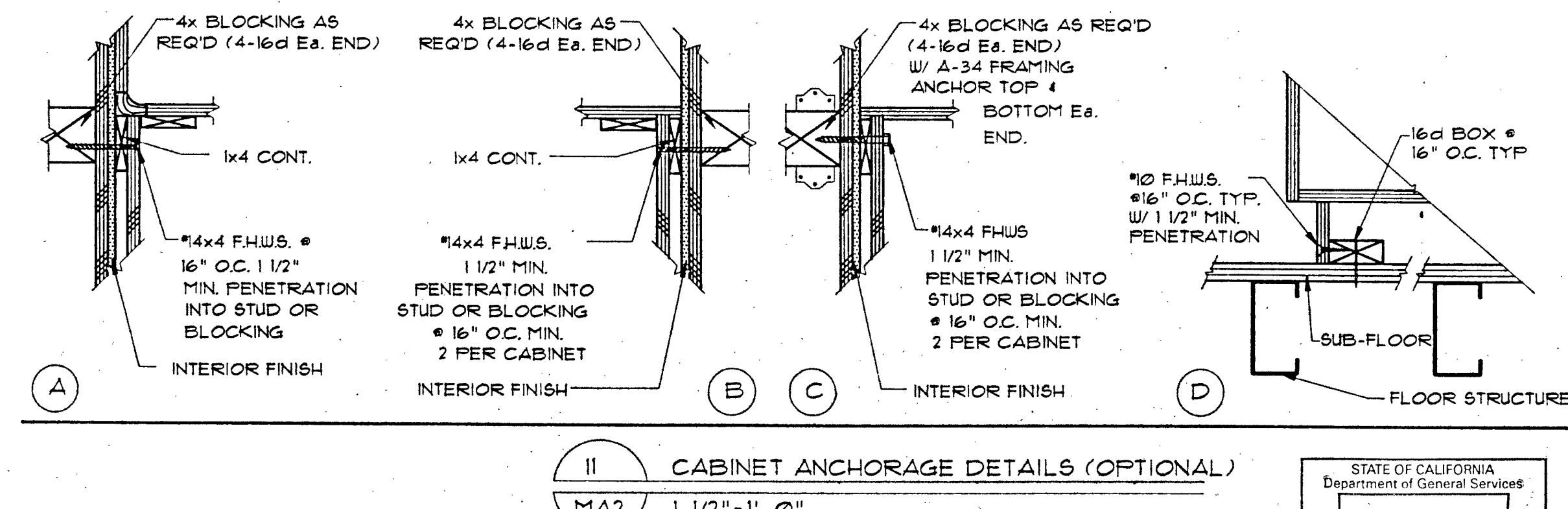
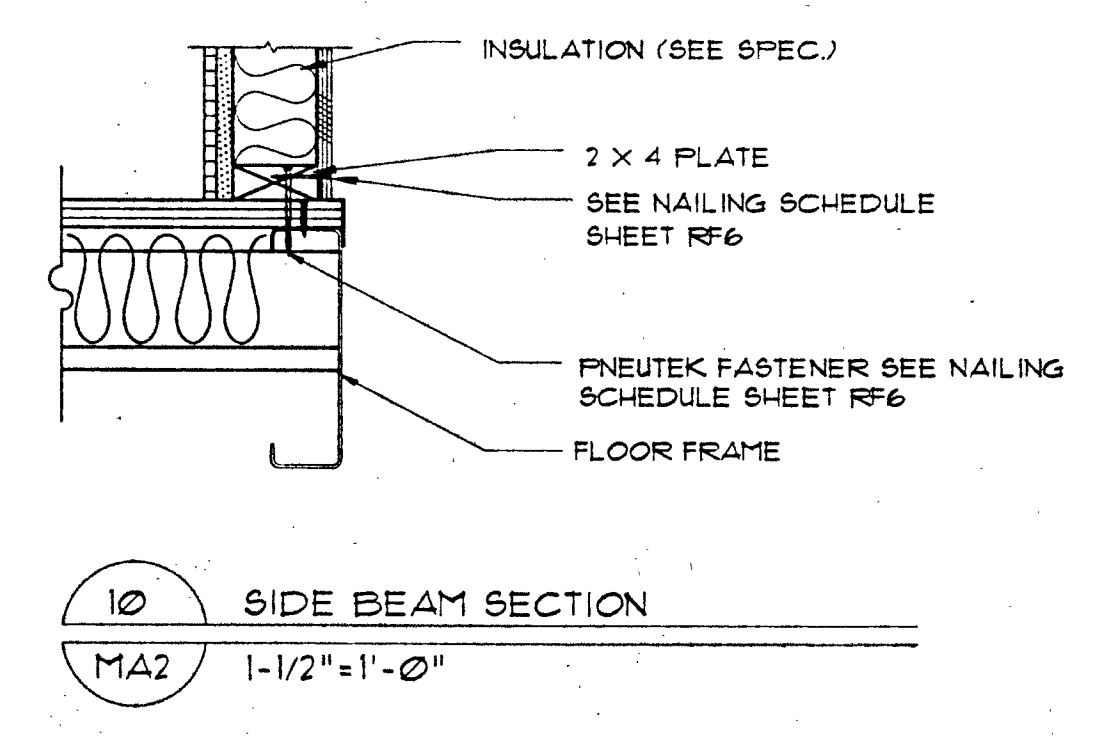
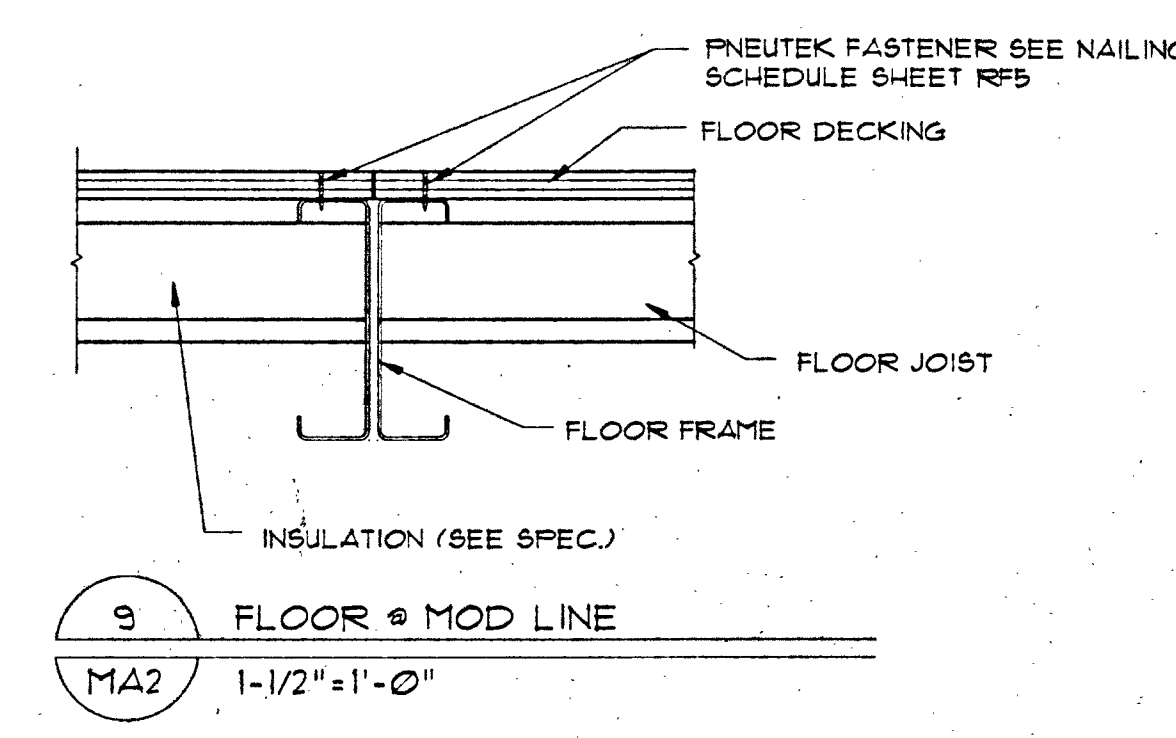
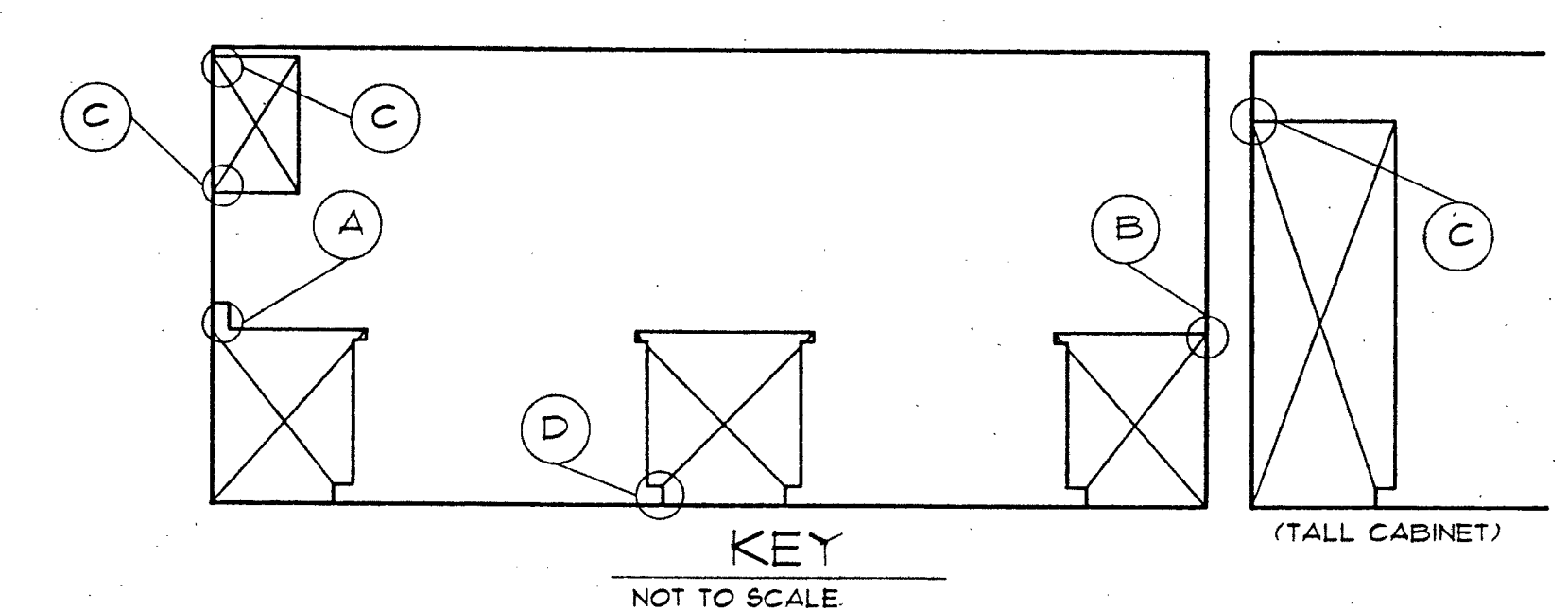
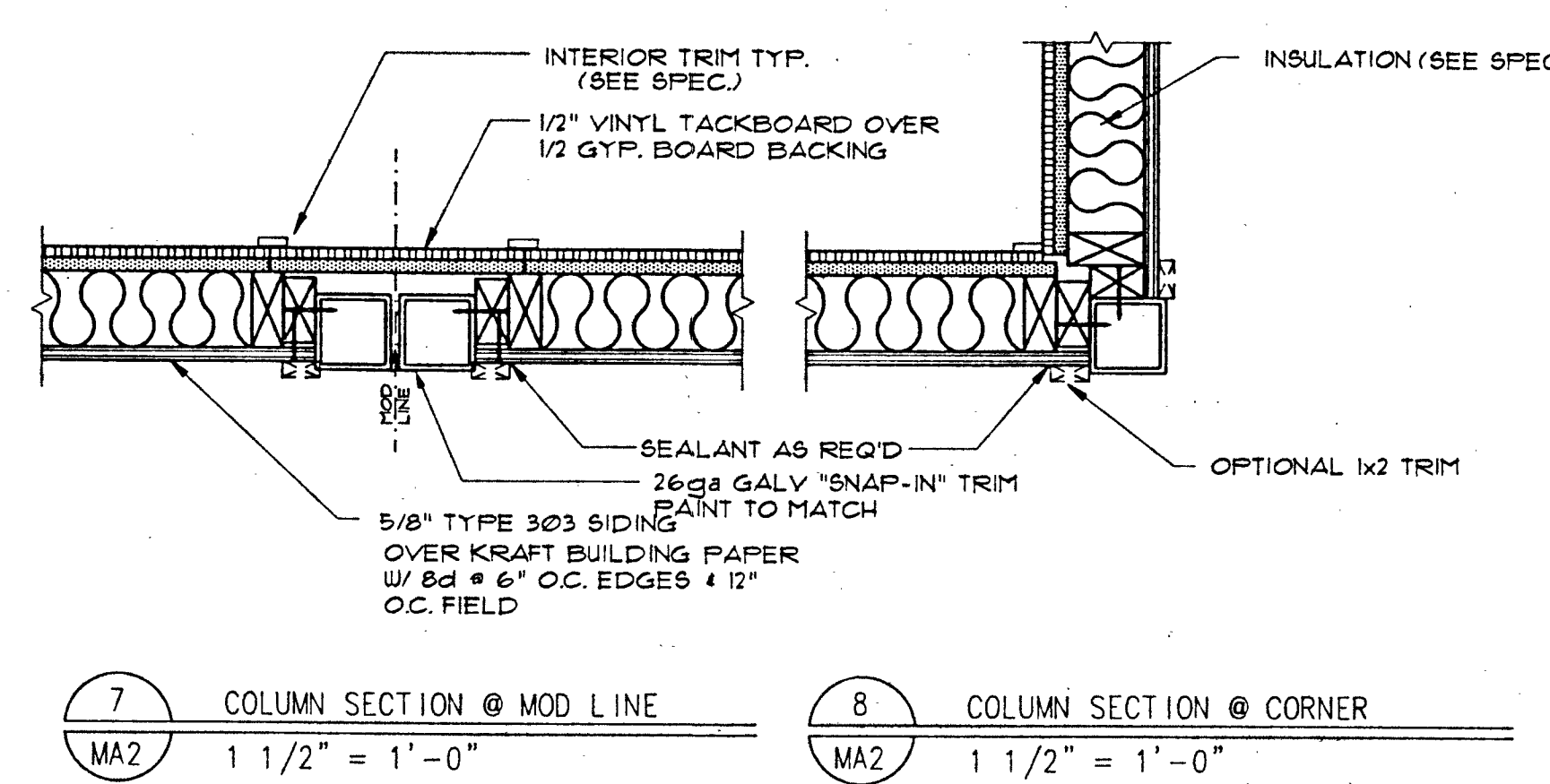
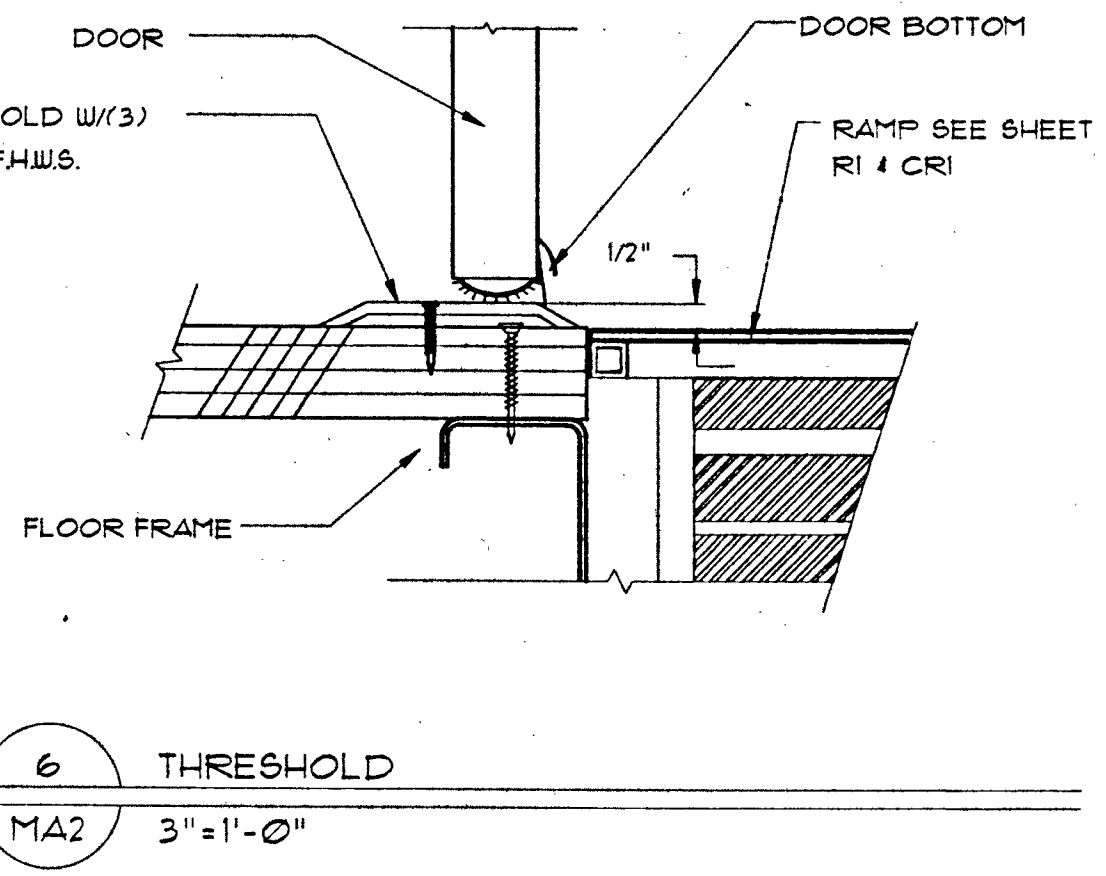
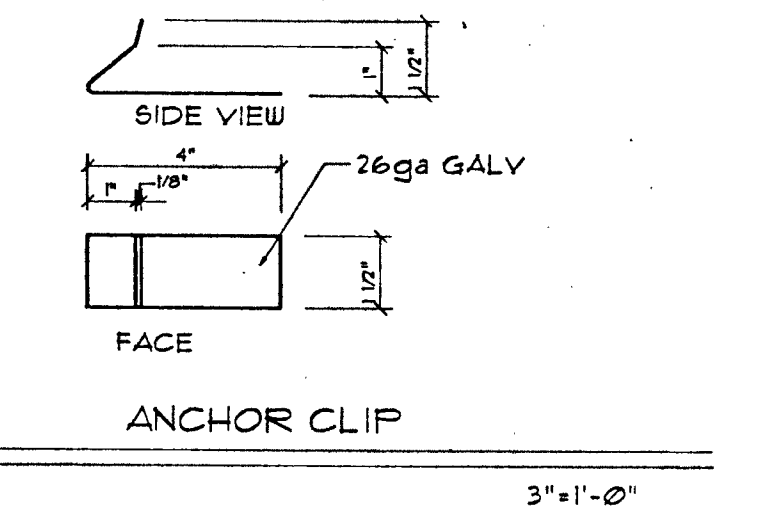
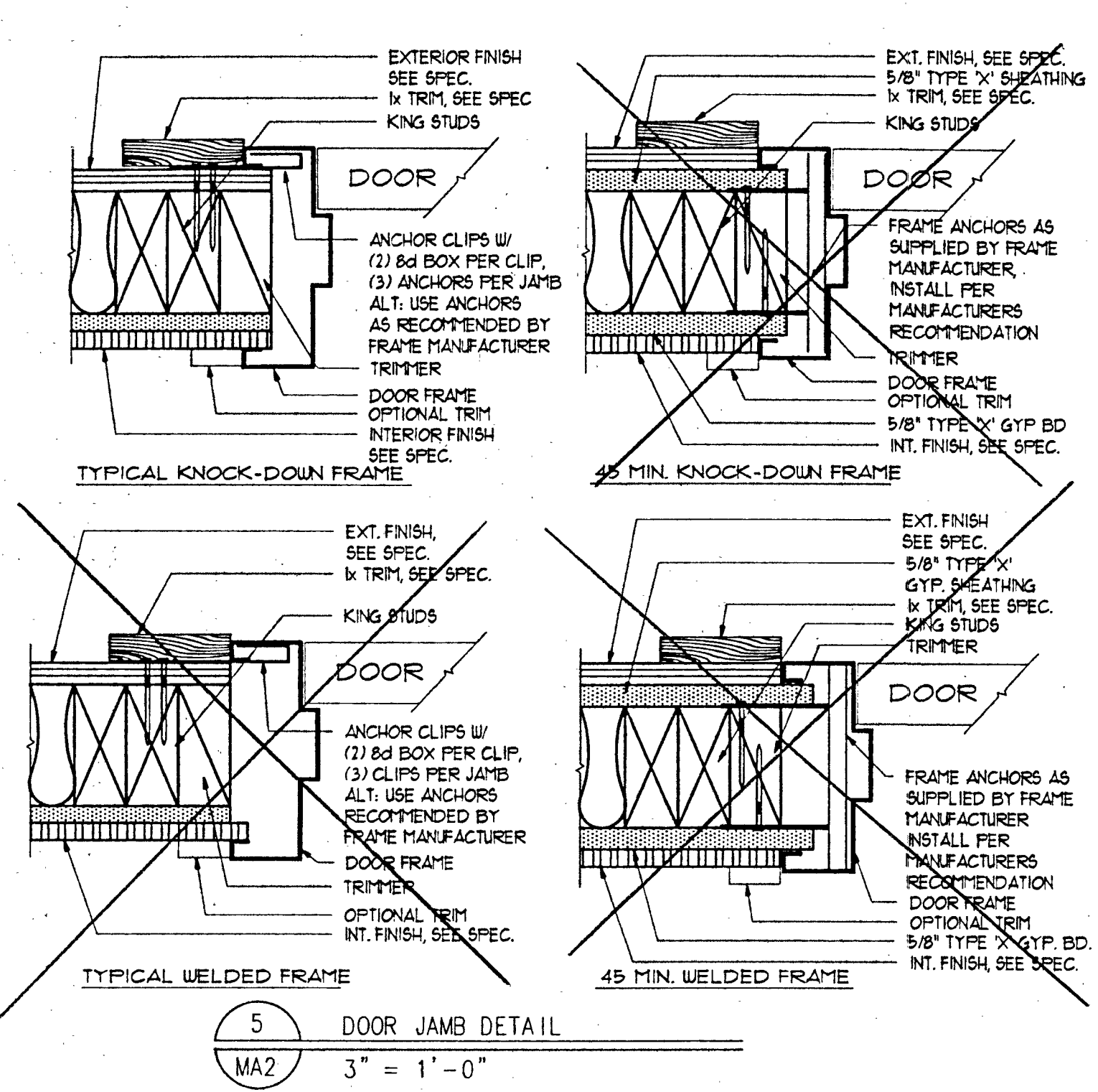
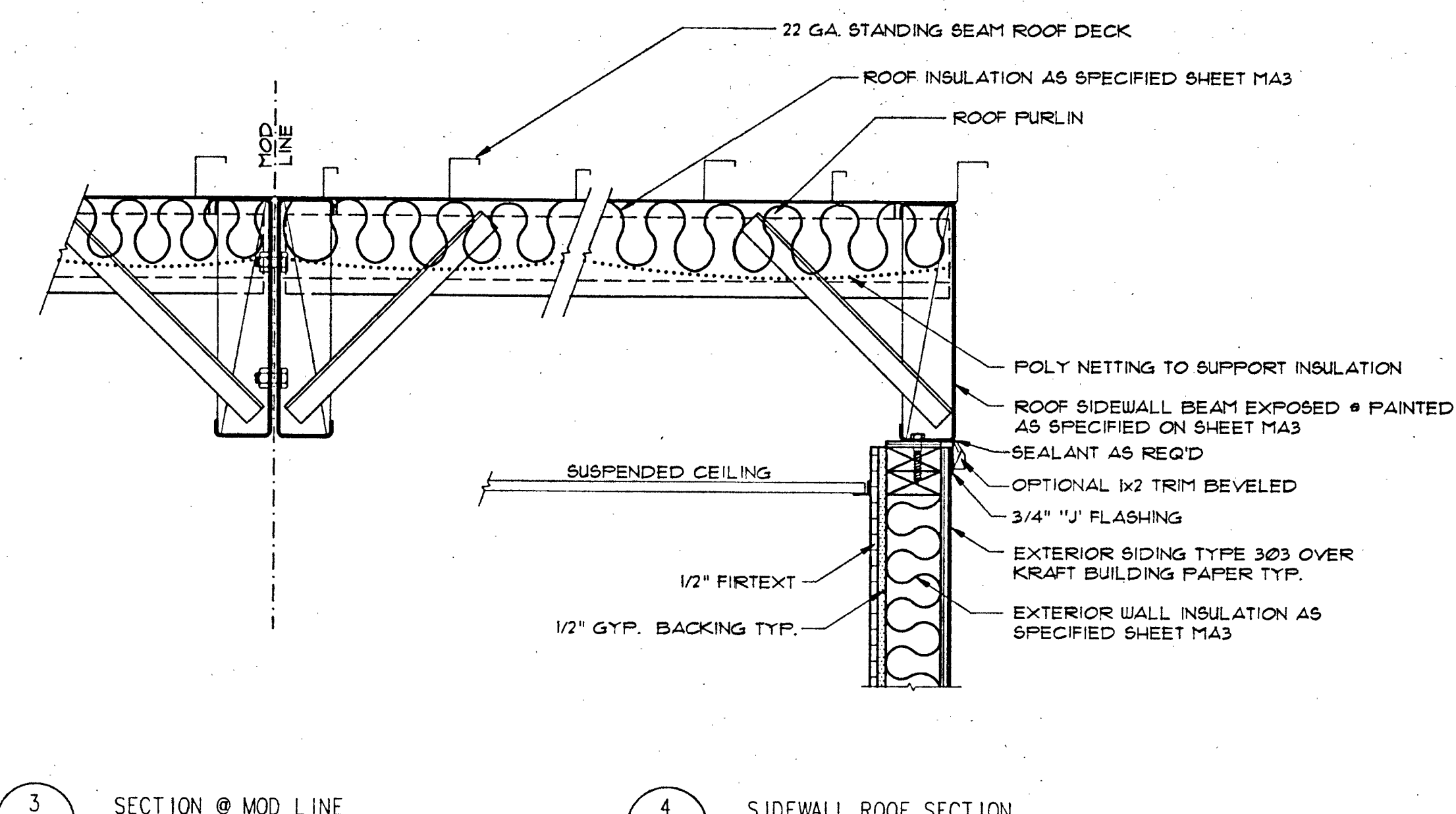
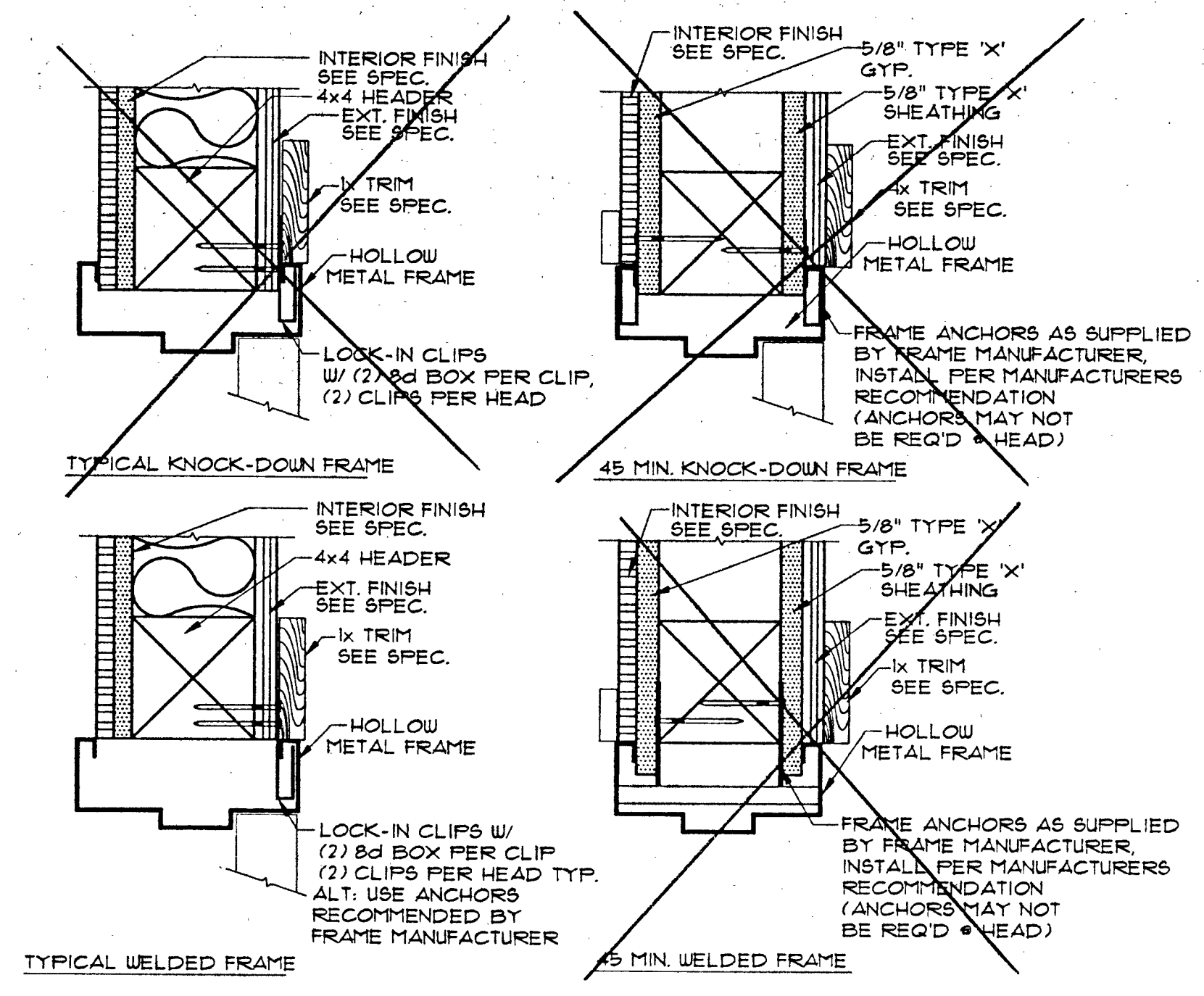
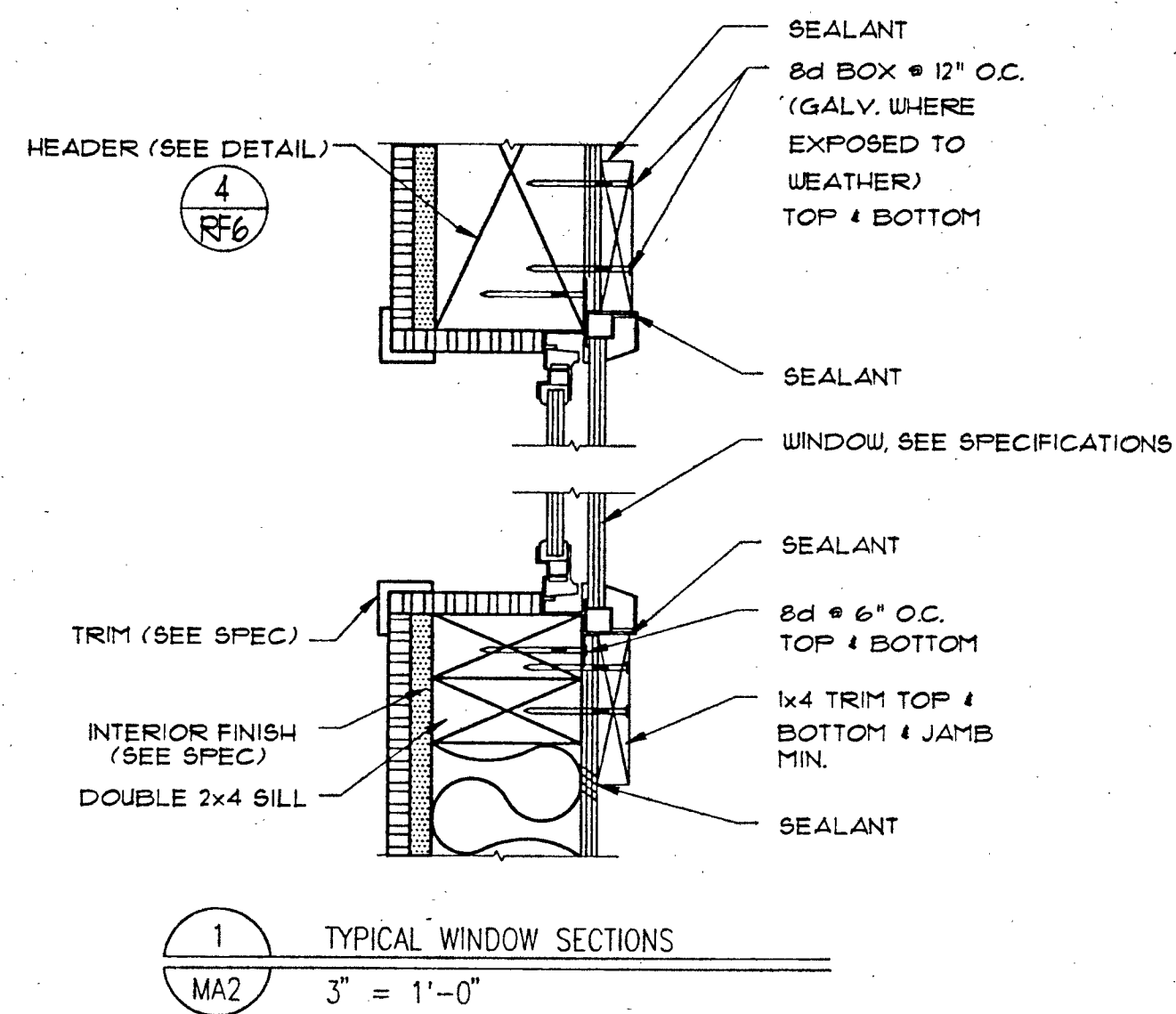


3 REAR ELEVATION
 MA1 1/4" = 1'-0"



8 TYPICAL SIGN
 MA1

IDENTIFICATION SYMBOLS: DOORWAYS LEADING TO MEN'S SANITARY FACILITIES SHALL BE IDENTIFIED BY AN EQUALIZATION TRIANGLE 1/4" HIGH WITH EXCESS 12" INCHES LONG AND A VERTEX POINTING UPWARD. WOMEN'S SANITARY FACILITIES SHALL BE IDENTIFIED BY A CROSS 1/4" HIGH WITH 12" INCHES IN DIAMETER. UNSEEN SANITARY FACILITIES SHALL BE IDENTIFIED BY A CIRCLE 1/4" HIGH WITH 12" INCHES IN DIAMETER. THESE GEOMETRIC SYMBOLS SHALL BE CENTERED ON THE DOOR AT A HEIGHT OF 60" INCHES AND THEIR COLOR AND CONTRAST SHALL BE DISTINCTLY DIFFERENT FROM THE COLOR AND CONTRAST OF THE DOOR.



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-117736 INC.
REVIEWED FOR
SS FLS ACS
DATE: 02/13/2020

designed by
P.O. BOX 367
Patterson, California 95363
(209) 892-6298

Approval: Engineering Consultant

Approval: Architect

Approval: Structural Safety

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
No. C 10148
ARCHITECTURE - PLANNING - INTERIOR
810 W. ACEQUIA ST. • VISALIA, CA •
(209) 827-0630 FAX 1027-1027

Approval: Fire Marshal

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
P0246
AC FLS 16/05/06
DATE 10-19-93 (SP)

Approval: Fire Marshal

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL 6 21 59
AC FLS 16/05/06
DATE 8/24/06

Approval: Fire Marshal

Approval: Fire Marshal

80 MPH EXP. 'C' / 20 PSF UNREDUCED
DMS-1-1993
36x40 RELOCATABLE BUILDING
PORTERVILLE, PUBLIC SCHOOL DISTRICT
PORTERVILLE, CA
DATE: 7/26/94 JOB: 3323
Sheet Title: DETAILS

Drawn: JF/AUS
Date: 9/20/93
Scale: NOTED
Job:
Sheet
MA2
Of Sheet

STATE OF CALIFORNIA
Department of General Services
AUG 25 1994
Division of the State Architect
Regulation Services-Sacto.

GENERAL REQUIREMENTS:

The relocatable building specified herein shall be a structure with a minimum of 1440 Sq. feet, nominal, transportable to the site with a maximum of two (2) modules. The modules shall require the use of special trailers. The modules shall not exceed the maximum dimensions for shipment on public roads as prescribed by California State Law.

Table with 2 columns: LOADS and values. Includes Floor load (50 + 20 lbs per square foot / 1000 # concentrated), Roof load (20 lbs. per square foot unreduced), Wind load (80 Mph. Exp. 'C'), and Seismic (Zone 4).

INSPECTIONS AND CODES:

This building shall be designed to meet the applicable requirements of the following codes:

- CALIFORNIA CODE OF REGULATION TITLE 19
CALIFORNIA CODE OF REGULATION PART 1 OF TITLE 24
CALIFORNIA CODE OF REGULATION TITLE 24
California Building Code (CBC)
California Mechanical Code (CMC)
California Plumbing Code (CPC)
California Electrical Code (CEC)

The building shall be constructed and installed in strict accordance with the plans and specification as approved by a California Licensed Structural Engineer and/or Architect and Office of State Architect.

In accordance W/ TITLE 24, Third party inspection shall be made on all work performed in the manufacturing plant. The inspection entity shall be approved by the Office of State Architect and employed by the District.

Provisions will be made for entry to classroom for the handicapped in accordance with Title 24, California code Of Regulations and Office of State Architect.

MATERIAL SPECIFICATIONS:

The following material specifications are to insure a minimum acceptable quality level of materials used in the construction of the classroom. The term "Or Equal" shall apply to all material specified.

FOUNDATIONS:

Foundations shall be as shown on drawings and/or as required by site conditions.

WOOD FOUNDATION:

NOTE: ONLY THOSE WOOD FOUNDATION MEMBERS IN CONTACT WITH GRADE SHALL BE PRESSURE TREATED, UNLESS OTHERWISE NOTED IN THE BID SPECIFICATIONS.

- .01 Foundation Sills: Foundation grade redwood or pressure treated Douglas Fir # 2 or better, as required on drawing. Each piece of pressure treated wood shall bear the A.W.P.B. stamp.
.02 Stringers or Blocking: Douglas fir, Hem fir as indicated on drawings.
.05 Welding: As per American Welding Society Requirements for shielded electric-arc process. Welding to be performed by operators qualified by tests acceptable to Office of State Architect.

.06 Shop Paint: All steel to be coated with a minimum of one shop coat of red oxide primer.

ALTERNATE CONCRETE FOUNDATION:

NOTE: For concrete foundation specifications see sheet C-F1 & C-F2.

CARPENTRY:

- .01 Lumber: Materials to be stamped by an approved grading agency in accordance with West Coast Lumber Inspection Bureau Rule # 16.
.02 Plywood: To be marked by approved inspection agency in accordance with Product Standard P.S. 1-83 for softwood plywood.
.03 Studs: Doug Fir # 2 better grade, kiln dried, or Machine Rated 1650F-1.5E
.04 Plates: Doug Fir # 2 better grade, or better, kiln dried or Machine Rated 1650F-1.5E.
.05 Headers: Doug Fir # 2 or better, or Machine Rated 1650F-1.5E
.06 NOT USED
.07 Floor Decking: 1 1/8" underlayment grade plywood, group 1 or 2 Sturdy Floor. All plies to be wood.
.08 Exterior Sheathing: 5/8" Type 303 Plywood Siding.
.09 Trim: Windows, Doors, Corners 1 x 4 roughsawn D.F., H.F. or spruce.
.10 Building Paper: Kraft, under siding.
.11 Soffit (OPTIONAL): 3/8" Min. Plywood siding, textured, no grooves.
.12 Overhangs: 3/4" T&G plywood-ARA rated sheathing w/ a span rating of 40/20. Standard 6" long @ high end, 2" long @ low end.
.13 Drip Soffit (Alternate): See Sheet B-F2.

EXTERIOR FINISH:

- .01 Primer: Wood Back primed, acrylic latex as recommended by paint manufacturer.
.02 Exterior Wood: Acrylic latex. Flat.
.03 Exterior Metal: Acrylic latex. Flat.
.04 Doors & Frame: Factory Pre-Finished.

INTERIOR FINISH:

- .01 Interior Wall Finish: Vinyl wrapped "fir-tex" tackboard panels. Class 'C', installed with glue and color head fasteners as required. Class III flame spread. Max. smoke density: 450
.02 Interior Wall Backing: 1/2" Gyp (Alternate): 3/8" CD plywood.
.03 Floor Finish: Direct glue down carpet or 3/32" to 1/8" VC tile. Note: If carpet used, then it shall be securely attached; have a firm cushion, pad, or backing, or no cushion or pad; and have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. The maximum pile thickness shall be 1/2". Exposed edges of carpet shall be fastened to floor surfaces and have trim along the entire length of the exposed edge. Carpet up to 1/4" may be vertical and without edge treatment. Carpet in level between 1/4" and 1/2" shall be beveled with a slope no greater than 1:2. Changes in level greater than 1/2" shall be accomplished by means of a ramp that complies with current regulations.

- .04 Ceiling Grid: Minimum Heavy Duty classification per ASTM C635.
.05 Ceiling Tile: 2' x 4' lay in tile, fissured pattern 5/8" thick, class A, flame spread 0-25. Max. smoke density 450.
.06 Finished Ceiling Height: 8'-6" from sub floor U.O.N.

INTERIOR RESTROOM FINISH:

- .01 Interior Wall Finish: Prefinished enamel hardboard or equal. Alternate: FRP Panels. CLASS III FLAME SPREAD. MAX SMOKE DENSITY: 450
.02 Not used.
.03 Floor Finish: Sheet Vinyl Armstrong "Rhino" (90402 or equal) with 6" base cove, Burke 502p.
.04 Ceiling Grid: Minimum Heavy Duty classification per ASTM C635.
.05 Ceiling Tile: 2' x 4' lay in tile, fissured pattern 5/8" thick, class A, flame spread 0-25, max. smoke density 450.
.06 Finish Ceiling Height: 8'-0" nom. from sub floor U.O.N.

INSULATION:

NOTE: All insulation shall conform to section 1714(c), California building code.

- .01 Wall: R-11 3 1/2" Fiberglass, Kraft faced vapor barrier.
.02 Roof: R-11 Fiberglass, unfaced. ALT: RIGID FOAM, "THERMAX" OR EQUAL
.03 Floors: R-11 3 1/2" unfaced fiberglass.

ROOFING:

- .01 Roofing: 22 gauge min. galvanized standing seam. Minimum class B fire rating.

SHEET METAL:

- .01 Sheet Metal: 26 gauge galvanized, unless otherwise noted on drawings.

HOLLOW METAL DOORS AND FRAMES:

- .01 Doors: 3'-0" x 6'-8" type L full Flush, 18 gauge, 1 3/4" thick. INTERIOR: 3/8" 1/4" BC PREFINISHED
.02 Frames: 16 gauge, cold rolled, 2" faces knock down type.

FINISH HARDWARE AS PER BID. EXTERIOR:

- .01 Butts: 1 1/2 pair-Hagor 4 1/2 x 4 1/2 NRP.
.02 Lockset: 4-Point, 1-1/2" Dia. 1-1/2" x 1-1/2" x 1-1/2" Keyway.
.03 Closer: Norton 8501BF (8.5lbs max @ exterior) (5lbs max @ interior)
.04 Threshold: Pemko 272A. (1/2" MAX)
.05 Door Bottom: 1 Pemko 216AV

WINDOWS & GLAZING:

- .01 Window: Aluminum slider 8'-0" x 4'-0" xo anodized finish. See floor plan for other sizes.
.02 Glazing: Tinted glass.
CEILING NOTES- The following notes will be acceptable in plans and specifications for ceiling systems whose total weight including air conditioning grilles and light fixtures does not exceed four (4) psf. Heavier systems and those supporting lateral loads from partitions will require special design details:

- .01 12 ga. (min.) hanger wires may be used for up to and including 4'-0" X 4'-0" grid spacing along main runners.
.02 Provide 12 ga. hanger wires at the end of all main and cross runners within 8" from the support or within 1/4 of length of the end tee, whichever is least, for the perimeter of the ceiling area. End connections for runners which are designed and detailed to resist the applied horizontal forces may be used in lieu of the 12 ga. hanger wires subject to OSA/SSS review and approval.
.03 Provide trapeze or other supplementary support members at obstructions to main hanger spacing. Provide additional hangers, struts or braces as required at all ceiling breaks, soffits or discontinuous areas. Hanger wires that are more than 1 in 6 out of plumb are to have counter-sloping wires.
.04 Ceiling grid members may be attached to not more than 2 adjacent walls. Ceiling grid members should be at least 1/2 inch free of other walls. If walls run diagonally to ceiling grid systems runners, one end of main and cross runners should be free and a minimum of 1/2 inch clear of wall.

- .05 At the perimeter of the ceiling area where main or cross runners are not connected to the adjacent wall, provide interconnection between the runners at the free end to prevent lateral spreading. A metal strut or a 16 ga. wire with a positive mechanical connection to the runner may be used. Where the perpendicular distance from the wall to the first parallel runner is 12" or less, this interlock is not required.
.06 Provide sets of four 12 ga. splayed bracing wires oriented 90 degrees from each other at the following spacing:
A-For school buildings, place sets of bracing wires at a spacing not more than 12 feet on center.
B-Provide bracing wires at locations not more than 1/2 the spacings given in (A) above from each perimeter wall and at edge of vertical ceiling offsets for both school and hospital buildings.
The slope of these wires should not exceed 45 degrees from the plane of the ceiling and should be taut without causing the ceiling to lift. Splices in bracing wires are not to be permitted without special OSA/SSS approval.

- .07 Fasten hanger wires with not less than 3 tight turns. Fasten bracing wires with 4 tight turns. Hanger or bracing wire anchors to the structure should be installed in such a manner that the direction of the wire aligns as close as possible with the direction of the forces acting on the wire.
NOTE: Wire turns made by machine where both strands have been deformed or bent in wrapping can waive the 1 1/2" requirement, but the number of turns should be maintained, and be as tight as possible.
.08 Separate all ceiling hanging and bracing wires at least 6 inches from all unbraced ducts, pipes, conduit, etc. It is acceptable to attach lightweight items, such as single electrical conduit not exceeding 3/4" nominal diameter, to hanger wires using connectors acceptable to OSA/SSS

- .09 Not applicable
.10 Attach all light fixtures to the ceiling grid runners to resist a horizontal force equal to the weight of the fixtures.
.11 Flush or recessed light fixtures and air terminals or services weighing less than 56 pounds may be supported directly on the runners of a heavy duty grid systems but, in addition, they must have a minimum of two 12 ga. slack safety wires each attached to the fixture at diagonal corners and anchored to the structure above. All 4 ft. x 4 ft. light fixtures must have slack safety wires at each corner.
All flush or recessed light fixtures and air terminals or services weighing 56 pounds or more must be independently supported by not less than 4 taut 12 ga. wires each attached to the fixture and to the structure above regardless of the type of ceiling grid system used.
The 4 taut 12 ga. wires including their attachment to the structure above must be capable of supporting 4 times the weight of the unit.

- .12 All fixtures and air terminals or services supported on intermediate duty grid systems must be independently supported by not less than 4 taut 12 ga. wires each attached to the fixture or terminal and to the structure above.
.13 Support surface mounted light fixture by at least two positive devices which surrounded the ceiling runner and which are each supported from the structure above by a 12ga. wire. Spring clips or clamps that connected only to the runner are not acceptable.
Provide additional supports when light fixtures are 8 feet or longer.
.14 Support pendant mounted light fixtures directly from the structure above with hanger wires or cables passing through each pendant hanger and capable of supporting 4 times the weight of the fixture. (See also note 10, paragraph (b)). Special details are necessary for this condition at the ceiling grid.

MECHANICAL:

- .01 H.V.A.C. Unit: (1) 3 ton wall mounted unit w/ heat strip standard.
ACCEPTABLE MANUFACTURERS:
1. Bard
2. Intertherm
.04 Alternate H.V.A.C. Unit: (2) 3 ton roof mounted unit w/ heat strip standard.
(Alternate) 2 to 5 ton roof mounted units as req'd for site conditions w/ heat strip as req'd.
ACCEPTABLE MANUFACTURERS:
1. Day & Night
2. Bard
.03 Distribution System: Flexible Ducting, Shall be class O / class I per section 4-1004 T-24 CCR.

Factory-made Air ducts, Factory-made air ducts shall be approved for the use intended or shall conform to the requirements of C.M.C. Standard No. 10-1. Each portion of a factory-made air duct system shall be identified by the manufacturer with a label or other standard identification indicating compliance with C.M.C. Standard No. 10-1 and its class designation. These ducts shall be listed and shall be installed in accordance with the terms of their listing.

Material exposed within ducts or plenums shall have a flame-spread rating of not more than 25 and a smoke-developed rating of not more than 50.

Insulation applied to the exterior surface of the ducts located in buildings shall have a flame spread of not more than 25 and a smoke density of not more than 50 when tested as a composite installation including insulation, facing materials, tapes and adhesives as normally applied.

Supply Air Registers: Shoemaker 104 T-bar w/ parallel blade damper or equal.

- .04 Return Air Registers: Per Manufacturers Recommendations
.05 Thermostat: White Rodgers 1F92 Electronic Programmable thermostat.

ELECTRICAL:

- .01 Code: Work to comply with California Electrical Code.
.02 Conduit: All work to be done in conduit (set screw connectors allowed).
.03 Conductors: Copper for sizes #12 to #6. Type THHN
.04 Receptacles: Bryant specification grade or equal.
.05 Clock Receptacles: Leviton 688-1 15 amp specification grade.
.06 Switches: Bryant specification grade or equal.
.07 Lighting Fixtures: Shall comply w/ section 2-5209 T-24 CCR.
A Interior: Keystone recessed light with 4 cool white bulbs, energy savings ballast or equal
B Exterior: Failsafe IBO-IBP Or Equal.
.08 Distribution Panel: Ext. wall mounted with hinged lockable doors and index card.
.09 Lighting and Switching: Will comply with Energy Commission requirements for new non-residential buildings.

SPECIALTIES:

- .01 Fire Alarm Systems: Shall meet the requirements and approval of the State Fire Marshal (Deferred Approval)
.02 Pull Station: J-Box and Conduit ONLY provided (DEVICES BY OTHERS).
.03 Alarm Horn: J-Box and Conduit ONLY provided (DEVICES BY OTHERS).
.04 Fire Extinguisher: 2A10BC U.L. Rated.

- .05 MAKEUP BOARD: 4' x 16' (2 - 4' x 8' Joined) with chalk tray & map rail.
Acceptable Manufacturers:
1. Tri Beat (as submitted)
2. Chatfield-Clarke Co.
3. Nelson Adams Co.
.06 Toilet Accessories: Manufacturer's Standard

- 1. Mirrors: Bobrick B-165, 18x36 or ASI 640 series
2. TP Holder Bobrick B-685 or ASI 7305
3. Soap Dispenser Bobrick B-111 or ASI 6343
4. PT Dispenser Bobrick B-263 ASI 0245-SS
4. Grab Bars Bobrick B-5806, 42" & 36" or TSM Grab Bar Series

.07 Toilet Partitions: Manufactures Standard. Handles, pulls, latches, locks, and other operating devices on accessible doors shall have a shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist to operate. Lever-operated mechanisms, push-type mechanisms, and U-shaped handles are acceptable designs. Hardware for accessible door passage shall be mounted no higher than 48" above finished floor. If coat peg is installed, it shall meet the requirements of Title 24.

PLUMBING: Manufacturer's standard or equal.

- .01 Water Closet: UNLESS BUNDLE NOTS or Manufacturer determined equal. (17" - 19" TO TOP OF SEAT)
.02 Lavs: American Standard "Lucern" #0355.012 w/ Tip Top centerset Chicago # 355E12
.03 Stops: Loose key w/ flexible supplies.
.04 DW: ABS. Alternate: No-Hub cast iron.
.05 Water: Type "L" copper.
.06 CHILD'S WATER CLOSET: UR 4010 (15 3/4" TO TOP OF SEAT)

LYWOOD SHEAR WALL & DIAPHRAGM MACHINE NAILING NOTES

- 1) Nails shall be full headed, uncoated type, common wire or box nails as specified with spacing as shown on the structural drawings.
2) Minimum edge distance of nail from edge of plywood and framing shall be 3/8" for 2x framing. For 3x and thicker framing edge distance for framing shall be a minimum of 3/4". Edge distances shall be measured at the surface between the plywood and backing. The plywood joint shall be centered over a single member.
3) Where slant nailing is used, slope of nails shall be no greater than 1 in 6 with respect to a line at right angles to the plywood.
4) Overdriving of nails so that the heads cut the outer veneer is not allowed.
5) Underdriving of nails shall be corrected by hand nailing.
6) Nails driven so as to miss the bearing ('shiners') shall be removed and correctly driven substitute nails provided.
7) If any framing members, blocking or joists, receiving the points of the nails are damaged (split, nail holes too close, etc.) they shall be removed and replaced. Only 3/8", or greater, thickness of plywood may be machine nailed.
8) Machine nailing may only be used where the back side can be inspected for 'shiners'.
9) All corrective nailing shall be done by hand nailing.
10) (c) Plywood Diaphragms, Table No. 25-J-1, 25-K-1 used for the design of horizontal and vertical plywood diaphragms except that unblocked plywood diaphragms shall not be used for vertical diaphragms. Plywood shall be applied directly to wood members. Use of machine nailing is subject to a satisfactory jobsite demonstration for each project and the approval by the project Architect or Structural Engineer and the Office of the State Architect. The approval is subject to continued satisfactory performance. Machine nailing will not be accepted in 5/16" plywood. If nailheads penetrate the outer ply more than would be normal for a hand hammer or if minimum allowable edge distances are not maintained the performance will be deemed unsatisfactory.
(From Title 24, sect. 2513 (c))

NOTE:

The fire alarm system shall conform to California Electrical Code Article 760, California Building code, section 809.

Installation of the fire alarm system shall not be started until detailed plans and specifications, including State Fire Marshal listing numbers for each component of the system have been approved by The State Fire Marshal, OSA.

Upon completion of the installation of the fire alarm system a satisfactory test of the entire system shall be made in the presence of the enforcing agency. Fire stops shall be provided in accordance with California Building, Code, 2516(f).

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP. 02-117736 INC. REVIEWED FOR SS FLS ACS DATE: 02/13/2020

P.O. BOX 3670 Porterville, California 93263 (209) 892-6298

Approval: Engineering Consultant

Professional Engineer Seal for James B. [Signature]

Approval: Architect

Professional Architect Seal for [Signature]

Approval: Structural Safety

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES P-246 AC FLS DATE: 10-19-93

Approval: Marshal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL 6 21 5 9 AC FLS DATE: 8/24/94

Approval: Access Compliance

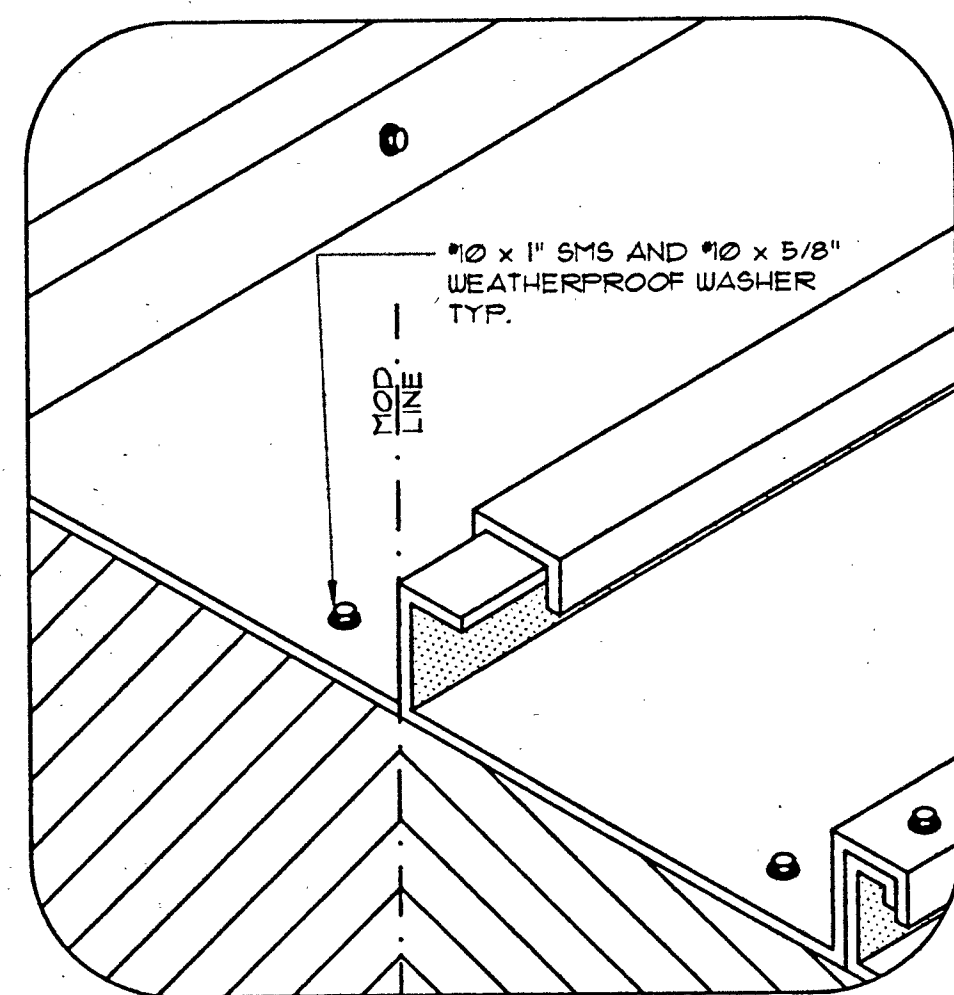
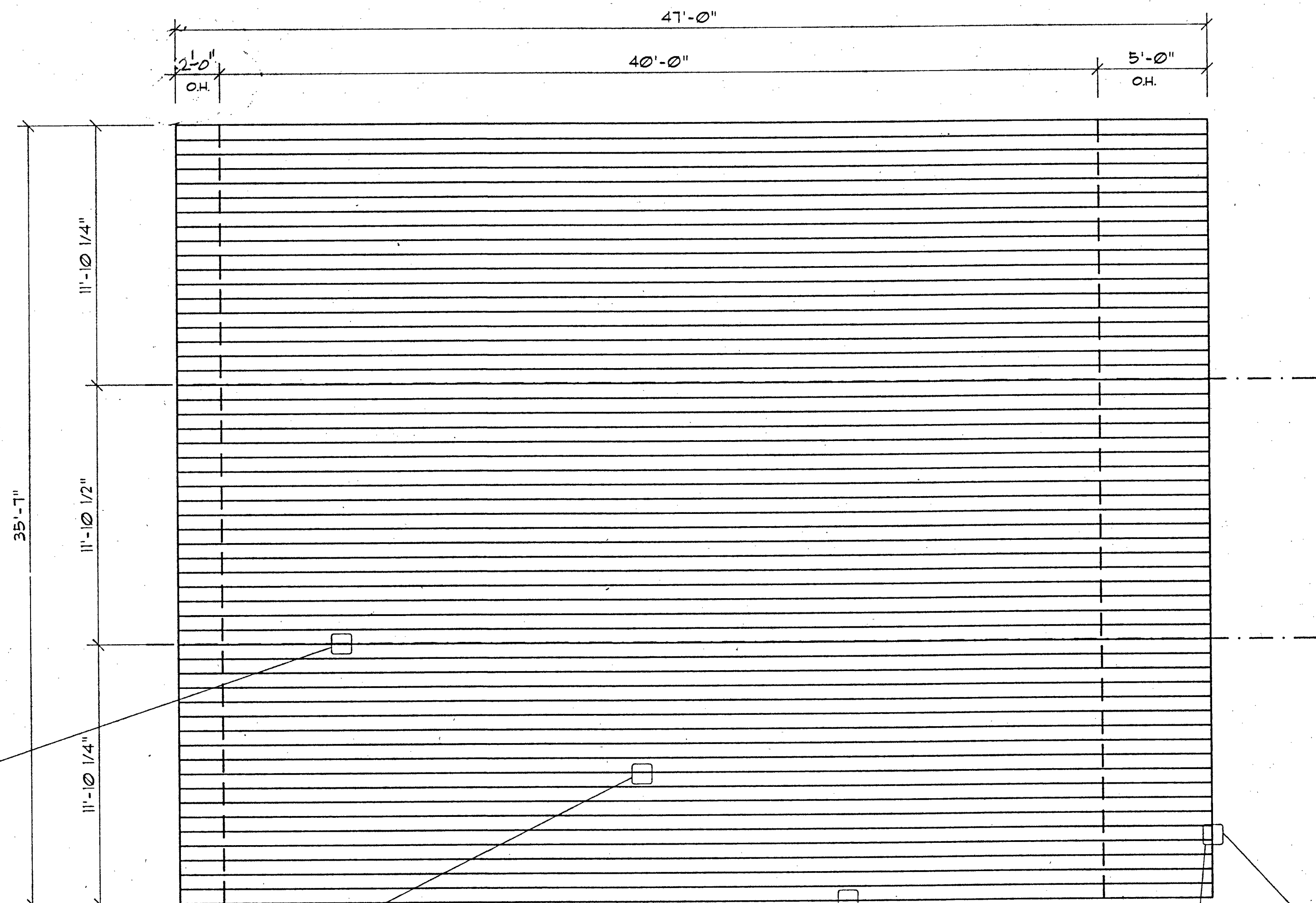
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES

36x40 RELOCATABLE BUILDING PORTERVILLE PUBLIC SCHOOL DISTRICT DMSI-1993 DATE: 7/28/94 3323 Sheet Title: SPECIFICATIONS

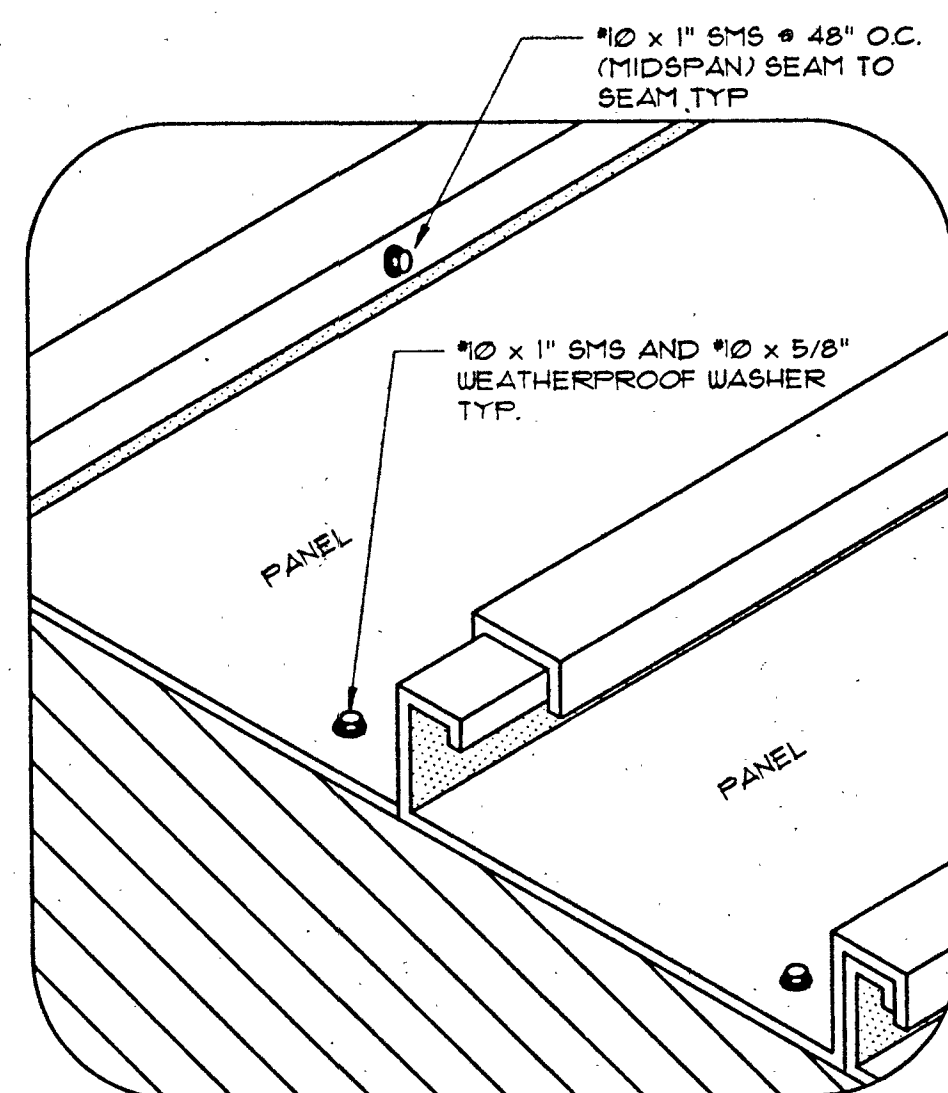
Drawn: J.F./WS Date: 9/20/93 Scale: NOTED Job: Sheet MA3 Of Sheet

STATE OF CALIFORNIA Department of General Services AUG 25 1994 Division of the State Architect Regulation Services Section

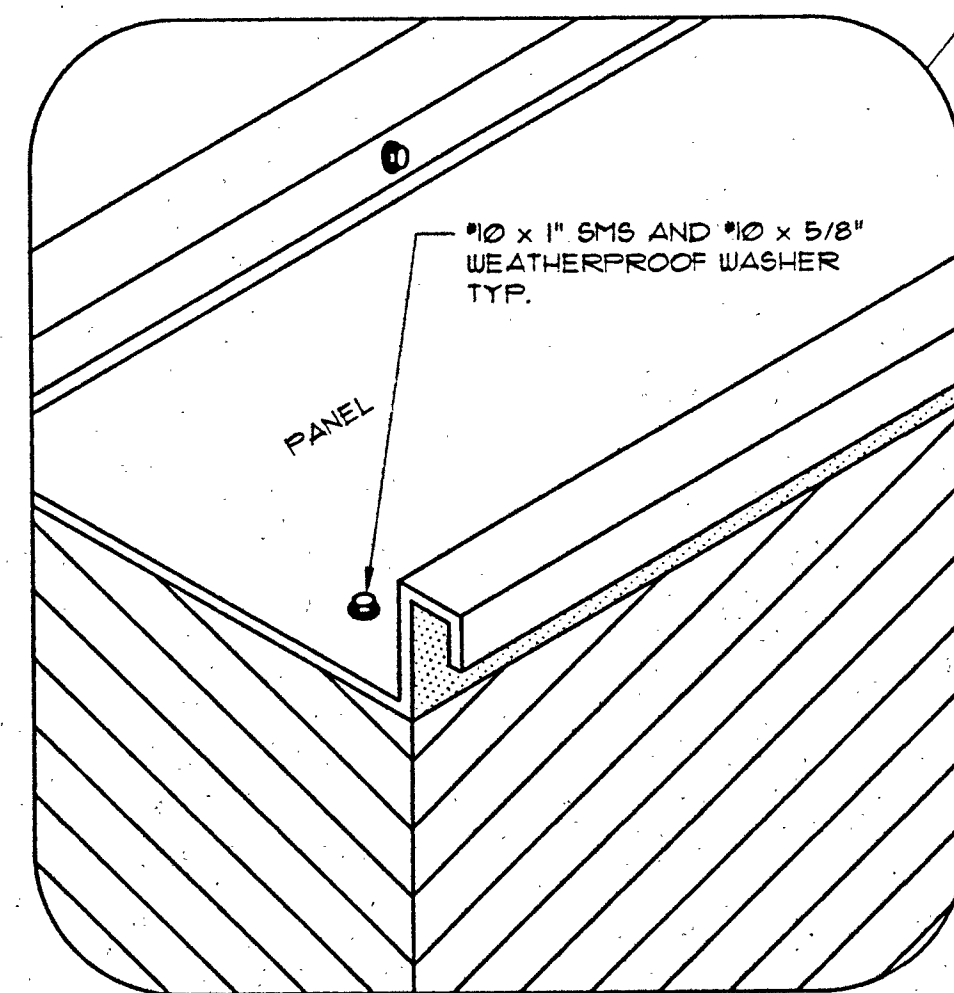
FILE NAME: C36WA3 PLOT SF: 1=1



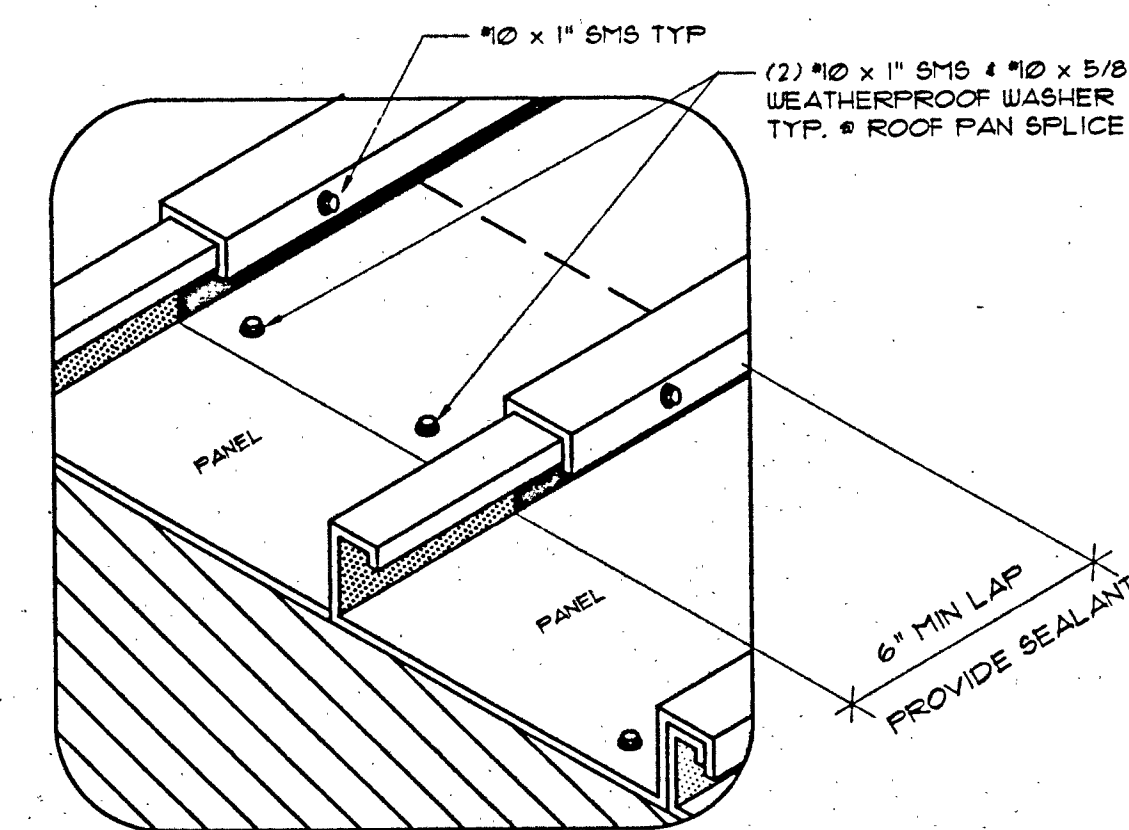
MOD LINE



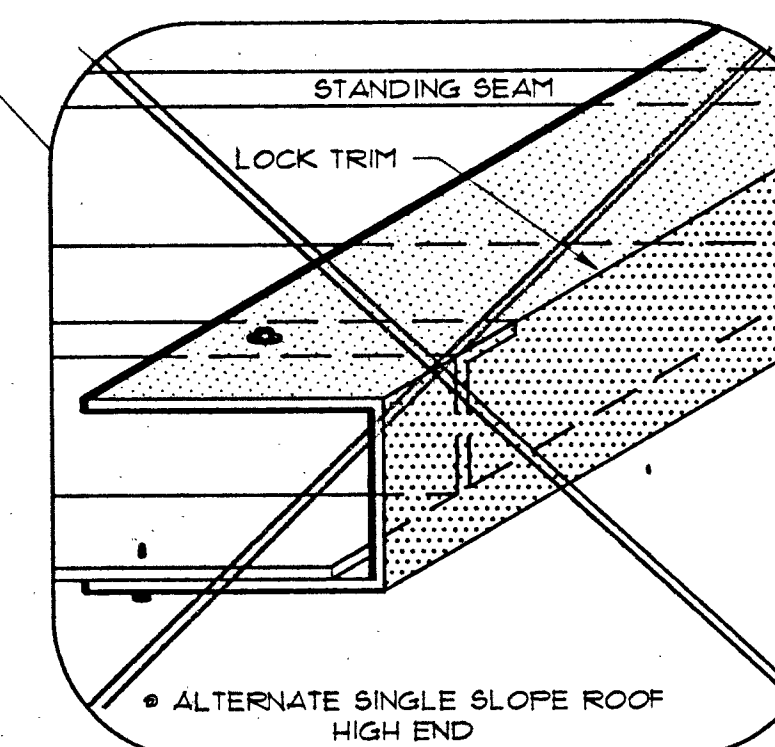
STANDING SEAM



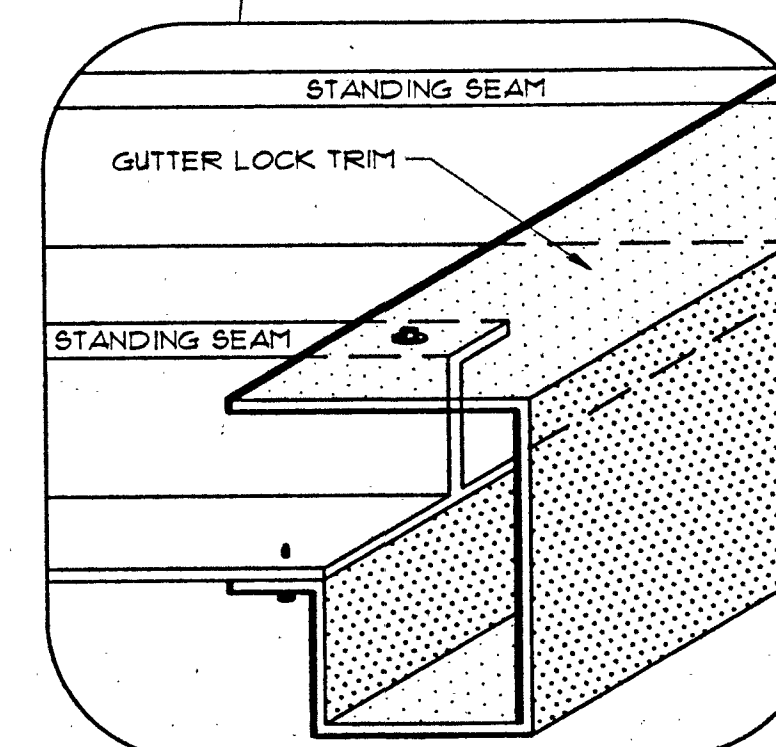
SIDES



TYP. ROOF PAN SPLICE



FRONT



FRONT & REAR

MATERIAL SPECIFICATIONS

METAL

22 GA. GALV. STEEL A575 E571-G-90 MFG BY U.S. STEEL OR EQUIV. PANEL IS 22 GA. GALV. STEEL PER ABOVE SPEC. 8" WIDE WITH 2 1/2" STANDING SEAM LENGTHS UP TO 60' LONG MAX.

FASTENERS

*10 x 1" SELF TAPPING SMS, *10 x 5/8" WEATHERPROOF WASHER USAGE AS FOLLOWS:

- (1) PER FURLIN, PER PANEL. (1) PER 16" O.C. ALONG TOP AND BOTTOM OF GUTTER. USE A SCREW AND WASHER ALONG EACH STANDING SEAM @ 48" O.C. (2) PER END WALL HEADER, PROVIDE SCREW & WASHER @ 48" O.C. @ SIDEWALL & MOD LINE BEAMS

WEATHER PROOFING

ALL ROOF DECK PENETRATIONS SHALL BE SEALED WITH VULKEM POLYURETHANE SEALANT MEETING FEDERAL SPECIFICATIONS T1-8-0223C, TYPE II, CLASS A, NO SUBSTITUTIONS. THIS INCLUDES FASTENERS THRU THE STANDING SEAMS, BATTEN CLOSURES AND BETWEEN THE ANGLE FLASHING AND ROOF PANELS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-117736 INC.
REVIEWED FOR
SS FLS ACS
DATE: 02/13/2020

designed r
P.O. BOX 367
Patterson, California
95363
(209) 892-6298

Approval: Engineering Consultant

Approval: Architect

Tommasini Associates
ARCHITECTURE • PLANNING • INTERIORS
810 W. ACEQUIA ST. • VISALIA, CA • 93281
(209) 627-0530 FAX 627-1816

Approval: Structural Safety

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
Pe246
AC: FLS SS
DATE: 10-19-93 (SP)

Approval: Fire Marshal

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPE 62159
AC: FLS SS
DATE: 8/28/94

Approval: Access Compliance

80 MPH EXP. 'C' / 20 PSF UNREDUCED
DMS1-1993

36x40 RELOCATABLE BUILDING

PORTERVILLE PUBLIC SCHOOL DISTRICT
PORTERVILLE, CA

DATE: 7/26/94 JOB: 3323

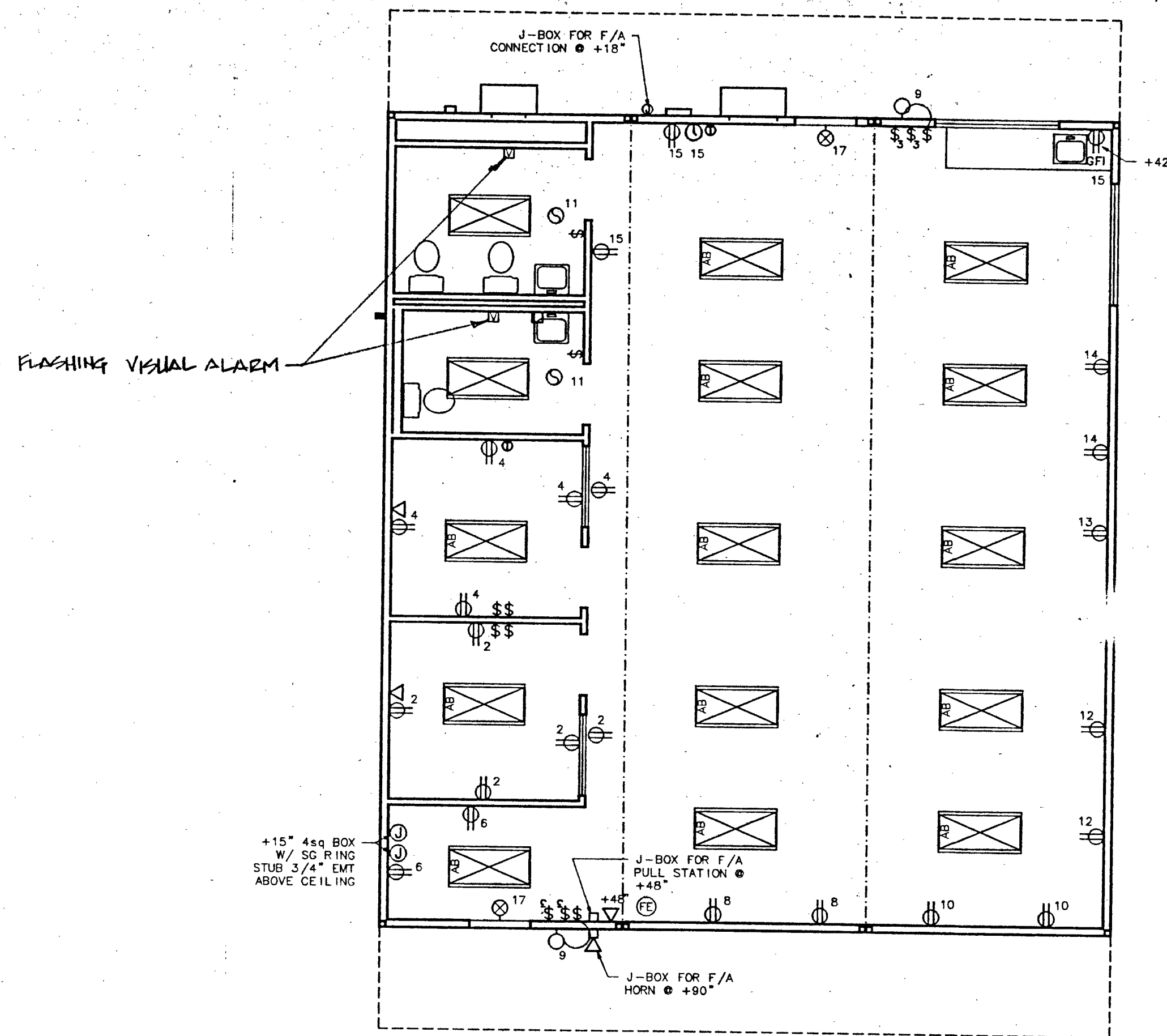
Sheet Title:
ROOFING LAYOUT

Drawn: JF/AUS
Date: 9/20/93
Scale: NOTED
Job:

STATE OF CALIFORNIA
Department of General Services
AUG 25 1994
Division of the State Architect
Regulation Services-Sacto

Sheet
MA4
Of Sheet

FILE NAME: C261A4 - FLT SF. 11-48



1 ELECTRICAL PLAN
ME1 3/16" = 1'-0"

PANEL 'A'			
PANEL TYPE: NEMA 3R SURFACE		240 VOLT	1 PHASE 3 WIRE
BUILDING TYPE: 36'x40' RIGID FRAME TYPICAL OPEN PLAN		100 AMP MAIN	125 AMP FRAME
WATT	USE	BKR NO	NO
4800	HVAC UNIT	2P60A 1	2
4800	HVAC UNIT	2P60A 3	4
1260	RECEPTS	1P20A 5	6
			7

* 3 1/2 TON HEAT PUMP W/
8 KW HEAT STRIP UNIT
EQUIPPED W/ 'LOW AMP'
KIT

TOTAL LOAD:
A: 6940 WATTS
B: 5780 WATTS
12720 WATTS/240V= 53 AMPS

PANEL 'B'			
PANEL TYPE: NEMA 3R SURFACE		240 VOLT	1 PHASE 3 WIRE
BUILDING TYPE: 36'x40' RIGID FRAME W/ SINGLE RESTROOM		100 AMP MAIN	125 AMP FRAME
WATT	USE	BKR NO	NO
4600	HVAC UNIT	2P60A 1	2
4600	HVAC UNIT	2P60A 3	4
1260	RECEPTS	1P20A 5	6
			7

* 3 1/2 TON HEAT PUMP W/
8 KW HEAT STRIP UNIT
EQUIPPED W/ 'LOW AMP'
KIT

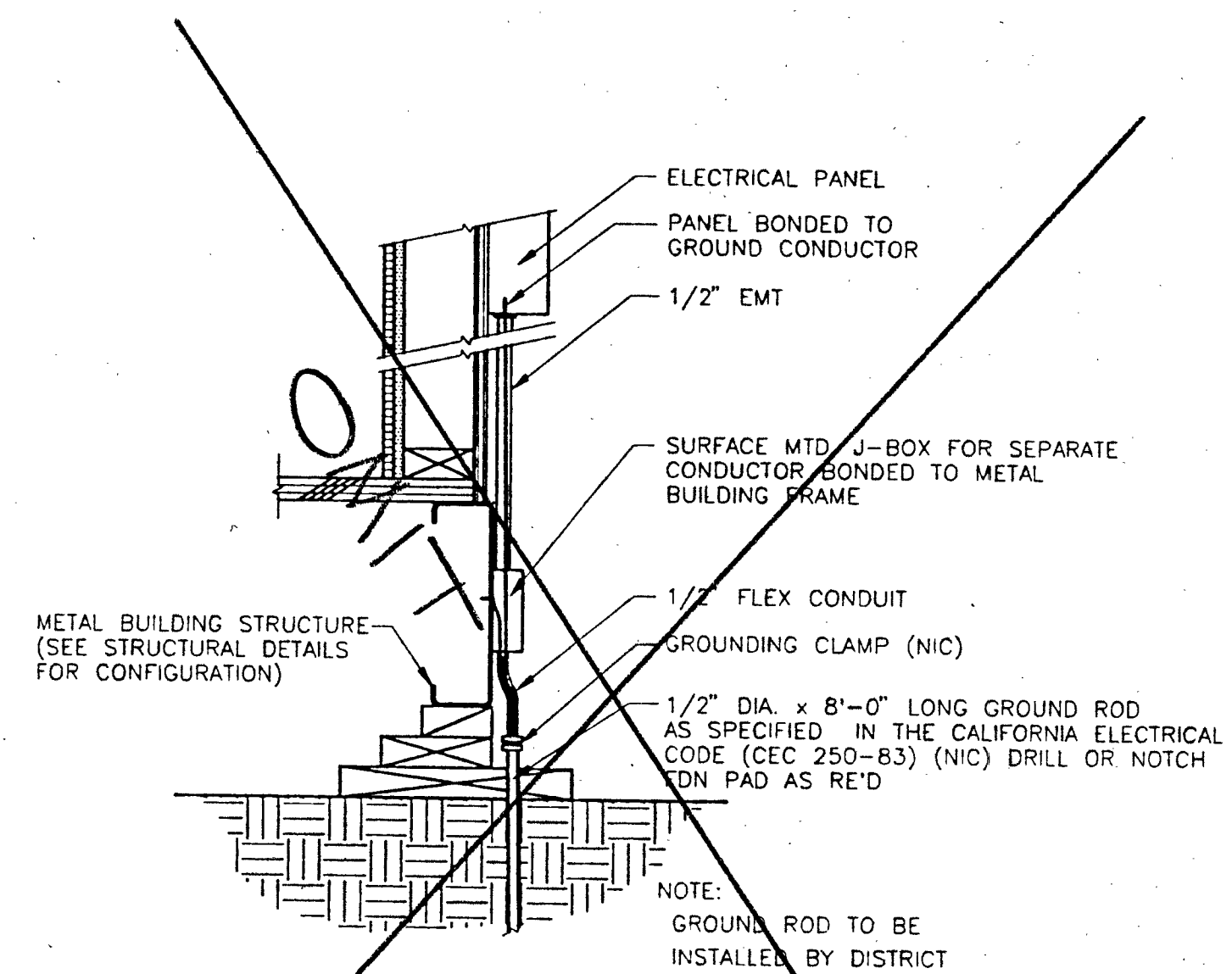
TOTAL LOAD:
A: 6968 WATTS
B: 5908 WATTS
12876 WATTS/240V= 53.6 AMPS

PANEL 'C'			
PANEL TYPE: NEMA 3R SURFACE		240 VOLT	1 PHASE 3 WIRE
BUILDING TYPE: 36'x40' RIGID FRAME W/ DOUBLE RESTROOM		100 AMP MAIN	125 AMP FRAME
WATT	USE	BKR NO	NO
4600	HVAC UNIT	2P60A 1	2
4600	HVAC UNIT	2P60A 3	4
1260	RECEPTS	1P20A 5	6
			7

* 3 1/2 TON HEAT PUMP W/
8 KW HEAT STRIP UNIT
EQUIPPED W/ 'LOW AMP'
KIT

TOTAL LOAD:
A: 3996 WATTS
B: 3836 WATTS
12834 WATTS/256V= 53.4 AMPS

SEE DRAWING SE-1



- NOTES:
- SIZE OF CONDUCTORS SHALL COMPLY WITH C.E.C. TABLE 250-95.
 - BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME (CEC 250-81) IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10 FT. INTO SOIL IF AVAILABLE (CEC 250-81 & 250-83).
 - ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING).
 - CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN, SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS. (CEC 250-84)
 - THE PROJECT INSPECTOR TO WITNESS AND VERIFY THE GROUNDING TEST IN WRITING.

5 GROUNDING DETAIL
ME1 1 1/2" = 1'-0"

PANEL SCHEDULE				120/240V 14 EXTERIOR	200A FRAME 125 A MAIN
VA	USE	BKR NO	NO	BKR USE	VA
4800	HVAC UNIT	2P	1	2	900
4800	↓	3		4	900
4800	HVAC UNIT	2P60A	5	6	700
8/12	4800 ↓	7		8	200
12/12	1280 LIGHTS, EXH.	1P20A	9	10	2400
	360 RECEPTS	1P20A	13	14	360
	540 RECEPTS	1P20A	15	16	360
	100 LIGHT LIGHT	1P20A	17	18	

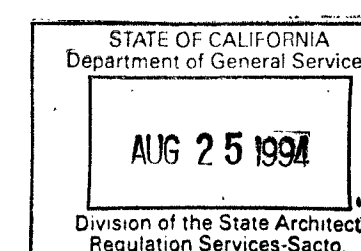
25100 W
240 V = 104.58 A

SHEET NOTES

- GROUNDING ROD, GROUNDING CLAMPS, AND GROUNDING ROD INSTALLATION ARE NOT PROVIDED BY DESIGNED MOBILE SYSTEMS, INC.
- ALL RECEPTABLES INSTALLED @ +15" A.F.F. TO CENTER OF BOX U.O.N.
- ALL WORK TO BE IN CONDUIT
- ALL POWER CIRCUITS TO BE GROUNDED PER C.E.C.
- FIRE ALARM SYSTEM IS CONDUIT ONLY
- ALL ELECTRICAL INSTALLATION FOR THE BUILDING AND THE SITE ELECTRICAL SERVICE SHALL BE IN ACCORDANCE WITH THE CEC TITLE 8, TITLE 24 AND 19, CODE OF REGULATIONS, AND LOCAL UTILITY REQUIREMENTS.
- THE COMPLETE ELECTRICAL INSTALLATION INCLUDING RACEWAYS, FIXTURES, OUTLETS MOTORS, EQUIPMENT ENCLOSURES, AND METAL BUILDINGS SHALL BE EFFECTIVELY AND PERMANENTLY GROUNDED IN ACCORDANCE WITH THE CEC AND CCR, TITLES.
- ELECTRIC PANEL SUPPLIED IS RATED AT 10,000 AIC. THE ELECTRICAL SERVICE SUPPLIED TO THIS PANEL SHALL NOT EXCEED THE PANELBOARD RATING.
- DESIGNED MOBILE SYSTEMS HAS NO CONTROL OVER SITE ELECTRICAL CONDITIONS AND IT IS THE RESPONSIBILITY OF THE SITE ELECTRICAL CONTRACTOR AND/OR SCHOOL DISTRICT TO CONFORM TO ANY REQUIREMENTS LISTED ABOVE NOT IN DESIGNED MOBILE SYSTEM'S SCOPE OF WORK.

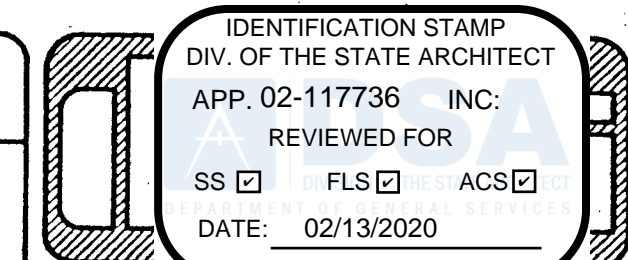
GENERAL NOTES

- HIGH & LOW LEVEL EXITS SIGN SHALL BE PROVIDED PER SEC. 2-3314 T-24 CCR. NOTE: UPPER EXIT SIGN SHALL HAVE ONE BULB EMERGENCY POWER.
- FIRE ALARM HORN SHALL BE OF THE SAME BASE TYPE AS EXISTING SCHOOL PER SECTION 2-7203 T-24 CCR.



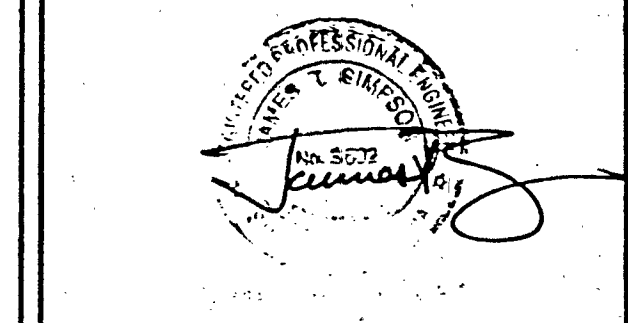
ELECTRICAL SYMBOLS SOME SYMBOLS MAY NOT BE USED

- ⊖ 120V DUPLEX RECEPTACLE +15" MIN.
- ⊖ 120V SINGLE RECEPTACLE +15" MIN.
- ⊖ 220V RECEPTACLE
- ⊖ 120V DUPLEX WEATHERPROOF RECEPTACLE +15" MIN.
- ⊖ QUAD. RECEPTACLE +15" MIN.
- ⊖ FLOOR RECEPTACLE
- ⊖ TELEPHONE JACK +15" MIN.
- ⊖ FLOOR TELEPHONE JACK
- ⊖ SINGLE POLE SWITCH +48" MIN.
- ⊖ THREE WAY SWITCH +48" MIN.
- ⊖ FOUR WAY SWITCH +48" MIN.
- ⊖ DIMMER SWITCH +48" MIN.
- ⊖ TIMER SWITCH +48" MIN.
- ⊖ WEATHER PROOF SWITCH +48" MIN.
- ⊖ JUNCTION BOX
- ⊖ THERMOSTAT +60" MIN. (SEALED)
- ⊖ EXTERIOR LIGHT FIXTURE
- ⊖ ELEC. PANEL
- ⊖ TV OUTLET LOCATION +15" MIN.
- ⊖ COMMUNICATIONS OUTLET LOCATION
- ⊖ CLOCK RECEPT @ +84" U.O.N.
- ⊖ CEILING EXHAUST FAN



designed mobile systems industries, inc.
P.O. BOX 367
Patterson, California 95363
(209) 892-6298

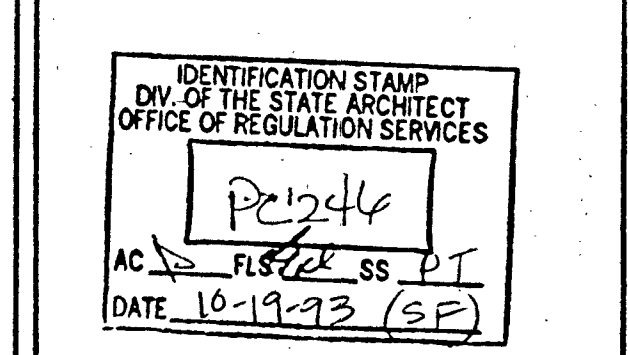
Approval: Engineering Consultant



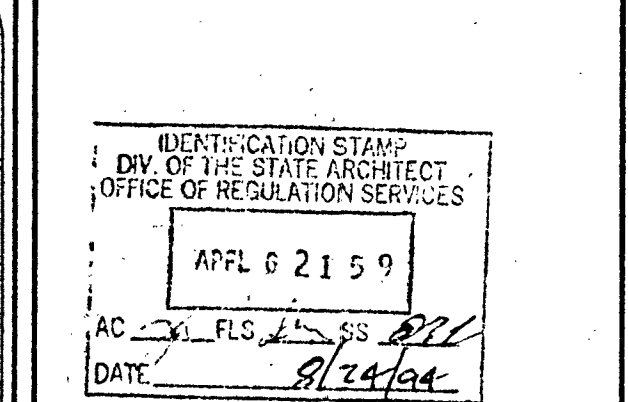
Approval: Architect

Architect: 2358
ARCHITECTURE • PLANNING • INTERIORS
810 W. ACEQUIA ST. • VISALIA, CA • 93278
(209) 627-0730 FAX 627-1029

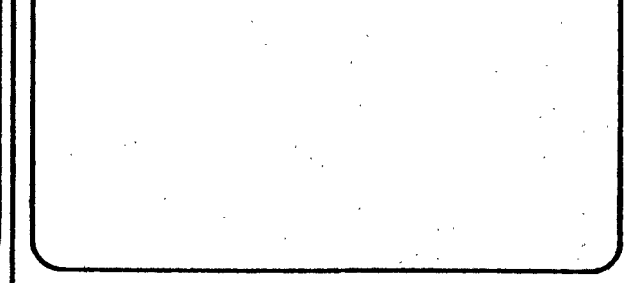
Approval: Structural Safety



Approval: Fire Marshal

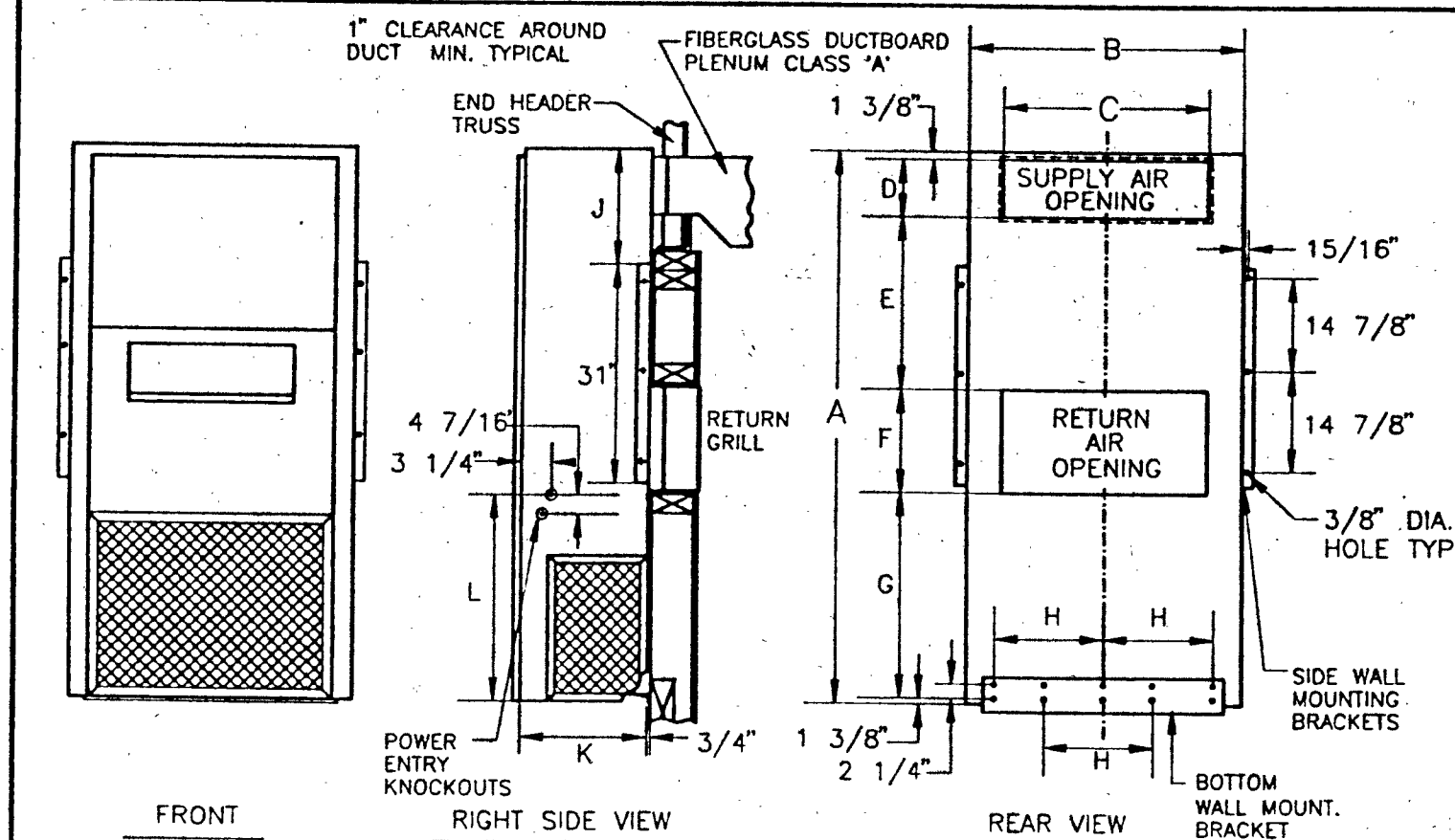
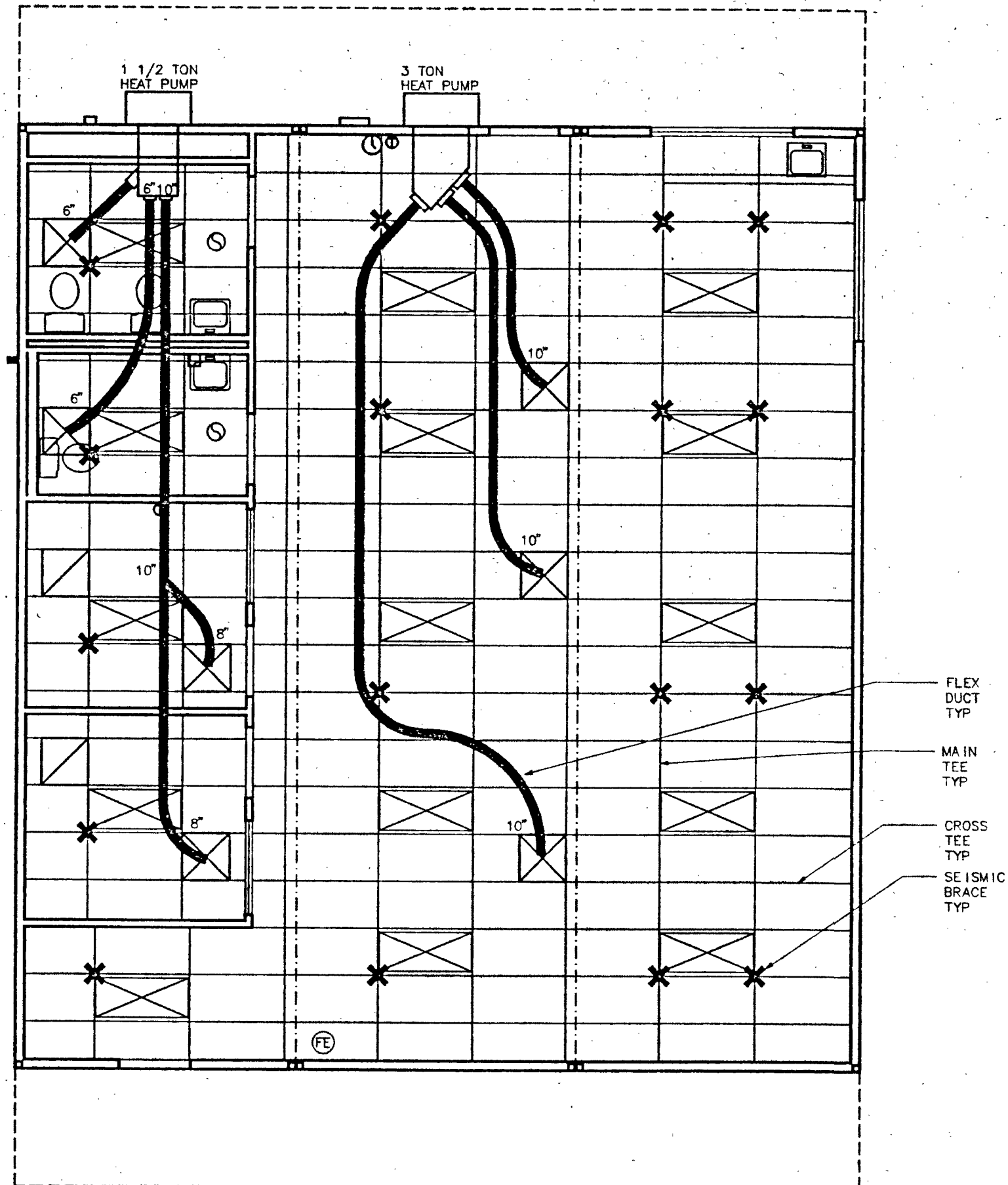


Approval: Compliance



80 MPH EXP 'C' / 20 PSF UNREDUCED
DMSI-1993
36x40 RELOCATABLE BUILDING
PORTERVILLE PUBLIC SCHOOL DISTRICT
PORTERVILLE, CA
DATE: 7/26/94 JOB: 3323
Sheet Title: ELECTRICAL PLAN

Drawn: J.F./WS
Date: 9/20/93
Scale: NOTED
Job:
Sheet
ME1
Of Sheet



TONS	A	B	C	D	E	F	G	H	J	K	L
1 1/2, 2	70	32	20	8	20 1/2	12	26 7/8	18	12 7/8	14	27 3/4
2 1/2, 3	74	38	28	8	18	14	31 1/8	18	14 7/8	15 1/2	27 7/8
3 1/2, 4, 5	84	42	30	10	30	16	28 1/2	18	19 3/8	21	35 1/4
1 1/2, 2	69 3/8	32 3/8	19 3/8	7 3/8	20 1/2	11 3/8	27 1/2	NA	NA	14 5/8	22 3/8
2 1/2, 3	74	38	27 3/8	7 3/8	18	13 3/8	30 3/8	NA	NA	16 1/8	24 3/8
3 1/2, 4, 5	84	42	29 3/8	9 3/8	30	16 3/8	28 3/8	NA	NA	23	32 3/8

5 SIDE WALL MOUNTED HVAC UNIT
M1 N.T.S.

SCHOOL EQUIPMENT ANCHORAGE

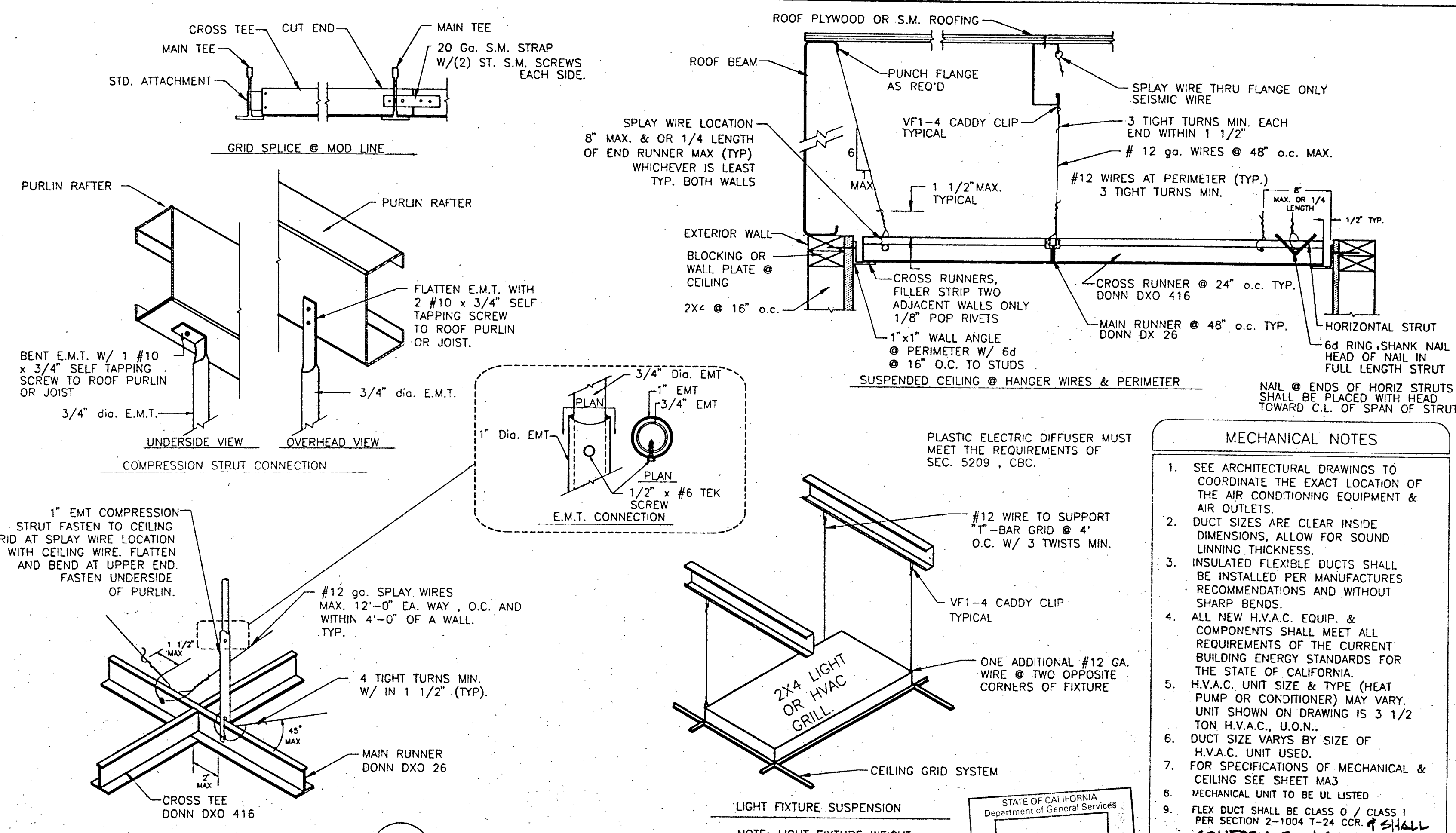
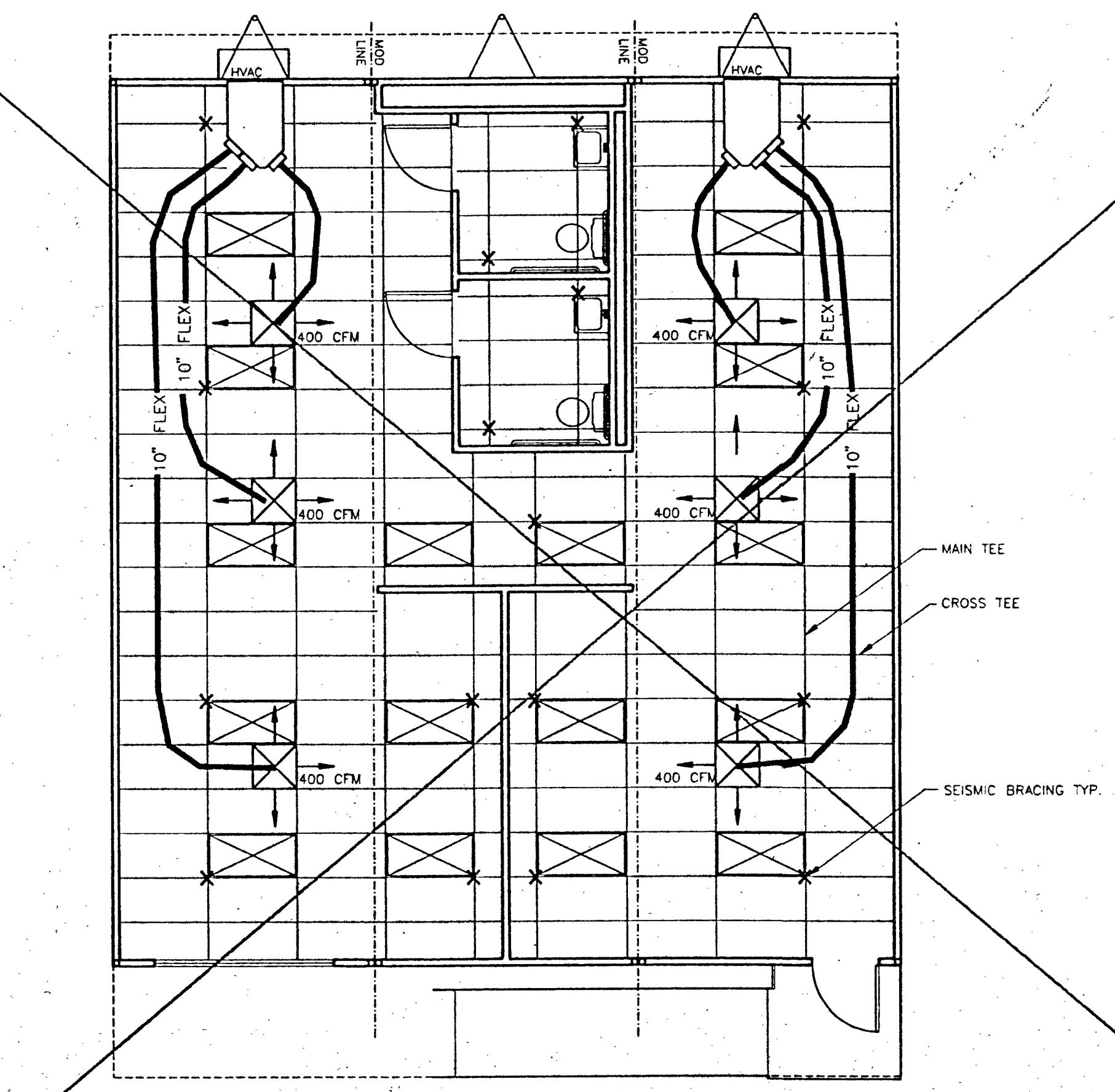
ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:

FIXED EQUIPMENT ON GRADE	20% OF OPERATING WEIGHT
FIXED EQUIPMENT ON STRUCTURE	30% OF OPERATING WEIGHT
EMERGENCY POWER EQUIPMENT ON GRADE	30% OF OPERATING WEIGHT
EMERGENCY POWER EQUIPMENT ON STRUCTURE	40% OF OPERATING WEIGHT

SIMULTANEOUS VERTICAL FORCE - USE 1/3 x HORIZONTAL FORCE.

FOR FLEXIBLY MOUNTED EQUIPMENT SEE TITLE 24, SECTION 2312(g)2.

WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER AND THE FIELD REPRESENTATIVE OF THE OFFICE OF THE STATE ARCHITECT



- MECHANICAL NOTES**
- SEE ARCHITECTURAL DRAWINGS TO COORDINATE THE EXACT LOCATION OF THE AIR CONDITIONING EQUIPMENT & AIR OUTLETS.
 - DUCT SIZES ARE CLEAR INSIDE DIMENSIONS, ALLOW FOR SOUND LINING THICKNESS.
 - INSULATED FLEXIBLE DUCTS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND WITHOUT SHARP BENDS.
 - ALL NEW H.V.A.C. EQUIP. & COMPONENTS SHALL MEET ALL REQUIREMENTS OF THE CURRENT BUILDING ENERGY STANDARDS FOR THE STATE OF CALIFORNIA.
 - H.V.A.C. UNIT SIZE & TYPE (HEAT PUMP OR CONDITIONER) MAY VARY. UNIT SHOWN ON DRAWING IS 3 1/2 TON H.V.A.C., U.O.N.
 - DUCT SIZE VARIES BY SIZE OF H.V.A.C. UNIT USED.
 - FOR SPECIFICATIONS OF MECHANICAL & CEILING SEE SHEET MA3
 - MECHANICAL UNIT TO BE UL LISTED
 - FLEX DUCT SHALL BE CLASS 0 CLASS 1 PER SECTION 2-1004.1-24 CCR. SHALL CONFORM TO U.M.C. STD. 10-1 & 10-5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-117736 INC.
REVIEWED FOR:
SS FLS ACS
DATE: 02/13/2020

designed m... systems industries, inc.
P.O. BOX 367
Patterson, California
95363
(209) 892-6298

Approval: Engineering Consultant

Approval: Architect

Approval: Structural Safety

Approval: Access Compliance

Approval: [Signature]

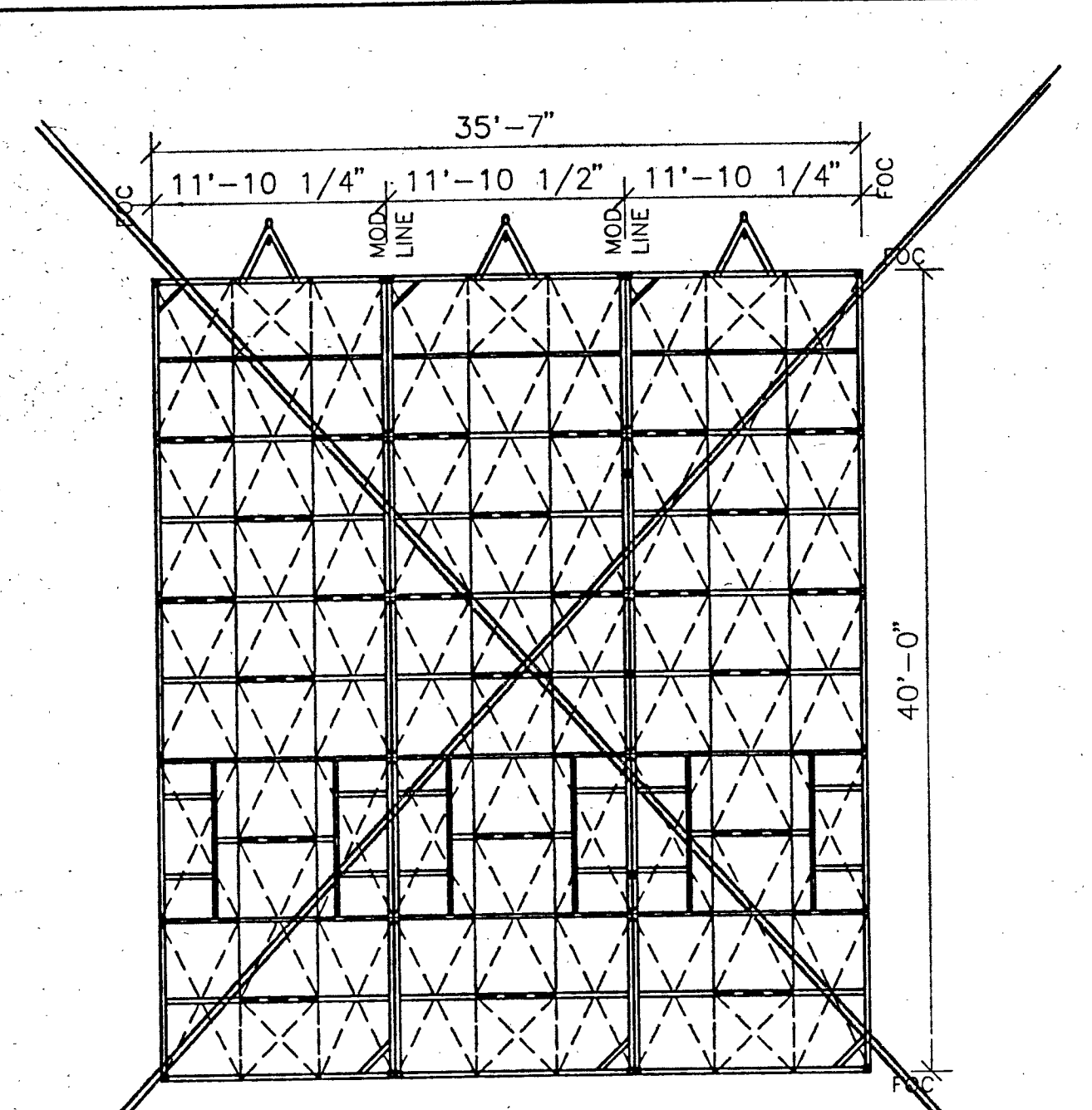
Approval: [Signature]

80 MPH EXP. 'C' / 20 PSF UNREDUCED
DWSI-1993
36x40 RELOCATABLE BUILDING
PORTERVILLE PUBLIC SCHOOL DISTRICT
PORTERVILLE, CA
DATE: 7/26/94 JOB: 3323
Sheet Title: MECHANICAL PLAN & CEILING DETAILS

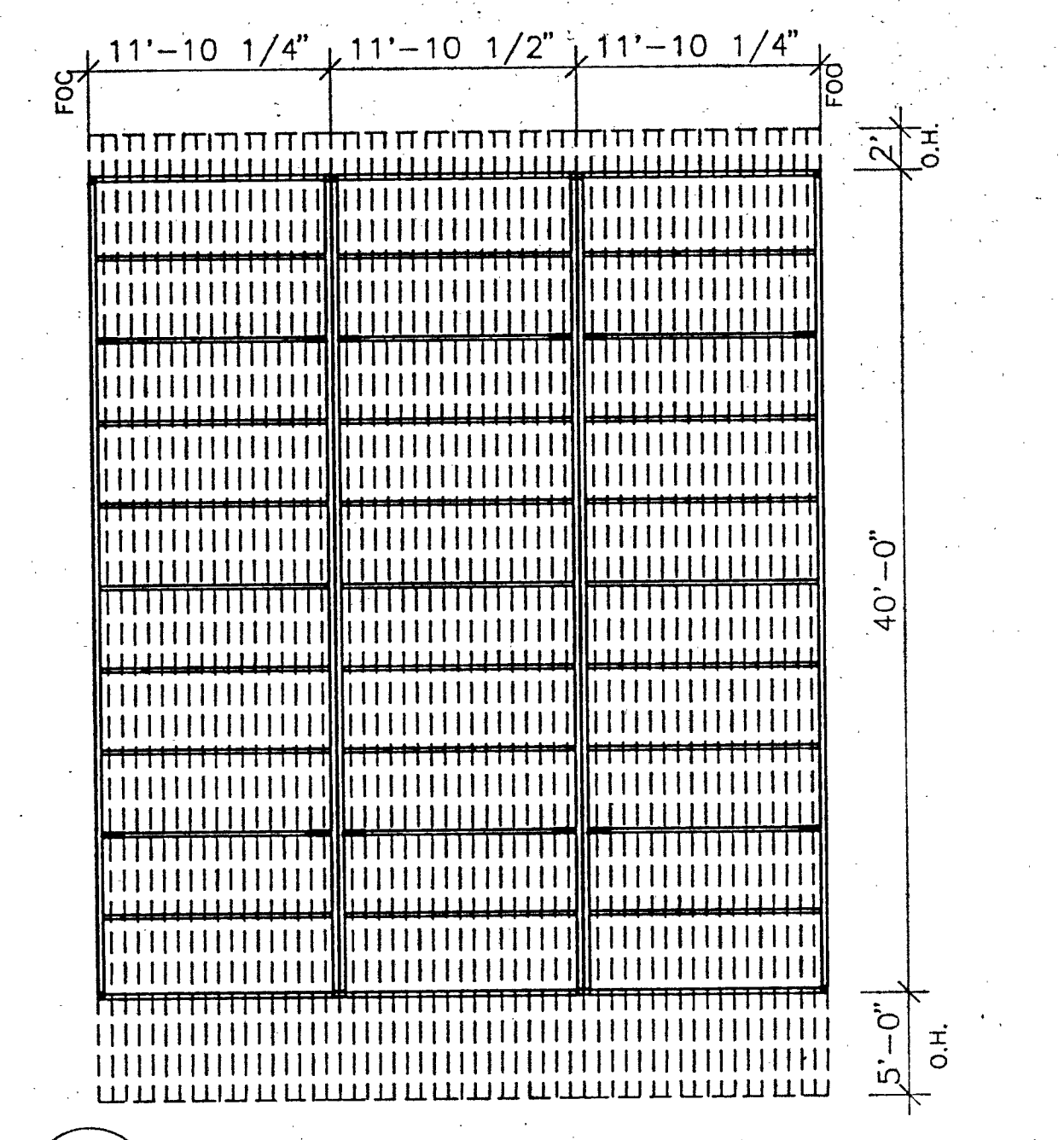
Drawn: J.F./WS
Date: 9/20/93
Scale: NOTED
Job:
Sheet
MM1
Of Sheet

STATE OF CALIFORNIA
Department of General Services
AUG 25 1994
Division of the State Architect
Regulation Services-Sacto

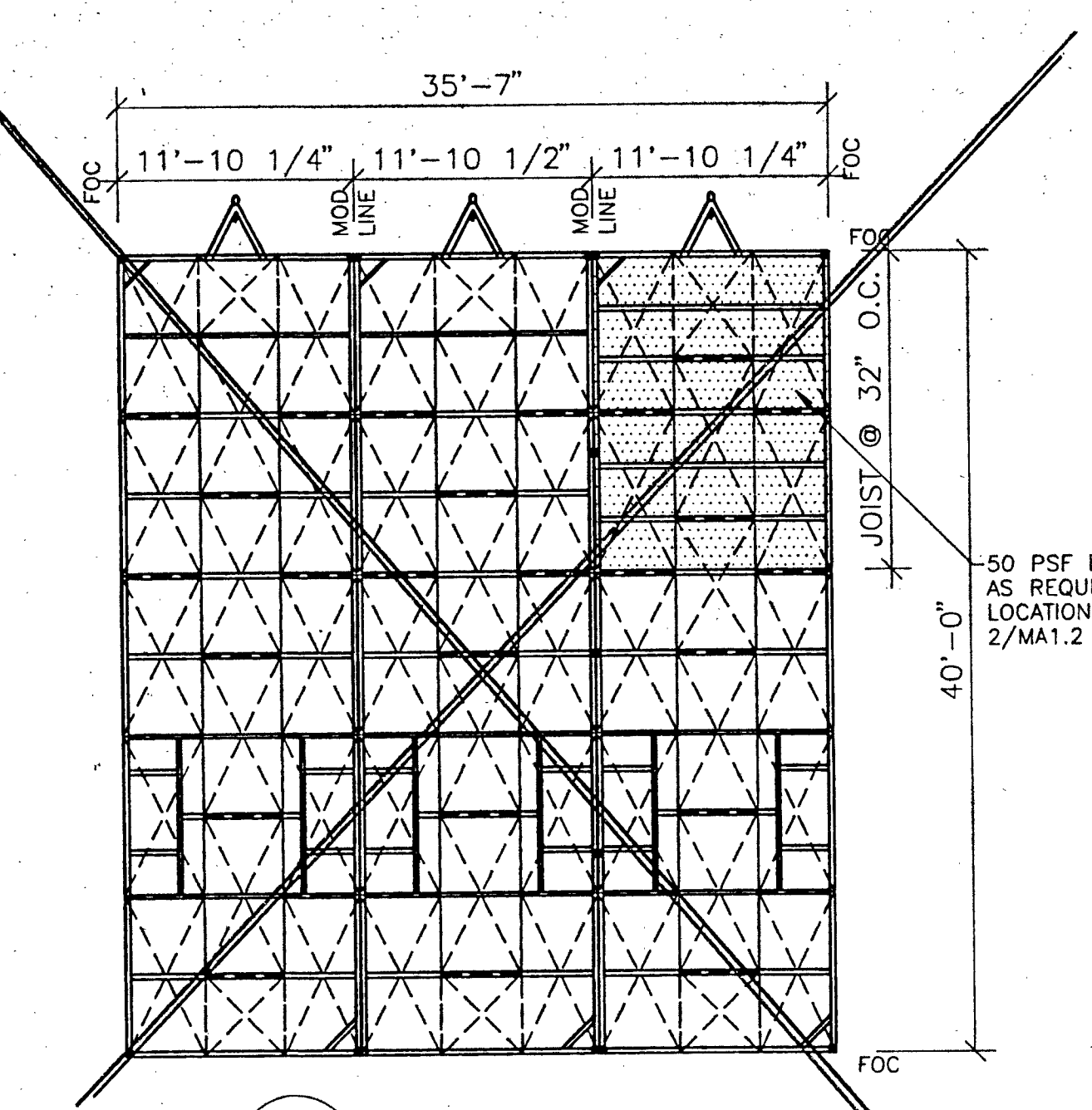
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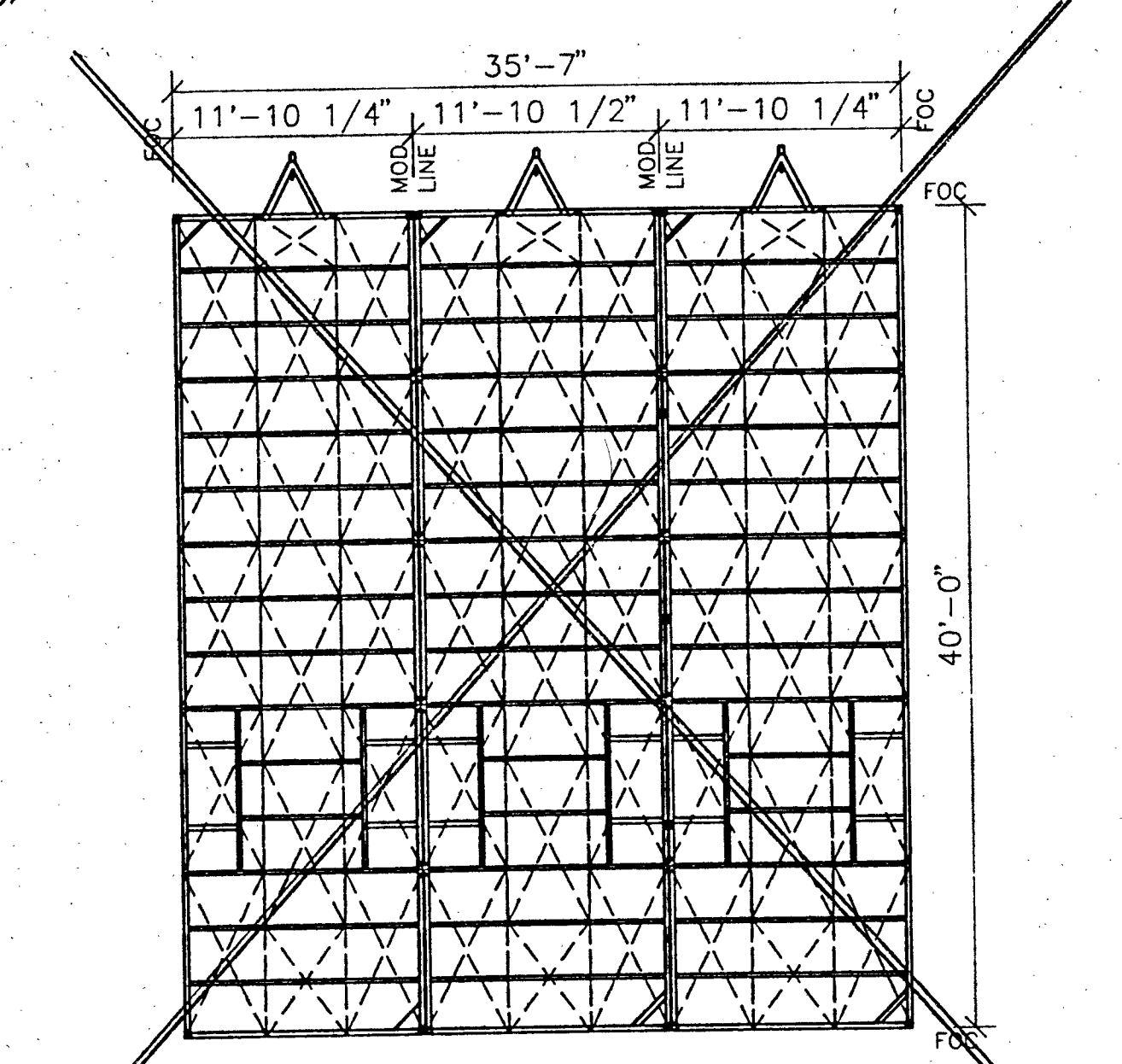
1 FLOOR FRAMING LAYOUT 50 PSF L.L.
RF1 1/8"=1'-0"



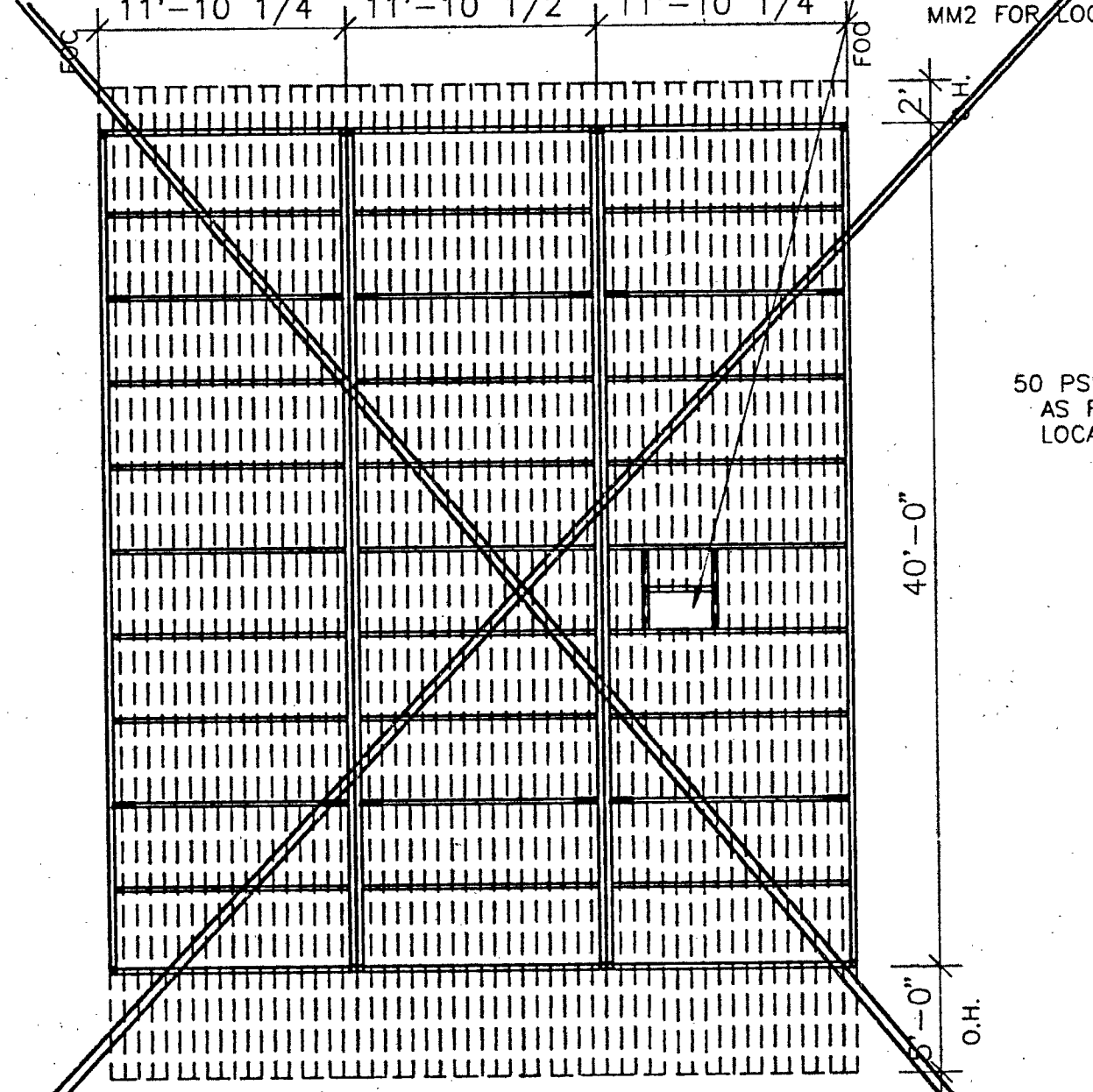
4 TYPICAL ROOF FRAMING LAYOUT
RF1 1/8"=1'-0"



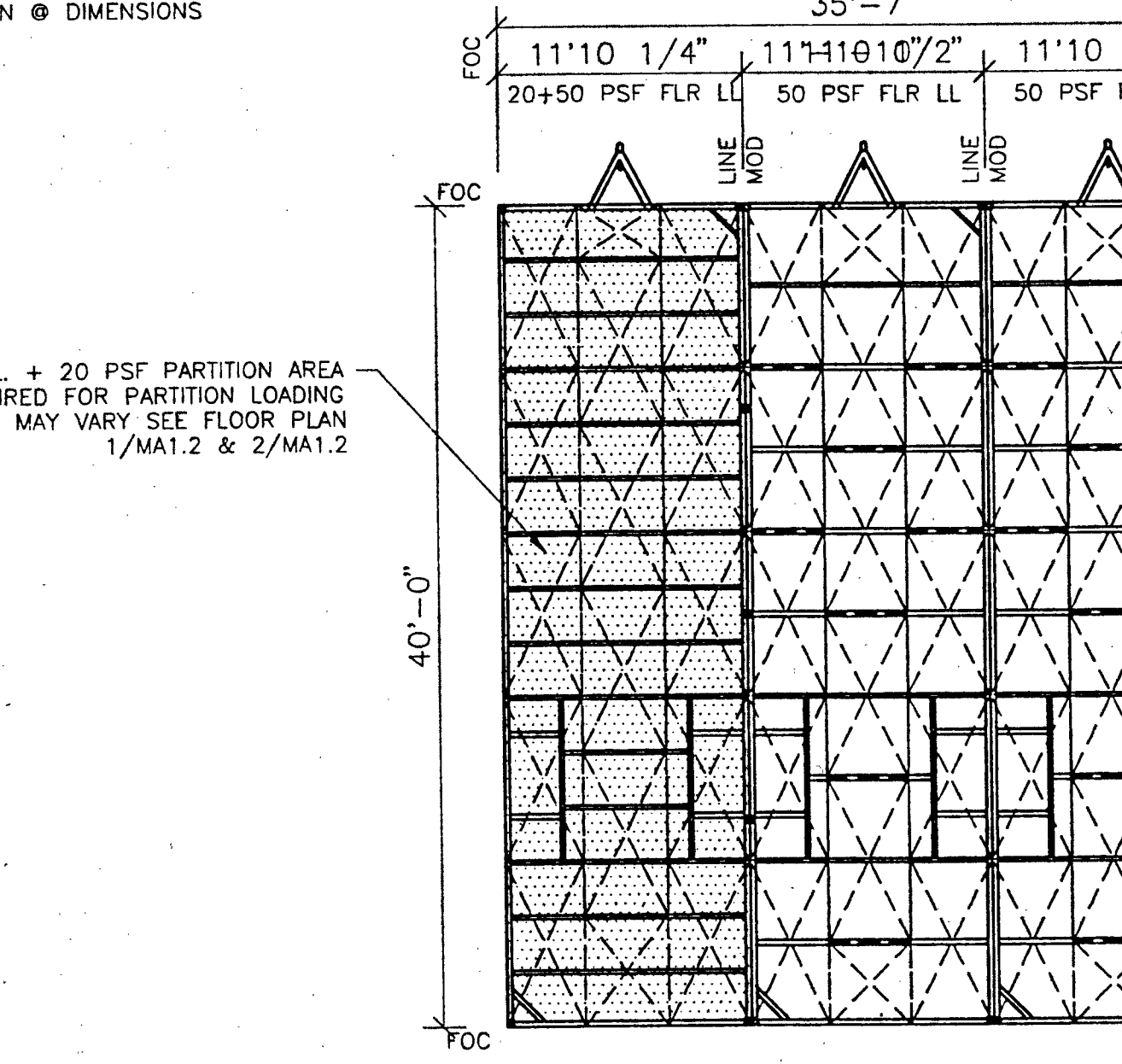
1 FLOOR FRAMING LAYOUT W/ DOUBLE RESTROOM
RF1 1/8"=1'-0" -FLOOR PLAN 1/MA1.2-



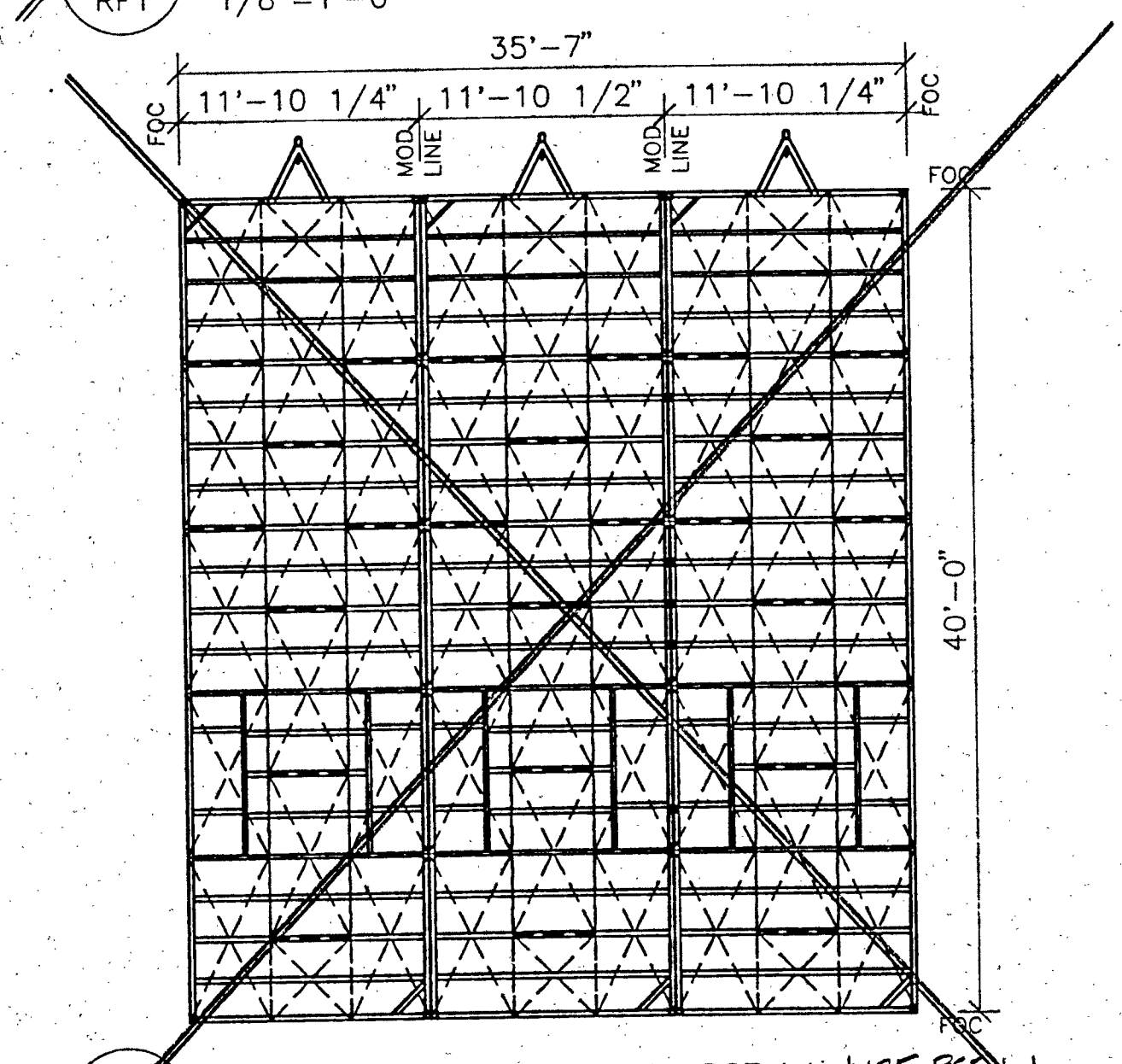
2 FLOOR FRAMING LAYOUT 50 PSF L.L. + 20 PSF PARTITION
RF1 1/8"=1'-0"



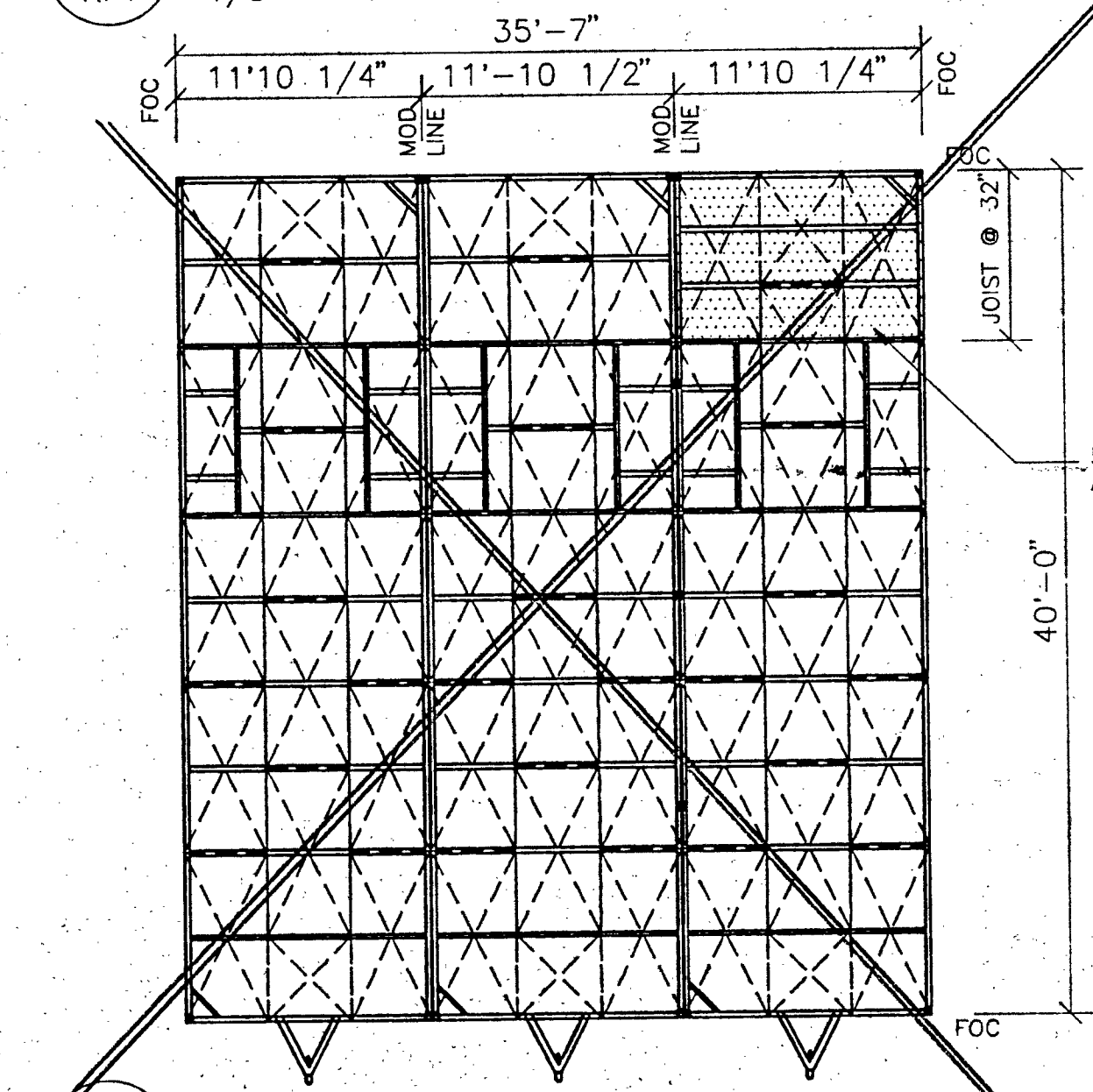
5 ROOF FRAMING LAYOUT W/ ROOF MOUNTED OPENING
RF1 1/8"=1'-0"



8 FLOOR FRAMING LAYOUT W/ 50 PSF + 20 PSF PARTITION
RF1 1/8"=1'-0" -FLOOR PLAN 2/MA1.2 & 1/MA1.3-



3 FLOOR FRAMING LAYOUT 100 PSF L.L. + 125 PSF L.L.
RF1 1/8"=1'-0"



6 FLOOR FRAMING LAYOUT W/ SINGLE RESTROOM
RF1 1/8"=1'-0" -FLOOR PLAN 3/MA1.2-

ALTERNATE ROOF MOUNTED HVAC UNIT OPENING SEE SHEET MM2 FOR LOCATION & DIMENSIONS

50 PSF L.L. + 20 PSF PARTITION AREA AS REQUIRED FOR PARTITION LOADING LOCATION MAY VARY SEE FLOOR PLAN 1/MA1.2 & 2/MA1.2

50 PSF L.L. + 20 PSF PARTITION AREA AS REQUIRED FOR PARTITION LOADING LOCATION MAY VARY SEE FLOOR PLAN 1/MA1.2

50 PSF L.L. + 20 PSF PARTITION AREA AS REQUIRED FOR PARTITION LOADING LOCATION MAY VARY SEE FLOOR PLAN 2/MA1.2

STATE OF CALIFORNIA
Division of the State Architect
Regulation Services Section
AUG 25 1994

STRUCTURAL NOTES

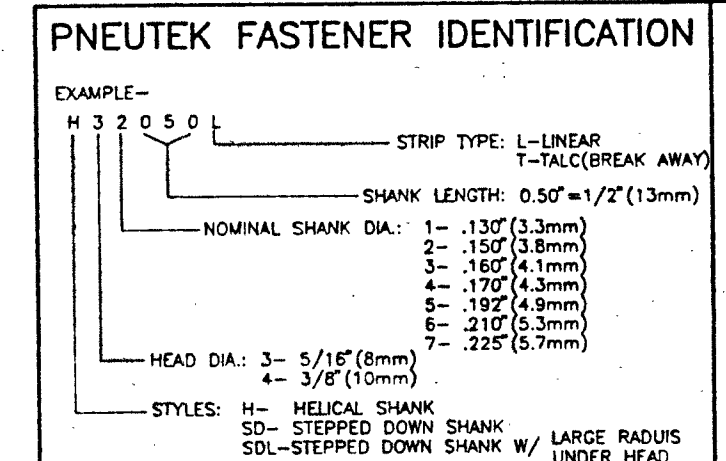
- I. STEEL
 - A. FABRICATION AND WORKMANSHIP: Shall conform to the AISC Specification for the Design, Fabrication, & Erection of Structural Steel for Buildings, Eighth Edition 1978, and Title 24 C.C.R. (ALL STEEL SHALL BE GIVEN A RUST INHIBITIVE COATING)
 - B. STRUCTURAL STEEL: Shall conform to ASTM A-36. Steel tubing ASTM A 500 Grade B.
 - C. LIGHT GAGE STEEL: Shall conform to ASTM A-570 Gr. 33 (see drawings). Elements shall not more than 5% from normal U.S. Gage. 10 Ga. -0.1345" 12 Ga. -0.105" 14 Ga. -0.074"
 - D. MATERIAL TESTS: Shall be tested in accordance with Title 24, State of California Administrative Code, Section 2712(a) & 1991 Edition UBC. Mill certificate or testing required on light gage joist, truss angles, I-Beams.
- II. WELDING:
 - A. STRUCTURAL WELDING: Shall be by the "Electric Arc Process" per AWS Code, and shall be performed by "Certified Welders with E70XX" welding inspection comply with Title 24, Section 2708.
- III. BOLTS:
 - A. Common Bolts: Shall conform to ASTM A 307, No upset thread allowed.
- IV. LUMBER:
 - A. FRAMING: All framing shall be grade marked by an approved grading agency. West Coast Lumber Inspection Bureau (WCLIB) Rule 16 and Western Product Assoc. (WPA) framing lumber shall be marked S-dry or MC-1 See Specifications, "CARPENTRY".
 - STUDS: DF #2 OR MSR 1650f 1.5E
 - PLATES: DF STANDARD & BETTER
 - BLOCKING: DF STANDARD & BETTER
 - HEADER: DF #2
- V. NAILING SCHEDULE:
 - A. FRAMING: (Use corrosion resisting nailing for exterior use) All nails to be machine applied box nails unless otherwise specified. Joists hanger nails for clips & hangers per manufacturer. NOTE: Use of machine nailing is subject to a satisfaction jobsite demonstration for each project and the approval by the Project Architect or Structural Engineer and the Office of Regulation Services, DSA.

NAILING SCHEDULE	
CONNECTION	NAILING
TOP & BOTTOM PLATE TO STUD,	(2)16d
END NAIL	(2)16d
DOUBLE STUDS, FACE NAIL	16d @ 12" O.C.
BUILT-UP STUDS, FACE NAIL	16d @ 12" O.C.
DOUBLED TOP PLATES, FACE NAIL	16d @ 12" O.C.
TOP PLATES, LAPS & INTERSECTIONS	(6) 16d
FACE NAIL	PER SIDE
BLOCKING NAILING	(2) 16d BOX TOENAIL

- B. PLYWOOD:
 1. Nails spaced @ 6" o.c. @ edges, 12" o.c. @ intermediate supports. For nailing of plywood diaphragms and rigid frame bldg. refer to section 2513 Title 24.

PLYWOOD	NAILING
1/2" and less	8d
5/8"	8d

- VI. LAG BOLT INSTALLATION:
 - A. The lead hole for the shank shall have the same diameter and depth as the unthreaded shank.
 - B. The lead hole for the threaded portion shall have a diameter equal to 60% of shank and a length at least equal to the threaded portion.
 - C. The bolt shall be inserted by turning with a wrench, not by driving with hammer. Soap or lubricant shall be used.
- VII. POWER DRIVEN FASTENERS
 - A. Pneutek pins as called out on plan same shear value as 10d nail.
 - B. Alternate: Arrowsmith .144 per ICBO approval # 4144 see table VIII of ICBO report for allowable shear values.



STEPPED DOWN SHANK FOR VERY HARD AND PRESTRESSED CONCRETE AND STRUCTURAL STEEL

FASTENER	SHANK DIA.	SHANK LENGTH	FASTENER DIA.	FASTENER LENGTH
H34075	.170"	3/4"	H34225	.170" 2 1/4"
H34100	.170"	1"	H34250	.170" 2 1/2"
H34138	.170" 1 3/8"	H34275	.170" 2 3/4"	
H34162	.170" 1 5/8"	H34300	.170" 3"	

FASTENER	SHANK DIA.	SHANK LENGTH	FASTENER DIA.	FASTENER LENGTH
SD32062	.150"	5/8"	SD34225	.170" 2 1/4"
SD32075	.150"	3/4"	SD33250	.160" 2 1/2"
SD32100	.150"	1"	SD34250	.170" 2 1/2"
SD33100	.160"	1"	SD33275	.160" 2 3/4"
SD32125	.150"	1 1/4"	SD34275	.170" 2 3/4"
SD33125	.160"	1 1/4"	SD33300	.160" 3"
SD34125	.170"	1 1/4"	SD34300	.170" 3"
SD33150	.160"	1 1/2"	SD34325	.170" 3 1/4"
SD42062	.150"	5/8"	SD44150	.170" 1 1/2"
SD42075	.150"	3/4"	SD44175	.170" 1 3/4"
SD42100	.150"	1"	SD44200	.170" 2"
SD43125	.160"	1 1/4"	SD44225	.170" 2 1/4"
SD43150	.160"	1 1/2"	SD44250	.170" 2 1/2"

- General Conditions
All section numbers noted below refer to Group 1, Chapter 4, Part I, Title 24, C.C.R.
1. All plans, specifications, change orders, and addenda shall be signed by the responsible professionals on record.
 2. All addenda and change orders shall be submitted to the Architect of record and approved by DSA per Section 4-338.
 3. An inspector approved by DSA and hired by the owner (school district) shall provide continuous inspection of work per Section 4-333(b) and 4-342.
 4. Material testing shall be done by an independent testing laboratory per Section 4-335. Testing laboratory shall be employed by owner.
 5. Special inspections shall be provided per Section 4-333(c).
 6. Contractor shall submit verified reports per Section 4-336 and 4-343(c).
 7. Construction shall be administered per Part I, Title 24, C.C.R. Duties of architect, structural engineer or professional engineer per Section 4-333(g) and 4-341.
 8. Duties of contractor per Section 4-343.
 9. Verified reports shall be submitted to DSA per Section 4-336.
 10. A copy of Part I & II of Title 24 shall be kept and available on jobsite at all times during the course of construction.
 11. DSA shall be notified on start of construction per Section 4-334.
 12. Supervision by the Division of the State Architect shall be per Section 4-334.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-117736 INC.
REVIEWED FOR:
SS FLS ACS
DATE: 02/13/2020

designed m
P.O. BOX 367
Patterson, California 95363
(209) 892-6298

Approval: Engineering Consultant

ARCHITECT
J. F. W. S.
DATE: 9/20/93

Approval: Architect

ARCHITECT
No. C 10145
P.L. 4295
mangini associates
ARCHITECTURE • PLANNING • INTERIORS
210 W. ACEQUIA ST. - VISALIA, CA - 93277
(209) 627-0550 FAX 627-1958

Approval: Structural Safety

IDENTIFICATION STAMP
ARCHITECT
OFFICE OF REGULATION SERVICES
DATE: 10-19-93 (SF)

Approval: Fire Marshal

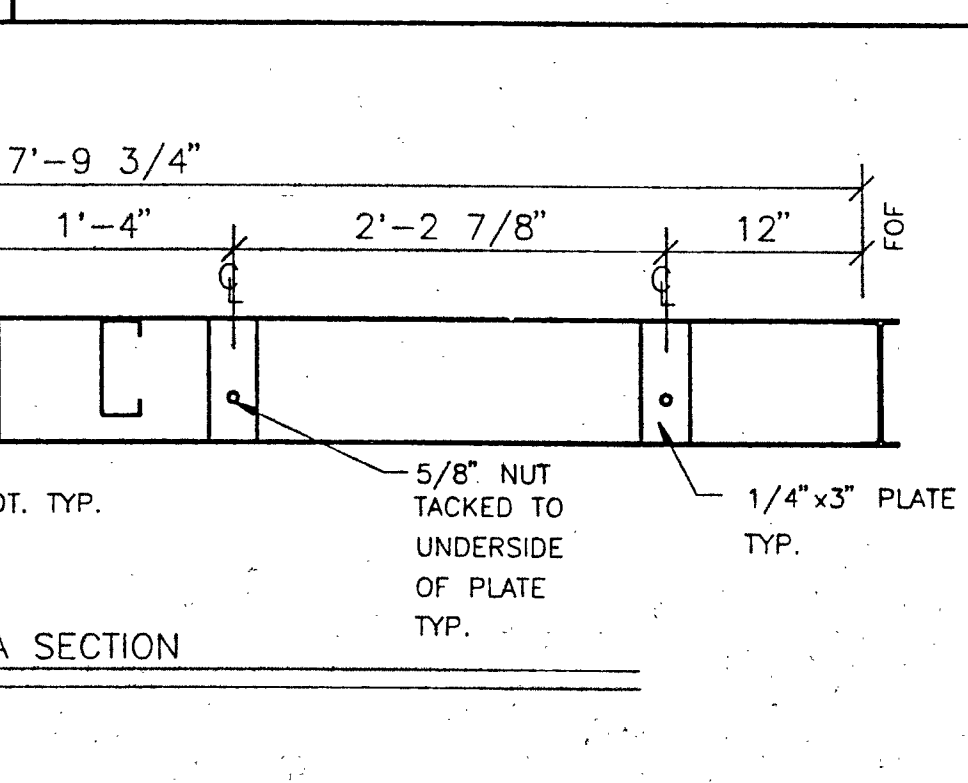
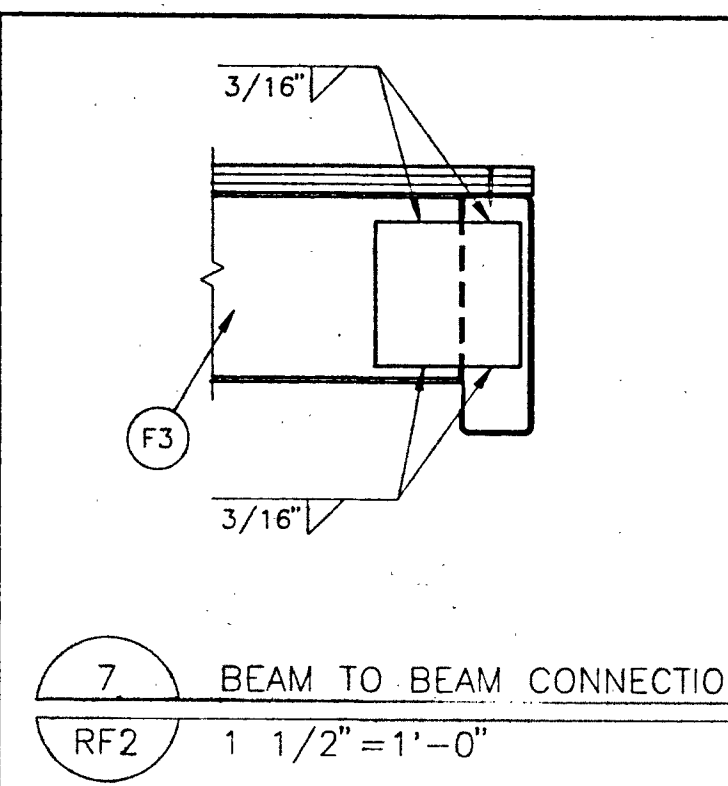
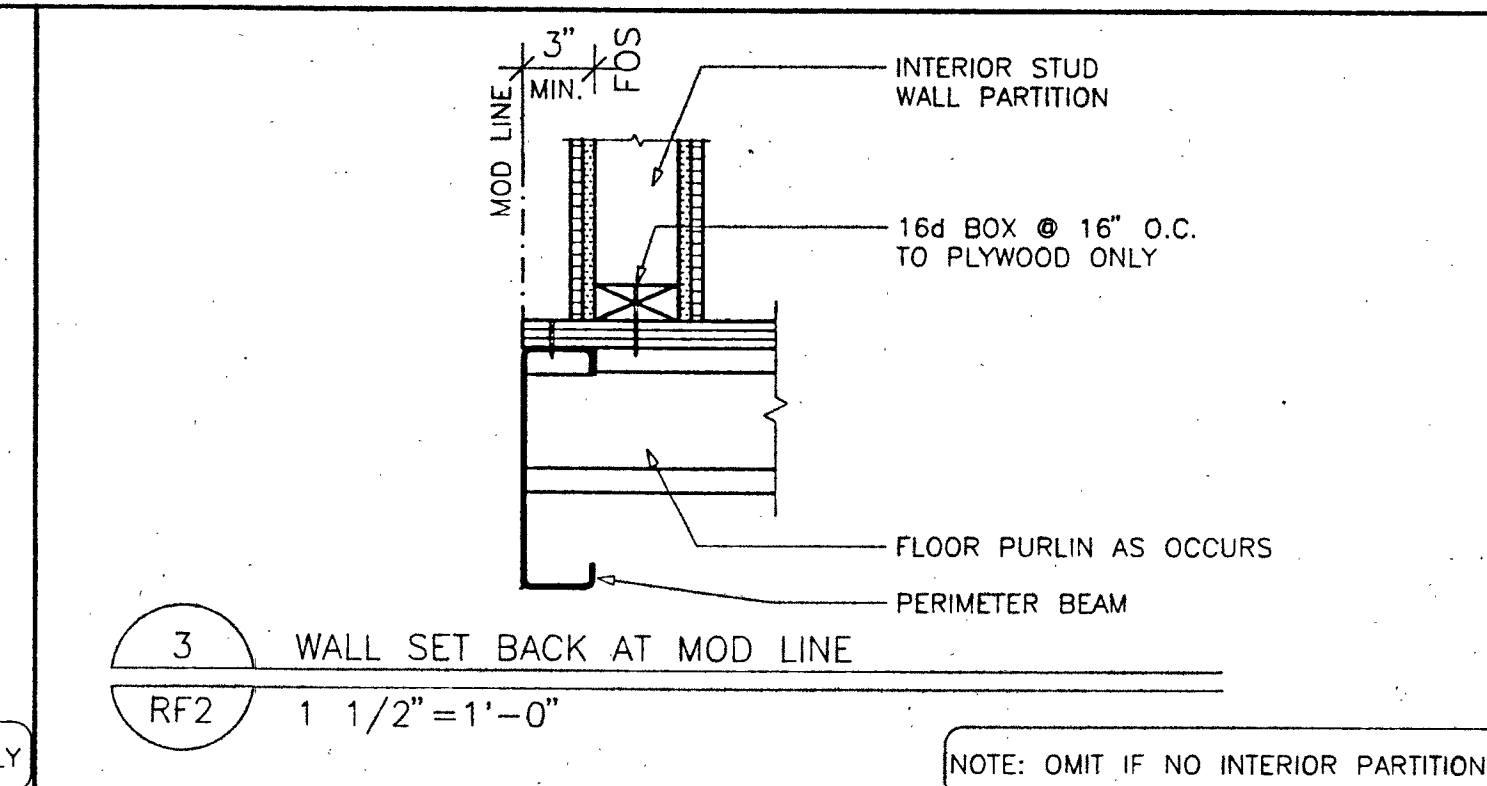
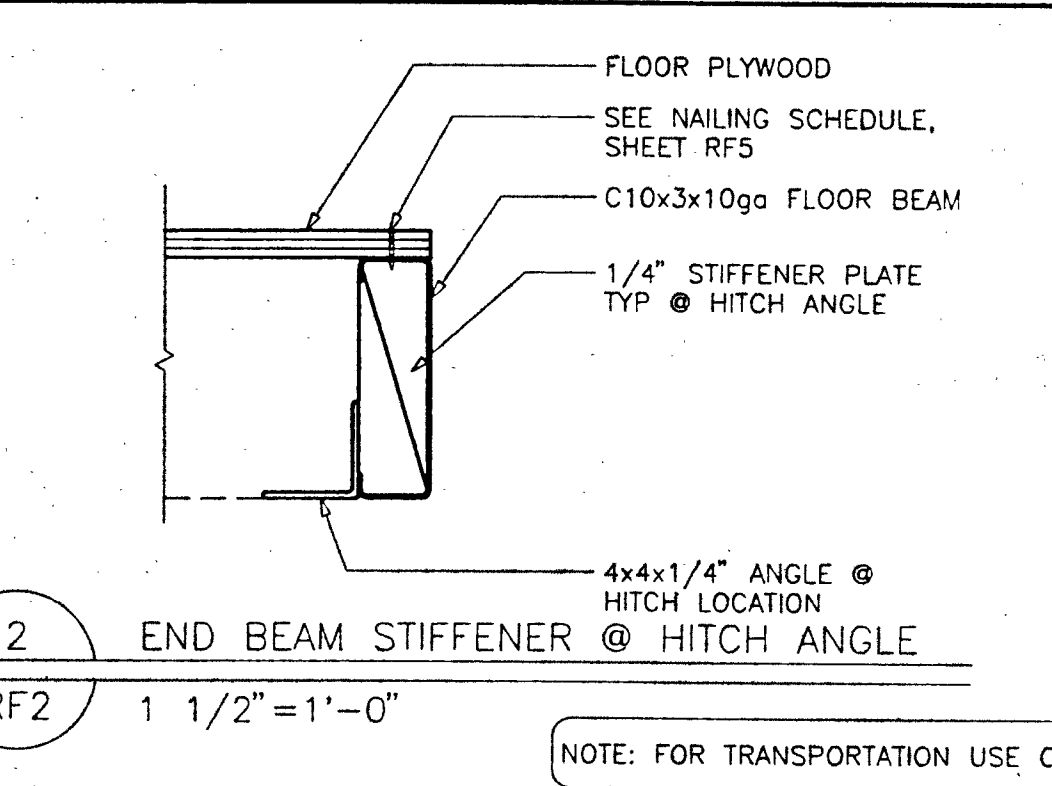
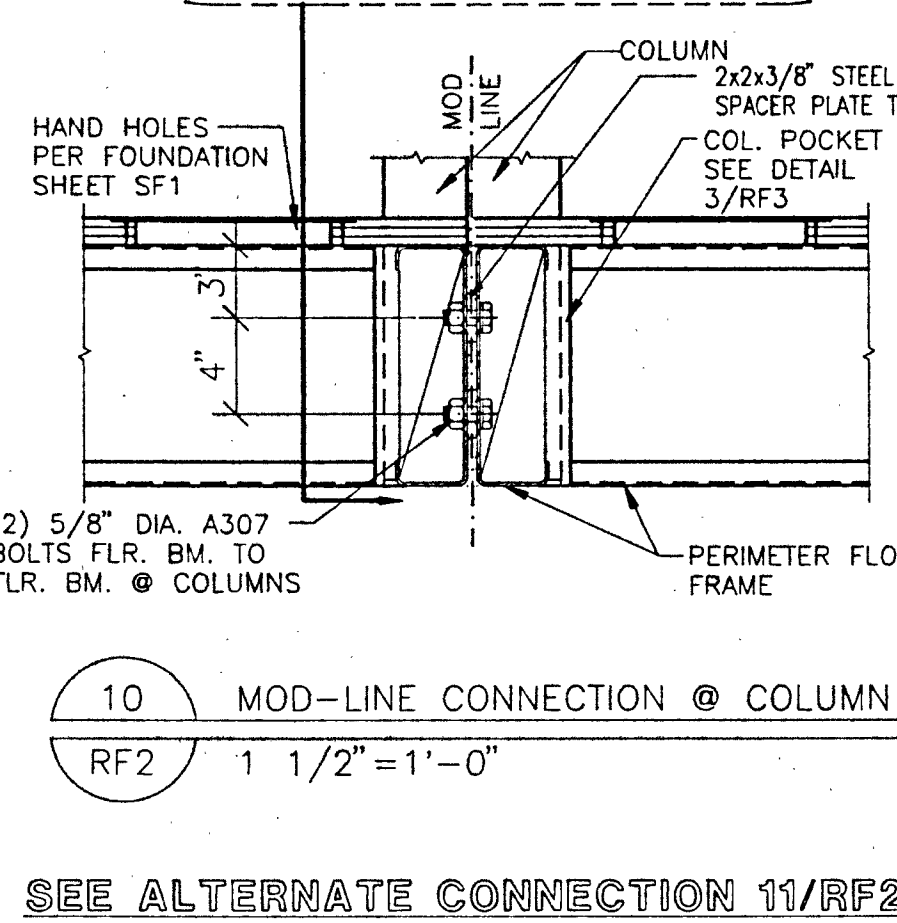
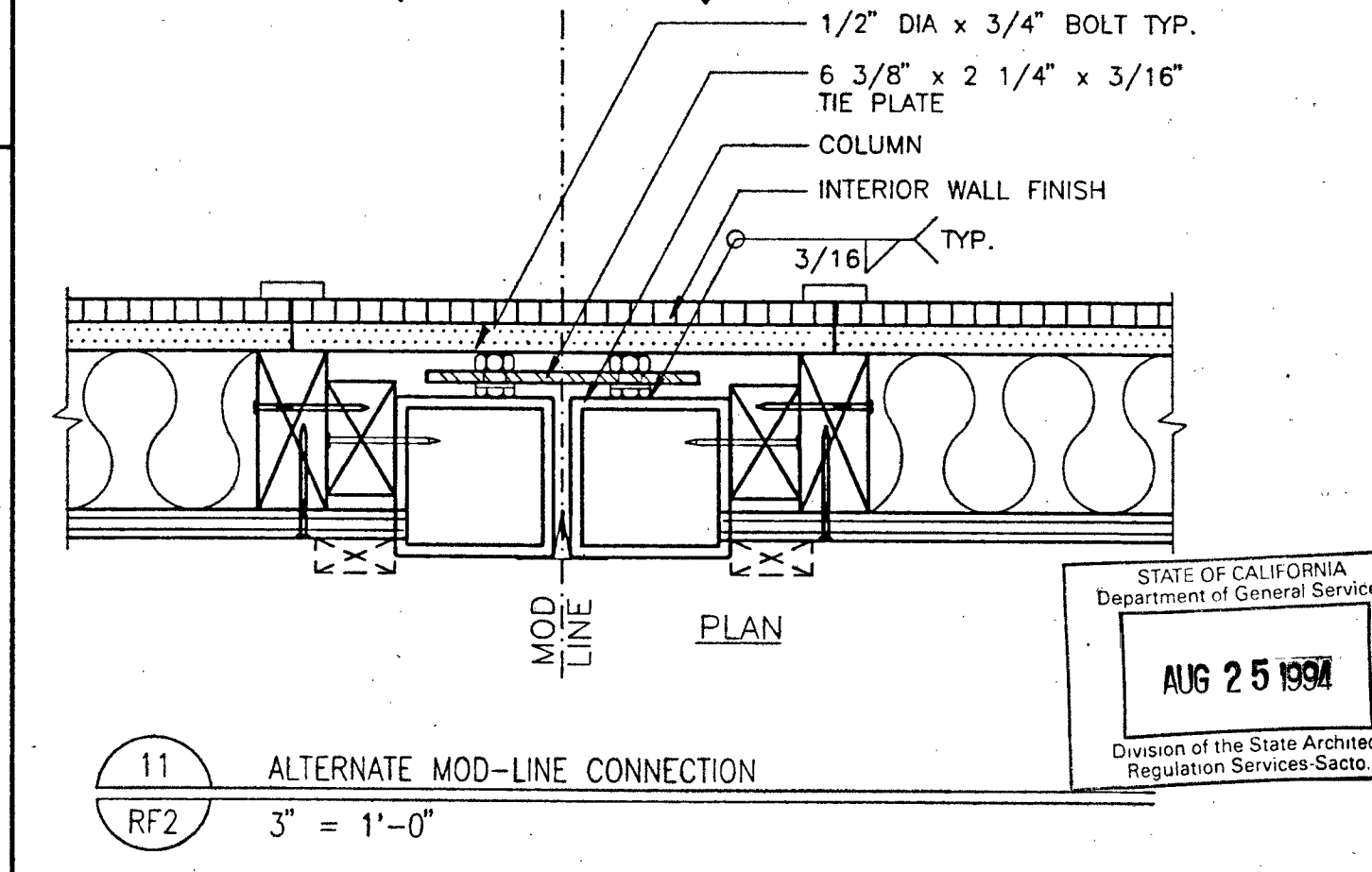
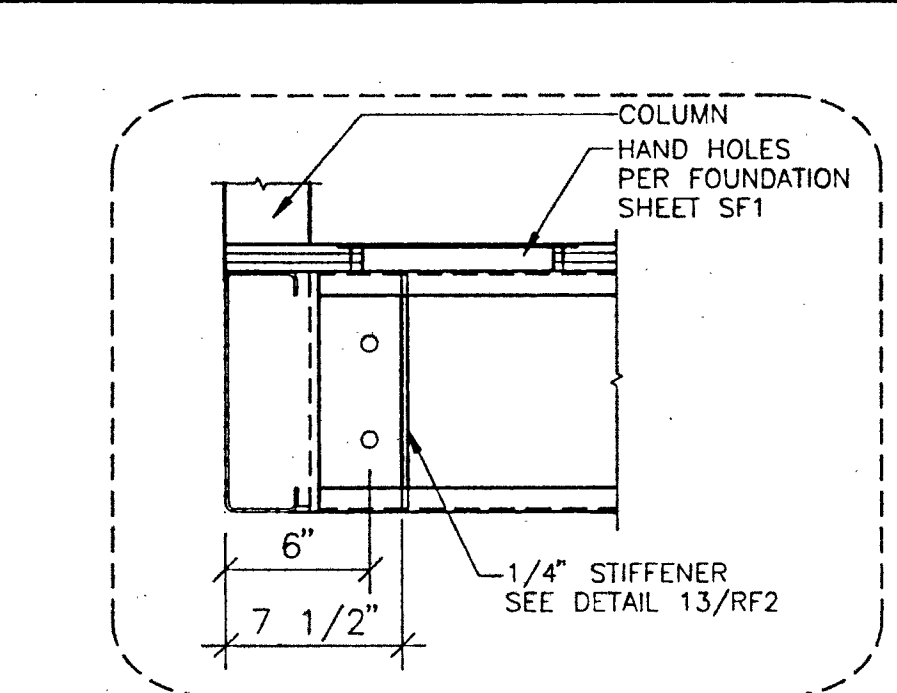
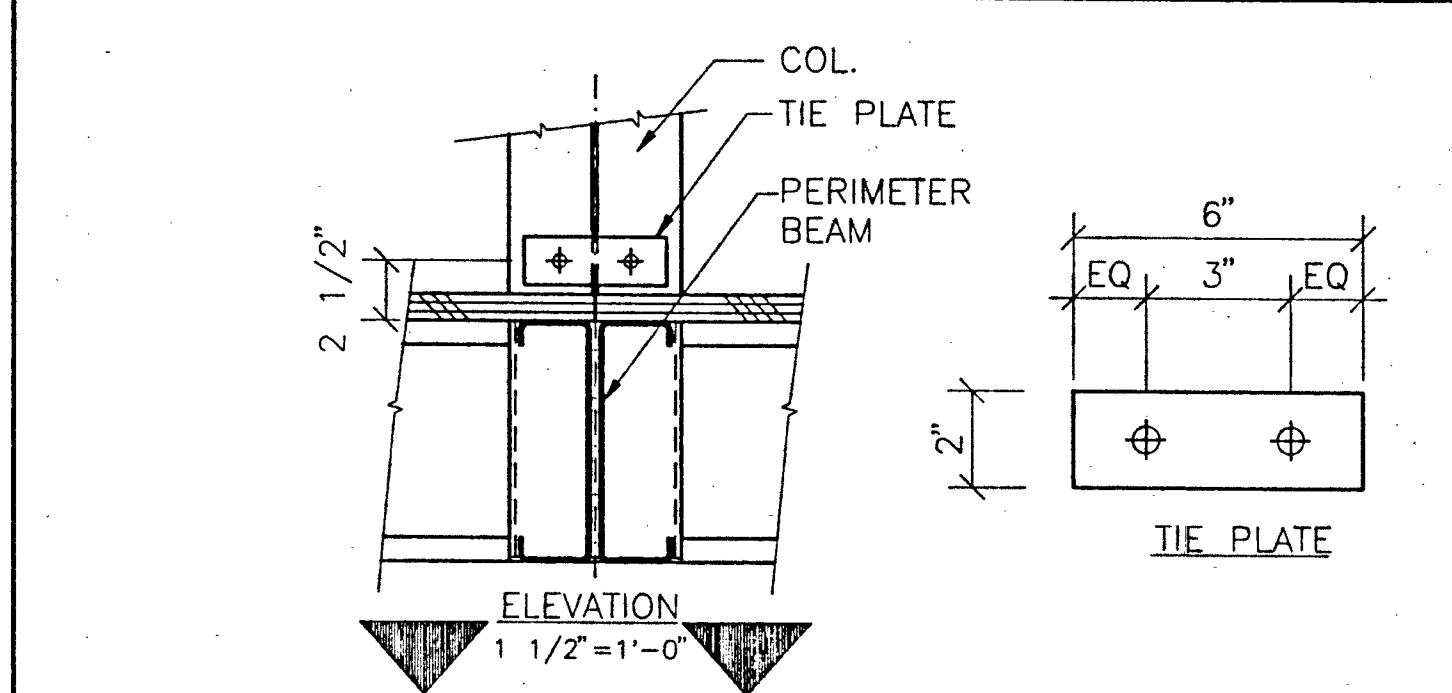
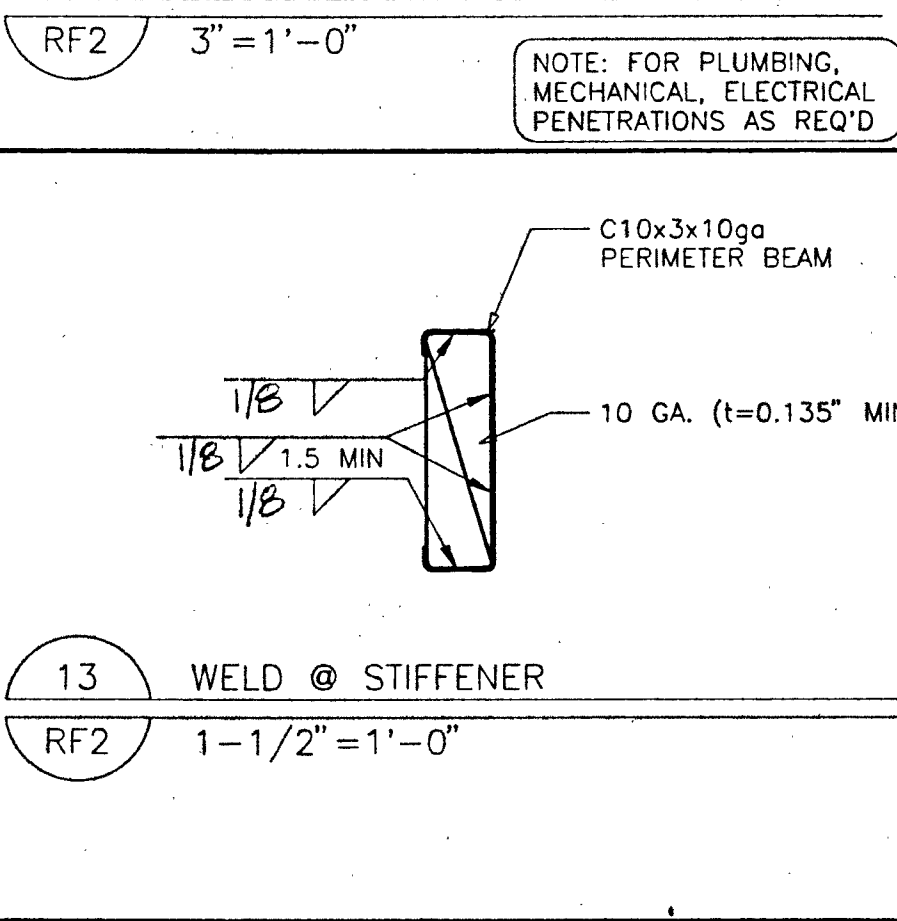
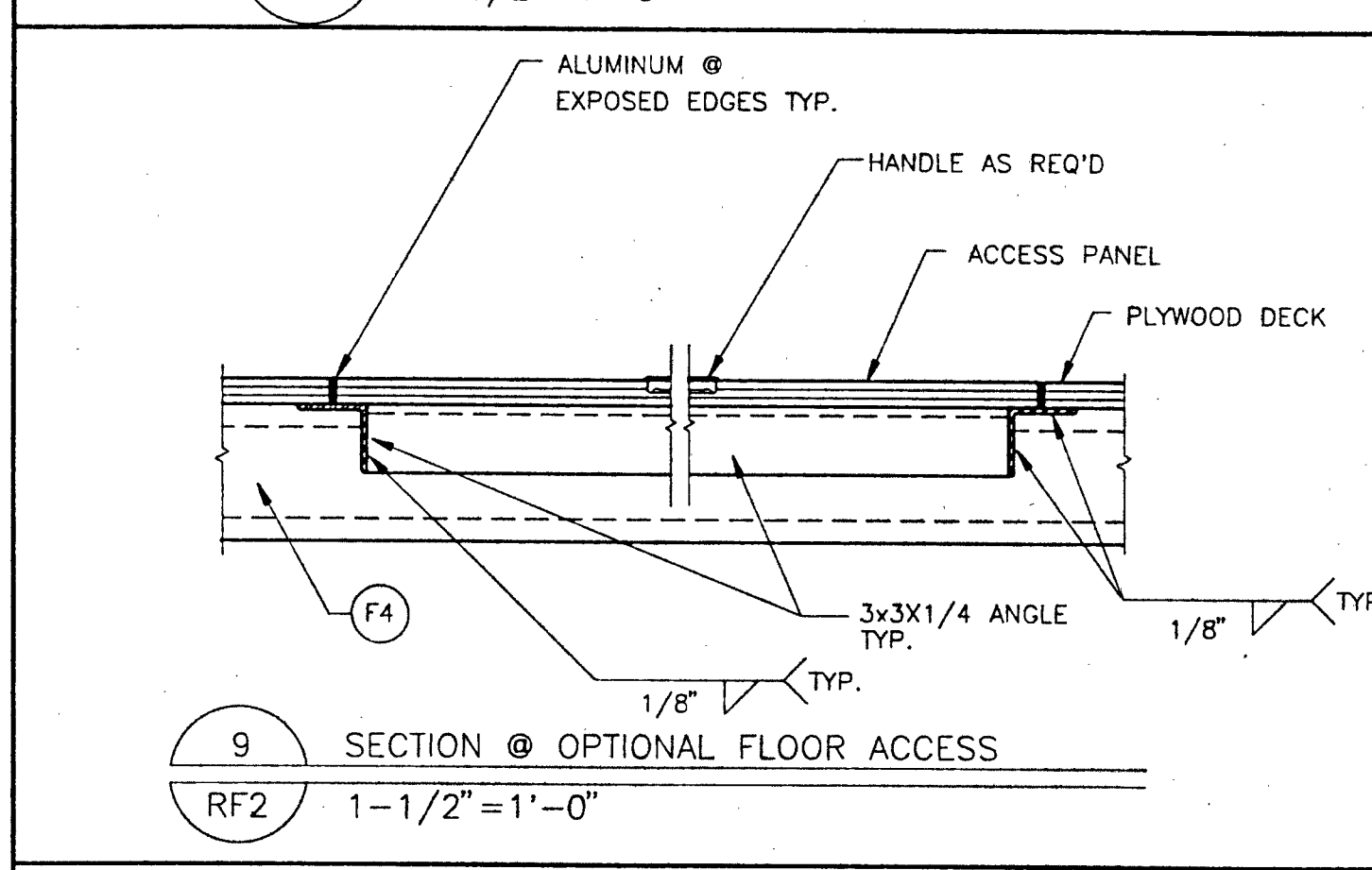
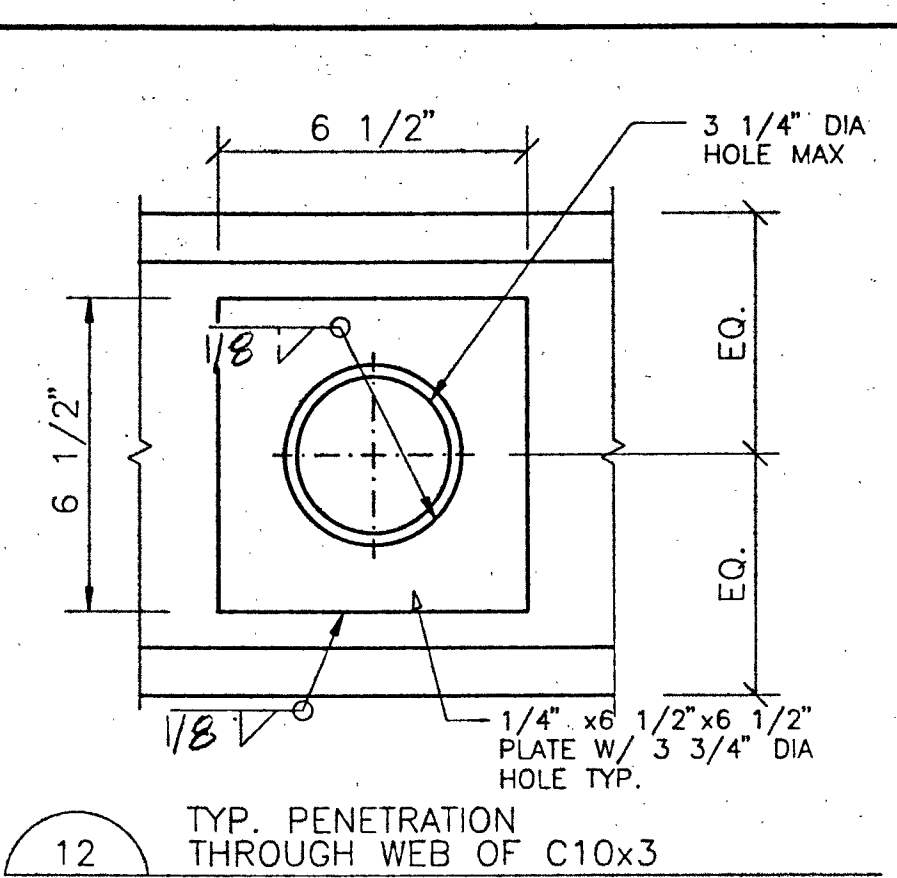
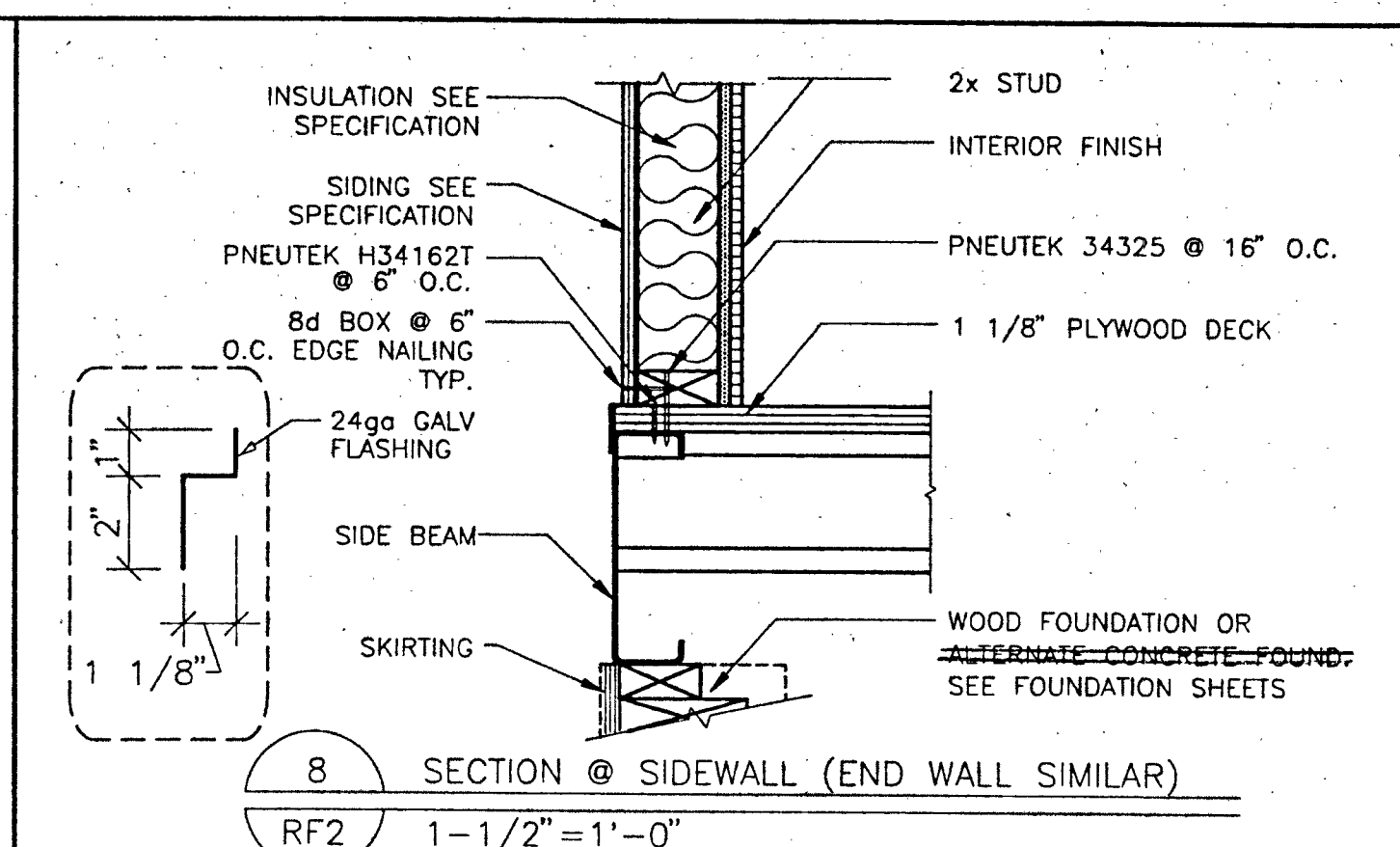
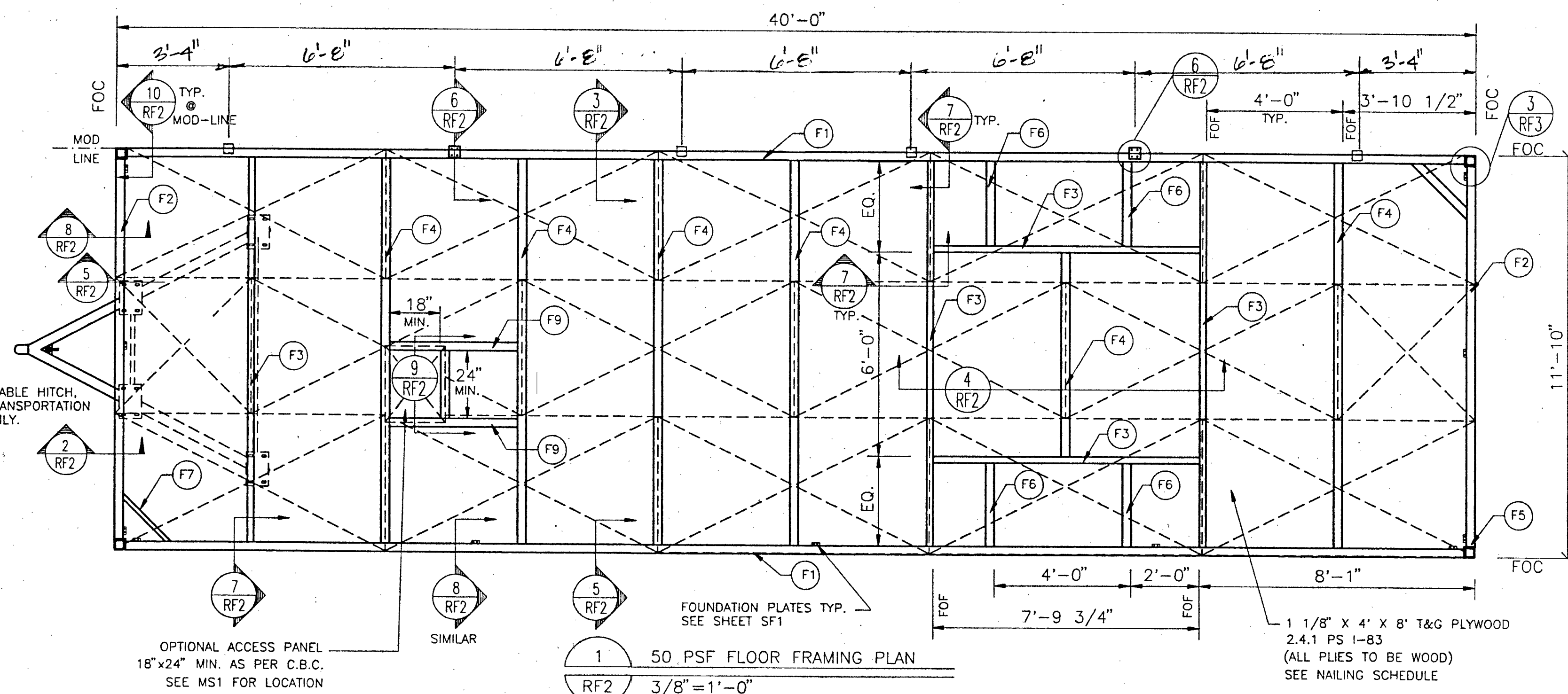
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL G 2159
DATE: 9/24/94

Approval: Compliance

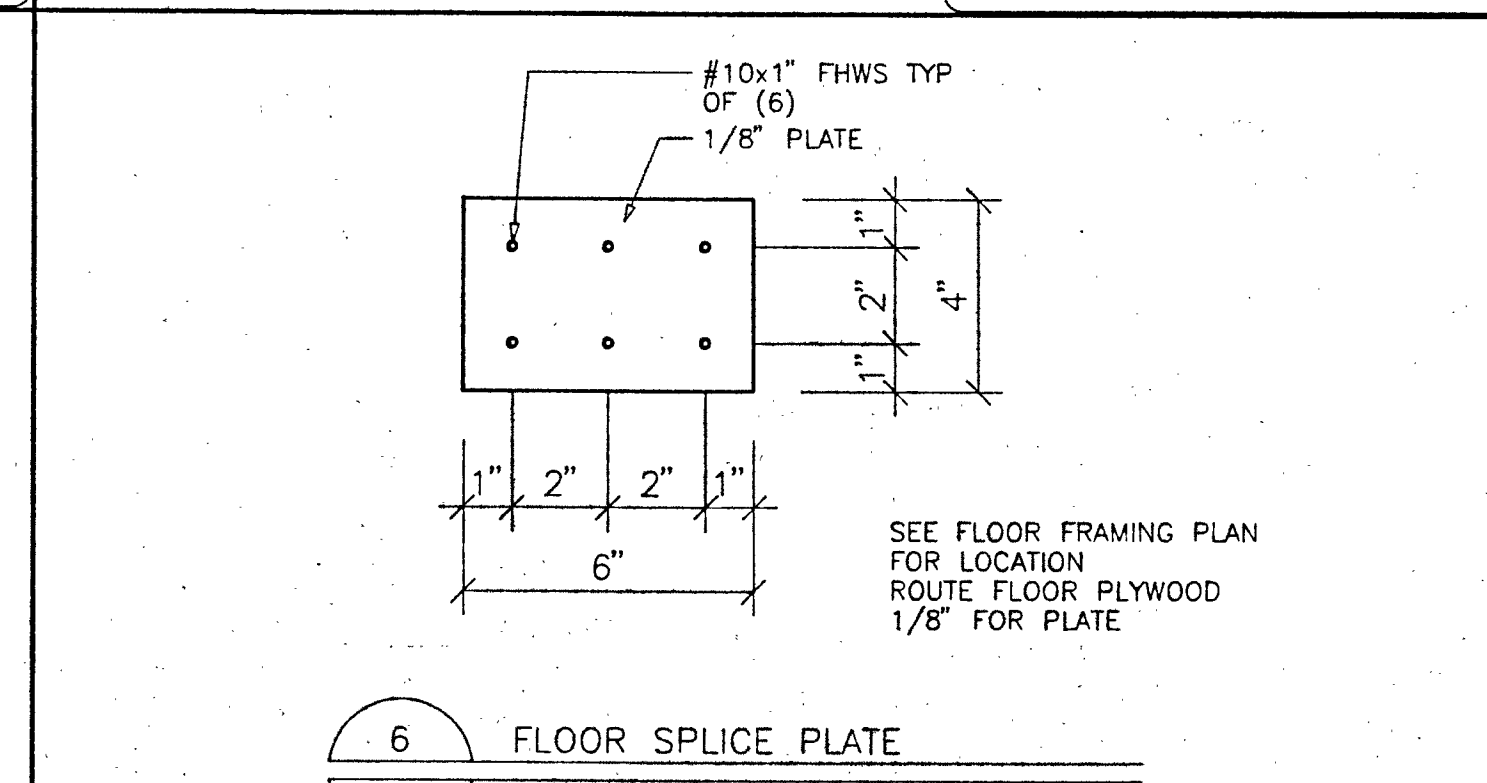
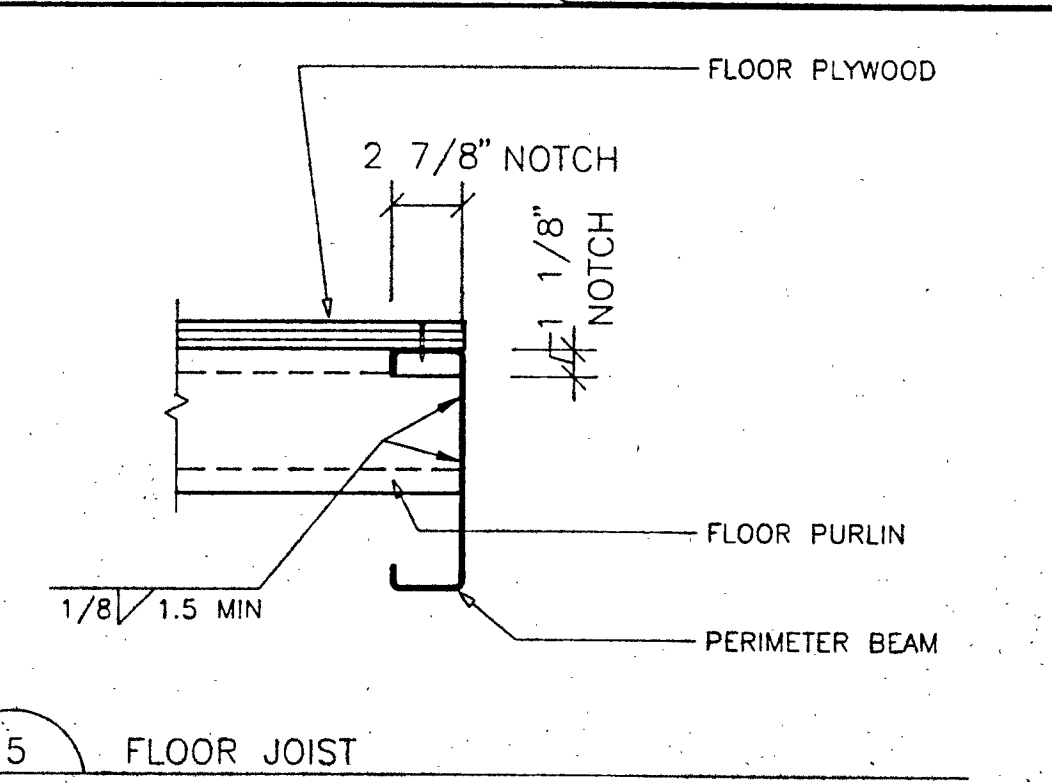
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DMSI-1993
36x40 RELOCATABLE BUILDING

PORTERVILLE PUBLIC SCHOOL DISTRICT 3223
PORTERVILLE, CA DATE: 7/29/94 JOB: 3223
Sheet Title:
MODULE LAYOUT & STRUCTURAL NOTES

Drawn: J.F./WS
Date: 9/20/93
Scale: NOTED
Job:
Sheet
RF1
Of Sheet



PART NO.	DESCRIPTION	MAT'L TO BE TESTED	YIELD POINT	MAT'L GAGE	SECTION	LENGTH	REMARKS
F1	SIDE BEAM	YES	33KSI	10 GA.	C10 x 3		
F2	END BEAM	YES	33KSI	10 GA.	C10 x 3		
F3	INTER. BM.	YES	33KSI	12ga.	M8 X 6.5		
F4	JOIST	YES	33KSI	12ga.	6x3		
F5	COL. CONN.	YES	36KSI	3/8"	L 4" x 4"		
F6	AXLE ANG.	YES	36KSI	1/4"	L 3" X 3"		
F7	BRACE	YES	36KSI	3/16"	L 1.5" X 1.5"		
F8	BLOCKING ANGLE	YES	33 KSI	1/4"	L 3" x 3"		



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-117736 INC.
REVIEWED FOR
SS FLS ACS
DATE: 02/13/2020

designed by
P.O. BOX 367
Patterson, California 95363
(209) 892-6298

Approval: Engineering Consultant

Approval: Architect

Approval: Architect

Approval: Structural Safety

Approval: Fire Marshal

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APR 6 2 15 9
AC FLS
DATE 10-19-93

Access Compliance

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APR 6 2 15 9
AC FLS
DATE 8/2/99

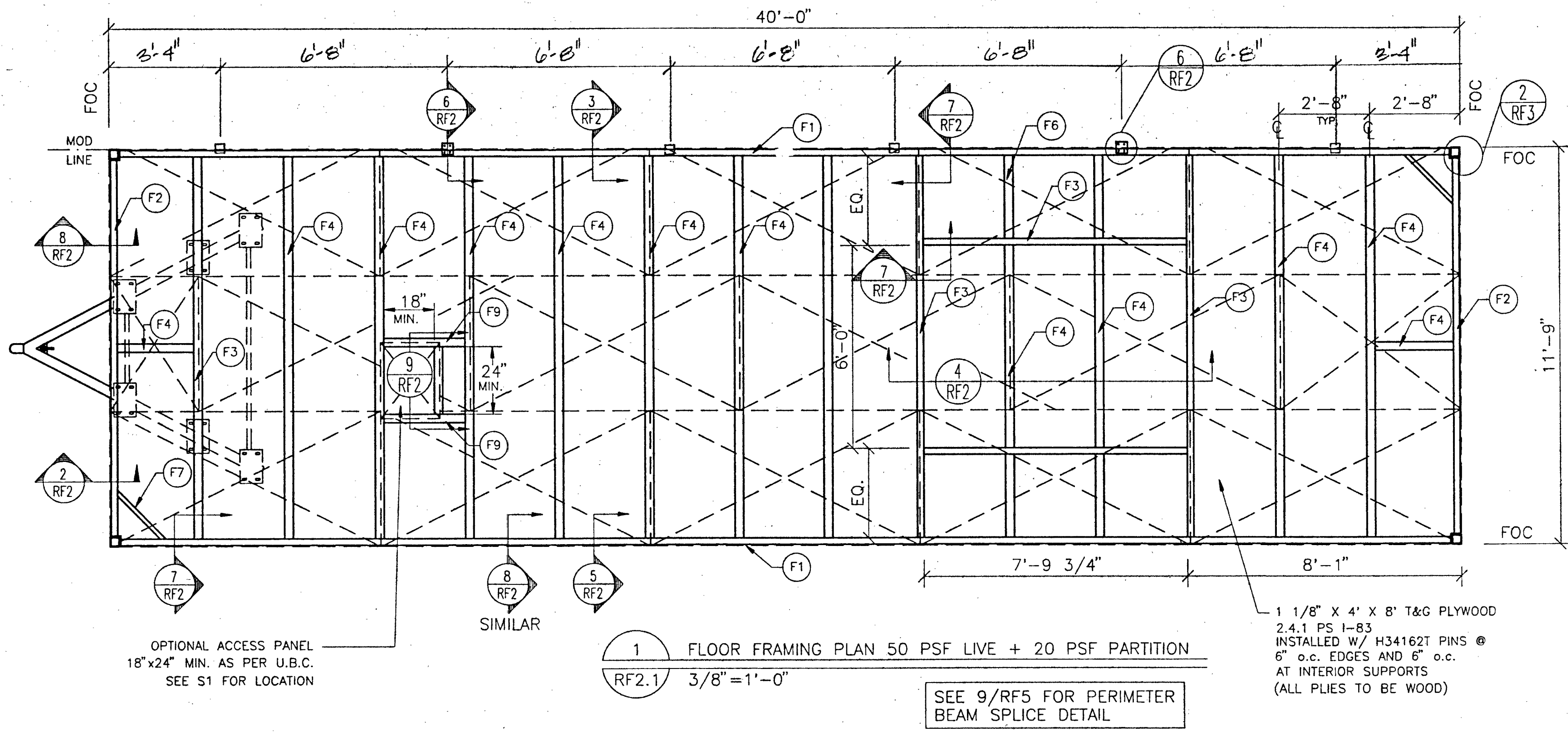
Access Compliance

Access Compliance

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DMSI-1993
36x40 RELOCATABLE BUILDING
PORTERVILLE PUBLIC SCHOOL DISTRICT
PORTERVILLE, CA
DATE: 7/26/94 JOB: 3323
Sheet Title: FLOOR FRAMING PLAN & DETAILS

Drawn: J.F./WS
Date: 9/20/93
Scale: NOTED
Job:
Sheet
RF2
Of Sheet

FILE NAME: C58RF2 PLT SF: 1=8

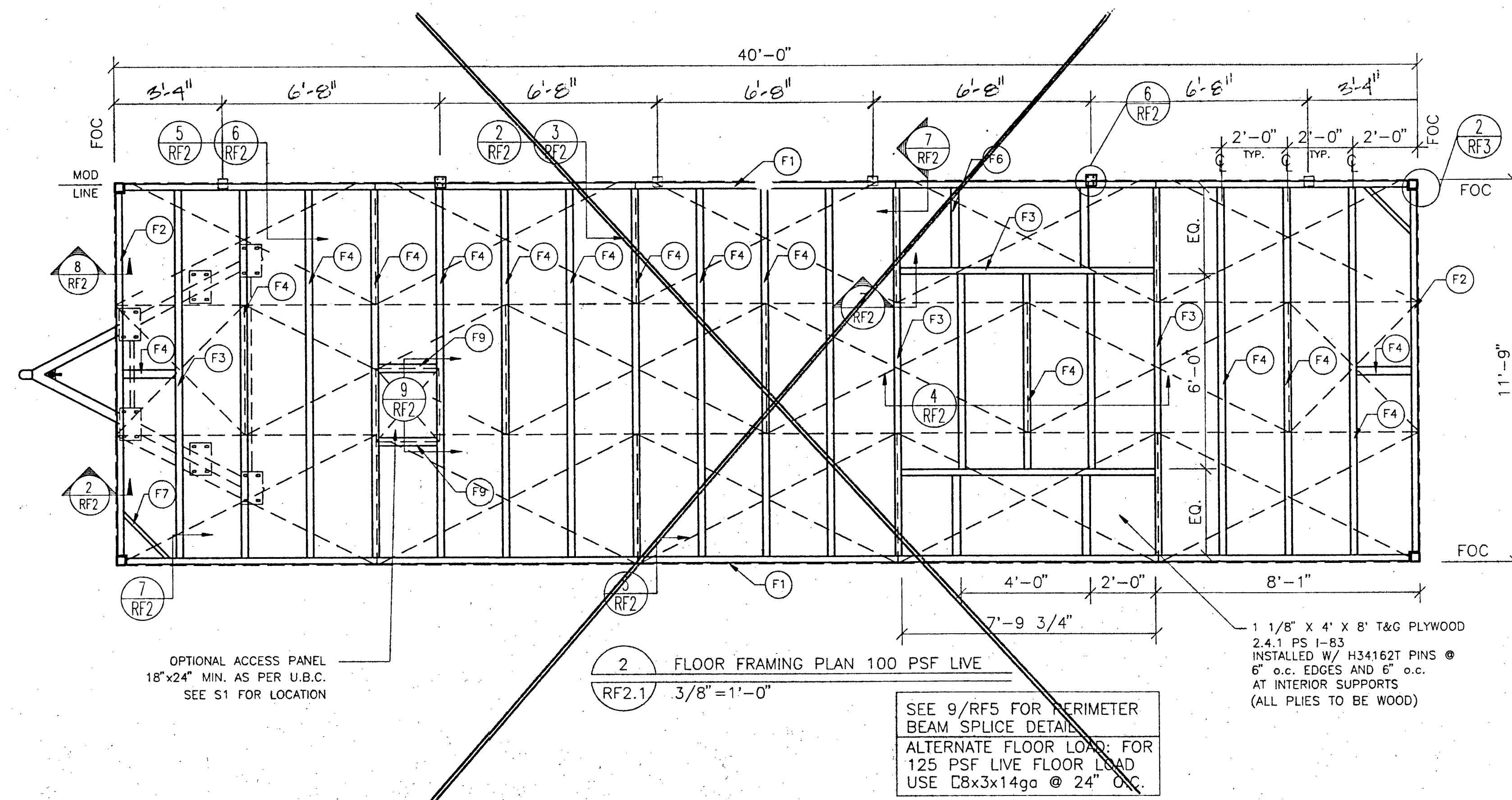


1 FLOOR FRAMING PLAN 50 PSF LIVE + 20 PSF PARTITION
RF2.1 3/8" = 1'-0"

SEE 9/RF5 FOR PERIMETER BEAM SPLICE DETAIL

1 1/8" X 4' X 8' T&G PLYWOOD
2.4.1 PS I-B3
INSTALLED W/ H34162T PINS @
6" o.c. EDGES AND 6" o.c.
AT INTERIOR SUPPORTS
(ALL PLYS TO BE WOOD)

NOTE:
OPTIONAL C6x12 GA. FLOOR JOISTS
@ 32" O.C. TYP. THROUGHOUT WITH NO
PROVISIONS FOR AXLES OR HITCH. FLOOR
PERIMETER FRAME TO REMAIN C10x3x10 GA.



2 FLOOR FRAMING PLAN 100 PSF LIVE
RF2.1 3/8" = 1'-0"

SEE 9/RF5 FOR PERIMETER BEAM SPLICE DETAIL
ALTERNATE FLOOR LOAD: FOR
125 PSF LIVE FLOOR LOAD
USE C8x3x14go @ 24" O.C.

NOTE:
OPTIONAL C6x12 GA. FLOOR JOISTS
@ 24" O.C. TYP. THROUGHOUT WITH NO
PROVISIONS FOR AXLES OR HITCH. FLOOR
PERIMETER FRAME TO REMAIN C10x3x10 GA.

MATERIAL SCHEDULE

PART NO.	DESCRIPTION	MAT'L TO BE TESTED	YIELD POINT	MAT'L GAGE	SECTION	LENGTH	REMARKS
F1	SIDE BEAM	YES	33KSI	10go.	C10 x 3		
F2	END BEAM	YES	33KSI	10go.	C10 x 3		
F3	INTER. BM.	YES	33KSI		M8 X 6.5		
F4	JOIST	YES	33KSI	12go.	C 6x3		
F5	COL. CONN	YES	36KSI	3/8"	L 4" x 4"		
F6	AXLE ANG.	YES	36KSI	1/4"	L 3"x3"		
F7	BRACE	YES	36KSI	3/16"	L 1.5"x1.5"		
F8	BLOCKING	YES	33KSI	1/4"	L 3"x3"		

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-117736 INC.
REVIEWED FOR
SS FLS ACS
DATE: 02/13/2020

designed by
P.O. BOX 367
Patterson, California
95363
(209) 892-6298

Approval: Engineering Consultant

Approval: Architect

mangini associates
ARCHITECTURE • PLANNING • INTERIORS
810 W. ACEQUIA ST. • VISALIA, CA • 93291
(559) 637-0320

Approval: Structural Safety

Approval: Fire Marshal

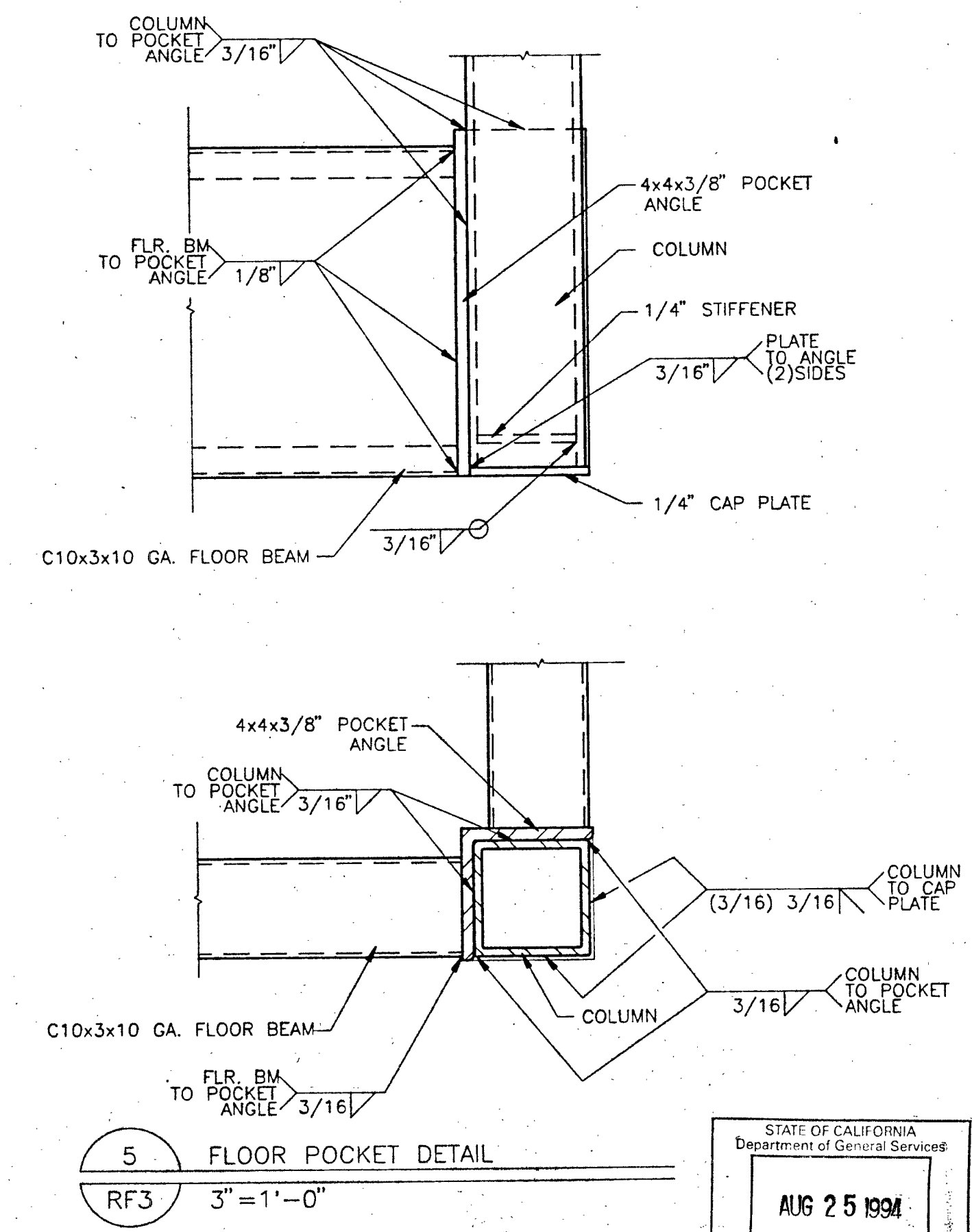
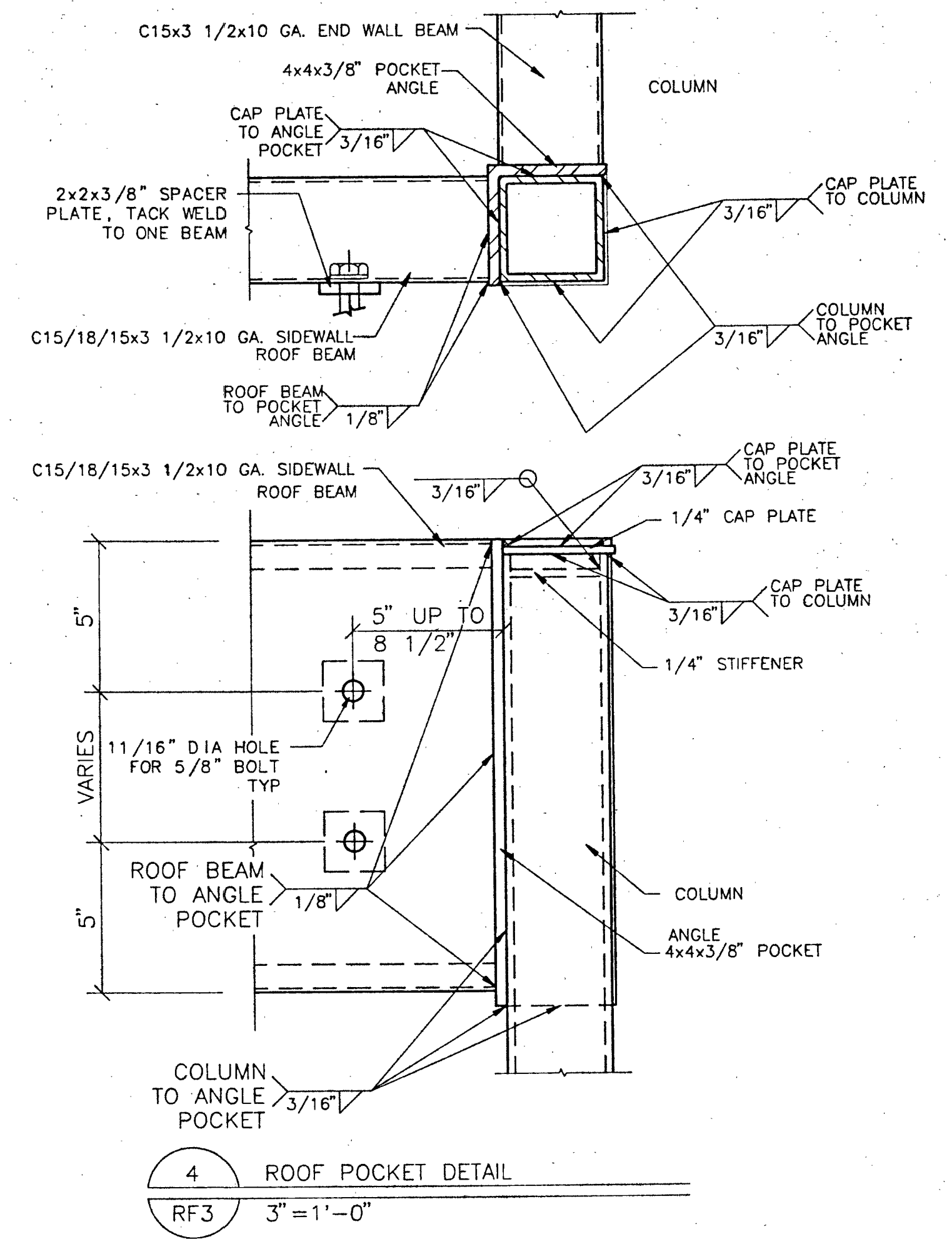
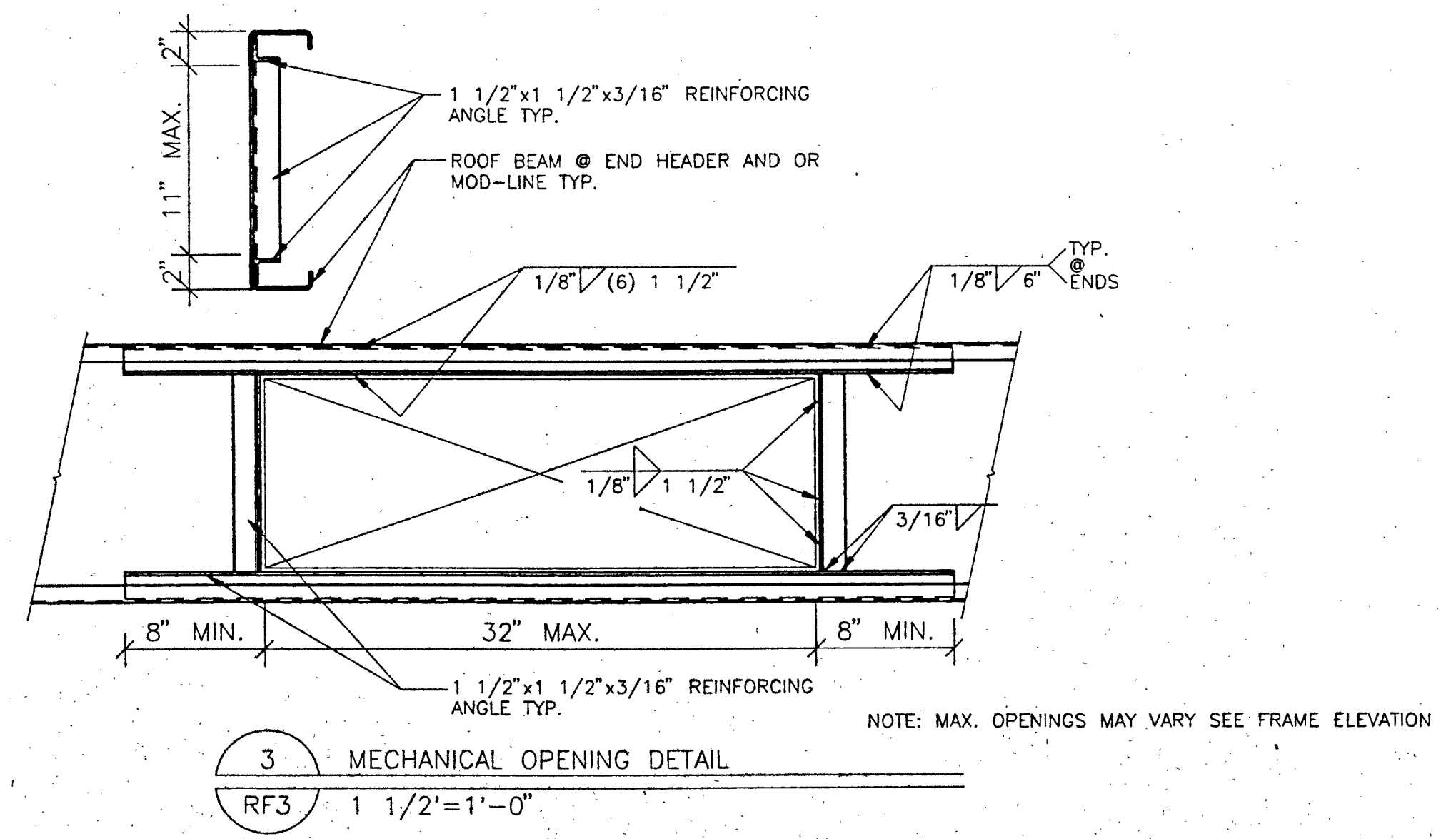
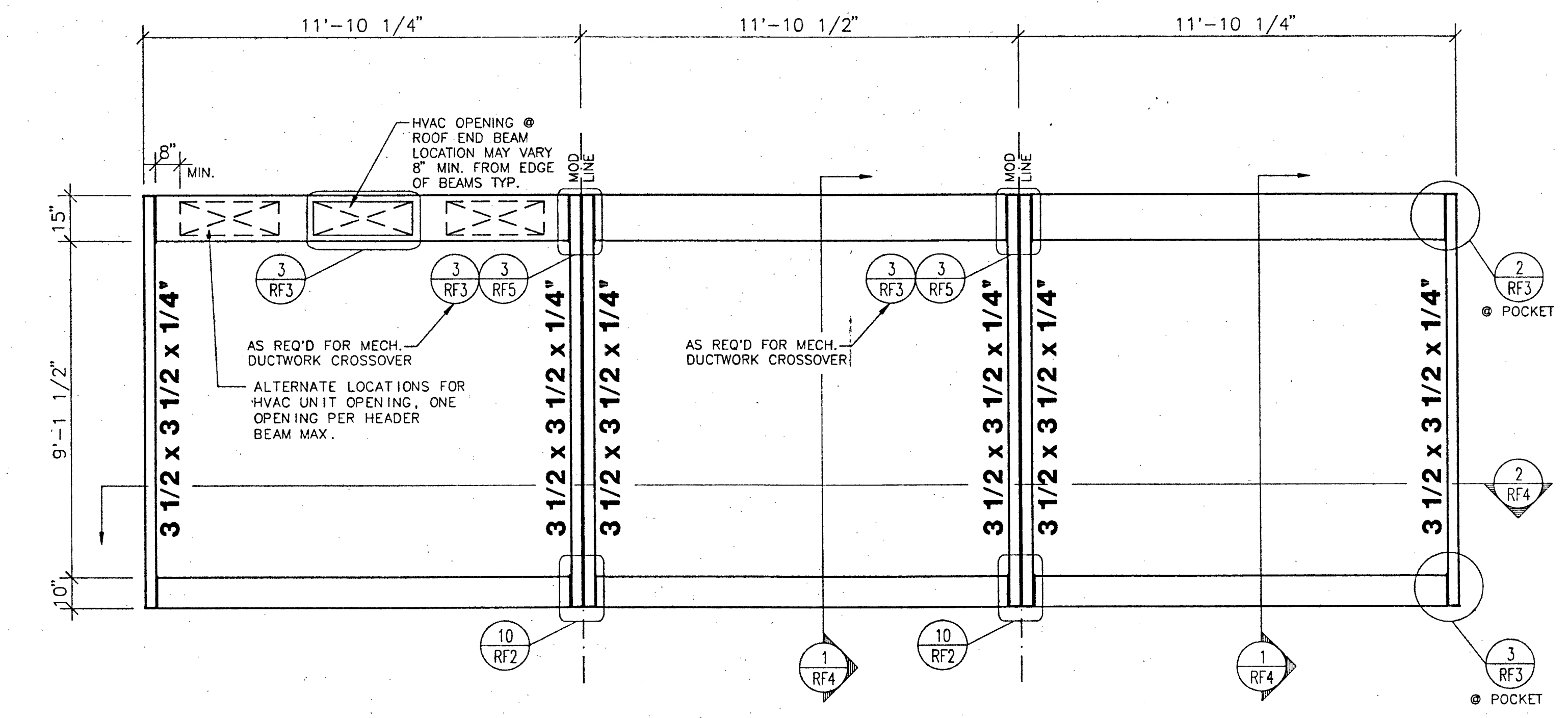
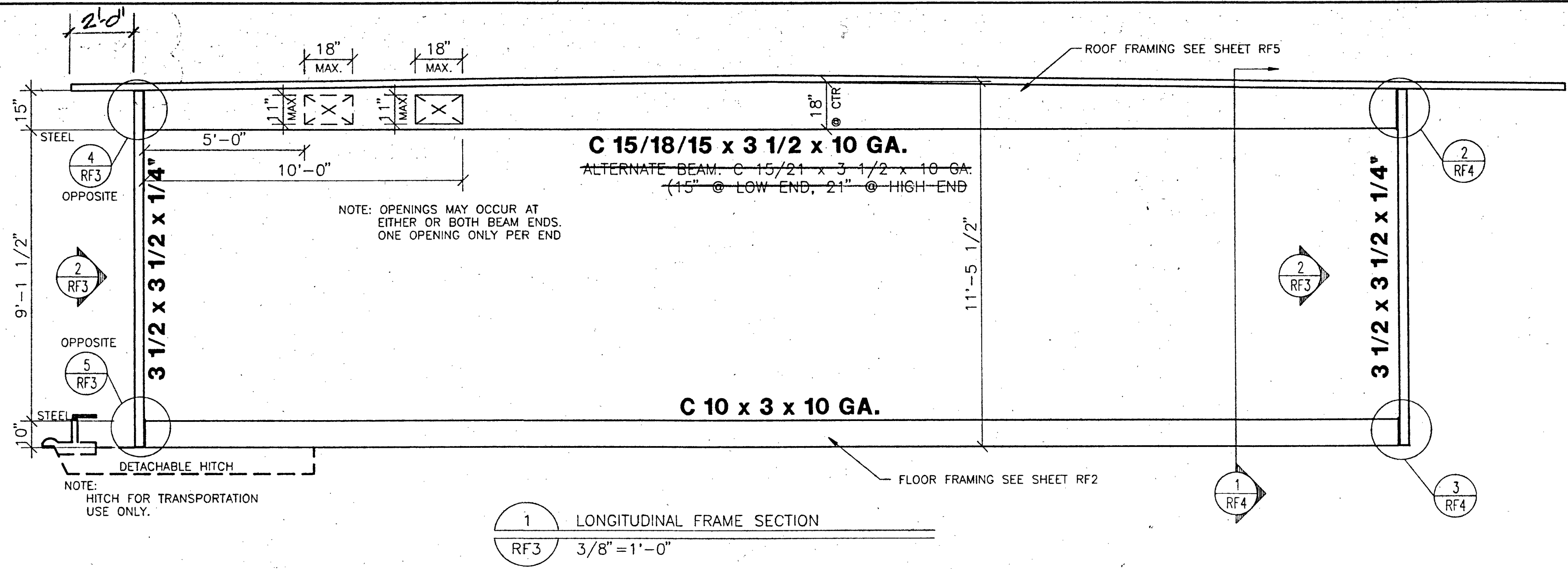
Approval: Access Compliance

80 MPH EXP 'C' / 20 PSF UNREduced
DMSI-1993
36x40 RELOCATABLE BUILDING

PORTERVILLE PUBLIC SCHOOL DISTRICT
PORTERVILLE, CA
DATE: 7/26/94 JOB: 3323
Sheet Title:
ALTERNATE FLOOR FRAMING PLANS

Drawn: J.F./WS
Date: 9/20/93
Scale: NOTED
Job:
Sheet
RF2.1
Of Sheet

STATE OF CALIFORNIA
Department of General Services
AUG 25 1994
Division of the State Architect
Regulation Services-Sacto.



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-117736 INC.
REVIEWED FOR
SS FLS ACS
DATE: 02/13/2020

Approval: Engineering Consultant

Approval: Architect

magini associates
ARCHITECTURE • PLANNING • INTERIORS
810 W. ACEQUIA ST. • VISALIA, CA • 93231
(209) 627-0530 FAX 627-1026

Approval: Structural Safety
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
RF3
AC FLS SS
DATE: 10-19-93 (SE)

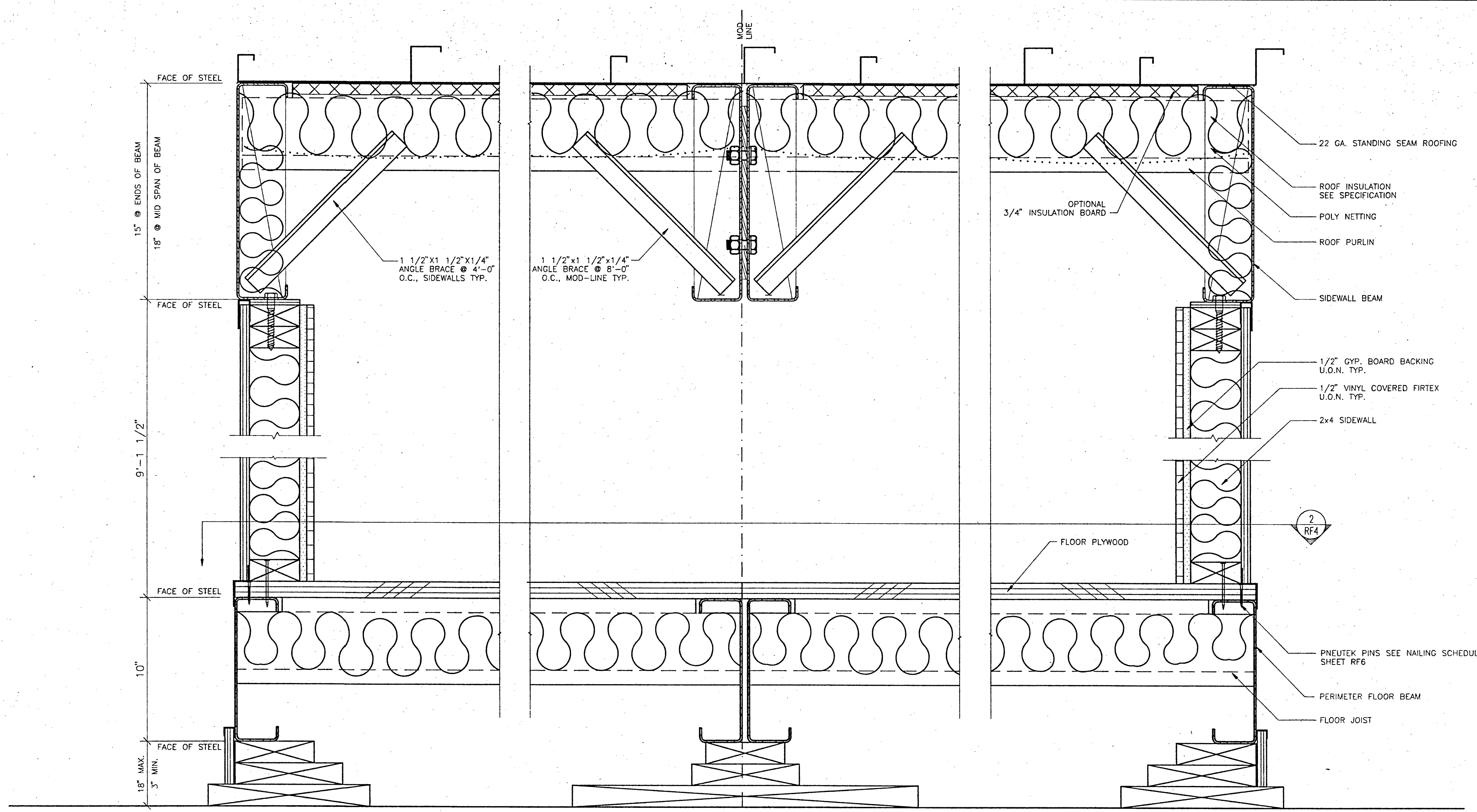
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DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL 6 2159
AC FLS SS
DATE: 8/24/98

Approval: Access Compliance

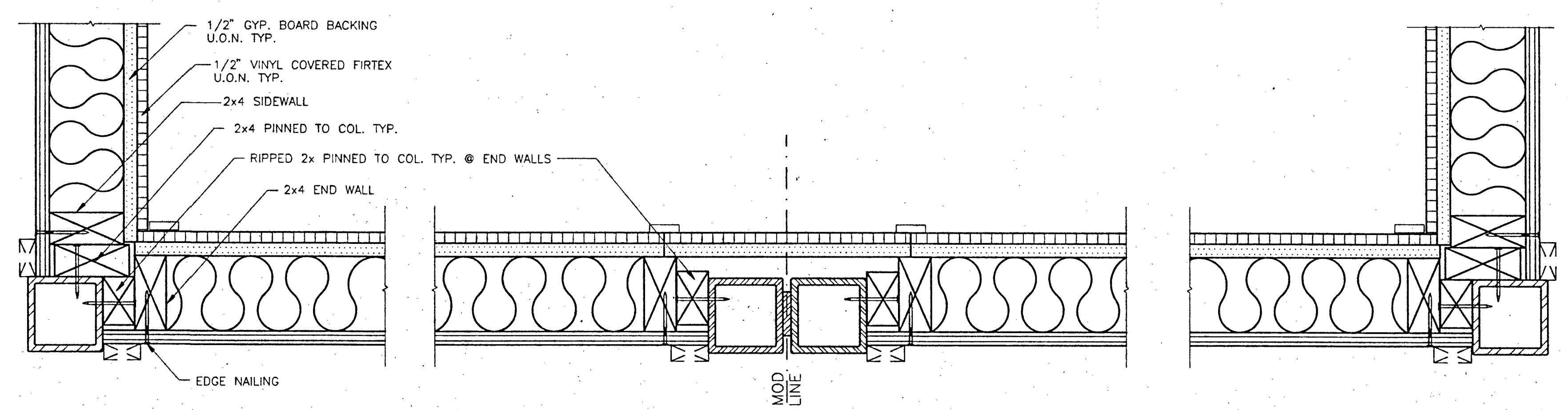
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DMSI-1993
36x40 RELOCATABLE BUILDING
PORTERVILLE PUBLIC SCHOOL DISTRICT
PORTERVILLE, CA
DATE: 7/26/94 JOB: 3323
Sheet Title:
FRAME ELEVATIONS & COLUMN POCKET DETAILS

Drawn: J.F./WS
Date: 9/20/93
Scale: NOTED
Job:
Sheet
RF3
Of Sheet

STATE OF CALIFORNIA
Department of General Services
AUG 25 1994
Division of the State Architect
Regulation Services-Seattle



1 TRANSVERSE BUILDING SECTION
RF4 3" = 1'-0"



2 BUILDING SECTION
RF4 3" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-117736 INC.
REVIEWED FOR
SS FLS ACS
DATE: 02/13/2020

designed by
P.O. BOX 367
Patterson, California
95363
(209) 892-6298

Approval: Engineering Consultant

Professional Engineer Seal
No. 3277
DATE: 02/13/2020

Approval: Architect

Professional Architect Seal
No. C 10146
No. 42095
STATE OF CALIFORNIA
mangini associates
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810 W. ACACUA ST. • VISALIA, CA • 93281
(209) 627-0530 FAX 627-1926

Approval: Structural Safety

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
AC FLS SS
DATE 10-19-93/62

Approval: Fire Marshal

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APFL 6 21 5 9
AC FLS SS
DATE 8/2/99

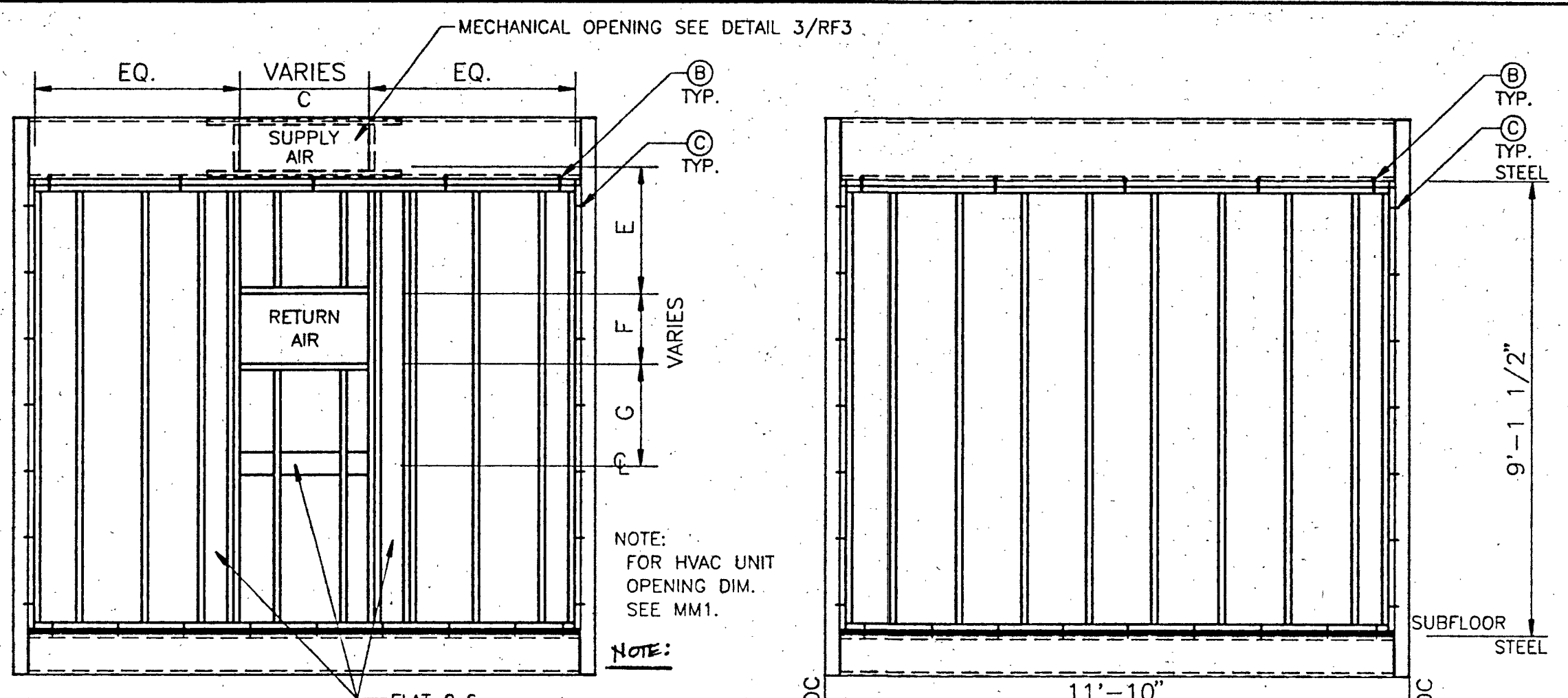
Approval: Access Compliance

80 MPH EXP. W. / 20 PSF UNREDUCED
DMSI-1993
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PORTERVILLE PUBLIC SCHOOL DISTRICT
PORTERVILLE, CA DATE: 7/26/04 JOB: 3323
Sheet Title: BUILDING SECTION

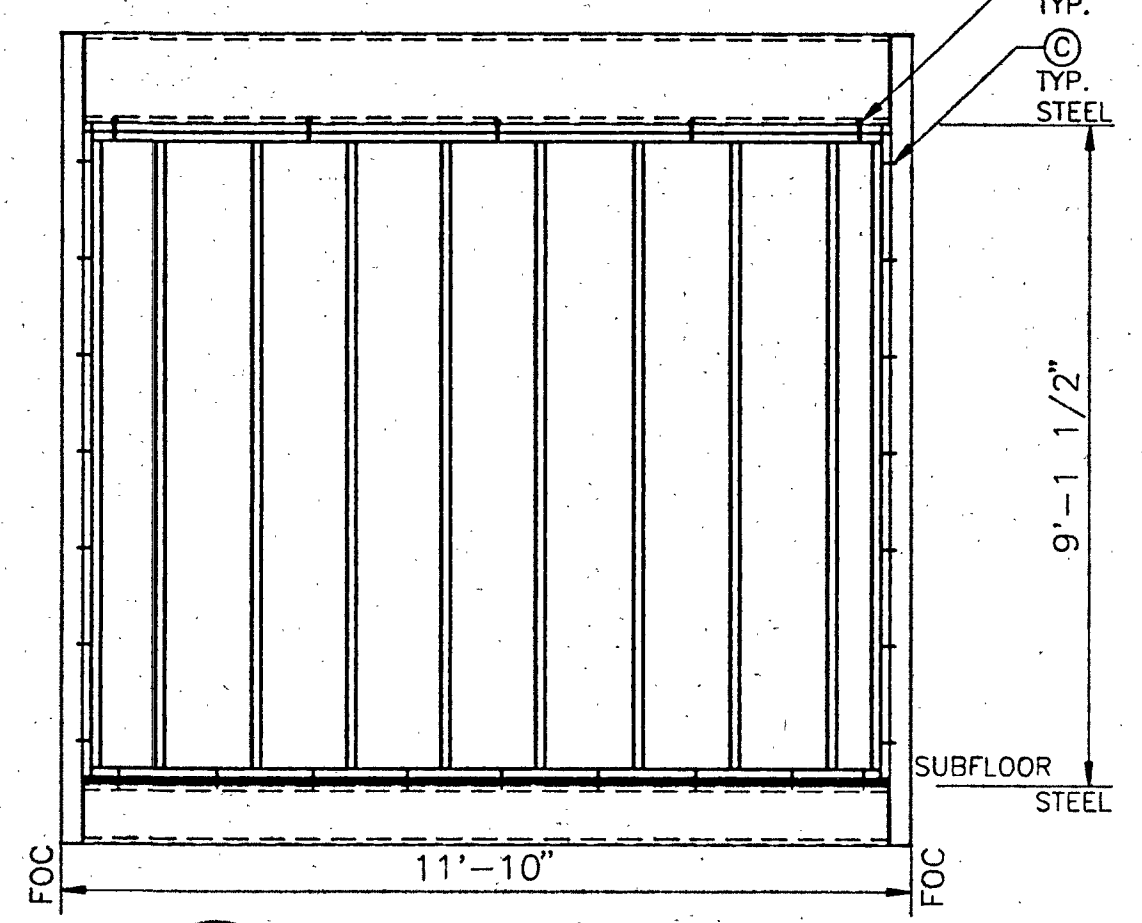
Drawn: J.F./WS
Date: 9/20/93
Scale: NOTED
Job:
Sheet
RF4
Of Sheet

STATE OF CALIFORNIA
Department of General Services
AUG 25 1994
Division of the State Architect
Regulation Services Section

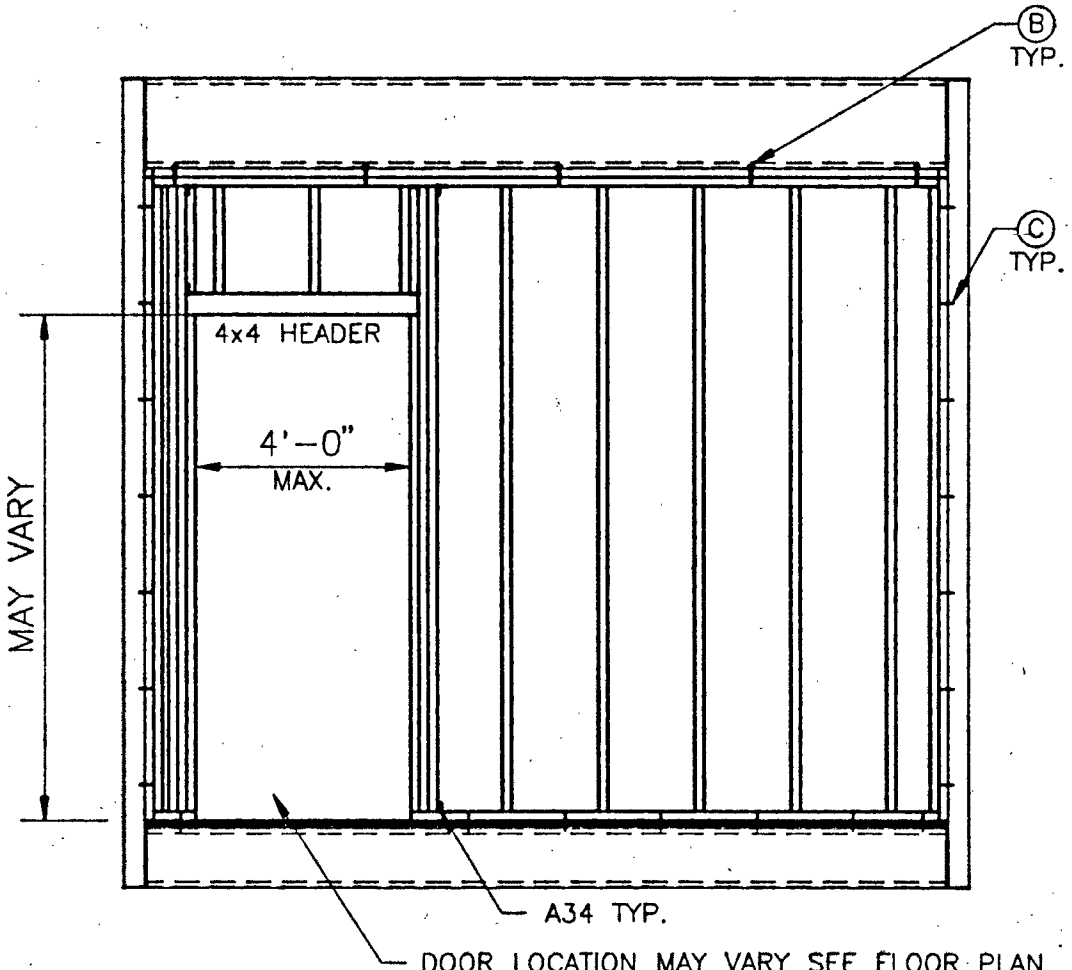
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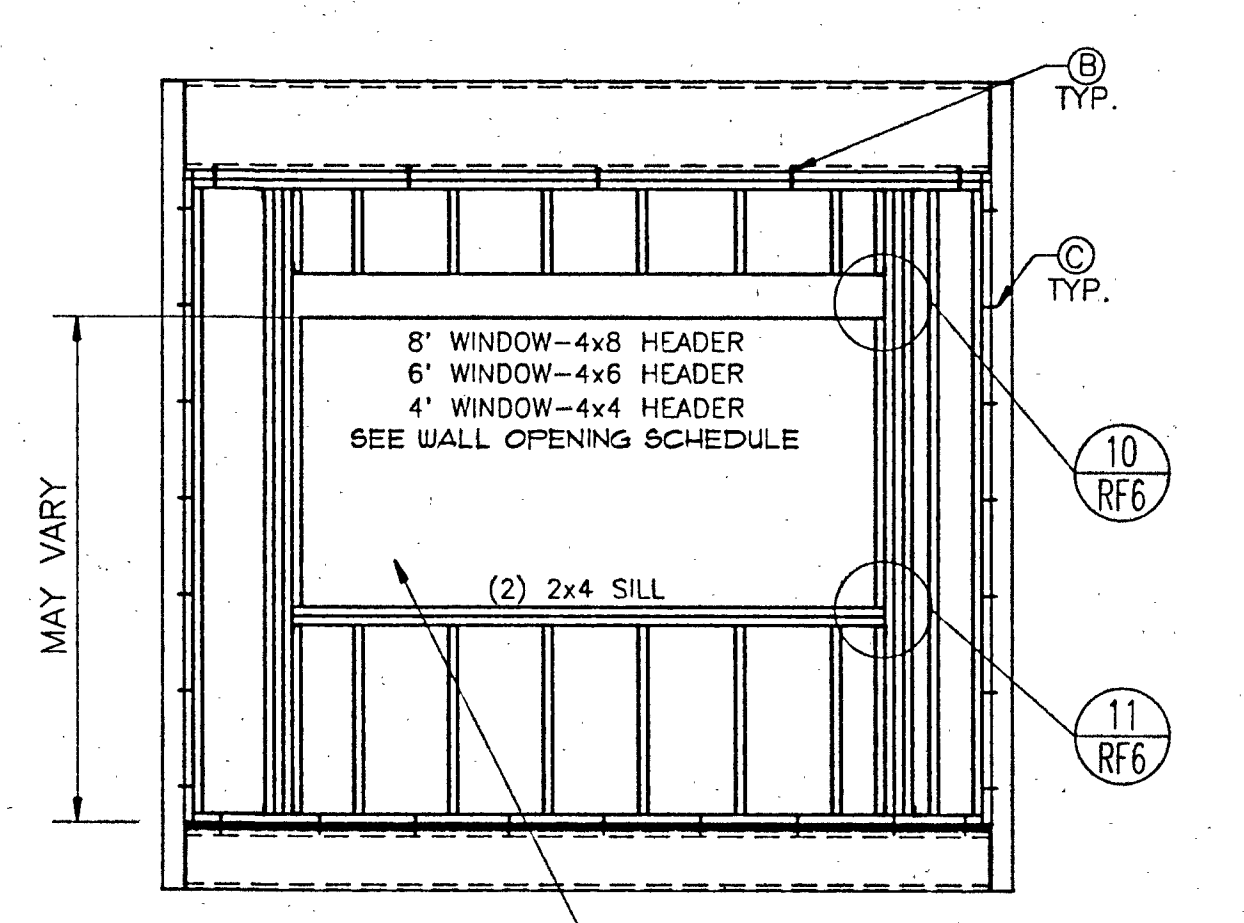
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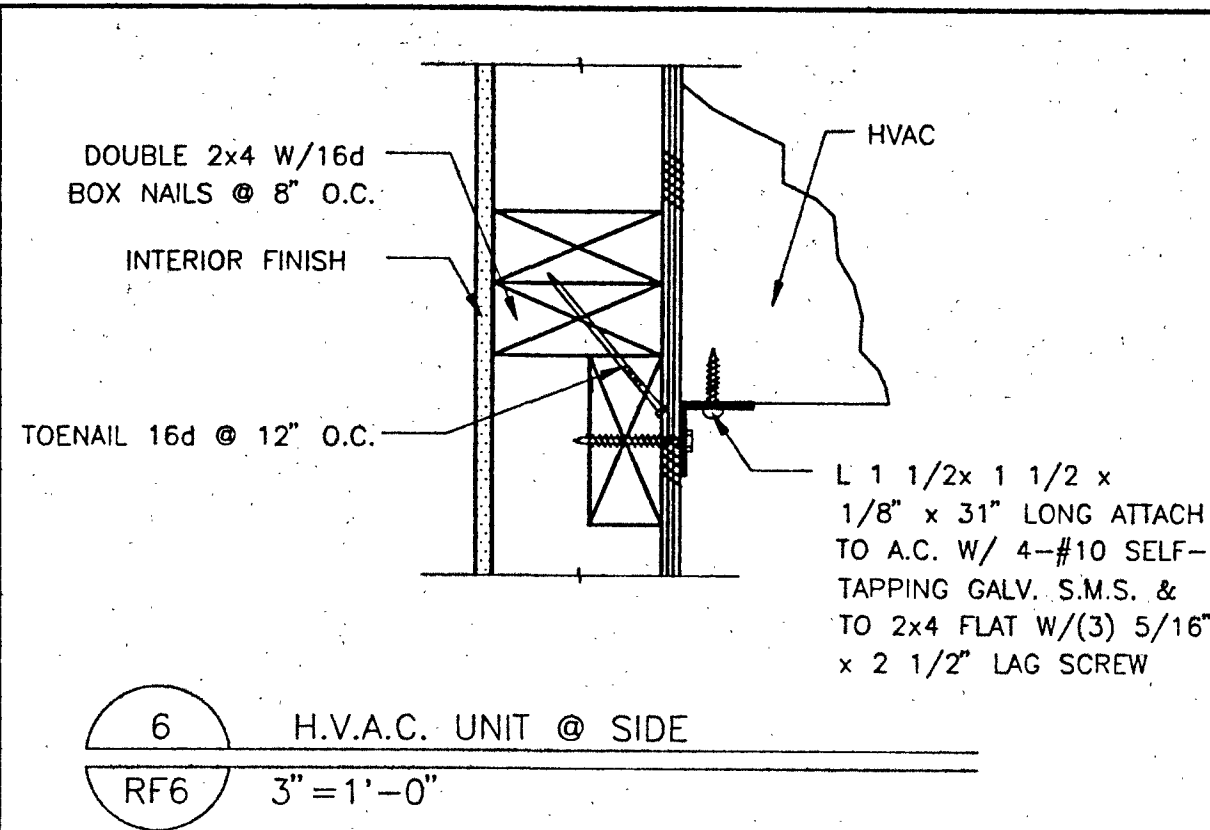
2 TYP. END WALL FRAMING
RF6 3/8" = 1'-0"



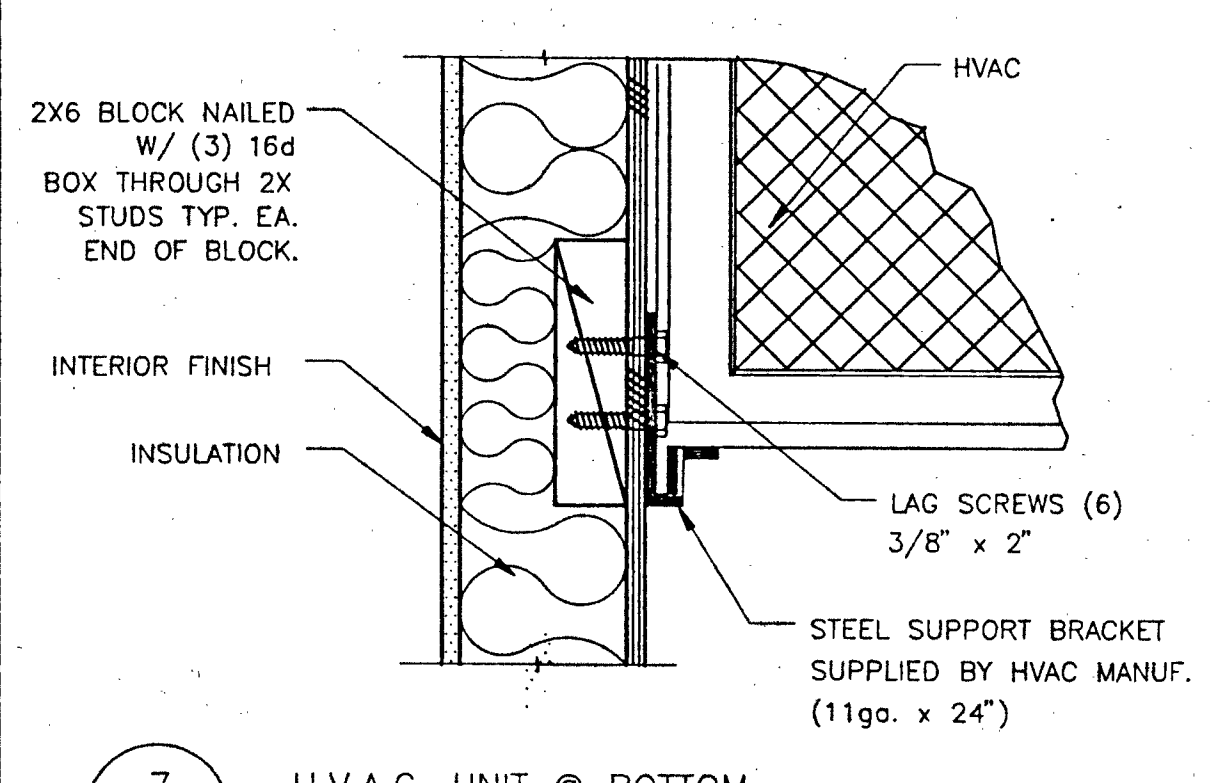
3 TYP. DOOR WALL FRAMING
RF6 3/8" = 1'-0"



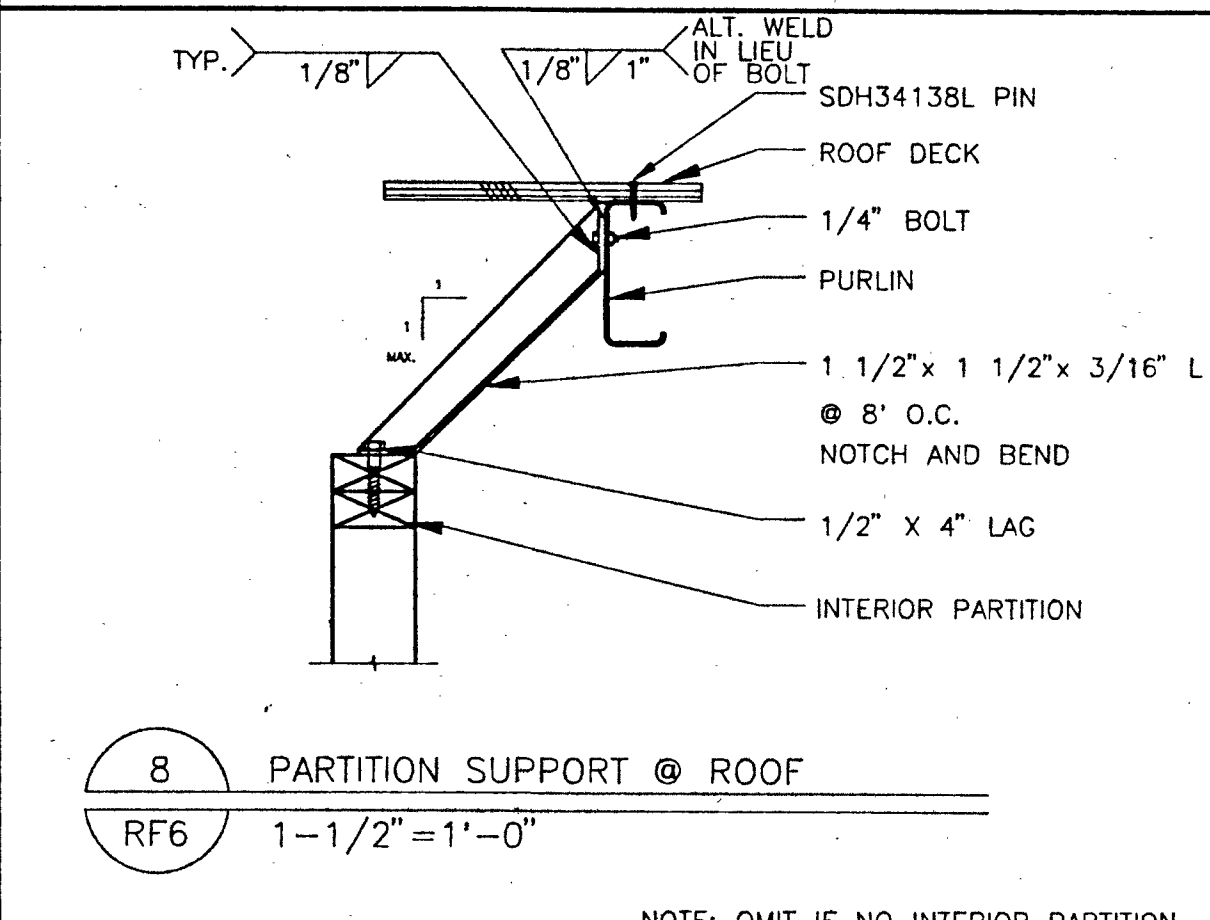
4 TYP. WINDOW WALL FRAMING
RF6 3/8" = 1'-0"



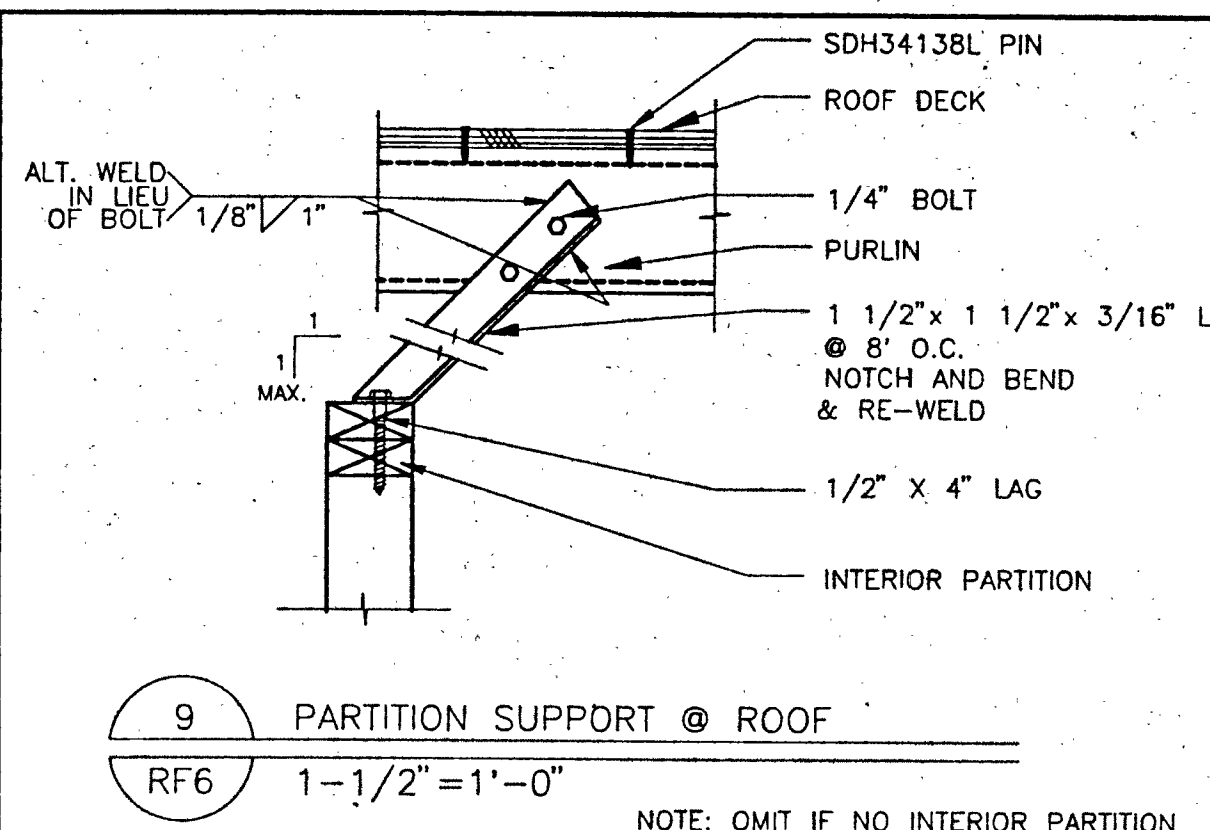
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RF6 3" = 1'-0"



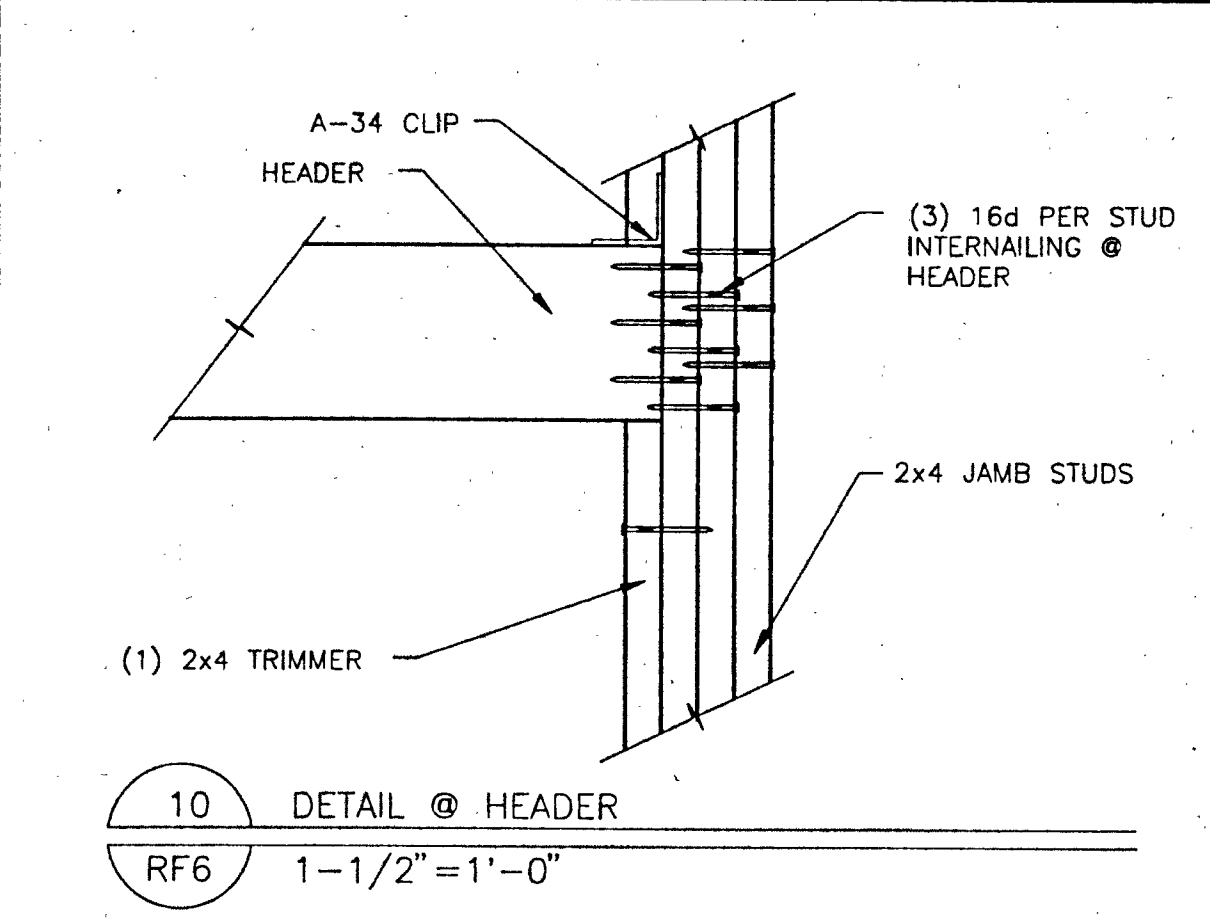
7 H.V.A.C. UNIT @ BOTTOM
RF6 3" = 1'-0"



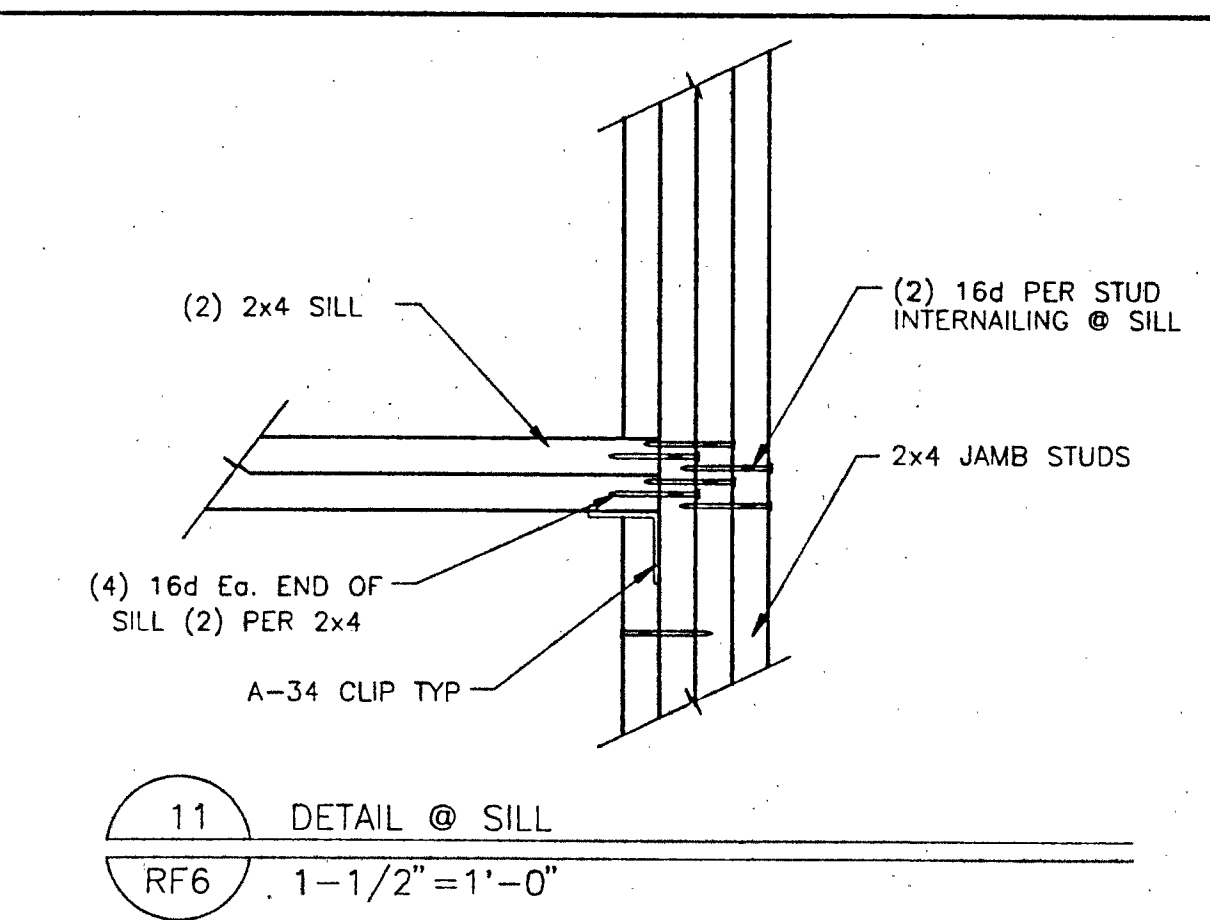
8 PARTITION SUPPORT @ ROOF
RF6 1-1/2" = 1'-0"



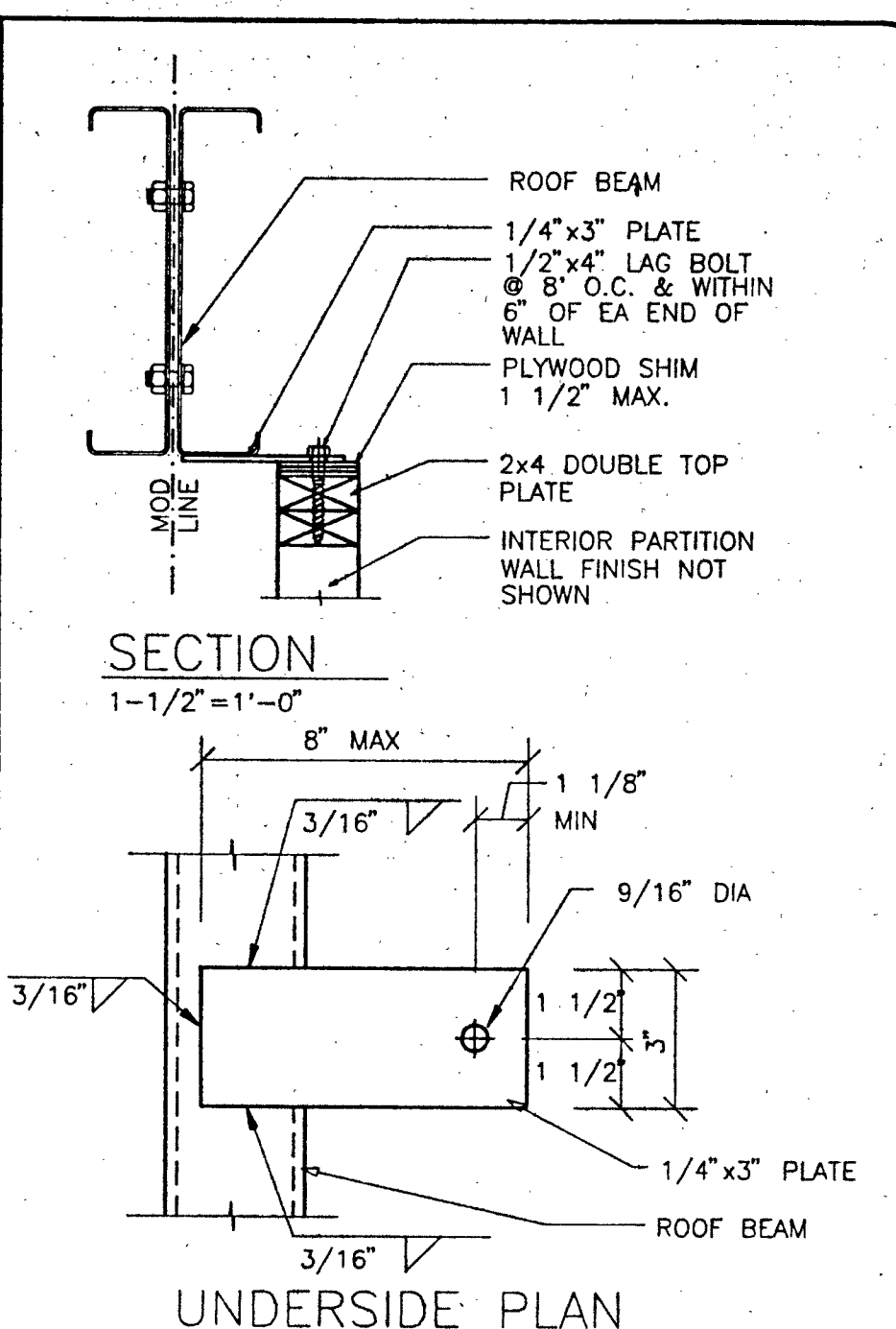
9 PARTITION SUPPORT @ ROOF
RF6 1-1/2" = 1'-0"



10 DETAIL @ HEADER
RF6 1-1/2" = 1'-0"



11 DETAIL @ SILL
RF6 1-1/2" = 1'-0"



13 CONNECTION @ INTERIOR PARTITION
RF6 3" = 1'-0"

WALL OPENING SCHEDULE

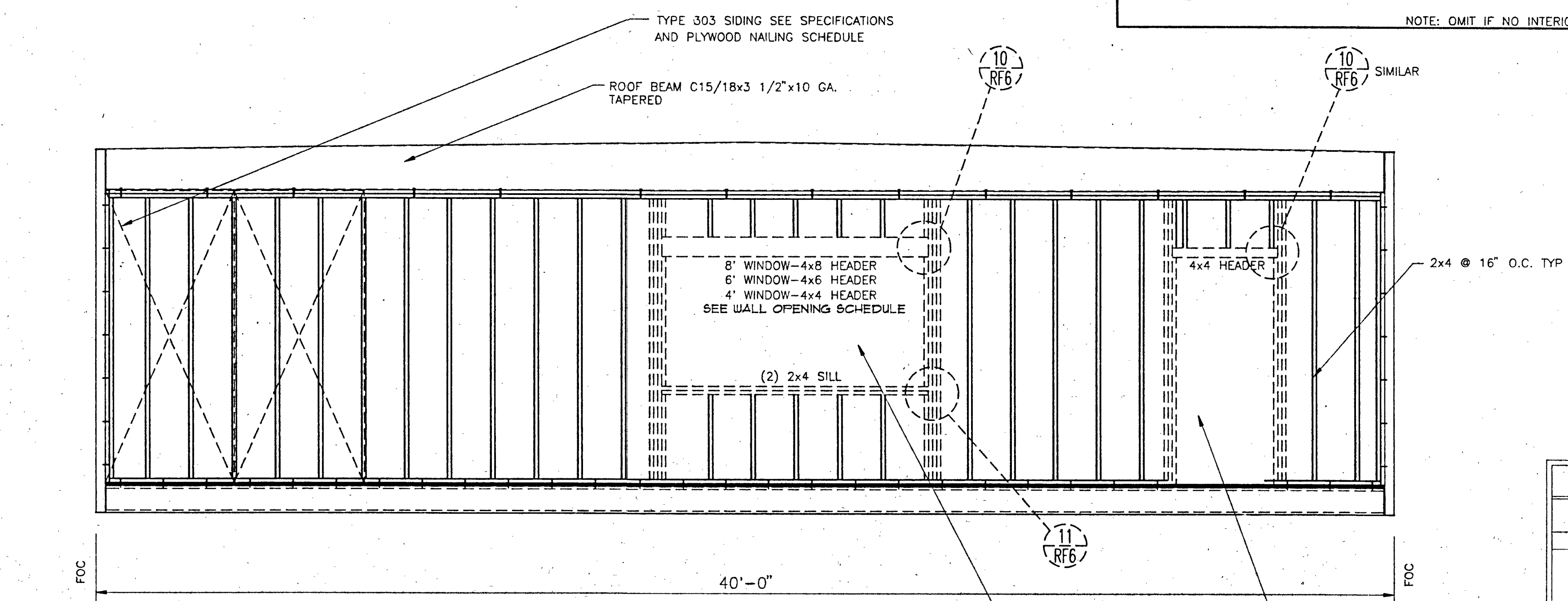
4'-0" DOOR OR WINDOW OPENING

- (1) 4x4 DF #2 HEADER
- (2) 2x4 DF #2 FULL HT JAMB STUDS EA. SIDE OF OPENING
- (1) 2x4 DF #2 TRIMMER EA. SIDE OF OPENING

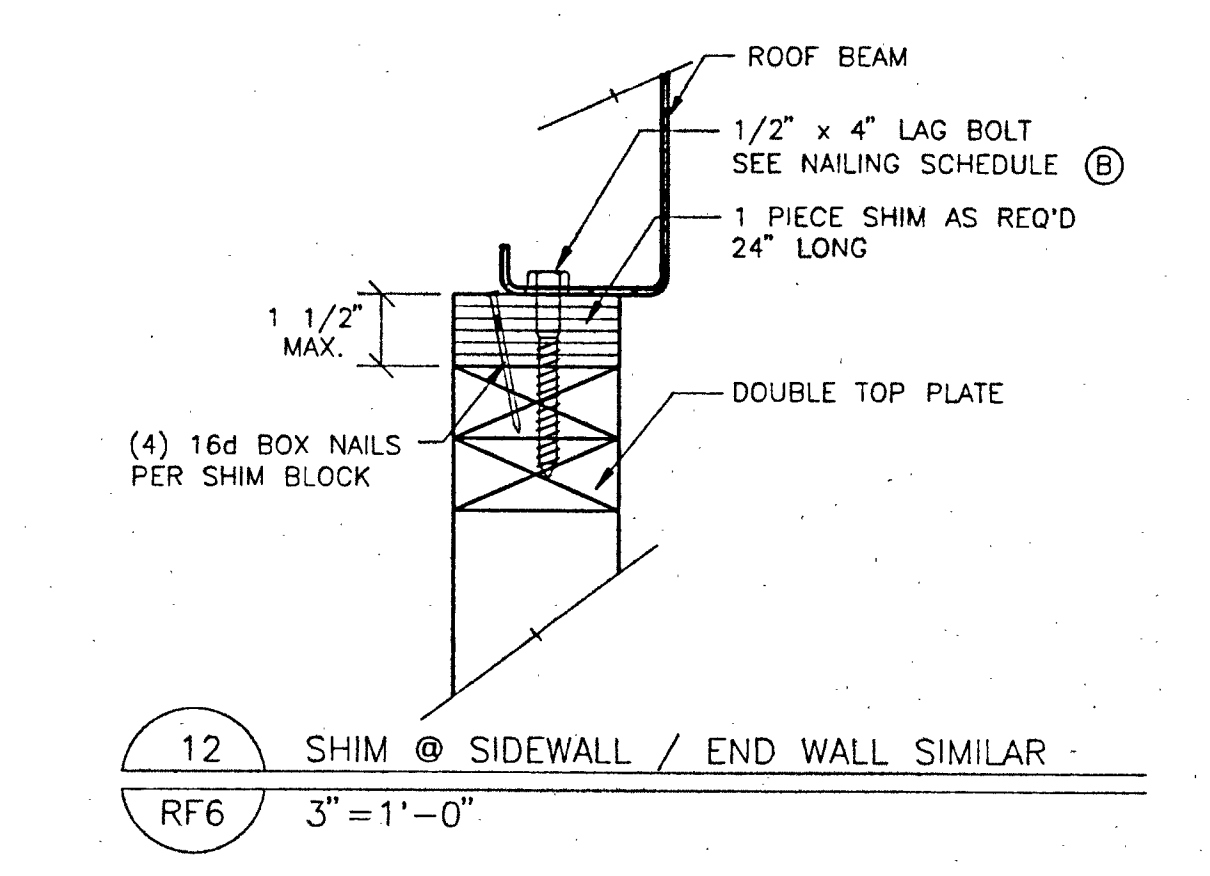
4'-0" TO 8'-0" DOOR OR WINDOW OPENING

- (1) 4x6 DF #2 HEADER
- (3) 2x4 DF #2 FULL HT JAMB STUDS EA. SIDE OF OPENING
- (1) 2x4 DF #2 TRIMMER EA. SIDE OF OPENING

SEE WALL FRAMING DETAILS FOR CONFIGURATION



5 TYPICAL SIDE WALL ELEVATION
RF6 3/8" = 1'-0"



12 SHIM @ SIDEWALL / END WALL SIMILAR
RF6 3" = 1'-0"

PLYWOOD NAILING SCHEDULE

ITEM	FASTENER	SPACING
END WALLS		
5/8" TYPE 303 SIDING	8d BOX GALV.	6" O.C. EDGES 12" O.C. FIELD
SIDE WALLS		
5/8" TYPE 303 SIDING	8d BOX GALV.	6" O.C. EDGES 12" O.C. FIELD

NAILING SCHEDULE

NO.	MATERIAL	FASTEN TO	FASTENER	SPACING
(A)	SILL PLATE	C 10x3	PNEUTEK SD34325	16" O.C.
(B)	ROOF BEAM	DOUBLE PLATE	1/2"x4" LAG SCREW	2'-8" O.C.
(C)	2x4 STUD	COL.	PNEUTEK 34250	16" O.C.
(D)				

*NOTE: PROVIDE SHOT PIN WITHIN 9" OF ENDS OF SILL PLATE & ENDS OF SPLICES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 02-117736 INC.
REVIEWED FOR
SS FLS ACS
DATE: 02/13/2020

designed mobile systems industries, inc.
P.O. BOX 367
Patterson, California 95363
(209) 892-6298

Approval: Engineering Consultant

Professional Seal: RICHARD HENRY MANGINI, ARCHITECT, No. 3879, State of California, License No. C-10146, Exp. 09/30/2006

Approval: Architect

Professional Seal: RICHARD HENRY MANGINI, ARCHITECT, No. 3879, State of California, License No. C-10146, Exp. 09/30/2006

mangini associates
ARCHITECTURE • PLANNING • INTERIORS
810 W. ACEQUILA ST. • VISALIA, CA • 93291
(209) 627-0535

Approval: Structural Safety

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
Perzillo
AC FLS SS
DATE: 10-19-93 (SP)

Approval: Fire Marshal

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL 62159
AC FLS SS
DATE: 8/24/94

Approval: Compliance

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL 62159
AC FLS SS
DATE: 8/24/94

80 MPH EXP 'C' / 20 PSF UNREDUCED
DMSI-1993

36x40 RELOCATABLE BUILDING

STATE OF CALIFORNIA
Department of General Services
AUG 25 1994
Division of the State Architect
Regulation Services Secto.

PORTERVILLE PUBLIC SCHOOL DISTRICT
PORTERVILLE, CA. DATE: 7/28/91 JOB: 3323

Sheet Title: WALL FRAMING ELEVATIONS & DETAILS

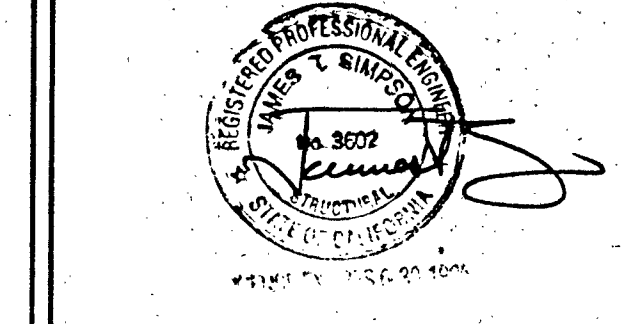
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Date: 9/20/93
Scale: NOTED
Job:
Sheet
RF6
Of Sheet

FILE NAME: C36RF6 PLT SF: 1-4

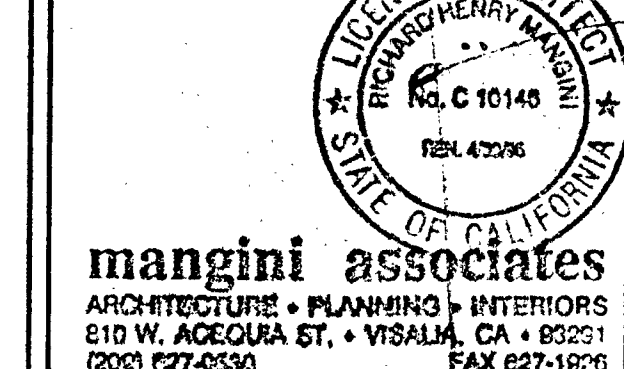
IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP. 02-117736 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 02/13/2020

designed mobile systems industries, inc.
 P.O. BOX 367
 Patterson, California 95363
 (209) 892-6298

Approval: Engineering Consultant



Approval: Architect



Approval: Structural Safety

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES
 AC FLS SS FL
 DATE 10-19-93 (SP)

Approval: Marshal

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES
 APPL 62159
 AC FLS SS FL
 DATE 8/24/94

Approval: Access Compliance

80 MPH EXP. C / 20 PSF UNREDUCED
 DMSI-1993
 36x40 RELOCATABLE BUILDING

PORTERVILLE PUBLIC SCHOOL DISTRICT
 PORTERVILLE, CA
 DATE: 7/26/94 JOB: 3323
 Sheet Title:
 FOUNDATION PLAN

Drawn: J.F./WS

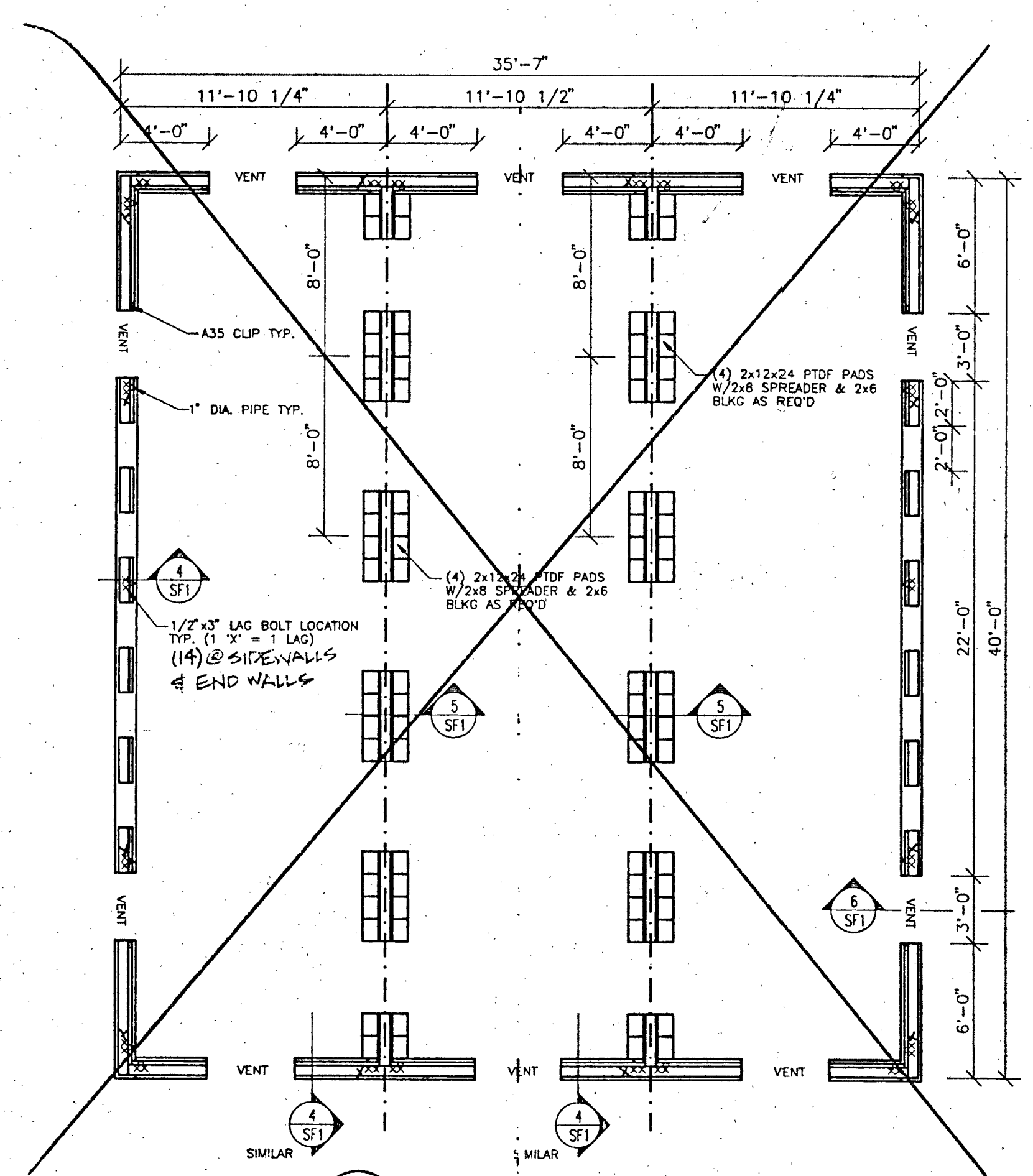
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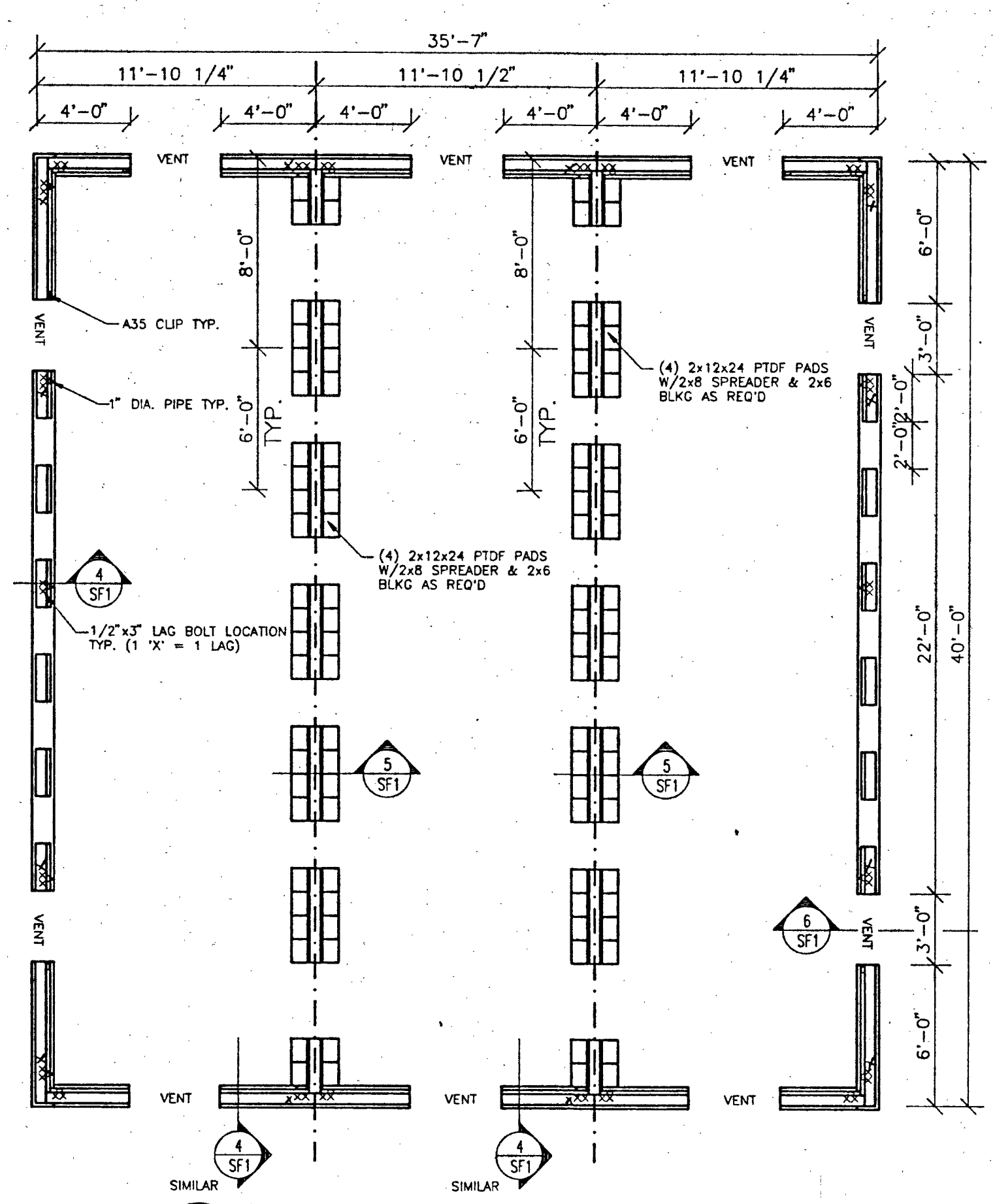
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Sheet
 SF1

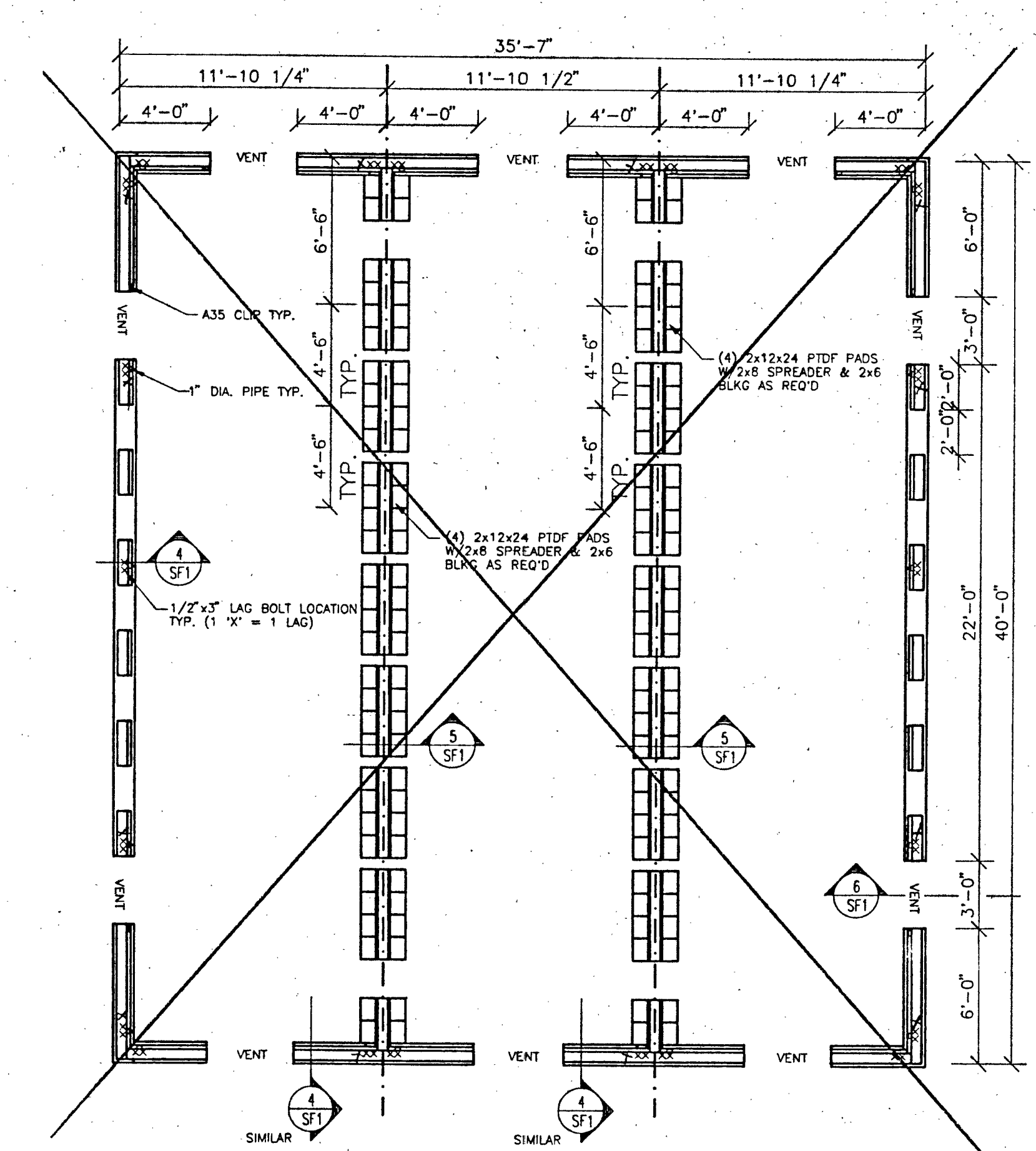
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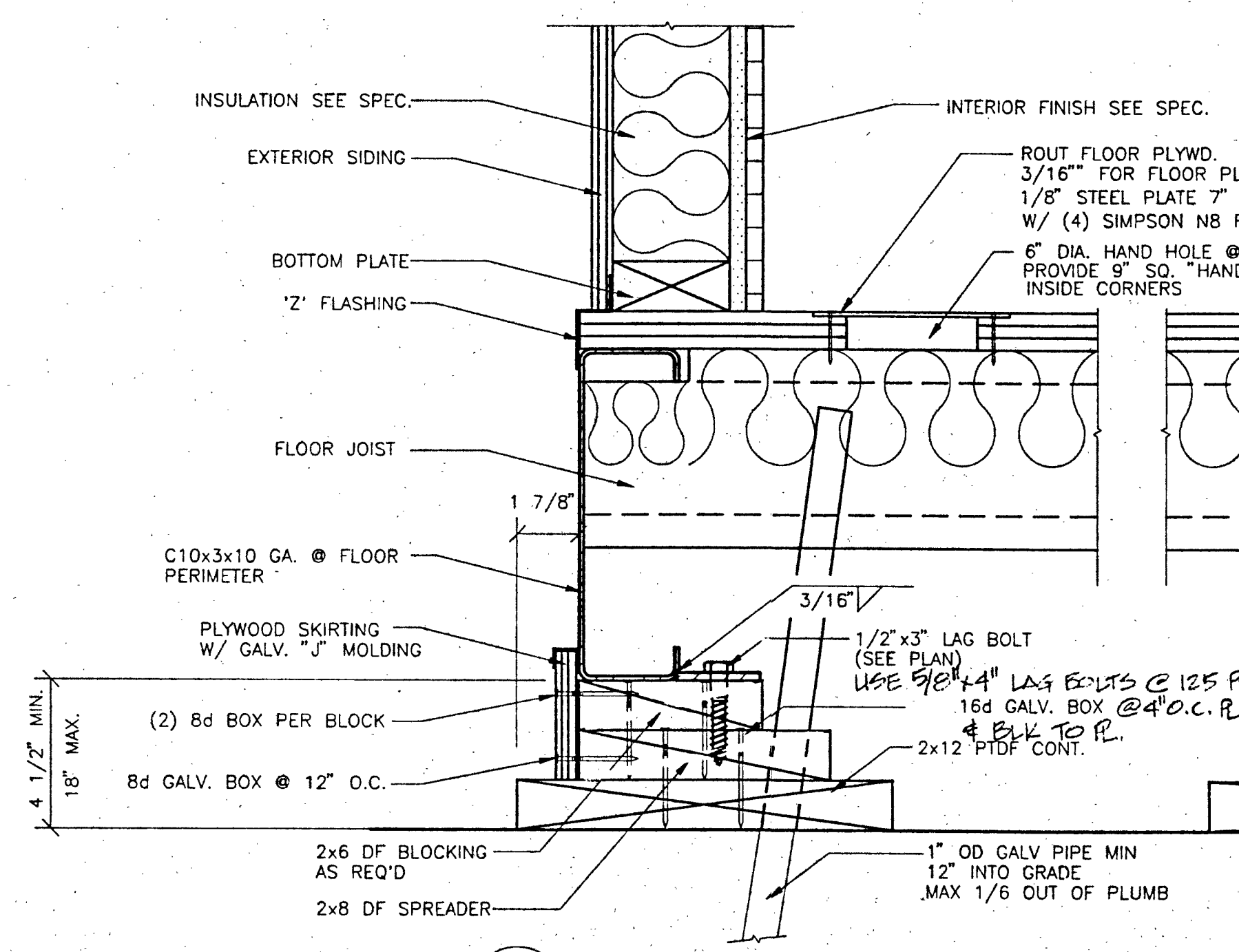
1 FOUNDATION PLAN 50 PSF LIVE LOAD
 SF1 3/16" = 1'-0"



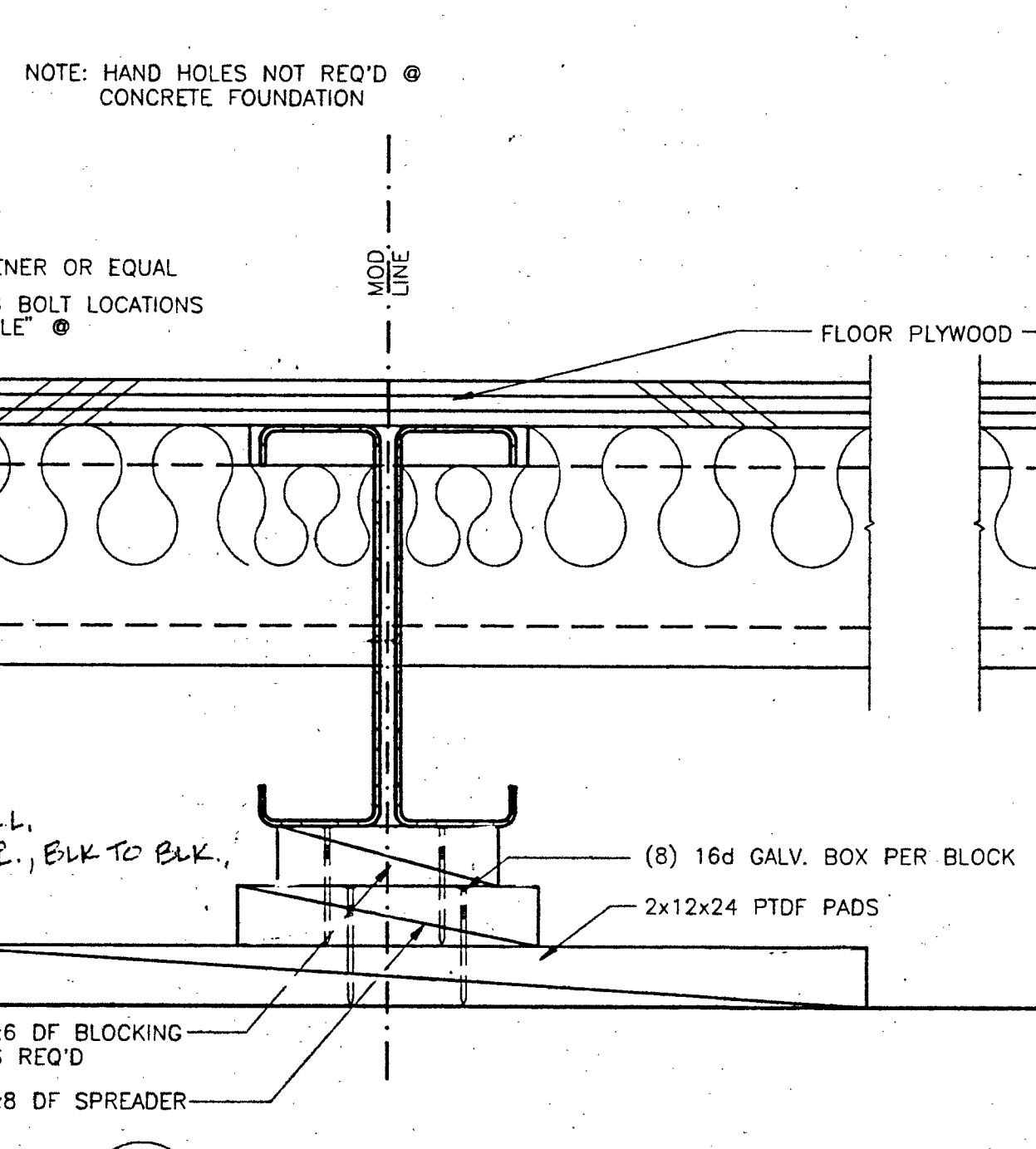
2 FOUNDATION PLAN 50 PSF LL + 20 PSF PARTITION
 SF1 3/16" = 1'-0"



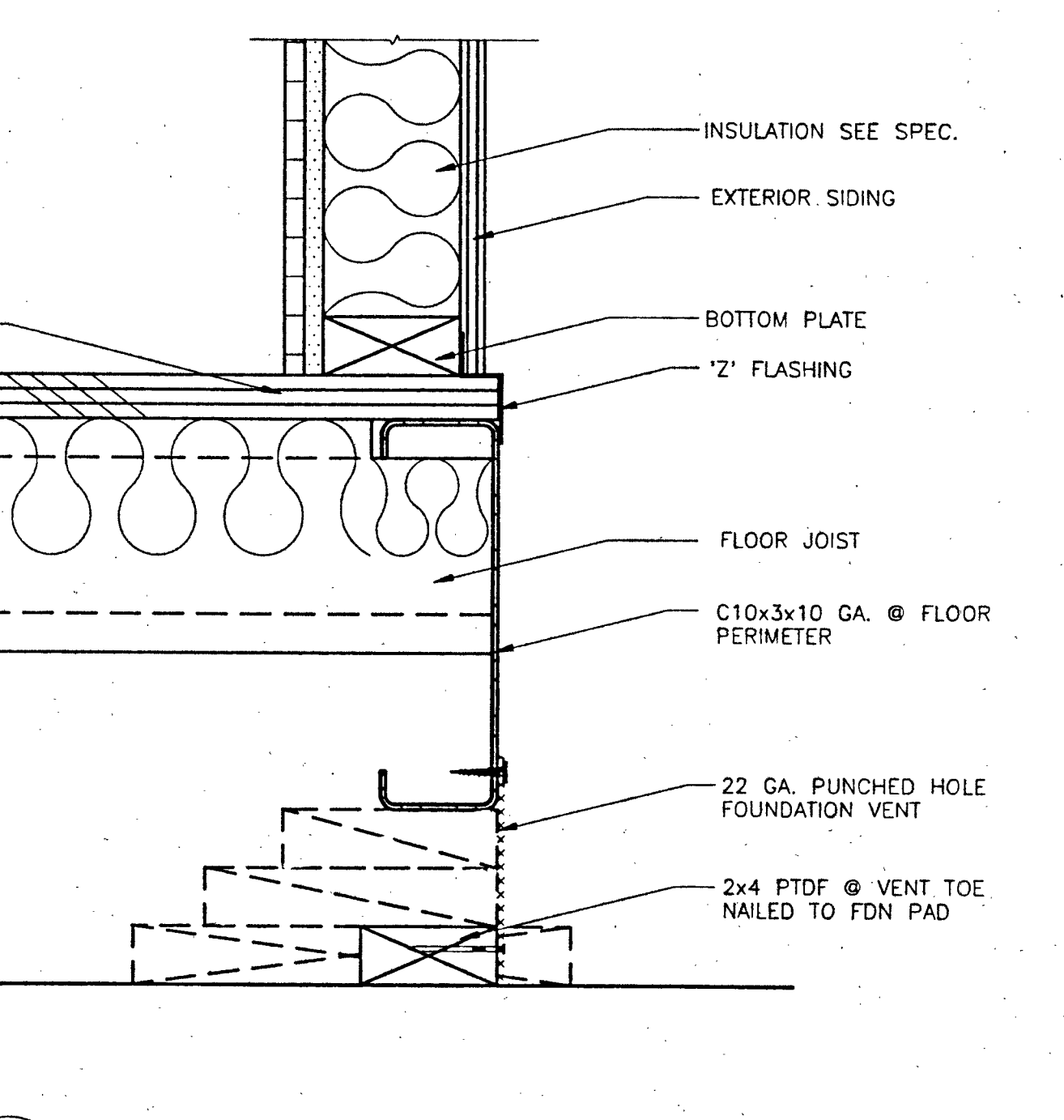
3 FOUNDATION PLAN 100 PSF LL
 SF1 3/16" = 1'-0"



4 SECTION @ SIDEWALL (END WALL SIMILAR)
 SF1 3" = 1'-0"



5 SECTION @ MOD-LINE
 SF1 3" = 1'-0"



6 SECTION @ VENT
 SF1 3" = 1'-0"

- TYPICAL VENT CALCULATION -
 FLOOR AREA = 36'x40' = 1440 Sq Ft
 VENT AREA REQ'D = 1440 Sq Ft / 150 = 9.6 Sq Ft
 CROSS VENT AREA @ MOD LINE = 2.6 Sq Ft = 4.8 Sq Ft
 AREA PROVIDED @ EXTERIOR = 9.6 Sq Ft MIN.
 AREA PROVIDED @ MOD LINE = 4.8 Sq Ft MIN.

STATE OF CALIFORNIA
 Department of General Services
 AUG 25 1994
 Division of the State Architect
 Regulation Services-Sacto

FILE NAME: C36SF1 PLT SF: 1=64