

ABB.	DESCRIPTION	SYMBOL
WM	WALL MOUNTED UNIT (SEE SCHEDULE THIS SHEET)	WM-1
RM	ROOF MOUNTED UNIT (SEE SCHEDULE THIS SHEET)	RM-1
P.O.C	POINT OF CONNECTION	P.O.C
CO	CARBON MONOXIDE SENSOR	CO
BT	BYPASS TIMER	BT
STAT	THERMOSTAT	T
UC	UNDERCUT DOOR	UC
MVD	MANUAL VOLUME DAMPER	
FD	FIRE DAMPER	
VTR	VENT THRU ROOF	
ER	EXHAUST CEILING REGISTER	
CR	RETURN CEILING REGISTER	
CD	SUPPLY CEILING DIFFUSER	
(L)	LINED DUCTWORK	
EAD	EXHAUST AIR DUCT	
RAD	RETURN AIR DUCT	
SAD	SUPPLY AIR DUCT	
EF	EXHAUST FAN	EF
CO2	CARBON MONOXIDE SENSOR	CO2

1 1" = 1'-0" LEGEND

CEILING MOUNTED EXHAUST FAN

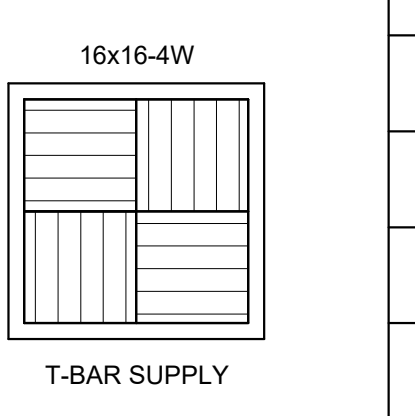
SYM.	USE	MFR/MODEL	CFM	SOUND LEVEL	SP	VOLTS	Ø	POWER	WGT#	NOTES
EF A	BATHROOM EXHAUST	*BROAN L100	109	1.0 SONES	0.25	120	1	87 WATTS	22.80#	WITH BROAN ROOF CAP #634. PROVIDE 6" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH.
EF B	BATHROOM EXHAUST	*BROAN L200	210	2.0 SONES	0.25	120	1	127 WATTS	23#	WITH BROAN ROOF CAP #634. PROVIDE 8" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH.
EF C	BATHROOM EXHAUST	*BROAN L300	308	2.8 SONES	0.25	120	1	212 WATTS	23.10#	WITH BROAN ROOF CAP #634. PROVIDE 8" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH.
EF D	BATHROOM EXHAUST	*BROAN 676	100	4.0 SONES	0.25	120	1	158 WATTS	7#	WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH.

*OR APPROVED EQUAL.

2 1" = 1'-0" CEILING MOUNTED EXHAUST FAN SCHEDULE

PERFORATED FACE GRILLE SCHEDULE (SUPPLY)

NECK SIZE	CFM (RANGE)	NOTES
6"Ø	0-150	SEE DETAIL FOR MAKE AND MODEL
8"Ø	150-230	SEE DETAIL FOR MAKE AND MODEL
10"Ø	230-350	SEE DETAIL FOR MAKE AND MODEL
12"Ø	350-460	SEE DETAIL FOR MAKE AND MODEL
14"Ø	460-640	SEE DETAIL FOR MAKE AND MODEL

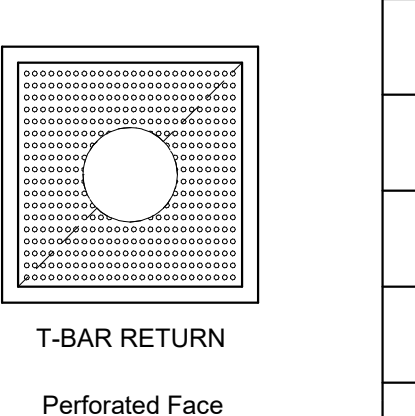


16x16-4W
Fixed Curve Blade, 4-way throw
T-BAR SUPPLY

3 1" = 1'-0" PFG SCHED (SUPPLY)

PERFORATED FACE GRILLE SCHEDULE (RETURN)

NECK SIZE	CFM (RANGE)	NOTES
6"Ø	0-230	SEE MECH CLG PLAN FOR SIZE
10"Ø	230-460	SEE MECH CLG PLAN FOR SIZE
12"Ø	350-460	SEE MECH CLG PLAN FOR SIZE
14"Ø	460-710	SEE MECH CLG PLAN FOR SIZE
16"Ø	277-1664	SEE MECH CLG PLAN FOR SIZE



T-BAR RETURN
Perforated Face
Shoemaker 105P with 24 ga. 45 deg.

4 1" = 1'-0" PFG SCHED (RETURN)

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY 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.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY BY DSA. 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.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3.2 (AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26)

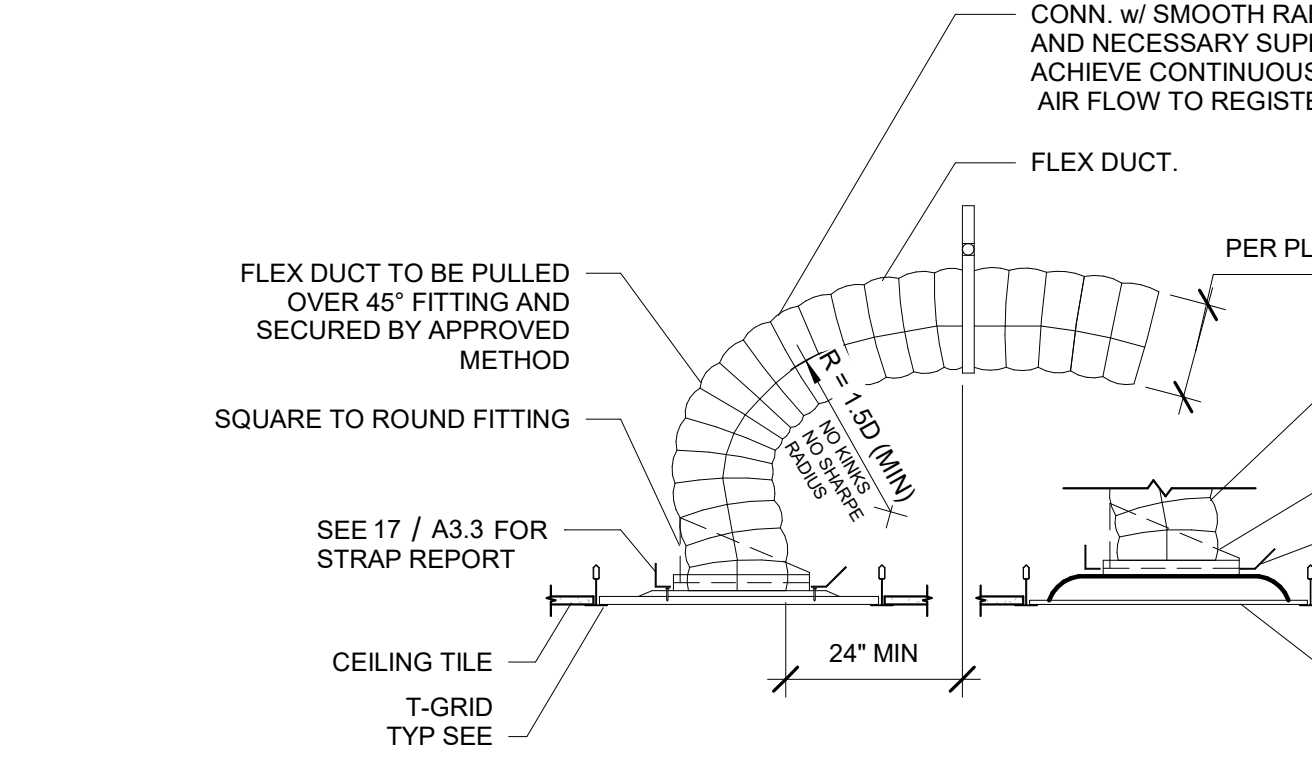
THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE SUBMITTED TO THE PROJECT INSPECTOR 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).

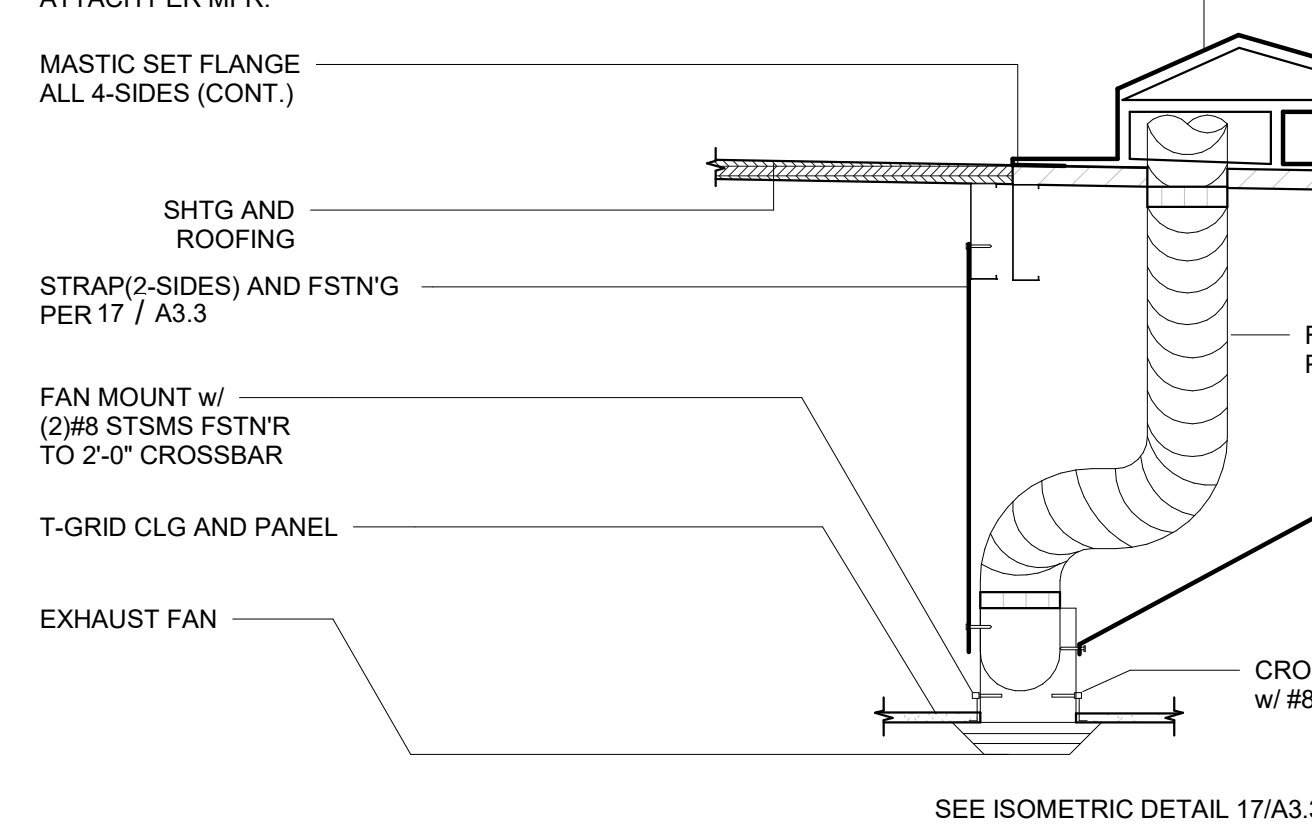
MP, MD, PP, E OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP, MD, PP, E OPTION 2: SHALL COMPLY WITH HCAI PRE-APPROVAL (OPM #) #

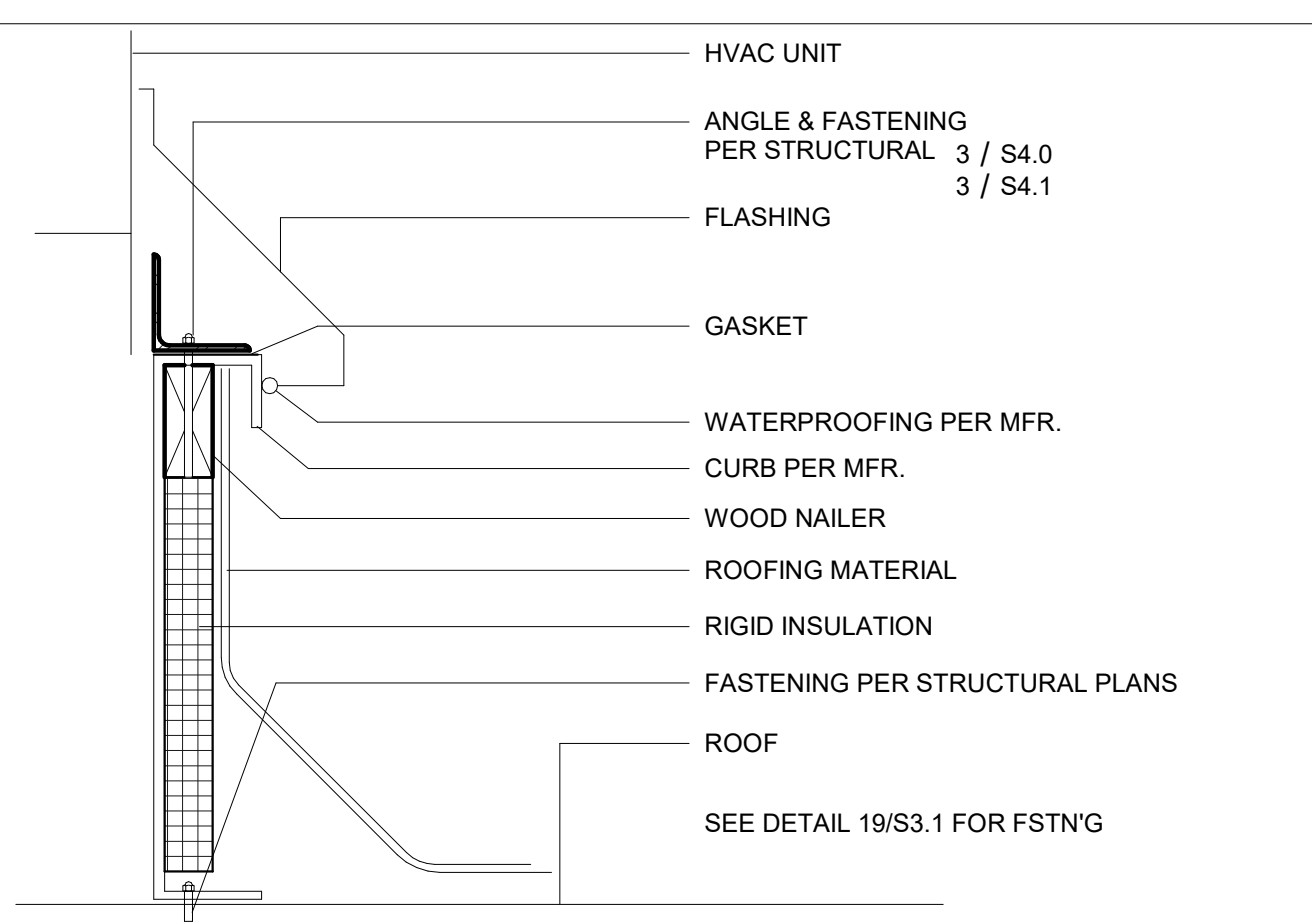
5 1" = 1'-0" EQUIPMENT ANCHORAGE



ROOF CAP PER SCHEDULE (THIS SHEET) ATTACH PER MFR.



SECTION 915 CARBON MONOXIDE DETECTION



10 1" = 1'-0" ELEV. @ WORKSTATION

10.6 EER and 11 EER

SINGLE PACKAGE VERTICAL HEAT PUMP SCHEDULE

TAG	STANDARD	OPTION #
NOMINAL TONNAGE	3.0 TONS	4.0 TONS
MANUFACTURER	**BARD	**BARD
MODEL#	W36H-A	W48H-A
CFM	1150	1500
STATIC PRESSURE	0.15	0.2
MIN OSA	365	548
DRIVE	DIRECT	DIRECT
MCA	20.4	58
MOCP	30	60
VOLTAGE	208/230-1	208/230-1
WIRE SIZE (PWR/GRND)	#6/#10	#6/#10
DESIGN RETURN AIR (DB/WB)	80/67	80/67
SENSIBLE COOLING @ 95° F (PART/FULL)	24.00/28.00	25.900/36.00
TOTAL COOLING @ 95° F (PART/FULL)	32.00/36.00	34.000/45.500
HEATING CAP. BTUH @ 47° F (PART/FULL)	29.200/32.200	29.200/41.500
HEATING CAP. BTUH @ 17° F	20.000	26.000
OPERATING WEIGHT	380#	550#
EER	11.10	11.00
COP @ 47° F	3.30	3.00
COP @ 17° F	-	2.00

* 30"x48" MIN CLR FLOOR SPACE AT EACH LOCATION FOR PERPENDICULAR APPROACH

14 SEER

SINGLE PACKAGE ROOF TOP HEAT PUMP SCHEDULE

TAG	STANDARD	OPTION #
NOMINAL TONNAGE	3.0 TONS	4 TONS
MANUFACTURER	**CARRIER	**CARRIER
MODEL#	50VTC48	50VTC48
CFM	1200	1500
STATIC PRESSURE	0.15	0.4
MIN OSA	365	548
DRIVE	BELT	BELT
MCA	59	64
MOCP	60	74
VOLTAGE	208/230-1	208/230-1
WIRE SIZE (PWR/GRND)	#6/#10	#4/#8
DESIGN RETURN AIR (DB/WB)	80/67	80/67
SENSIBLE COOLING @ 95° F	30.500	35.260
TOTAL COOLING @ 95° F	35.600	49.600
HEATING CAP. BTUH @ 47° F	35.500	45.5000
HEATING CAP. BTUH @ 17° F	18.400	28.600
OPERATING WEIGHT	572#	560#
SEER	14.00	14.00
HSPF	8.1	8.0
COP @ 47° F	3.4	3.4
COP @ 17° F	2.3	2.4

120.1(D) THERMOSTAT SHALL BE PROGRAMMED WITH EXPECTED OCCUPIED TIMES AIR HANDLER FAN WILL BE PROGRAMMED TO RUN DURING ALL OCCUPIED TIMES. PRE-OCCUPANCY PURGE SHALL BE PROGRAMMED ONE HOUR PRIOR TO THE MODULAR BUILDING BEING NORMALLY OCCUPIED.

FOR ROOF MOUNTED HVAC UNITS A GASKET SHALL BE PLACED BETWEEN THE CURB AND THE HVAC UNIT. MASTIC SEALANT SHALL BE USED TO SEAL ALL SEAMS BETWEEN THE HVAC UNIT AND THE CURB. THE SUPPLY AND RETURN DUCTS SHALL BE ATTACHED TO THE CURB AND MASTIC SHALL BE USED TO SEAL THE DUCTS TO THE CURB. THE SUPPLY AND RETURN DUCTS SHALL BE THE SAME SIZE AND ALIGN WITH THE HVAC UNIT.

FLEXIBLE AIR DUCTS AND CONNECTORS SHALL BE NOT MORE THAN 5 FEET IN LENGTH AND SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS. FLEXIBLE AIR DUCTS SHALL BE PERMITTED TO BE USED AS AN ELBOW AT A TERMINAL DEVICE PER ENERGY CODE 120.4.

DUCT INSTALLATION AND PLENUMS SHALL MEET THE REQUIREMENTS OF ENERGY CODE SECTION 120.4 AND THE MANUFACTURERS INSTALLATION INSTRUCTIONS. HORIZONTAL FLEX DUCT SHALL BE SUPPORTED AT A MAXIMUM 4 FT INTERVALS, WITH HANGING STRAPS A MINIMUM 1 1/2 IN. WIDE. DUCTS MUST BE PULLED TIGHT WITH A MAXIMUM SAG OF 1/2" PER FOOT OF HORIZONTAL RUN. DUCT SHALL NOT BE KINKED OR CRUSHED. BEND/RADIUS EQUAL TO THE DUCT DIAMETER OR GREATER.

ATTACHMENT B: Mechanical Equipment List

This attachment summarizes all the HVAC equipment and controls required for each size modular building. Indicate NA for all non-applicable boxes.

Module size and equipment type	Response for programming/controlling/controls or HVAC component
HVAC Equipment Make and Model	NA
HVAC Equipment Controls	NA
HVAC Equipment Efficiency	NA
Wiring	NA
Drain	NA
Control	NA
Minimum Room Fan	NA
CFM @ 1 inch WEG	NA
Minimum Ambient or Not	NA
Thermostat (Direct)	Response/Permit
Thermostat (Indirect)	Response/Permit
Occupancy Sensor at the	Response/Permit
Make and Model - (1.00) Unit	Response/Permit
Control	Response/Permit
Make and Model - (1.00) Unit	Response/Permit
Control	Response/Permit
Make and Model - (1.00) Unit	Response/Permit
Control	Response/Permit
Make and Model - (1.00) Unit	Response/Permit
Control	Response/Permit
Make and Model - (1.00) Unit	Response/Permit
Control	Response/Permit
Make and Model - (1.00) Unit	Response/Permit
Control	Response/Permit
Make and Model - (1.00) Unit	Response/Permit
Control	Response/Permit
Make and Model - (1.00) Unit	Response/Permit
Control	Response/Permit
Make and Model - (1.00) Unit	Response/Permit
Control	Response/Permit
Make and Model - (1.00) Unit	Response/Permit
Control	Response/Permit
Make and Model - (1.00) Unit	Response/Permit
Control	Response/Permit
Make and Model - (1.00) Unit	Response/Permit
Control	Response/Permit

HVAC SCHEDULE

BUILDING SIZE	# OF HVAC	
	3 1/2 TON HVAC	4 TON HVAC
24' x 40'	1	
36' x 40'		1
48' x 40'	2	
60' x 40'		2
72' x 40'	3	
84' x 40'		3
96' x 40'	4	
108' x 40'		4
120' x 40'	5	

MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL UNITS

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122805 INC.
REVIEWED FOR
SS FLS ACS
DATE: 09/28/2023

R & S TAVARES ASSOCIATES
DESIGN & CONSULTING PROJECT MEET
1150 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ARCHITECT
MANNY D. FLORES
03/31/24
STATE OF CALIFORNIA
05/24/23
RSTW22088

THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEvised SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. ©

CLIENT

Class Leasing
1320 W. Oleander Ave. Perris CA 92571-7408
VOICE (951) 943-1908/Fax (951) 943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP. 04-121369 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 09/22/2023

Revision Schedule

#	Description	Date
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PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40'
EXPANDABLE TO
120' x 40'

SHEET TITLE

MISCELLANEOUS
NOTES & DETAILS

PROJECT NUMBER

22088

DRAWN BY

rMc/SC

CHECKED BY

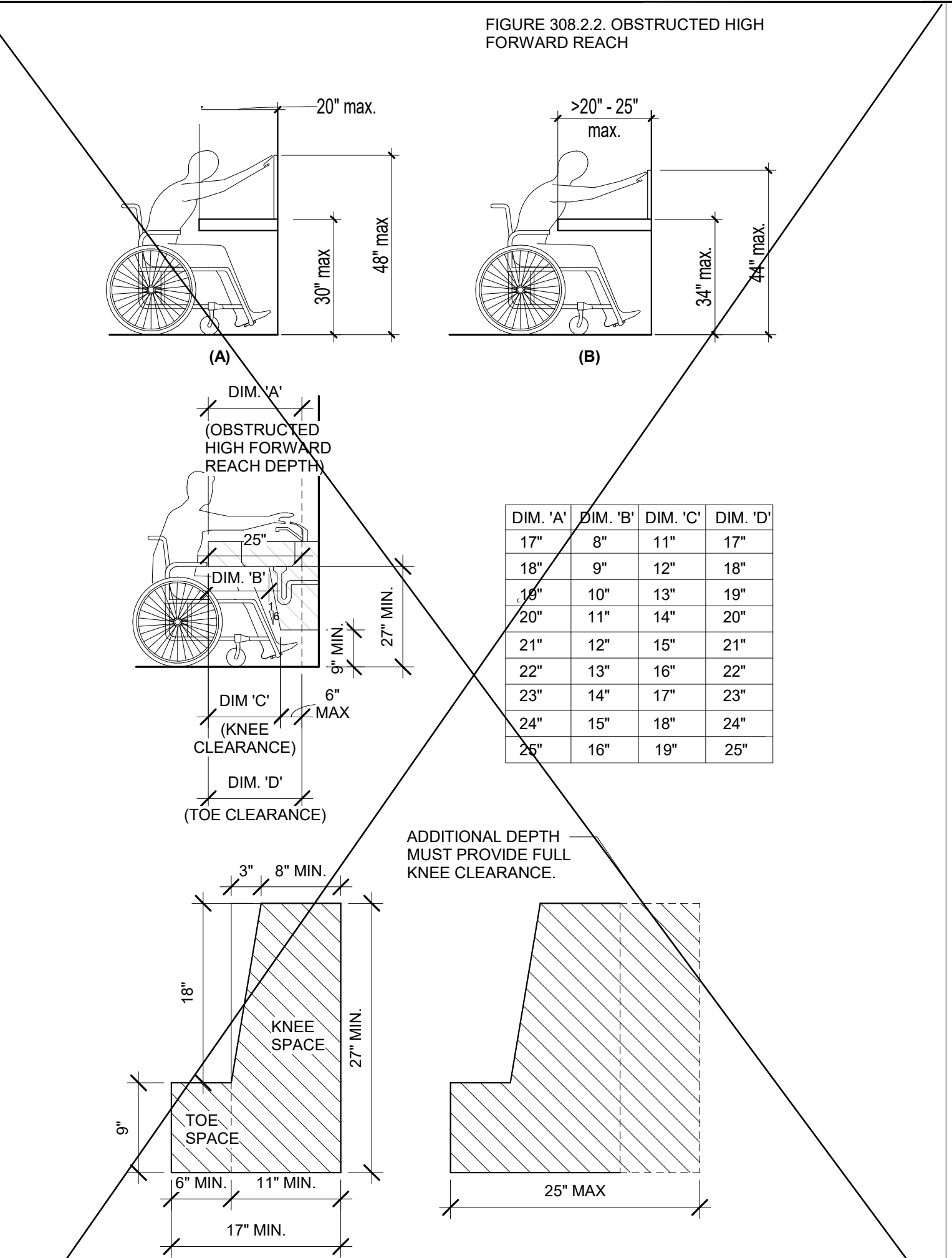
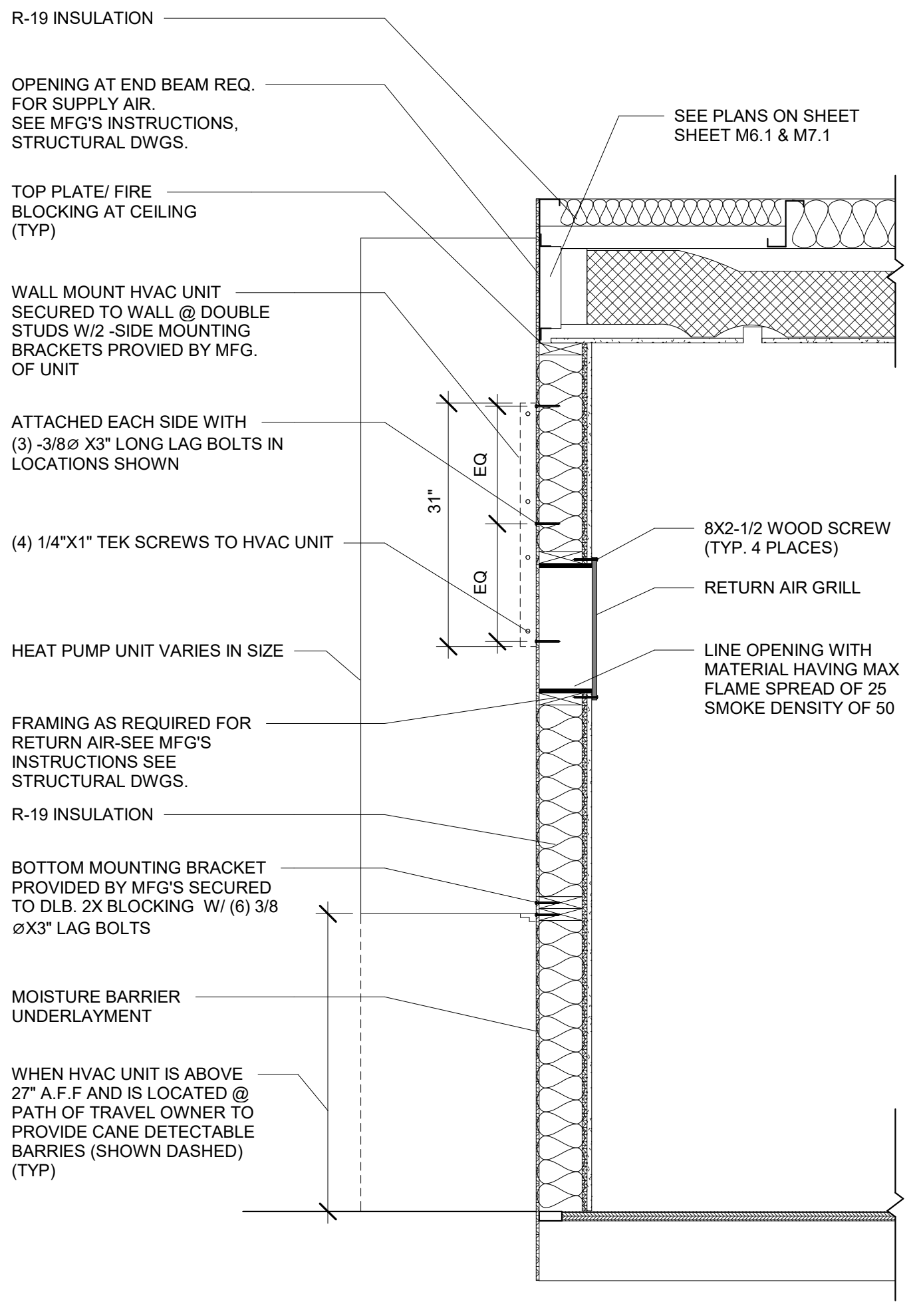
RH/RT

DATE

SHEET NO.

MO.1

SHEET OF



120.1(D) THERMOSTAT SHALL BE PROGRAMED WITH EXPECTED OCCUPIED TIMES AIR HANDLER FAN WILL BE PROGRAMED TO RUN DURING ALL OCCUPIED TIMES PRE-OCCUPANCY PURGE SHALL BE PROGRAMED ONE HOUR PRIOR TO THE MODULAR BUILDING BEING NORMALLY OCCUPIED.

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DUCT SHALL NOT BE KINKED OR CRUSHED. BEND/RADIUS EQUAL TO THE DUCT DIAMETER OR GREATER.

UPON SITE PLACEMENT OR SITE CONSTRUCTION, THE OPERATION AND MAINTENANCE DOCUMENTATION FOR ALL MECHANICAL AND LIGHTING SYSTEMS AND CONTROLS SHALL BE PROVIDED BY THE MODULAR BUILDING MANUFACTURER, OR THE GENERAL CONTRACTOR FOR THE PERMANENT MODULAR RELOCATABLE BUILDING AND DELIVERED TO THE OWNER.

AT THE TIME OF ROUGH INSTALLATION, DURING IN THE FACTORY OR ON THE CONSTRUCTION SITE, DURING SHIPMENT (IF APPLICABLE) AND UNTIL FINAL STARTUP OF THE HEATING COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED DISTRIBUTION COMPONENT OPENINGS SHALL BE PROCTED TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM

ATTACHMENT 3: Mechanical Equipment List

This attachment summarizes all the HVAC equipment and controls required for each size modular building.

Indicate NA for all non-applicable boxes.

LIST OF MECHANICAL EQUIPMENT				
Any substitutions of equipment made to the approved PC must be equal or better than the equipment listed below.				
Modular size and equipment type	4.0 TON WM HVAC	5.0 TON WM HVAC	3 TON WM HVAC	Responsible for programing/commissioning (builder or HVAC contractor)
HVAC Equipment Make and Model	BARD W46HC-A	BARD W60H1	BARD W36 HB	NA
BTUH Heating Cooling	41,500 45,500	51,000 55,500	38,500 40,000	NA
Indoor/Blower Fan BHP/HP CFM @ at 7 inch WC	1/3-825-2 2.5 24"-2900	1/3-825-2 4.1 24"-3700	1/3-825-2 2.5 24"-2900	NA
Strip Heating Maximum allowed or Not Allowed if not modeled	PER TITLE 24	PER TITLE 24	PER TITLE 24	NA
Minimum allowed SEER, EER, HSPF and/or COP, and Phase	14, 11, 3.40, 3	14, 11, 3.30, 3	14, 11, 3.40, 3	NA
Thermostat Make and Model Setback – § 110.2(c) Heat Pumps – § 110.2(b)	BARD #8403-061 C48H1	BARD #8403-061 C60H1	BARD #8403-061 C42H1	(Responsible Person) Required Acceptance Test NRCA-MCH-03-A
Shut-off and Reset Make and Model Occupancy Sensor or 4 hr override – § 120.2(e)	STANDARD BUILT-IN	STANDARD BUILT-IN	STANDARD BUILT-IN	(Responsible Person) Required Acceptance Test NRCA-MCH-03-A
Economizer Equipment Make and Model – § 140.4(e)	ECON-NC5	ECON-NC5	ECON-NC5	(Responsible Person) Required Acceptance Test NRCA-MCH-02-A and 05-A
Economizer Controls Make and Model – § 140.4(e)	ECON-WD5	ECON-WD5	ECON-WD5	(Responsible Person) Required Acceptance Test NRCA-MCH-02-A and 05-A
Economizer Fault Detection Software Make and Model – § 120.2(i)	ECON-DB5	ECON-DB5	ECON-DB5	(Responsible Person) Required Acceptance Test NRCA-MCH-12-A or 13-A
Outside Air In CFM – § 120.1(c)3	PER TITLE 24	PER TITLE 24	PER TITLE 24	(Responsible Person) Required Acceptance Test NRCA-MCH-02-A
Ventilation Kit If economizer is not installed specify Make and Model.	N/A	N/A	N/A	(Responsible Person) Required Acceptance Test NRCA-MCH-02-A
Demand Control Ventilation Co2 Sensor with ppm display Make and Model – §120.1(d)4	PER BARD SPECIFICATIONS	PER BARD SPECIFICATIONS	PER BARD SPECIFICATIONS	(Responsible Person) Required Acceptance Test NRCA-MCH-06-A
Minimum Designed Outside Air in CFM – § 120.1(c)3	PER TITLE 24	PER TITLE 24	PER TITLE 24	(Responsible Person) Required Acceptance Test NRCA-MCH-02-A
Demand Shed Thermostat Make Model If DDC to the zone § 120.2(h)	(Responsible Person)	(Responsible Person)	(Responsible Person)	Required Acceptance Test NRCA-MCH-11-A

NOTE: SEE M.O.1 AND CUT SHEETS FOR ADDITIONAL EQUIPMENT OPTIONS

1 3/4" = 1'-0" HVAC @ WALL SECTION

2 TOE SPACE CLEARANCE

3 1/4" = 1'-0" MECHANICAL NOTES

SEQUENCE OF OPERATIONS

BARD W46HC-A

Sequence of Operation

Cooling

Circuit R-Y1 makes at thermostat pulling in compressor motor, starting the compressor and outdoor motor. (See **NOTE under Condenser Fan Operation** concerning models equipped with low ambient control.) The G (indoor motor) circuit is automatically completed by the thermostat on any call for cooling operation or can be energized by manual fan switch on subbase for constant air circulation. On a call for 2nd stage heating, circuit R-W2 makes at the thermostat pulling in heat contactor for the strip heat and blower operation. On a call for third stage heat, R-W3 makes bringing on second heat contactor, if so equipped.

Heating

A 24V solenoid coil on reversing valve controls heating cycle operation. Two thermostat options, one allowing "Auto" changover from cycle to cycle and the other constantly energizing solenoid coil during heating season—thus eliminating pressure equalization noise except during defrost, are to be used.

On "Auto" option, a circuit is completed from R-B/W1 and R-Y1 on each heating "on" cycle, energizing reversing valve solenoid and pulling in compressor motor, starting compressor and outdoor motor. R-G also makes starting indoor blower motor. Heat pump heating cycle now in operation.

The second option has no "Auto" changover position, but instead energizes the reversing valve solenoid constantly whenever the system switch on subbase is placed in "Heat" position, the "B" terminal being constantly energized from R. A thermostat demand for heat completes R-Y1 circuit, pulling in compressor motor starting compressor and outdoor motor. R-G also make starting indoor blower motor.

On a call for 2nd stage heating, circuit R-W2 makes at the thermostat pulling in the heat contactor for the strip heat and blower operation. On a call for third stage heat, R-B/W1 breaks, dropping out heat pump, and R-W3 makes, bringing on second heat contactor, if so equipped.

Balanced Climate™ Mode

Balanced Climate™ is a great comfort feature that can easily be applied under any normal circumstances. If the Bard air conditioning system is being set up in a typical environment where 72°F is the lowest cooling setpoint, remove the Y1/Y2 jumper and install a 2-stage cooling thermostat. This will increase the humidity removal up to 35% and provide a much more comfortable environment. This mode will also increase the supply temperature when in heating mode. When Balanced Climate mode is activated, it is employed in both heating and cooling modes.

NOTE: Units with mechanical dehumidification require an additional connection to be made when enabling Balanced Climate. Refer to dehumidification supplemental instructions for this step.

If the application is likely to require air conditioning operation below 60°F outdoor conditions, a low ambient control (LAC) kit must be installed. The LAC kit is equipped with an outdoor temperature switch that disables Balanced Climate mode when the outdoor temperature drops below 50°F. This prevents potential evaporator coil freeze up issues. The LAC kit also comes with an evaporator freeze protection thermostat that cuts out the compressor if the evaporator begins to freeze up.

Balanced Climate can readily be applied to duct-free (supply and return air grille) applications. It may also be applied to ducted applications with limited static of 0.20" ESP (total including both supply and return statics). Consult Bard Application Engineering for details prior to implementation.

CAUTION: Balanced Climate is not a replacement for a dehumidification (hot gas reheat) unit for extreme applications, but rather an enhancement feature for limited climates and applications.

BARD C60HC1 & C42HC1

Sequence of Operation

Cooling Stage 1 – Circuit R-Y makes at thermostat pulling in compressor contactor, starting the compressor and outdoor motor. The G (indoor motor) circuit is automatically completed on any call for cooling operation or can be energized by manual fan switch on subbase for constant air circulation.

Cooling Stage 2 – Circuit R-Y1 makes at the thermostat, energizing the 2nd stage solenoid in the compressor. Default position is not energized. Compressor will run at low capacity until this solenoid is energized.

Heating Stage 1 – A 24V solenoid coil on reversing valve controls heating cycle operation. Two thermostat options, one allowing "Auto" changover from cycle to cycle and the other constantly energizing solenoid coil during heating season and thus eliminating pressure equalization noise except during defrost, are to be used. On "Auto" option, a circuit is completed from R-B and R-Y on each heating "on" cycle, energizing reversing valve solenoid and pulling in compressor contactor starting compressor and outdoor motor. R-G also make, starting indoor blower motor. Heat pump heating cycle now in operation. The second option has no "Auto" changover position, but instead energizes the reversing valve solenoid constantly whenever the system switch on subbase is placed in "Heat" position, the "B" terminal being constantly energized from R. A thermostat demand for heat completes R-Y1 circuit, pulling in compressor contactor starting compressor and outdoor motor. R-G also make, starting indoor blower motor.

Heating Stage 2 – Circuit R-Y2 makes at the thermostat, energizing the 2nd stage solenoid in the compressor.

CARRIER 50VTC48L

OPERATION

Sequence of Operation—When free cooling is not available, the compressor will be controlled by the thermostat. When free cooling is available, the outdoor-air damper is modulated by the Economizer control to provide a 50° to 55°F (10° to 12.8°C) supply-air temperature into the zone. As the supply-air temperature fluctuates above 55° (12.8°C) or below 50°F (10°C), the dampers will be modulated (open or close) to bring the supply-air temperature back within the set points. For Economizer operation, there must be a thermostat call for the fan (G). This will move the damper to its minimum position during the occupied mode.

NOTE: The DCV Max potentiometer must be closed (CCW) when not using CO2 sensor.

Above 50°F (10°C) supply-air temperature, the dampers will modulate from 100% open to the minimum open position. From 50°F to 45°F (10° to 7.2°C) supply-air temperature, the dampers will maintain at the minimum open position. Below 45°F (7.2°C), the dampers will be completely shut. As the supply-air temperature rises, the dampers will come back open to the minimum open position once the supply-air temperature rises to 48°F (8.9°C). If power exhaust is installed, as the outdoor-air damper opens and closes, the power exhaust fans will be energized and deenergized. If field-installed accessory CO2 sensors are connected to the Economizer control, a demand controlled ventilation strategy will begin to operate. As the CO2 level in the zone increases above the CO2 set point, the minimum position of the damper will be increased proportionally. As the CO2 level decreases because of the increase in fresh air, the outdoor-air damper will be proportionally closed. Damper position will follow the higher demand condition from DCV mode or free cooling mode. Damper movement from full closed to full open (or vice versa) will take between 1 1/2 and 2 1/2 minutes. If free cooling can be used as determined from the appropriate changover command (dry bulb, enthalpy curve, or differential enthalpy), a call for cooling (Y1) closes at the thermostat) will cause the control to modulate the dampers open to maintain the supply air temperature set point at 50° to 55°F (10° to 12.8°C). As the supply air temperature drops below the set point range of 50° to 55°F (10° to 12.8°C), the control will modulate the outdoor-air dampers closed to maintain the proper supply-air temperature.

TABLE 140.4-E AIR ECONOMIZER HIGH LIMIT SHUT OFF CONTROL REQUIREMENTS

Device Type ^a	Climate Zones	Required High Limit (Economizer Off When):	
		Equation ^b	Description
Fixed Dry Bulb	1, 3, 5, 11-16	T _{OA} > 75°F	Outdoor air temperature exceeds 75°F
	2, 4, 10	T _{OA} > 73°F	Outdoor air temperature exceeds 73°F
	6, 8, 9	T _{OA} > 71°F	Outdoor air temperature exceeds 71°F
	7	T _{OA} > 69°F	Outdoor air temperature exceeds 69°F
Differential Dry Bulb	1, 3, 5, 11-16	T _{OA} > T _{RA} +F	Outdoor air temperature exceeds return air temperature
	2, 4, 10	T _{OA} > T _{RA} +2°F	Outdoor air temperature exceeds return air temperature minus 2°F
	6, 8, 9	T _{OA} > T _{RA} +4°F	Outdoor air temperature exceeds return air temperature minus 4°F
	7	T _{OA} > T _{RA} +6°F	Outdoor air temperature exceeds return air temperature minus 6°F
Fixed Enthalpy ^c + Fixed Drybulb	All	h _{OA} > 28 Btu/lb ^c or T _{OA} > 75°F	Outdoor air enthalpy exceeds 28 Btu/lb of dry air ^c or Outdoor air temperature exceeds 75°F

^a Only the high limit control devices listed are allowed to be used and at the setpoints listed. Others such as Dew Point, Fixed Enthalpy, Electronic Enthalpy, and Differential Enthalpy Controls, may not be used in any Climate Zone for compliance with Section 140.4(e)1 unless approval for use is provided by the Energy Commission Executive Director.

^b Devices with selectable (rather than adjustable) setpoints shall be capable of being set to within 2°F and 2 Bulb of the setpoint listed.

^c At altitudes substantially different than sea level, the Fixed Enthalpy limit value shall be set to the enthalpy value at 75°F and 50% relative humidity. As an example, at approximately 6,000 foot elevation, the fixed enthalpy limit is approximately 30.7 Btu/lb.

ALL ECONOMIZERS MUST BE PROGRAMMED IN THE FIELD BY THE HVAC CONTRACTOR TO THE TEMPERATURE IN TABLE 140.4-E

Climate Zone 14 (Palmbeach)					
Air/mth (Front Orientation)	Standard Design	Proposed Design	Margin	Margin %	Worst Case
30°	TDW-E: 366.40 TDW-T: 366.40 SOURCE: 36.24	297.14 297.14 30.55	69.26	18.9028%	18.9028%
75°	TDW-E: 338.22 TDW-T: 338.22 SOURCE: 33.82	295.30 295.30 30.56	42.92	12.7230%	12.7230%
120°	TDW-E: 363.42 TDW-T: 363.42 SOURCE: 36.34	298.43 298.43 30.07	64.99	17.8844%	17.8844%
165°	TDW-E: 366.48 TDW-T: 366.48 SOURCE: 36.22	297.22 297.22 30.64	69.26	18.8974%	18.8974%
210°	TDW-E: 366.40 TDW-T: 366.40 SOURCE: 36.24	297.14 297.14 30.65	69.26	18.9028%	18.9028%
255°	TDW-E: 338.22 TDW-T: 338.22 SOURCE: 33.82	295.30 295.30 30.42	42.92	12.7230%	12.7230%
300°	TDW-E: 363.42 TDW-T: 363.42 SOURCE: 36.22	298.43 298.43 30.64	64.99	17.8844%	17.8844%

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122805 INC.
REVIEWED FOR
SS FLS ACS
DATE: 09/28/2023

R & S TAVARES ASSOCIATES
DESIGN & CONSULTING
11500 W. BERNARD COURT, SUITE 100
SAN DIEGO, CA 92127
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PROFESSIONAL STAMP
REGISTERED PROFESSIONAL ARCHITECT
MANUEL D. FERRER
03/31/24
STATE OF CALIFORNIA
RST#22088
05/24/23

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CLIENT
CLASS LEASING LLC
1221 Harley Knox Boulevard
Peris, CA 92571

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP. 04-121368 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 09/22/2023

Revision Schedule

#	Description	Date
---	-------------	------

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
MISCELLANEOUS NOTES & DETAILS

PROJECT NUMBER
22088

DRAWN BY
Author

CHECKED BY
Checker

DATE

SHEET NO.
M0.2

SHEET OF

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BUILDING ENERGY ANALYSIS REPORT

PROJECT:
24X40 (PC 04-121369) - Wall AC
Climate Zone 14
Palmdale, CA

Project Designer:
R & S TAVARES ASSOCIATES
11590 W. Bernardo Court, Suite 100
San Diego, Ca. 92127

Report Prepared by:
LAL B. SAHGAL
LSA CONSULTING ENGINEERS
83, WINDSWEPT WAY
MISSION VIEJO, CA 92692
(949) 830-4746

Job Number:

Date:
7/26/2023

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2022 Building Energy Efficiency Standards. This program developed by EnergySoft, LLC - www.energysoft.com.

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD				NRCC-PRF-E			
Nonresidential Performance Compliance Method				(Page 1 of 17)			
Project Name:		24X40 (PC 04-121369) - Wall AC	Date Prepared:	2023-07-25			
A. General Information							
1	Project Name	24X40 (PC 04-121369) - Wall AC					
2	Run Title	Title 24 Analysis					
3	Project Location	Climate Zone 14					
4	City	Palmdale	5	Standards Version	Compliance 2022		
6	Zip code	99999	7	Compliance Software (version)	EnergyPro 9.1		
8	Climate Zone	14	9	Building Orientation (deg)	75		
10	Building Type(s)	• Nonresidential			11	Weather File	PALMDALE_STYP20.epw
12	Project Scope	• New complete scope			13	Number of Dwelling Units	0
14	Total Conditioned Floor Area in Scope (ft ²)	960	15	Total # of hotel/motel rooms	0		
16	Total Unconditioned Floor Area (ft ²)	0	17	Fuel Type	Natural gas		
18	Nonresidential Conditioned Floor Area	960	19	Total # of Stories (Habitable Above Grade)	1		
20	Residential Conditioned Floor Area	0					

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-07-25 10:52:04
 Schema Version: rev 20220601 Compliance ID: EnergyPro-4958-0723-0144

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRCC-PRF-E
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B. PROJECT SUMMARY
Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.

Building Components Complying via Performance				Building Components Complying Prescriptively			
Envelope (See Table G)	Nonres	Performance	Solar Thermal Water Heating (See Table I3)	<input checked="" type="checkbox"/> Performance	<input checked="" type="checkbox"/> Not Included	The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E.)	
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table J)	<input checked="" type="checkbox"/> Performance	<input type="checkbox"/> Not Included	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
	Multifam	Not Included	Laboratory Exhaust (see Table J)	<input checked="" type="checkbox"/> Performance	<input checked="" type="checkbox"/> Not Included	Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTO-E is required
Domestic Hot Water (See Table I)	Nonres	Not Included	Covered Process: Laboratory Exhaust (see Table J)	<input checked="" type="checkbox"/> Performance	<input checked="" type="checkbox"/> Not Included	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
	Multifam	Not Included		<input checked="" type="checkbox"/> Performance	<input checked="" type="checkbox"/> Not Included	Building Components Complying with Mandatory Measures	
Lighting (Indoor Conditioned, see Table K)	Nonres	Performance	Photovoltaics (see Table F)	<input type="checkbox"/> Performance	<input checked="" type="checkbox"/> Not Included	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)	
	Multifam	Not Included	Battery (see Table F)	<input checked="" type="checkbox"/> Performance	<input checked="" type="checkbox"/> Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required
				<input type="checkbox"/> Performance	<input checked="" type="checkbox"/> Not Included	Commissioning 120.8	NRCC-CXR-E is required
				<input checked="" type="checkbox"/> Performance	<input checked="" type="checkbox"/> Not Included	Solar and Battery 110.10	NRCC-SAB-E is required

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-07-25 10:52:04
 Schema Version: rev 20220601 Compliance ID: EnergyPro-4958-0723-0144

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRCC-PRF-E
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C1. COMPLIANCE SUMMARY

	COMPLIES ¹		
	Time Dependent Valuation (TDV)		Source Energy Use
	Efficiency ² (kBtu/ft ² - yr)	Total ³ (kBtu/ft ² - yr)	Total ³ (kBtu/ft ² - yr)
Standard Design	358.72	358.72	30.7
Proposed Design	295.31	295.31	25.64
Compliance Margins	63.41	63.41	5.06
	Pass	Pass	Pass

¹ Efficiency measures include improvements like a better building envelope and more efficient equipment
² Compliance Totals include efficiency, photovoltaics and batteries
³ Building complies when efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRCC-PRF-E
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C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)

Energy Component	COMPLIES ²		
	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV) ¹
Space Heating	25.61	42	-16.39
Space Cooling	93.22	95.25	-2.03
Indoor Fans	152.65	81.72	70.93
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	54.63	54.6	0.03
Indoor Lighting	32.61	21.74	10.87
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	358.72	295.31	63.41 (17.7%)
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	358.72	295.31	63.41 (17.7%)

¹ Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-07-25 10:52:04
 Schema Version: rev 20220601 Compliance ID: EnergyPro-4958-0723-0144

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRCC-PRF-E
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C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft² /yr)

Energy Component	COMPLIES ²		
	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE) ¹
Space Heating	3.73	6.14	-2.41
Space Cooling	3.47	3.65	-0.18
Indoor Fans	14.94	8.15	6.79
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	5.99	5.99	0
Indoor Lighting	2.57	1.71	0.86
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	30.7	25.64	5.06 (16.5%)
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	30.7	25.64	5.06 (16.5%)

¹ Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-07-25 10:52:04
 Schema Version: rev 20220601 Compliance ID: EnergyPro-4958-0723-0144

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRCC-PRF-E
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C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS¹

Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE) ¹
Receptacle	4.92	4.92	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	35.62	30.56	5.06 (14.2%)

¹ Notes: This table is not used for Energy Code Compliance.

C6. 'ABOVE CODE' QUALIFICATIONS

This project is pursuing CalGreen Tier 1 This project is pursuing CalGreen Tier 2

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-07-25 10:52:04
 Schema Version: rev 20220601 Compliance ID: EnergyPro-4958-0723-0144

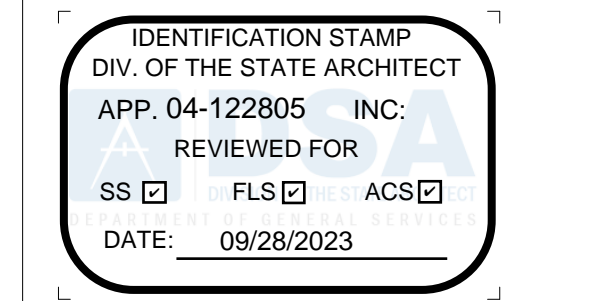
CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRCC-PRF-E
Nonresidential Performance Compliance Method		(Page 8 of 17)

C7. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	0.8	1.3	-0.5	---	---	---
Space Cooling	2.3	2.3	0	---	---	---
Indoor Fans	5.2	2.8	2.4	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	2	2	0	---	---	---
Indoor Lighting	1.2	0.8	0.4	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	11.5	9.2	2.3	0	0	0
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	11.5	9.2	2.3	0	0	0
Receptacle	2.5	2.5	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	14	11.7	2.3	0	0	0

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-07-25 10:52:04
 Schema Version: rev 20220601 Compliance ID: EnergyPro-4958-0723-0144

PROJECT SPECIFIC STATE AGENCY APPROVAL



PROFESSIONAL STAMP



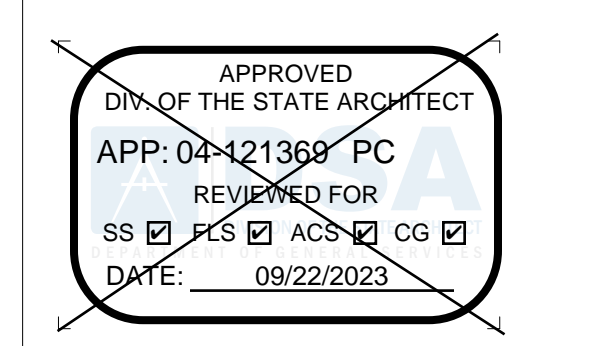
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CLIENT



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ORIGINAL PC STATE AGENCY APPROVAL



Revision Schedule		
#	Description	Date

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC

A separate project application for construction is required

PROJECT TITLE
**PC 2022 CBC: 24' x 40'
EXPANDABLE TO
120' x 40'**

SHEET TITLE
**24'x40' T24 CZ 14
(WALL AC)**

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE
06/15/2021

SHEET NO.
M2.9

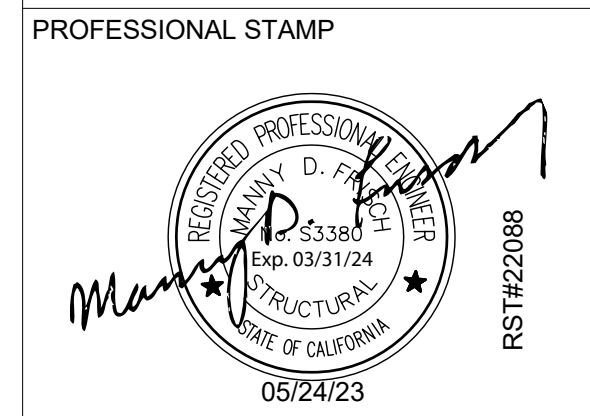
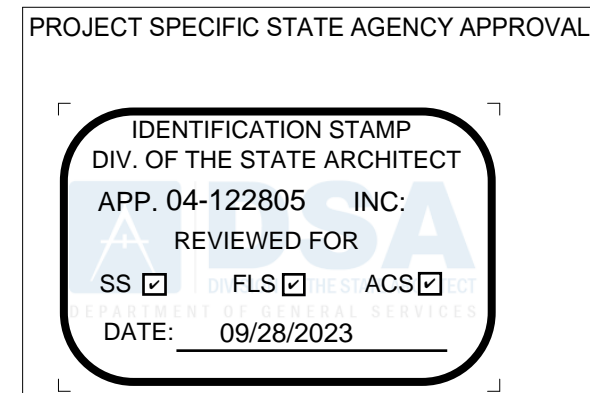
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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD
Nonresidential Performance Compliance Method
CS. ENERGY USE INTENSITY (EUI)

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD
Nonresidential Performance Compliance Method
G4. NONRESIDENTIAL AIR BARRIER
G5. OPAQUE SURFACE ASSEMBLY SUMMARY

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD
Nonresidential Performance Compliance Method
G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)
H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

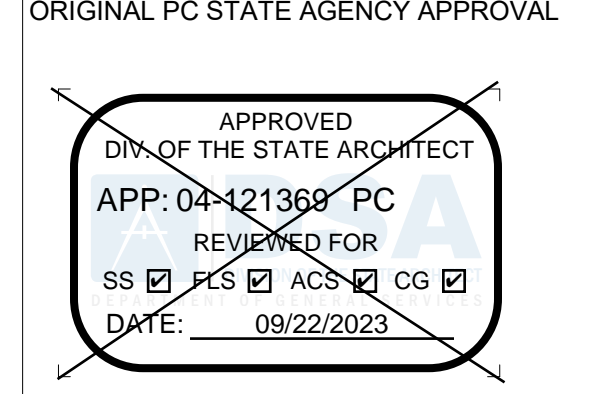


CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD
Nonresidential Performance Compliance Method
H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY
H8. SYSTEM SPECIAL FEATURES
H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD
Nonresidential Performance Compliance Method
H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY
K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD
Nonresidential Performance Compliance Method
K2. INDOOR CONDITIONED LIGHTING SCHEDULE
K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS
K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL

THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEPOSED SOLELY FOR THIS CONTRACT.



CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD
Nonresidential Performance Compliance Method
L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD
Nonresidential Performance Compliance Method
Documentation Author's Declaration Statement
Responsible Person's Declaration statement

HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY
HVAC EQUIPMENT SELECTION
HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)

Revision Schedule
Description Date

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
24'x40' T24 CZ 15 (WALL AC)

PROJECT NUMBER 22088
DRAWN BY rMc/CG
CHECKED BY RH/RT
DATE 06/15/2021
SHEET NO. M2.12

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Report Generated: 2023-07-25 10:57:22
Compliance ID: EnergyPro-4958-0723-0145

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Report Generated: 2023-07-25 10:57:22
Compliance ID: EnergyPro-4958-0723-0145

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD
Nonresidential Performance Compliance Method
Responsible Designer Name: Lal Sahgal
Company: LSA Consulting Engineers

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BUILDING ENERGY ANALYSIS REPORT

PROJECT:
24X40 (PC 04-121369) - Wall AC
Climate Zone 16
Blue Canyon, CA

Project Designer:
R & S TAVARES ASSOCIATES
11590 W. Bernardo Court, Suite 100
San Diego, Ca. 92127

Report Prepared by:
LAL B. SAHGAL
LSA CONSULTING ENGINEERS
83, WINDSWEPT WAY
MISSION VIEJO, CA 92692
(949) 830-4746

Job Number:

Date:
7/26/2023

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2022 Building Energy Efficiency Standards. This program developed by EnergySoft, LLC - www.energysoft.com.

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD				NRCC-PRF-E
Nonresidential Performance Compliance Method				(Page 1 of 17)
Project Name:	24X40 (PC 04-121369) - Wall AC	Date Prepared:	2023-07-26	
A. General Information				
1 Project Name	24X40 (PC 04-121369) - Wall AC			
2 Run Title	Title 24 Analysis			
3 Project Location	Climate Zone 16			
4 City	Blue Canyon	5 Standards Version	Compliance 2022	
6 Zip code	91999	7 Compliance Software (version)	EnergyPro 9.1	
8 Climate Zone	16	9 Building Orientation (deg)	30	
10 Building Type(s)	• Nonresidential		BLUE-CANYON_STYP20.epw	
12 Project Scope	• New complete scope		13 Number of Dwelling Units	0
14 Total Conditioned Floor Area in Scope (ft ²)	960	15 Total # of hotel/motel rooms	0	
16 Total Unconditioned Floor Area (ft ²)	0	17 Fuel Type	Natural gas	
18 Nonresidential Conditioned Floor Area	960	19 Total # of Stories (Habitable Above Grade)	1	
20 Residential Conditioned Floor Area	0			

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B. PROJECT SUMMARY
 Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.

Building Components Complying via Performance				Building Components Complying Prescriptively			
Envelope (See Table G)	Nonres MultiFam	Performance Not Included	Solar Thermal Water Heating (See Table I3)	<input type="checkbox"/> Performance Not Included	The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E.)		
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table J)	<input type="checkbox"/> Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)		
	MultiFam	Not Included	Laboratory Exhaust (see Table J)	<input checked="" type="checkbox"/> Not Included	Outdoor Lighting 140.7 & 170.2(e)		
Domestic Hot Water (See Table I)	Nonres	Not Included	Photovoltaics (see Table F)	<input type="checkbox"/> Performance	Sign Lighting 140.8 & 170.2(e)		
	MultiFam	Not Included		<input checked="" type="checkbox"/> Not Included	Building Components Complying with Mandatory Measures		
Lighting (Indoor Conditioned, see Table K)	Nonres	Performance	Battery (see Table F)	<input type="checkbox"/> Performance	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)		
	MultiFam	Not Included		<input checked="" type="checkbox"/> Not Included	Electrical Power Distribution 110.11		
				<input type="checkbox"/> Performance	Commissioning 120.8		
				<input checked="" type="checkbox"/> Not Included	Solar and Battery 110.10		

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C1. COMPLIANCE SUMMARY

	COMPLIES ¹		
	Time Dependent Valuation (TDV)		Source Energy Use
	Efficiency ² (kBtu/ft ² - yr)	Total ³ (kBtu/ft ² - yr)	Total ³ (kBtu/ft ² - yr)
Standard Design	307.23	307.23	49.92
Proposed Design	273.51	273.51	36.13
Compliance Margins	33.72	33.72	13.79
	Pass	Pass	Pass

¹ Efficiency measures include improvements like a better building envelope and more efficient equipment
² Compliance Totals include efficiency, photovoltaics and batteries
³ Building complies when efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded

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C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)

Energy Component	COMPLIES ¹		
	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV) ¹
Space Heating	51.5	114.86	-63.36
Space Cooling	19.06	18.57	0.49
Indoor Fans	169.42	83.19	86.23
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	36.19	36.19	0
Indoor Lighting	31.06	20.7	10.36
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	307.23	273.51	33.72 (11%)
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	307.23	273.51	33.72 (11%)

¹ Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

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C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS¹

Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV) ¹
Receptacle	63.66	63.66	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	370.89	337.17	33.72 (9.1%)

¹ Notes: This table is not used for Energy Code Compliance.

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C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft² /yr)

Energy Component	COMPLIES ¹		
	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE) ¹
Space Heating	16.26	11.75	4.51
Space Cooling	1.3	1.31	-0.01
Indoor Fans	16.75	8.32	8.43
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	13.04	13.04	0
Indoor Lighting	2.57	1.71	0.86
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	49.92	36.13	13.79 (27.6%)
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	49.92	36.13	13.79 (27.6%)

¹ Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

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C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS¹

Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE) ¹
Receptacle	4.92	4.92	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	54.84	41.05	13.79 (25.1%)

¹ Notes: This table is not used for Energy Code Compliance.

C6. 'ABOVE CODE' QUALIFICATIONS

This project is pursuing CalGreen Tier 1 This project is pursuing CalGreen Tier 2

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C7. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	0.1	3	-2.9	16.4	---	---
Space Cooling	0.8	0.7	0.1	---	---	---
Indoor Fans	5.6	2.8	2.8	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	---	---	---	13.6	13.6	0
Indoor Lighting	1.2	0.8	0.4	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	7.7	7.3	0.4	30	13.6	16.4
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	7.7	7.3	0.4	30	13.6	16.4
Receptacle	2.5	2.5	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	10.2	9.8	0.4	30	13.6	16.4

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PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP. 04-122805 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 09/28/2023



DESIGN & CONSULTING • PROJECT MGT
 11590 W. BERNARDO COURT, SUITE 100
 SAN DIEGO, CA 92127
 WWW.RSTAVARES.COM

PROFESSIONAL STAMP



REGISTERED PROFESSIONAL ENGINEER
 LAL B. SAHGAL
 No. 53380
 Exp. 03/31/24
 STATE OF CALIFORNIA
 RST#20086
 05/24/23

THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEvised SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. ©

CLIENT



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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
 DIV. OF THE STATE ARCHITECT
 APP. 04-121369 PC
 REVIEWED FOR
 SS FLS ACS CG
 DATE: 09/22/2023

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
24'x40' T24 CZ 16 (WALL AC)

PROJECT NUMBER
 22088

DRAWN BY
 Author

CHECKED BY
 Checker

DATE
 06/15/2021

SHEET NO.
M2.13

SHEET OF

C:\Users\User\Documents\202208-Aries_24x40 PC - MainFile - Low Salsinc_detached (2022)_CESAR24D63.rvt 9/7/2023 11:16:17 AM

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C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft ² / yr)	Proposed Design (kBtu/ft ² / yr)	Margin (kBtu/ft ² / yr)	Margin Percentage
GROSS EUI ¹	67.5	49	18.5	27.41
NET EUI ¹	67.5	49	18.5	27.41

¹ Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.

D1. EXCEPTIONAL CONDITIONS

- The project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylight Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylight Zones is required.
- The building does not include service water heating. Verify that service water heating is not required and is not included in the design.
- Project is claiming Exception 2 to Section 140.10(a): No PV system is required where the required PV system size is less than 4 kWdc.

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01	02	03	04
Opaque Surfaces & Orientation	Total Gross Surface Area (ft ²)	Total Fenestration Area (ft ²)	Window to Wall Ratio (%)
North-Facing ²	400	0	0
East-Facing ²	240	32	13.33
South-Facing ²	400	0	0
West-Facing ²	240	32	13.33
Total	1280	64	5
Roof	960	14	1.46

Notes:
¹North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW).
²East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE).
³South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE).
⁴West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW).

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G4. NONRESIDENTIAL AIR BARRIER

01	02
Building Story Name Com-Floor 1	Air Barrier No air barrier

G5. OPAQUE SURFACE ASSEMBLY SUMMARY

01	02	03	04	05	06	07	08	09	10
Surface Name	Construction Type	Area (ft ²)	Framing Type	Cavity R-Value	Continuous R-Value Interior Exterior	Units	Value	Description of Assembly Layers	Status ¹
R-19 Wood Framed Wall7	Exterior Wall	1,280	Wood	19	N/A N/A	U-factor	0.0605	Wood siding - 1/2 in. Vapor permeable felt - 1/8 in. Composite-1 Gypsum Board - 1/2 in. Softwood - 1.5 in.	N
R-19 Metal Floor Crawlspace4	Exterior Floor	960	Metal	19	N/A N/A	U-factor	0.0588	Vented Crawlspace Composite-2 Plywood - 1/2 in. Carpet - 3/4 in.	N
Standing Seam R-38 Metal16	Roof	960	N/A	36	N/A N/A	U-factor	0.06	Metal Standing Seam - 1/16 in. Composite-3	N

¹Status: N - New, A - Altered, E - Existing

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G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)

01	02	03	04	05	06	07	08	09
Fenestration Assembly Name	Fenestration Type/ Product Type / Frame Type	Certification Method ¹	Assembly Method	Area (ft ²)	Overall U-factor	Overall SHGC	Overall VT	Status ²
Sierra Pacific Windows	Vertical fenestration Operable window	NFRC	Manufactured	64	0.35	0.24	0.5	N
Sola tube	Skylight Fixed window N/A	NFRC	Manufactured	14	0.39	0.37	0.65	N

¹ Notes: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix N46 and are used in the analysis.
²Status: N - New, A - Altered, E - Existing

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	Status ¹
AC-1	Single Package VHP Air System	1	34.37	13.65	COP	3.3	34.56	EER	11	Fixed DB	N

¹Status: N - New, A - Altered, E - Existing

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H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13
Name or Item Tag	Qty	Design OA CFM	CFM	Power	Power Units	Control	Fan Type	CFM	Power	Power Units	Control	Status ¹
AC-1	1	364.8	1,100	0.5	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

¹Status: N - New, A - Altered, E - Existing

H8. SYSTEM SPECIAL FEATURES

01	02	03	04
System Name	Equipment Type	Interlocks per 140.4(n) ¹	Other Special Features and Controls
AC-1	Single Package VHP Air System	No	Zone(s) With CO2 Sensor Vent. Control Fixed DB

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.
¹Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
Zone Name	Ventilation Function	Mechanical Ventilation # of People Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both	
1-First Floor	Education - Classrooms (ages 9-18)	24 364.8	0	960	DCV	

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H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12
System ID	System Type	Qty	Rated Capacity (kBtu/h) Heating Cooling	Airflow (cfm) Design Min.	Min. Ratio	Power	Power Units	Cycles	VSD		
1-First Floor-Trm	Uncontrolled	1	N/A N/A	1,100 N/A	0	N/A	N/A	N/A			

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

01	02	03	04	05	06
Occupancy Type ²	Conditioned Floor Area ² (ft ²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance Area Category Footnotes (Watts)	Area Category Footnotes (Watts)
Classroom, Lecture, or Training Vocational	960	384	0	0	0
Building Totals:	960	384	0	0	0

¹See Table 140.6-C
²See NRCC-LTI-E for unconditioned spaces
³Lighting information for existing spaces modeled is not included in this table

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K2. INDOOR CONDITIONED LIGHTING SCHEDULE

01	02	03	04	05	06
Name or Item Tag	Complete Luminaire Description (i.e. 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	How is Wattage determined	Total Number of Luminaires	Installed Watts
L-1	2x4 LED Panel	48	According to	8	384

¹If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

01	02	03	04	05	06	07	08	09
Area Description	Primary Function Area (must meet requirements of Table 140.6-A and 170.2-1)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-1-First Floor	Classroom, Lecture, or Training Vocational	N/A	N/A	L-1	48	8	384	0
Lighting Control Credits (Conditioned) Total (Watts)							0	

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL

01	02
Mandatory Demand Response 110.12(c) Required	Shut-Off Controls 130.1(c) & 160.5(b)4C Required

See NRCC-LTI-E for mandatory controls

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L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Building Component	Form/Title
Envelope	NRCH-ENV-01-E - Must be submitted for all buildings
Envelope	NRCH-ENV-E - Envelope (for all buildings)
Mechanical	NRCH-MCH-01-E - Must be submitted for all buildings
Mechanical	NRCH-MCH-E - For all buildings with Mechanical Systems
Indoor Lighting	NRCH-LTI-01-E - Must be submitted for all buildings
Indoor Lighting	NRCH-LTI-E - Indoor Lighting (for all buildings)

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NFRC label verification for fenestration
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls.
Mechanical	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
Mechanical	NRCA-MCH-05-A - Air Economizer Controls
Mechanical	NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

There are no Certificates of Verification applicable to this project

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Documentation Author's Declaration Statement

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

Documentation Author Name: LAL B. SAHGAL Company: LSA CONSULTING ENGINEERS Address: 83, WINDSWEEP WAY City/State/Zip: MISSION VIEJO, CA 92692 Phone: (949) 830-4746	Documentation Author Signature: Signature Date: CEA/HERS Certification Identification (if applicable): M26885 Phone:
---	---

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 understand that a registered 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, and I will take the necessary steps to accomplish this requirement.
- I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

Responsible Designer Name: Company: R & S TAVARES ASSOCIATES Address: 11590 W. Bernardo Court, Suite 100 City/State/Zip: San Diego, Ca. 92127 Phone:	Responsible Designer Signature: Date Signed: License #: M26885 Title: Scope:
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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220601
Report Generated: 2023-07-26 13:02:48
Compliance ID: EnergyPro-4958-0723-0170

HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

Project Name: 24X40 (PC-04-121369) - Wall AC
Date: 7/26/2023
System Name: AC-1
Floor Area: 960

ENGINEERING CHECKS	SYSTEM LOAD	COIL COOLING PEAK		COIL HTG. PEAK	
		CFM	Sensible	CFM	Sensible
Number of Systems: 1	Total Room Loads	1,209	26,482	9,600	248
Heating System	Return Vented Lighting		0		
Output per System: 33,000	Return Air Ducts		1,324		589
Total Output (Btu/h): 33,000	Return Fan		0		0
Output (Btu/h/sqft): 34.4	Ventilation	365	3,129	-1,167	365
Cooling System	Supply Fan		1,535		-1,535
Output per System: 36,000	Supply Air Ducts		1,324		589
Total Output (Btu/h): 36,000	TOTAL SYSTEM LOAD	33,795	8,433		29,724
Total Output (Tons): 3.0	Air System				
Total Output (Btu/h/sqft): 37.5	CFM per System: 1,100				
Total Output (sqft/Ton): 320.0	Airflow (cfm): 1,100	31,415	2,901		13,777
	Airflow (cfm/sqft): 1.15				13,648
	Airflow (cfm/ton): 366.7				
	Outside Air (%): 33.2%	Total Adjusted System Output (Adjusted for Peak Design conditions)	31,415	2,901	27,425
	Outside Air (cfm/sqft): 0.38	TIME OF SYSTEM PEAK			Jul 3 PM Jan 1 AM

Note: values above given at ARI conditions

HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)

COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD
Nonresidential Performance Compliance Method
NRCC-PRF-E
(Page 17 of 17)

Responsible Designer Name: Lal Sahgal Company: LSA Consulting Engineers Address: 83, WINDSWEEP WAY City/State/Zip: Mission Viejo, Ca. 92692 Phone:	Responsible Designer Signature: Date Signed: License #: M26885 Title: Scope:
--	--

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220601
Report Generated: 2023-07-26 13:02:48
Compliance ID: EnergyPro-4958-0723-0170

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122805 INC.
REVIEWED FOR
SS FLS ACS
DATE: 09/28/2023

R & S TAVARES ASSOCIATES
DESIGN & CONSULTING PROJECT MEET
11590 W. BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ARCHITECT
M. P. TAVARES
No. 53388
Exp. 03/31/24
STATE OF CALIFORNIA
RST#20086
05/24/23

THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. ©

CLIENT

Class Leasing
1651 SOUTH JUANITA STREET
SAN JACINTO CA, 92581
VOICE (951) 943-1908 FAX (951) 943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP. 04-121369 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 09/22/2023

Revision Schedule

#	Description	Date
	PRE-CHECK (PC) DOCUMENT	
	CODE: 2019 CBC	

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40'
EXPANDABLE TO
120' x 40'

SHEET TITLE
24'x40' T24 CZ 16
(WALL AC)

PROJECT NUMBER
22088

DRAWN BY
Author

CHECKED BY
Checker

DATE
06/15/2021

SHEET NO.
M2.14

SHEET OF

C:\Users\User\Documents\22088-Aries_24x40 PC - MainFile - Low\Sasimc_detached (2022)_CESAR24063.rvt 9/7/2023 11:16:17 AM

ENVELOPE MANDATORY MEASURES: NONRESIDENTIAL ENV-MM
Project Name: 120X40 (PC 04-116504) - Wall AC Date: 6/23/2018
DESCRIPTION
Building Envelope Measures:
§110.8(a): Installed insulating material shall have been certified by the manufacturer to comply with the California Quality Standards for insulating material, Title 20 Chapter 4, Article 3.
§110.8(c): All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2602 and 707 of Title 24, Part 2.
§110.8(g): Heated slab floors shall be insulated according to the requirements in Table 110.8-A.
§110.8(a): All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.
§110.6(a): Manufactured fenestration products and exterior doors shall have air infiltration rates not exceeding 0.3 cfm/ft² of window area, 0.3 cfm/ft² of door area for residential doors, 0.3 cfm/ft² of door area for nonresidential single doors (swinging and sliding), and 1.0 cfm/ft² for nonresidential double doors (swinging).
§110.6(a): Fenestration U-factor shall be rated in accordance with NFRC 100, or the applicable default U-factor.
§110.6(a): Fenestration SHGC shall be rated in accordance with NFRC 200, or NFRC 100 for site-built fenestration, or the applicable default SHGC.
§110.6(b): Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, and shall be weatherstripped (except for unframed glass doors and fire doors).
§120.7(a): The opaque portions of the roof/ceiling that separate conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-Factor requirements as follows:
Metal Building- The weighted average U-factor of the roof assembly shall not exceed 0.098.
Wood Framed and Others- The weighted average U-factor of the roof assembly shall not exceed 0.075.
§120.7(a): The opaque portions of walls that separate conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-Factor as follows:
Metal Building- The weighted average U-factor of the wall assembly shall not exceed 0.113.
Metal Framed- The weighted average U-factor of the wall assembly shall not exceed 0.151.
Light Mass Walls- A 6 inch or greater Hollow Core Concrete Masonry Unit shall have a U-factor not to exceed 0.440.
Heavy Mass Walls- An 8 inch or greater Hollow Core Concrete Masonry Unit shall have a U-factor not to exceed 0.690.
Wood Framed and Others- The weighted average U-factor of the wall assembly shall not exceed 0.110.
Sparand Panels and Opaque Curtain Wall- The weighted average U-factor of the spandrel panels and opaque curtain wall assembly shall not exceed 0.280.
Demising Walls- The opaque portions of framed demising walls shall meet the requirements of Item A or B below:
A. Wood framed walls shall be insulated to meet a U-factor not greater than 0.099.
B. Metal Framed walls shall be insulated to meet a U-factor not greater than 0.151.
§120.7(c): The opaque portions of floors and soffits that separate conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-Factor requirements as follows:
Raised Mass Floors- Shall have a minimum of 3 inches of lightweight concrete over a metal deck or the weighted average U-factor of the floor assembly shall not exceed 0.269.
Other Floors- The weighted average U-factor of the floor assembly shall not exceed 0.071.

STATE OF CALIFORNIA Domestic Water Heating System CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-PLB-E
This document is used to demonstrate compliance for nonresidential occupancies with requirements in 110.1, 110.3, 120.3, and 140.5, and with requirements in 141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in 110.1, 110.3, 160.4 and 170.2(d), and with requirements 180.1 for additions and 180.2 for alterations.
Project Name: 24X40 (PC 04-121369) - Wall AC Report Page: (Page 3 of 6)
Project Address: Climate Zone 14 Date Prepared: 9/7/2023
A. GENERAL INFORMATION
01 Project Location (city) Palmdale 02 Climate Zone 14
03 Occupancy Types Within Project (select all that apply): Classroom
B. PROJECT SCOPE
This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in 140.1/170.2(d) and 141.0(a)/180.1, or 141.0(b)(2)/180.2 for additions or alterations. Solar water heating systems are documented on the NRCC-SAB compliance document. Combined hydraulic water heating systems are documented on the NRCC-MCH compliance document.
01 02 03
My project consists of (check all that apply): System Type^{1,2} System Components
System Type^{1,2} System Components
☑ New system (DHW system being installed for the first time) Individual System (serving nonresidential spaces) ☑ Equipment ☑ Distribution ☑ Controls
☐ System Alteration (equipment, distribution or controls) ☐ Equipment ☐ Distribution ☐ Controls
FOOTNOTES: ¹Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.
²Dwelling units refers to hotel/motel guest rooms and units in a multifamily residential occupancy.
³DHW systems serving 2 or more dwelling units are considered "Central Systems" for multifamily occupancies

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STATE OF CALIFORNIA Domestic Water Heating System CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-PLB-E
Project Name: 24X40 (PC 04-121369) - Wall AC Report Page: (Page 4 of 6)
Project Address: Climate Zone 14 Date Prepared: 9/7/2023
C. COMPLIANCE RESULTS
Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D or the table indicated as not compliant for guidance.
01 02 03 04
Domestic Hot Water Equipment Distribution Systems Controls Compliance Results
Table F Table G Table H
Yes Yes Yes COMPLIES
D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

STATE OF CALIFORNIA Domestic Water Heating System CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-PLB-E
Project Name: 24X40 (PC 04-121369) - Wall AC Report Page: (Page 5 of 6)
Project Address: Climate Zone 14 Date Prepared: 9/7/2023
G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM
This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in 120.3 and 140.5. For multifamily and hotel/motel occupancies, compliance is demonstrated with requirements 110.3(c), 160.4, 170.2(d).
Mandatory Pipe Insulation All Occupancies
13 ☐ For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see below) except:
• Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall abut securely against all framing members.
• Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Quality Insulation Installation (QII) as specified in the Reference Residential Appendix RA3.5.
• Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 inches of attic insulation, shall not be required to have pipe insulation.
14 ☑ For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per 120.3:
• Recirculating system piping, including supply and return piping of the water heater
• The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system
• Pipes that are externally heated
15 ☐ Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per 120.3(b) / 160.4(f). Pipe insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve.
TABLE 120.3-A / 160.4-A PIPE INSULATION THICKNESS
Fluid Temperature Range (°F) Conductivity Range (Btu-in per hour per ft per °F) Insulation Mean Rating (R) Minimum Insulation Required
105-140 0.22 - 0.28 100 1.0 in or R-7.7 1.5 in or R-12.5 1.5 in or R-11 2.0 in or R-16

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STATE OF CALIFORNIA Domestic Water Heating System CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-PLB-E
Project Name: 24X40 (PC 04-121369) - Wall AC Report Page: (Page 5 of 6)
Project Address: Climate Zone 14 Date Prepared: 9/7/2023

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.
Form/Title
NRCC-PLB-E - Must be submitted for all buildings
J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
There are no forms required for this project.
K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
There are no forms required for this project.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Generated Date/Time: Documentation Software: EnergyPro
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STATE OF CALIFORNIA Domestic Water Heating System CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-PLB-E
Project Name: 24X40 (PC 04-121369) - Wall AC Report Page: (Page 2 of 6)
Project Address: Climate Zone 14 Date Prepared: 9/7/2023
E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.
F. DOMESTIC HOT WATER EQUIPMENT
This table is used to demonstrate compliance with mandatory equipment requirements in 110.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.2(d) must also be demonstrated and with 141.0 / 180.1 / 180.2 for addition and alteration scopes.
Equipment Schedule: Water Heating Efficiency and Standby Loss
System Name: A O Smith DEL-10 Exception to 140.5(c)/170.2(d)
03 04 05 06
System Name: A O Smith DEL-10 Exception to 140.5(c)/170.2(d)
07 08 09 10 11 12 13 14 15
Name or Item Tag Equipment Type Volume (gpi) Rated Input Capacity (Btu/h) Max GPM/ First Hour Rating (FHR) Rated Efficiency Minimum Efficiency Required Efficiency Unit Designated Standby Loss Maximum Standby Loss
A O Smith DEL-10 Consumer Rated 5, 1,20 20, FHR >= 75 0.95 0.93 UEF
FOOTNOTE: In systems >= 1MMBtu/h with multiple units, gas water heaters with input capacity >= 100,000 Btu/h may meet 90% E1 requirements via an input capacity-weighted average.
Water Heating Equipment All Occupancies
Requirement
18 ☐ ☐ ☐ ☐ ☐ Unfired storage tank insulation shall have Internal + External >= R-16 OR External >= R-3.5. Label required per 110.3(c)(3)
19 ☐ ☐ ☐ ☐ ☐ New state buildings 60% of energy for service water heating from site solar energy or recovered energy per 110.3(c)(5)
20 ☐ ☐ ☐ ☐ ☐ Insulation values for instantaneous water heater with input rating <= 8 BTU/h or 2.00 has been specified per 110.3(c)(6)
21 ☐ ☐ ☐ ☐ ☐ School buildings < 25,000 ft² and < 4 stories must install a heat pump water heating system per 140.5(a)(1). Water heating systems serving an individual bathroom space may be an instantaneous electric water heater.

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STATE OF CALIFORNIA Domestic Water Heating System CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-PLB-E
Project Name: 24X40 (PC 04-121369) - Wall AC Report Page: (Page 3 of 6)
Project Address: Climate Zone 14 Date Prepared: 9/7/2023
H. DOMESTIC HOT WATER CONTROLS
This table is used to demonstrate compliance with control requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupancies, compliance is also demonstrated with requirements in 160.4(e) / 170.2(d).
Requirement
01 ☑ ☐ ☐ ☐ Construction documents require manufacturer certification that service water heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per 110.3(a).
02 ☐ ☐ ☐ ☐ Systems with capacity <= 167,000 BTU/h equipped with outlet temperature controls per 110.3(c)(1) unless covered by California Plumbing Code 613.0.
03 ☐ ☐ ☐ ☐ Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per 110.3(c)(2) unless systems serve health care facilities.
04 ☐ ☐ ☐ ☐ For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(b)(3) for additions.
05 ☐ ☐ ☐ ☐ For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.9 per 170.2(d).
06 ☐ ☐ ☐ ☐ Combustion air positive shut-off shall be provided per 160.4(e)(3) on all newly installed commercial boilers as follows:
• Boilers with input capacity >= 2.5 MMBtu/h, in which the boiler is designed to operate with a nonpositive vent static pressure.
• Boilers where one stack serves two or more boilers with a total combined input capacity per stack of 2.5 MMBtu/h.
Boiler combustion air fans with motor >= 10 hp shall meet one of the following:
• The fan motor shall be driven by a variable speed drive OR
• The fan motor shall include controls that limit the fan motor demand to <= 30% of the total design wattage at 50% of the design air volume.
07 ☐ ☐ ☐ ☐ Newly installed boilers with an input capacity (at gas) <= 5MMBtu/h and a steady state full-load combustion efficiency < 90% shall maintain excess (stack-gas) oxygen concentrations <= 5% by volume on a dry basis over firing rates of 20-100%. Combustion air volume shall be controlled with respect to firing rate or flue gas oxygen concentration. Use of a common gas and combustion air control linkage or jack shaft is prohibited.
08 ☐ ☐ ☐ ☐

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STATE OF CALIFORNIA Domestic Water Heating System CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-PLB-E
Project Name: 24X40 (PC 04-121369) - Wall AC Report Page: (Page 4 of 6)
Project Address: Climate Zone 14 Date Prepared: 9/7/2023
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.
Documentation Author Name: Lal B. Sangal Documentation Author Signature: Lal Sangal
Company: LSA CONSULTING ENGINEERS Signature Date: 09/07/2023
Address: 83 WINDSWEEP WAY M26885 SEAHERS Certification Identification (if applicable): M26885
City/State/Zip: MISSION VIEJO CA 92692 Phone: (949) 830-4746
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 3 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 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: Lal Sangal Responsible Designer Signature: Lal Sangal
Date Signed: 2023-09-07
Company: LSA Consulting Engineers License: M26885
Address: 83, Windsweep Way Phone: (949) 830-4746
City/State/Zip: Mission Viejo Ca, 92692

STATE OF CALIFORNIA Domestic Water Heating System CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-PLB-E
Project Name: 24X40 (PC 04-121369) - Wall AC Report Page: (Page 5 of 6)
Project Address: Climate Zone 14 Date Prepared: 9/7/2023

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Mandatory Measures: The following notes (items) represent the Mandatory Measures for all buildings.

Heat pumps with supplementary electric resistance heaters shall have controls:
1) That prevent supplementary heater operation when the heating load can be met by the heat pump alone; and
2) In which the cut-on temperature for compression heating is higher than the cut-on temperature for supplementary heating, and the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating.
Sec. 110.2 (b)

The minimum rate of outdoor air required per Section 120.1 (b) 2 shall be supplied to each space at all time the space is usually occupied.
Sec. 120.1 (c) 3

The Lesser of the minimum rate of outdoor air required by Sec. 120.1 (b) 2, or three complete air changes shall be supplied to the entire building during the one-hour period immediately before the building is normally occupied.
Sec. 120.1 (c) 2

Hotel/Motel Guest Room Thermostats shall have numeric temperature set points in degrees F, and set point stops accessible only to authorized personnel, to restrict over-heating and over-cooling.
Sec. 120.2 (c)

All air distribution system ducts and plenums, including, but not limited to, building cavities, mechanical closets, air-handler boxes and support platforms used as ducts or plenums, shall be installed, sealed and insulated to meet the requirements of chapter 6 of the 2001 CMC. Supply-air and return-air ducts conveying heated or cooled air shall be insulated to a minimum installed level of R-8, unless ducts are in conditioned space.
Sec. 120.4 (a)

The thermostatic controls for HVAC systems shall meet the following requirements as applicable:
a) Each space conditioning zone shall be controlled by an individual thermostatic control that responds to temperature within the zone and meets the applicable requirements of Subsection (b).
b) Each Thermostatic control required by Subsection (a) shall be capable of being set locally or remotely by adjustment or selection of sensors to control:
1) Comfort heating down to 55°F or lower.
2) Comfort Cooling up to 85°F or higher.
3) Both heating and cooling, the thermostatic controls shall be capable of providing a temperature range or dead band of at least 5°F within which the supply of heating and cooling energy to the zone is shut off or reduced to a minimum.
Sec. 120.2 (a) & (b)

1) Outdoor air supply and exhaust equipment shall be installed with dampers that automatically close upon fan shutdown.
Sec. 120.2 (f)

2) Demand Control Ventilation Devices (CO2 sensors) shall be installed in accordance with Sec. 120.1 (c) 4.
Sec. 120.1 (c) 4

3) Each space-conditioning system shall be installed with controls that comply with Items 1 and 2 below:
1) Are capable of automatically shutting off the system during periods of non-use and shall have:
a) An automatic time switch control device complying with Sec. 119(c), with an accessible manual override that allows operation of the system for up to 4 hours; or
b) An occupancy sensor; or
c) A four-hour timer that can be manually operated.
d) EXCEPTION: Mechanical systems serving retail stores and associated malls, restaurants, grocery stores, churches, and theaters equipped with 7-day programmable timers.

2) Automatically restart and temporarily operate the system as required to maintain:
a) A setback heating thermostat set point, if the system provides mechanical heating; and
EXCEPTION: Area with the design winter outdoor temperature of greater than 32°F.
b) A setback cooling thermostat set point, if the system provides mechanical cooling.
EXCEPTION: Area with the design summer outdoor temperature of less than 100°F.
EXCEPTION: Systems serving hotel/motel guest rooms, if they have a readily accessible manual shut-off switch.
Sec. 120.2 (e)

4) The piping for all space conditioning and service water heating systems shall be insulated in accordance with TABLE 123-A.
Sec. 120.3

5) Service water heating systems and equipment shall meet the applicable requirements of the Appliance Efficiency Regulations as required by Sec. 110.1.
Sec. 110.3 (b)

6) Service hot water systems with circulating pumps or with electrical heat trace systems shall be capable of automatically turning off the system.
Sec. 110.3 (c) 2

7) Lavatories in public restrooms shall have controls that limit the water supply temperature to 110°F.
Sec. 110.3 (c) 3

PROJECT SPECIFIC STATE AGENCY APPROVAL
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-122805 INC:
REVIEWED FOR
SS ☐ FLS ☐ ACS ☐
DATE: 09/28/2023

R&S TAVARES ASSOCIATES
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WWW.R&STAVARES.COM

PROFESSIONAL STAMP
REGISTERED PROFESSIONAL ARCHITECT
MANLY D. FRENCH
03/31/24
STATE OF CALIFORNIA
05/24/23
RST#22088

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CLIENT
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1320 W. Oleander Ave. Perris CA 92571-7408
VOICE (951) 943-1908/Fax (951) 943-5768

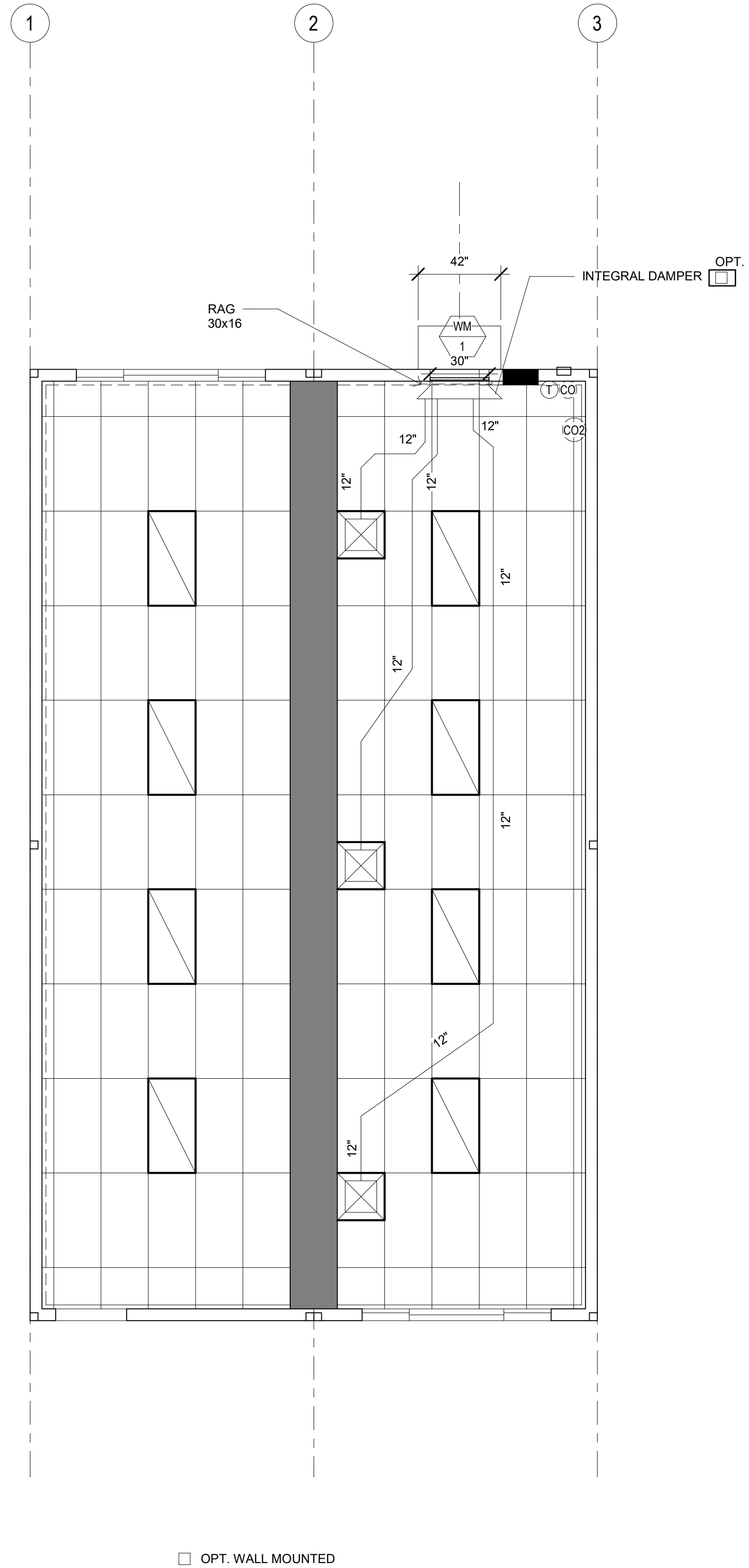
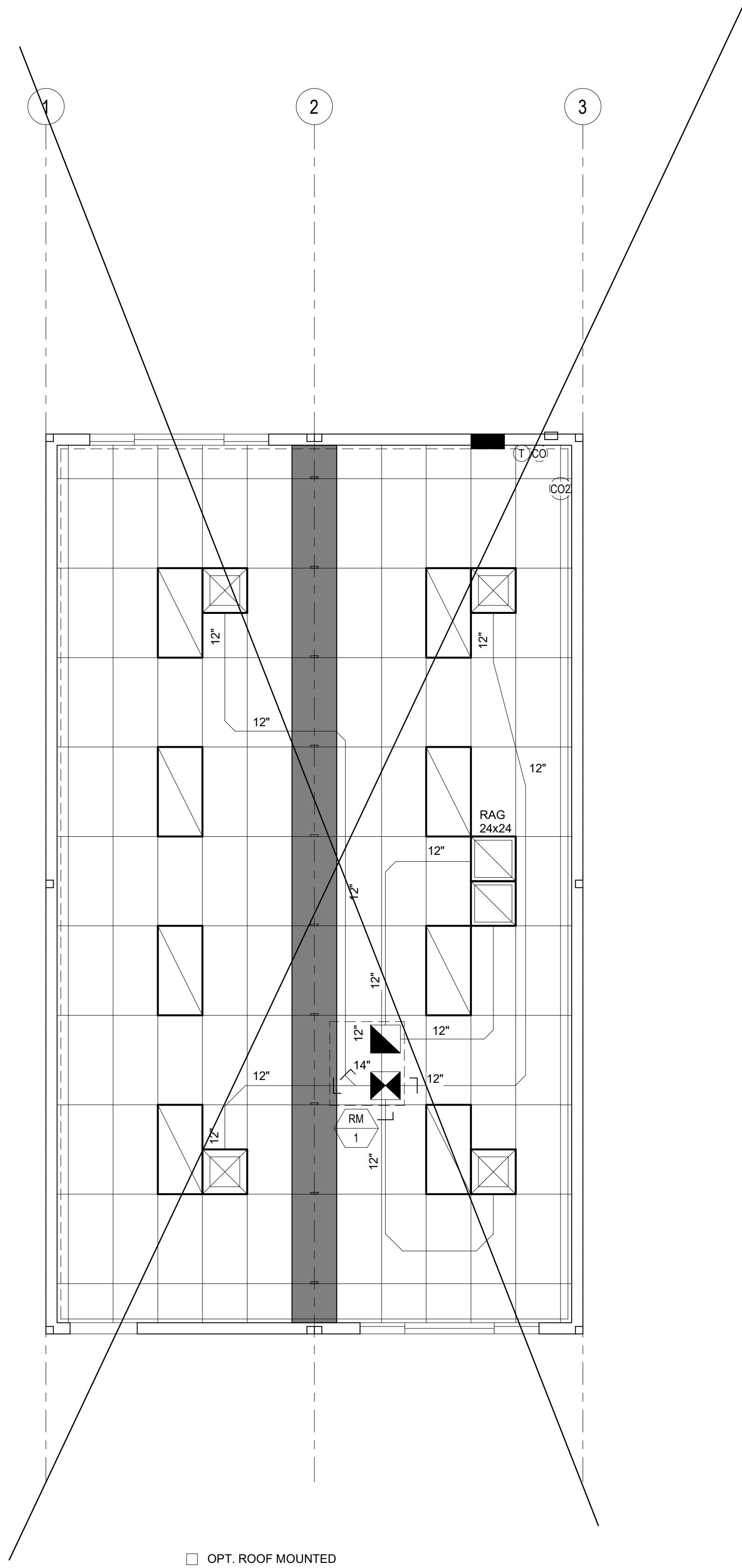
ORIGINAL PC STATE AGENCY APPROVAL
APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-121369 PC
REVIEWED FOR
SS ☐ FLS ☐ ACS ☐ CG ☐
DATE: 09/22/2023

Revision Schedule
Description Date
PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40'
EXPANDABLE TO
120' x 40'

SHEET TITLE
ENVELOPE AND NOTES
PROJECT NUMBER
22088
DRAWN BY
rMc/CG
CHECKED BY
RH/RT
DATE
SHEET NO.
M3.3
SHEET OF

C:\Users\User\Documents\20093 - Aries, 24x40 PC - MainFile - Low Seismic_6.7_CESAR24D63.rvt 6/15/2021 11:53:32 PM



PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122805 INC.
REVIEWED FOR
SS FLS ACS
DATE: 09/28/2023



PROFESSIONAL STAMP
REGISTERED PROFESSIONAL ARCHITECT
MANNY D. FERRER
03380
03/31/24
CALIFORNIA
STATE OF CALIFORNIA
05/24/23
RST#22088

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DIV. OF THE STATE ARCHITECT
APP. 04-121368 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 09/22/2023

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40'
EXPANDABLE TO
120' x 40'

SHEET TITLE
MECHANICAL
CEILING PLAN
24x40

PROJECT NUMBER
22088

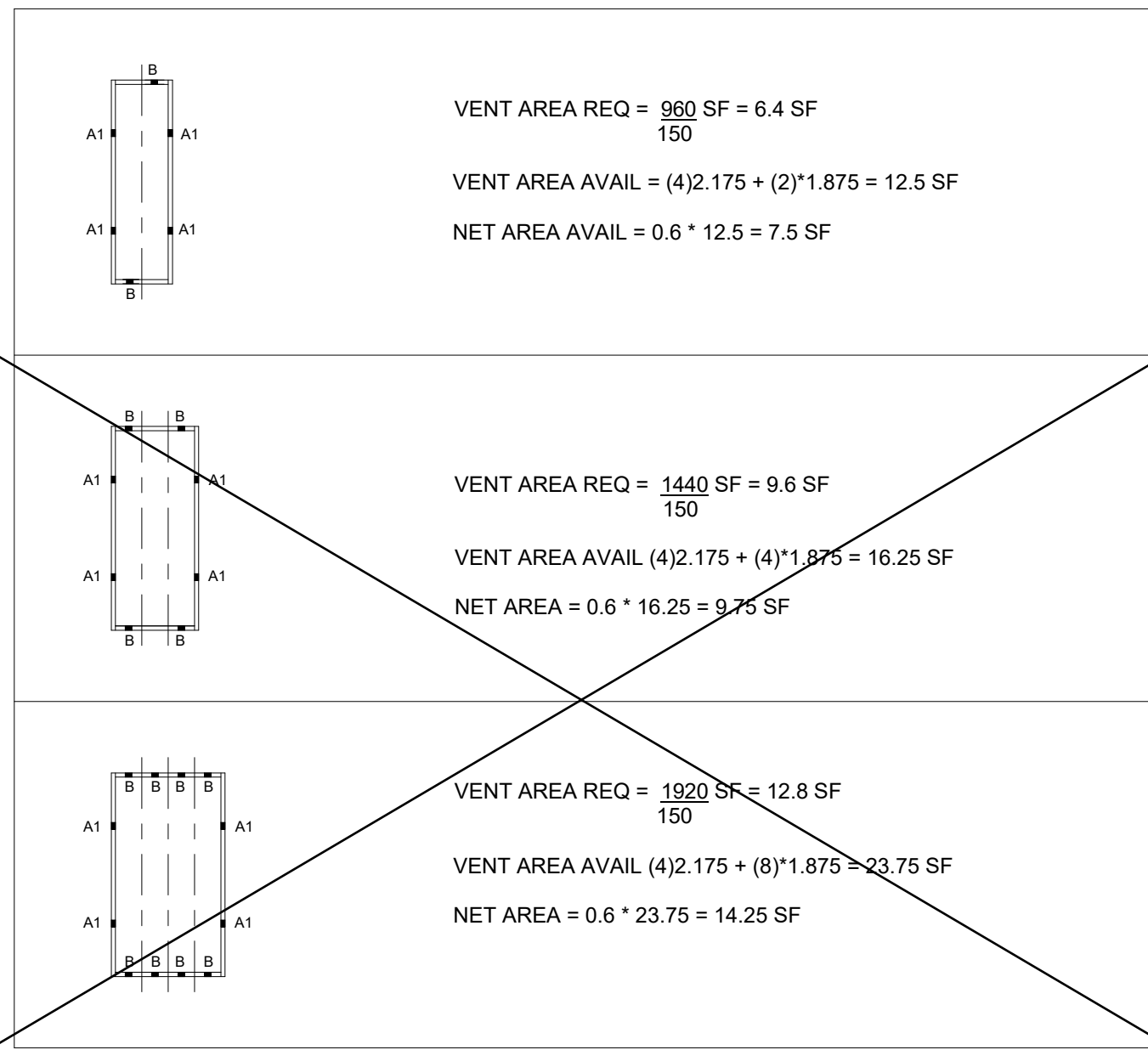
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RH/RT

DATE

SHEET NO.
M5.1

SHEET OF



NOTE: WOOD FOUNDATION EXPANDABLE TO 48x40

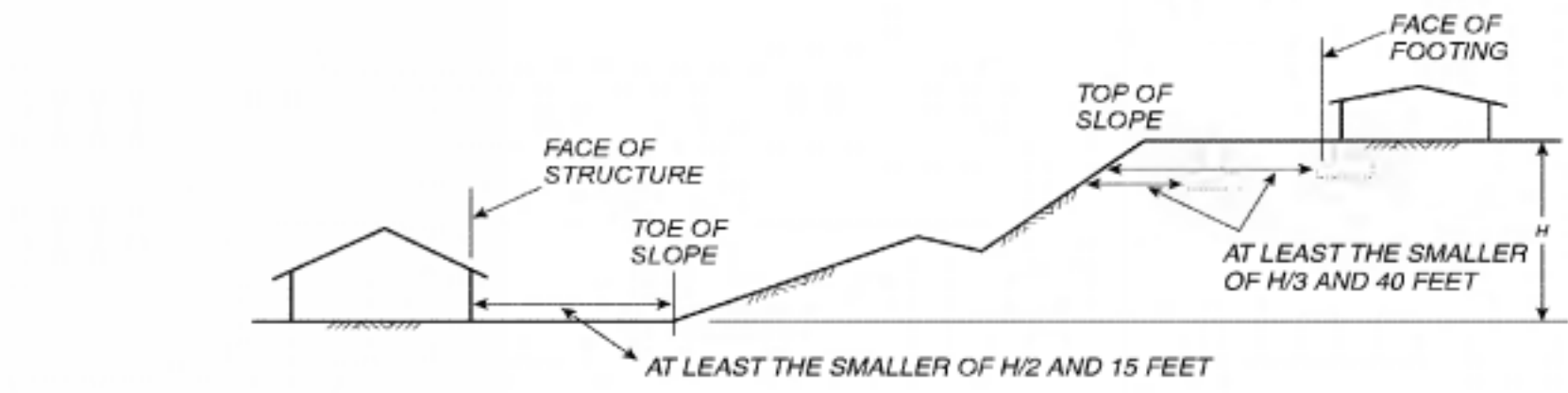


FIGURE 1808.7.1
 FOUNDATION CLEARANCES FROM SLOPES

- WOOD FOUNDATION CONSTRUCTION IS ALLOWED FOR BUILDINGS WITH 2160 AND UNDER.
- SILL PLATES SHALL BE OF FOUNDATION GRADE REDWOOD OR PRESERVATIVE PRESURE TREATED MATERIAL AND IS ALLOWED TO REST DIRECTLY ON SOIL PAVEMENT. MATERIALS ABOVE THE SILL PLATES ARE NOT CONTROLLED BY REQUIREMENT.
- VENTS THAT OCCUR INSIDE RAMP BOUNDARIES SHALL REQUIRE A VENT OF EQUAL SIZE AT RAMP SKIRTING.
- TO PREVENT SLIDING, A 1 INCH G.S. SCHEDULE 40 PIPE (1.315" ACTUAL O.D.) SHALL BE ATTACHED TO SILL PLATE AND ANCHORED INTO THE EARTH W/ 12" MIN EMBEDMENT (PROJECTED VERTICALLY) @ 10' - 0" MAX O.C. AND SHALL BE LOCATED A MAXIMUM OF 2'-0" FROM CORNERS
- STACKED FOUNDATION MEMBERS SHALL BE FASTENED TO ONE ANOTHER W/ CORROSION RESISTANT NAILS.
- WOOD FOUNDATION HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 1,000 PSF IN ABSENSE OF A SOILS INVESTIGATION REPORT PROVIDED BY A LICENSED GEOTECHNICAL ENGINEER.
- REFER TO ARCHITECT'S SITE PLAN FOR DRAINAGE.

3 $1/4" = 1'-0"$
 FOUNDATION SETBACKS

7 $1/4" = 1'-0"$
 NOTES FOR 50+15

KEY PLAN VENTING SCHEDULE	
VENT "A1" (SIDEWALL):	3'-6" x 7'-5" = 2,188 SF VENTILATION AVAILABLE
VENT "B" (ENDWALL):	3'-0" x 7'-5" = 1,875 SF VENTILATION AVAILABLE

SEE 2/F1.40 FOR REFERENCE

(2) 16d NAILS SILL TO BASE CONNECTION FOR 50+15 SEE 7 / F1.10			
	ENDWALL	SIDEWALL	SEPERATION
24x40	7" O.C	12" O.C	12" O.C
36x40	7" O.C	12" O.C	12" O.C
48x40	7" O.C	12" O.C	12" O.C

9 $1/4" = 1'-0"$
 KEY PLAN VENTING SCHEDULE FOR 50+15 PSF

6 $1/4" = 1'-0"$
 NAILING SCHEDULE FOR 50+15

WOOD FOUNDATION PLATE SCHEDULE								
50 + 15 PSF								
PLATES	END WALL	SIDE WALL	MODLINE ENDS	MODLINE INTERIOR	ML "B" ENDS	ML "B" INTERIOR	SEPERATION ENDS	SEPERATION INTERIOR
BOOSTER	2x4	2x4	2x6	2x6	2x8	2x8	2x4	2x4
TOP	2x6	2x6	2x8	2x8	2x10	2x10	2x6	2x6
BASE	2x8	2x8	2x10	2x10	2x12	2x12	2x8	2x8
SILL	2x12	2x12	(6) 2x12, 24" LONG	(6) 2x12, 24" LONG	(8) 2x12, 24" LONG	(8) 2x12, 24" LONG	2x12	2x12

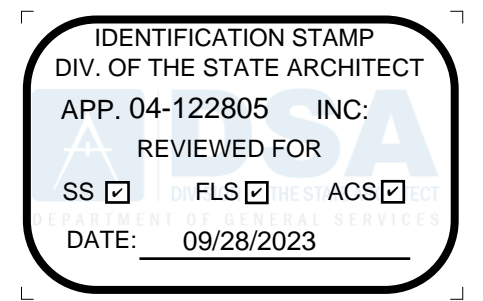
* MODLINE "B" - MODLINE W/ EXT. WALLS BACK-TO-BACK SEE F1.14

TIE PLATE SCHEDULE		
	END WALL	SIDE WALL
24x40	5	3
36x40	7	3
48x40	10	3

8 $1/4" = 1'-0"$
 WOOD FOUNDATION PLATE SCHEDULE FOR 50+15

4 $1/4" = 1'-0"$
 TIE PLATE SCHEDULE FOR 50+15

PROJECT SPECIFIC STATE AGENCY APPROVAL



PROFESSIONAL STAMP

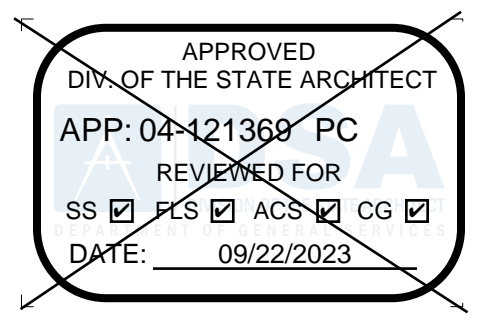


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ORIGINAL PC STATE AGENCY APPROVAL



Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT
 Code: 2022 CBC
 A separate project application for construction is required

PROJECT TITLE
 PC 2022 CBC:24' x 40'
 EXPANDABLE TO
 120' x 40'

SHEET TITLE
 WOOD FOUNDATION NOTES SCHED FOR BLDG W/ 50+15

PROJECT NUMBER
 22088

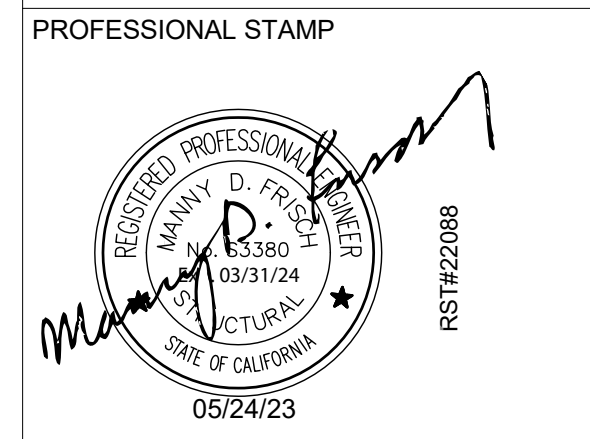
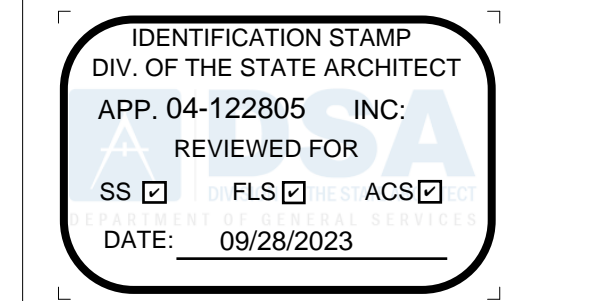
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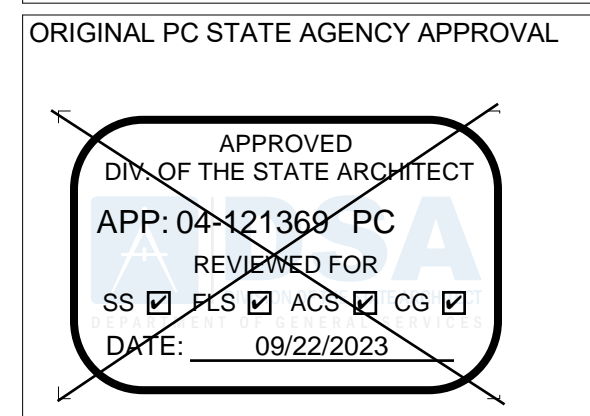
DATE

SHEET NO.
 F1.10

SHEET OF



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Revision Schedule		
#	Description	Date

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
**PC 2022 CBC:24' x 40'
EXPANDABLE TO
120' x 40'**

SHEET TITLE
**WOOD
FOUNDATION
PLAN 24x40 BLDG
W/ 50+15**

PROJECT NUMBER
22088

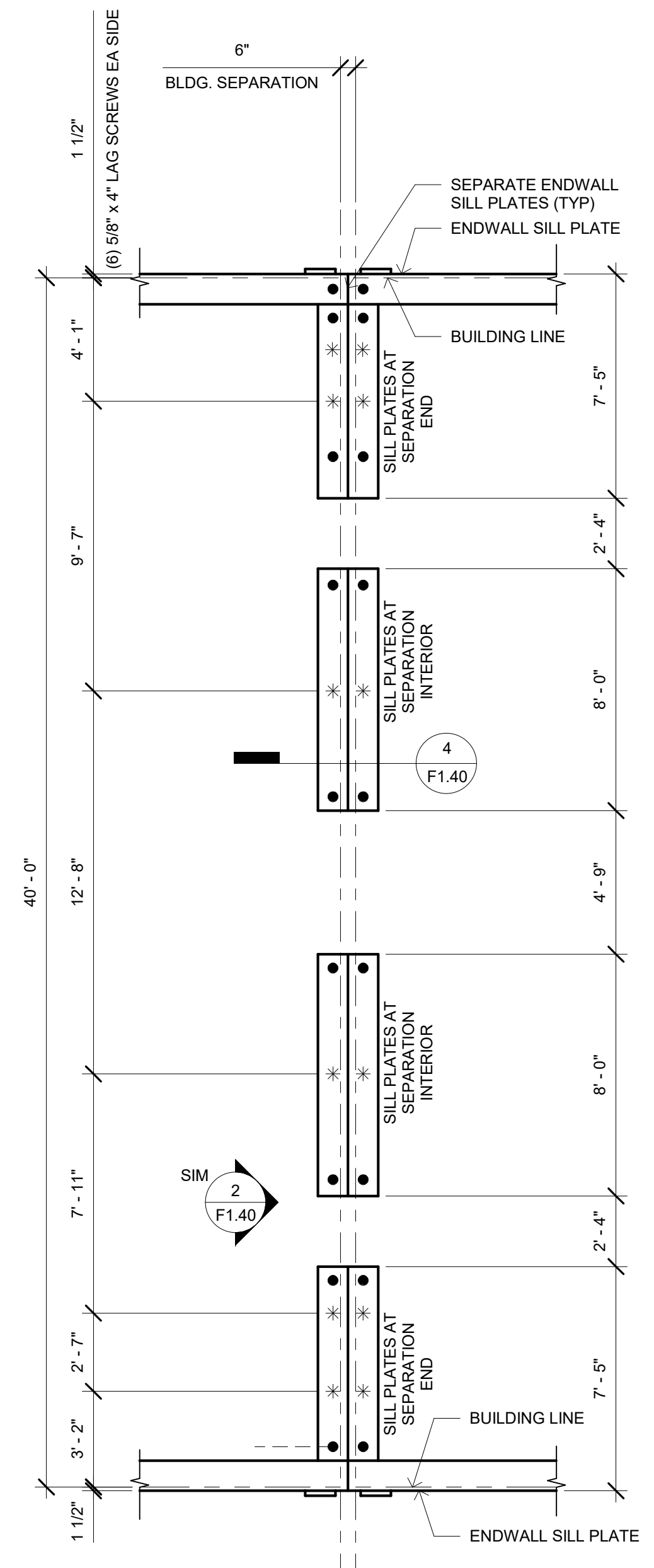
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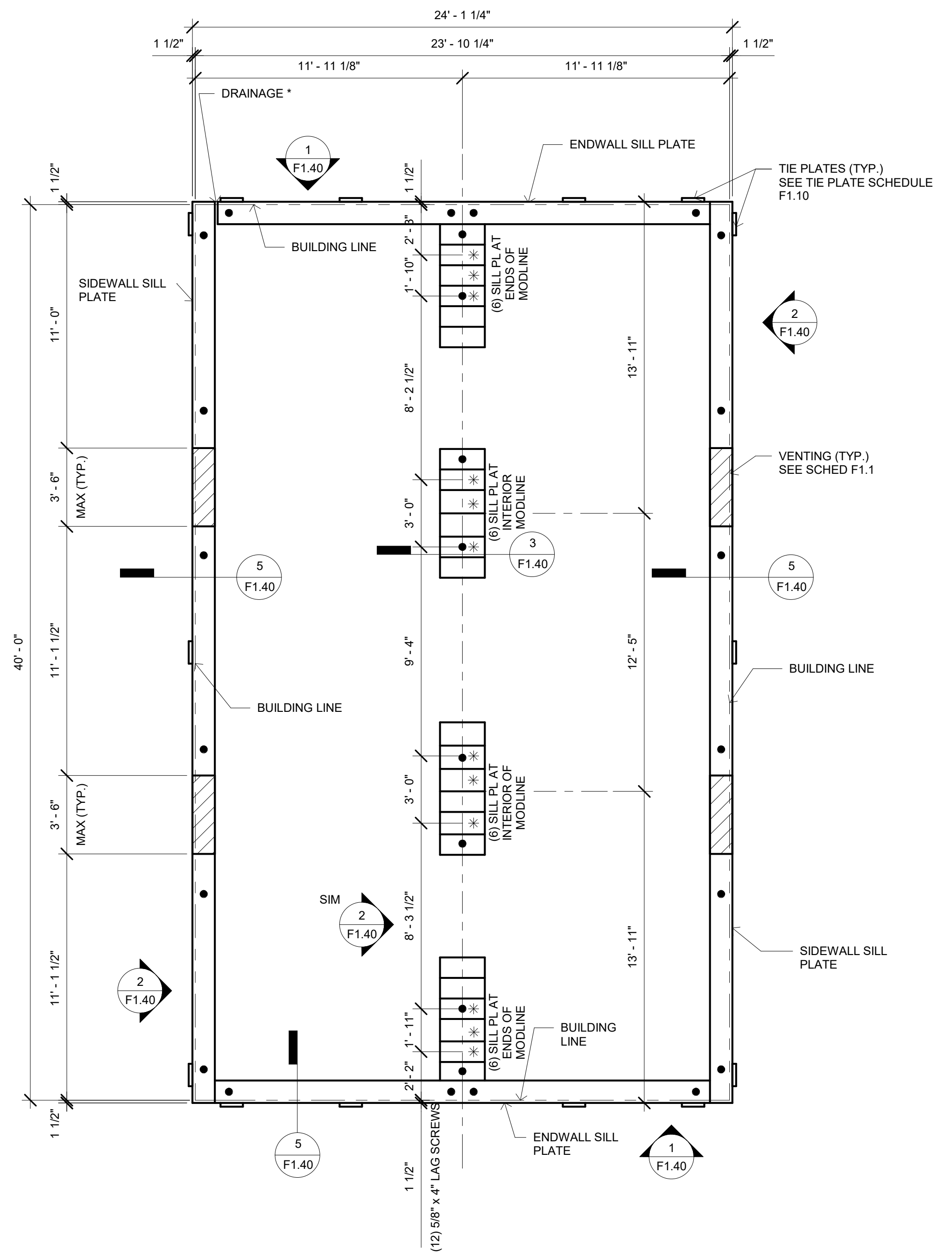
DATE

SHEET NO.
F1.11

SHEET OF



SYMBOLS LEGEND	
*	LAG SCREWS (6 TOTAL EACH SIDE)
●	SILL RESTRAINTS (SEE NOTE #4, 7 / F1.10)



SYMBOLS LEGEND	
*	LAG SCREWS (12 TOTAL)
●	SILL RESTRAINTS (SEE NOTE #4, 7 / F1.10)

* REFER TO ARCHITECTURAL SITE PLAN FOR DRAINAGE

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3 1/4" = 1'-0"
FOOTING AT SEPARATION

2 1/4" = 1'-0"
24x40 FOUNDATION PLAN

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PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP. 04-122805 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 09/28/2023

R&S TAVARES ASSOCIATES
 DESIGN & CONSULTING & PROJECT MGT
 11500 W BERNHARD COURT, SUITE 100
 SAN DIEGO, CA 92127
 WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ARCHITECT
 MANNY D. FRIEDL
 65380
 03/31/24
 CALIFORNIA
 STATE OF CALIFORNIA
 05/24/23
 RST#22088

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 APP. 04-121368 PC
 REVIEWED FOR
 SS FLS ACS CG
 DATE: 09/22/2023

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT
 Code: 2022 CBC
 A separate project application for construction is required

PROJECT TITLE
**PC 2022 CBC:24' x 40'
 EXPANDABLE TO
 120' x 40'**

SHEET TITLE
**MODLINE "B" W/
 EXTERIOR WALLS
 BACK-TO-BACK 50+15
 PSF**

PROJECT NUMBER
 22088

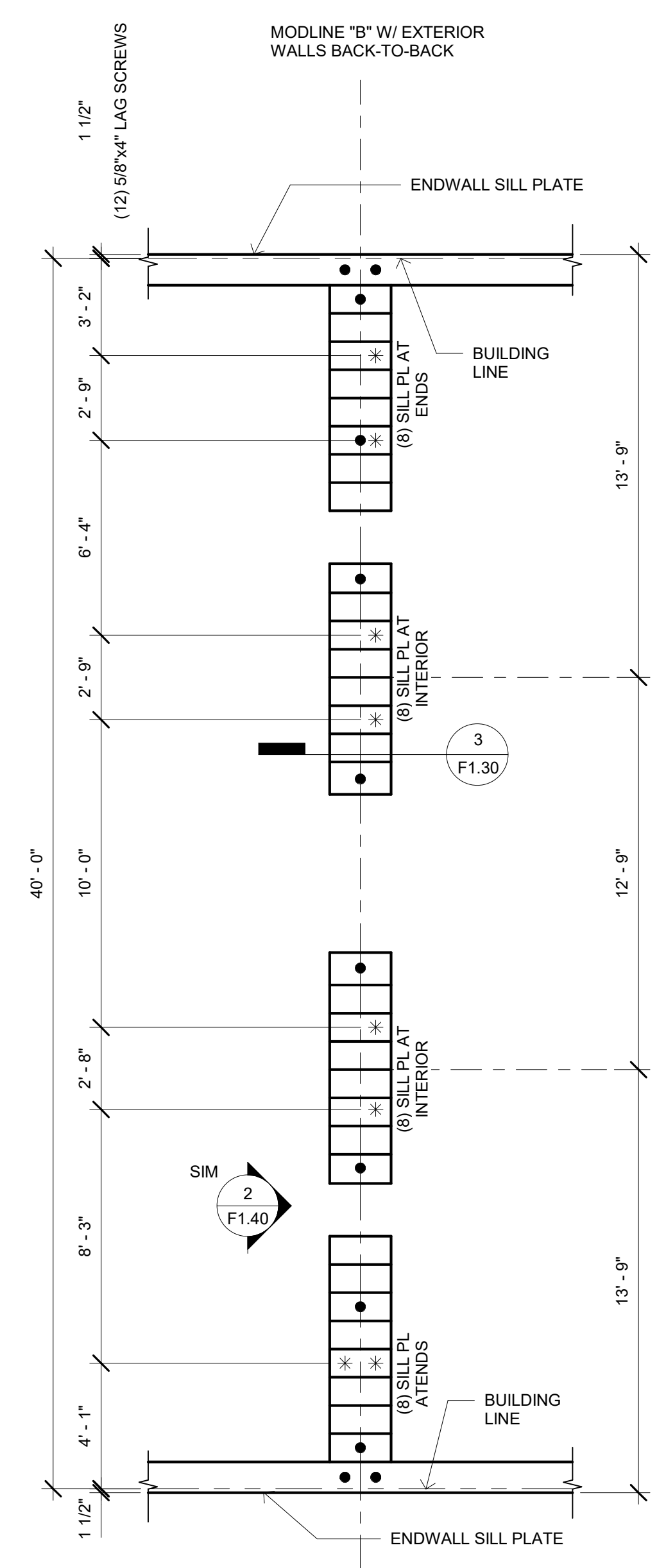
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DATE

SHEET NO.
F1.14

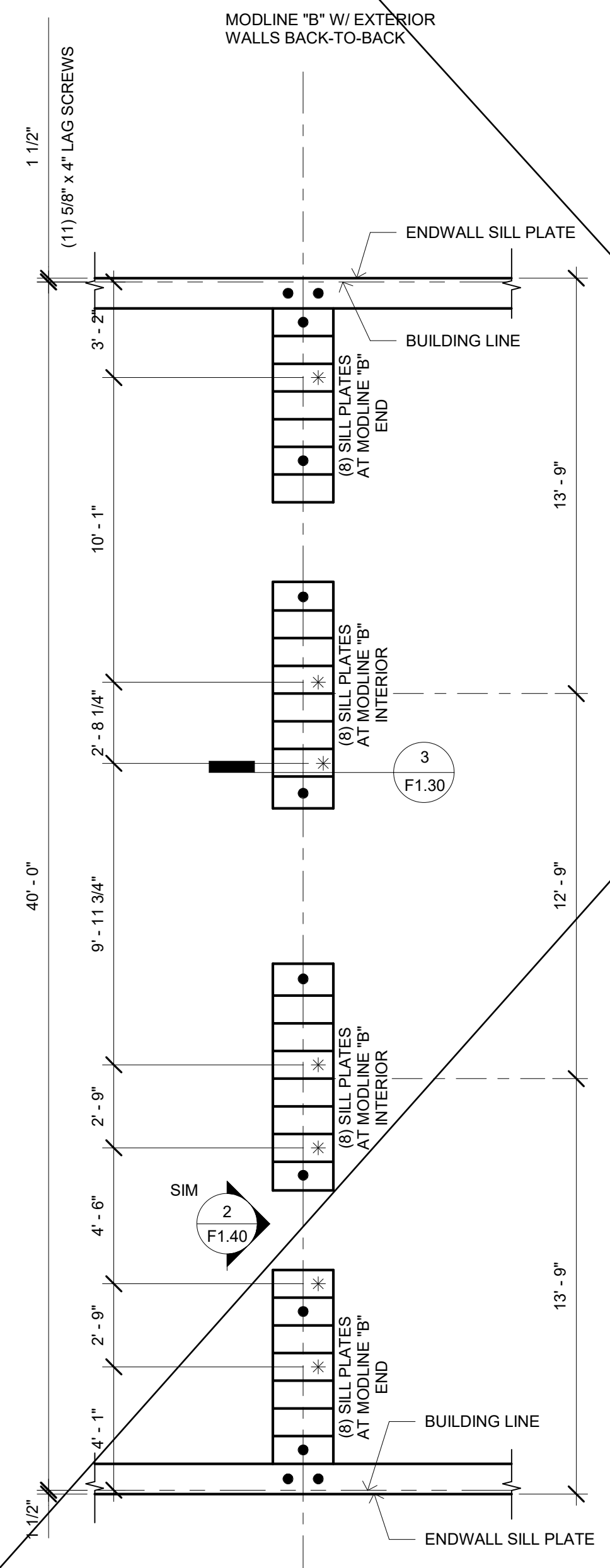
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SYMBOLS LEGEND
 * LAG SCREWS (12 TOTAL)
 ● SILL RESTRAINTS (SEE NOTE #4.7 / F1.10)

NOTE: IT IS ONLY APPROPRIATE WHERE ADJACENT MODULE IS BOLTED AND DOES NOT EXCEED 36 FEET WIDE TOGETHER (2160 SF. TOTAL AREA)

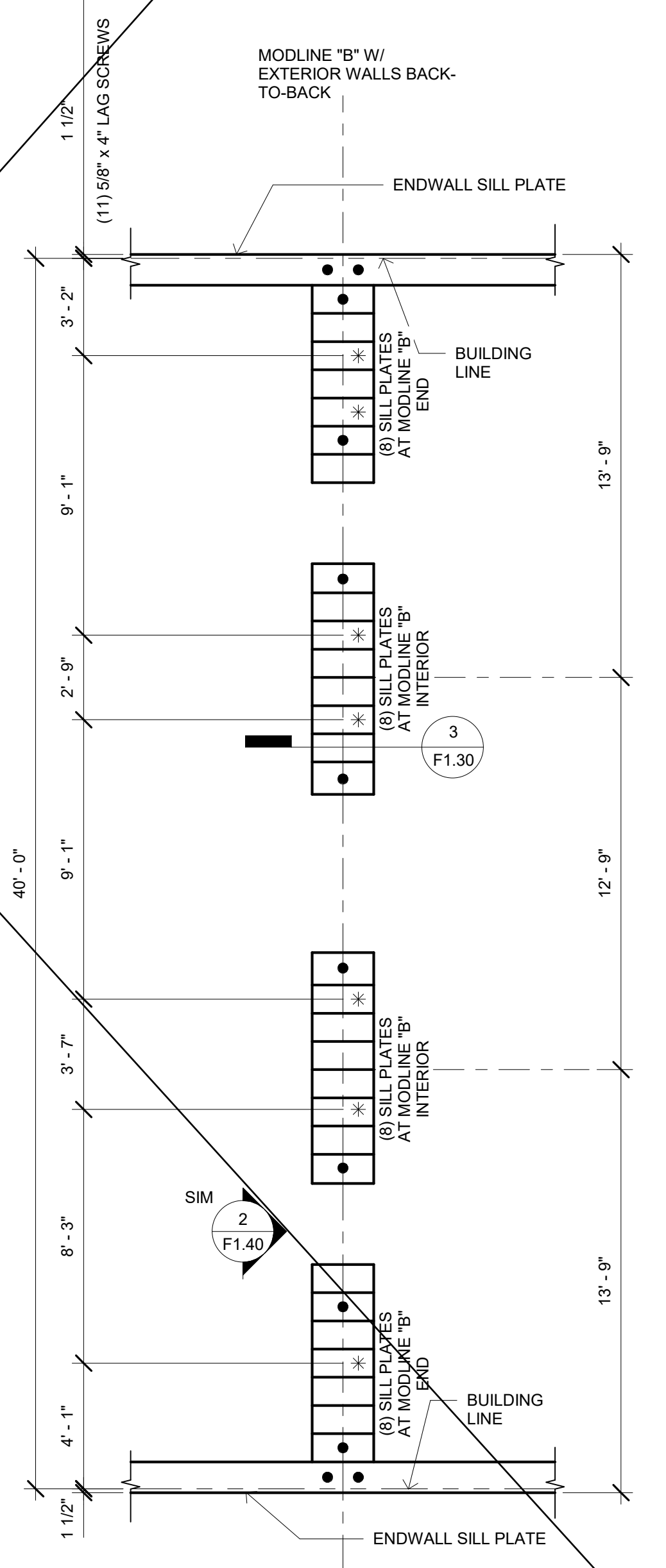
1 1/4" = 1'-0"
 FOOTING AT MODELINE TYPE "B", 24x40



SYMBOLS LEGEND
 * LAG SCREWS (11 TOTAL)
 ● SILL RESTRAINTS (SEE NOTE #4.7 / F1.10)

NOTE: IT IS ONLY APPROPRIATE WHERE ADJACENT MODULE IS BOLTED AND DOES NOT EXCEED 36 FEET WIDE TOGETHER (2160 SF. TOTAL AREA)

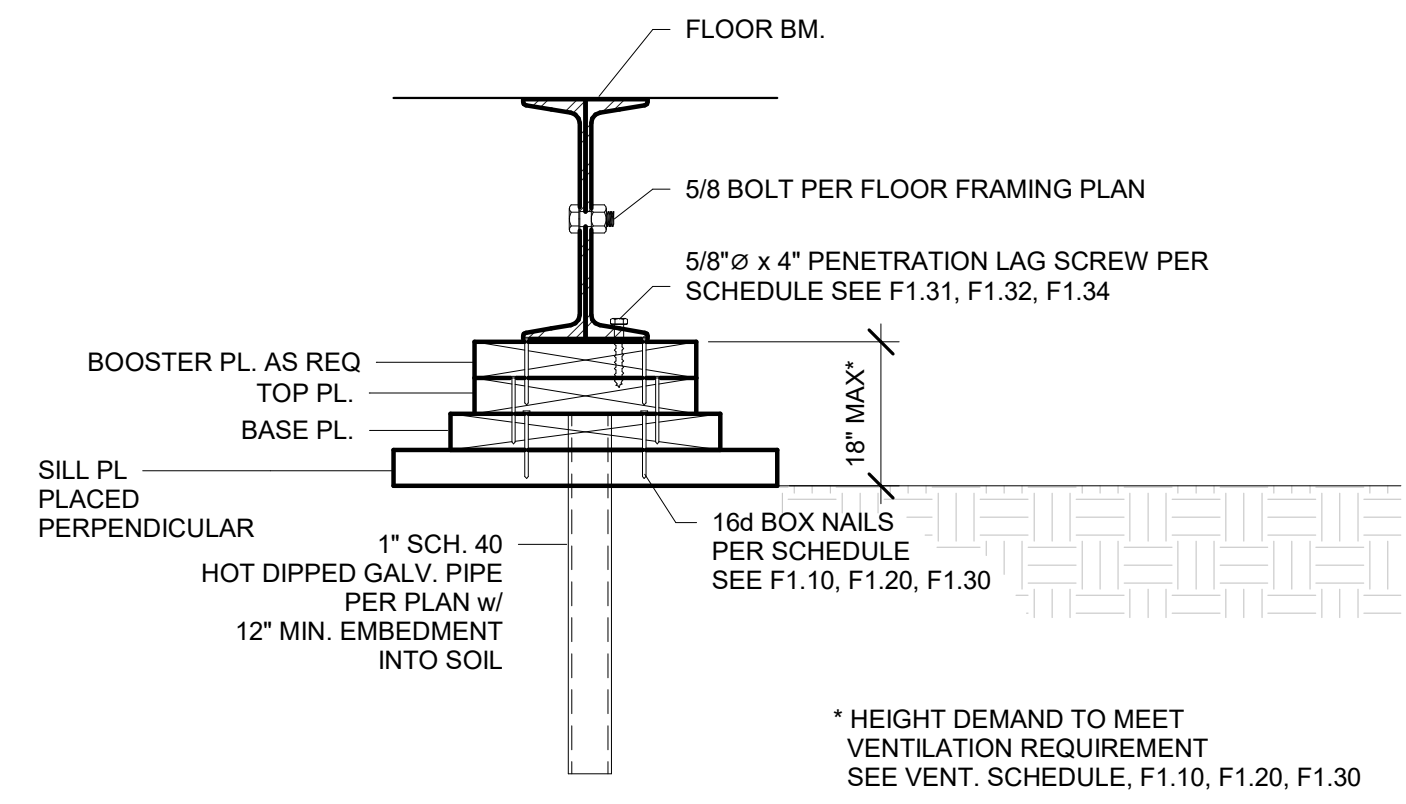
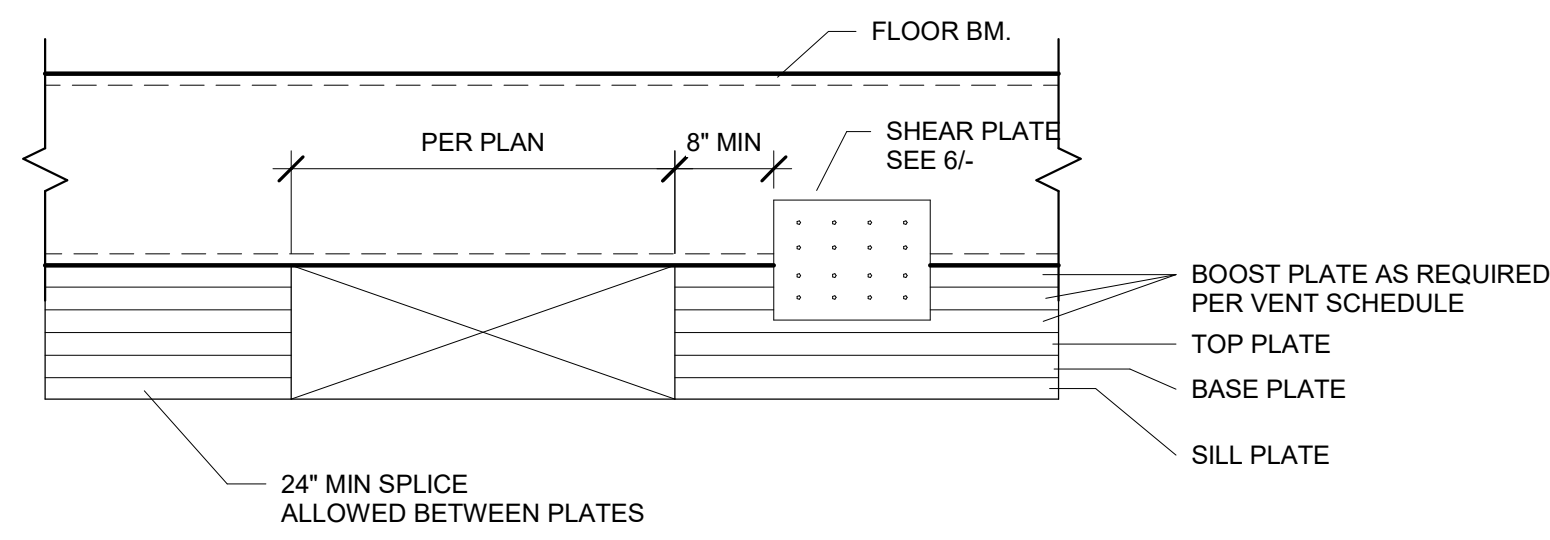
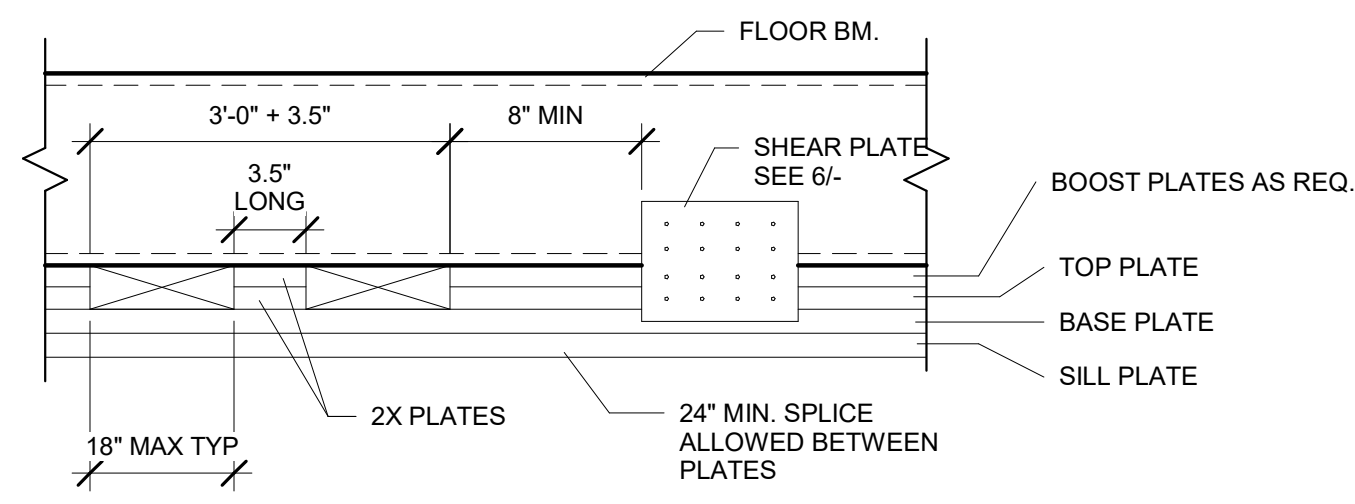
2 1/4" = 1'-0"
 FOOTING AT MODELINE TYPE "B", 36x40



SYMBOLS LEGEND
 * LAG SCREWS (11 TOTAL)
 ● SILL RESTRAINTS (SEE NOTE #4.7 / F1.10)

NOTE: IT IS ONLY APPROPRIATE WHERE ADJACENT MODULE IS BOLTED AND DOES NOT EXCEED 36 FEET WIDE TOGETHER (2160 SF. TOTAL AREA)

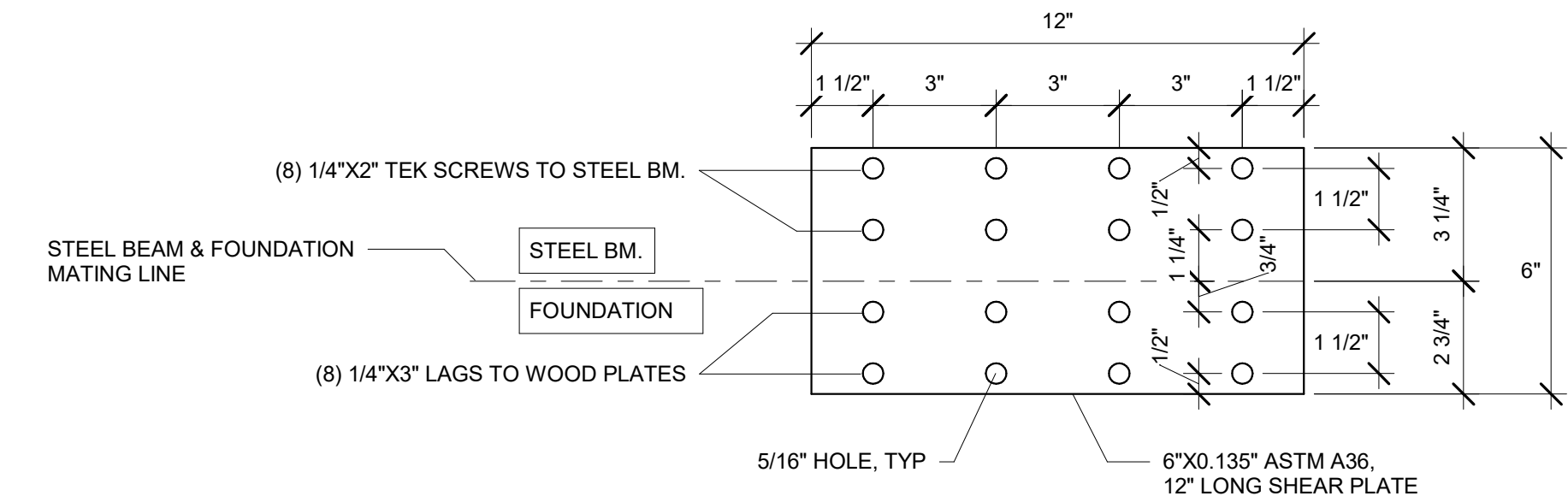
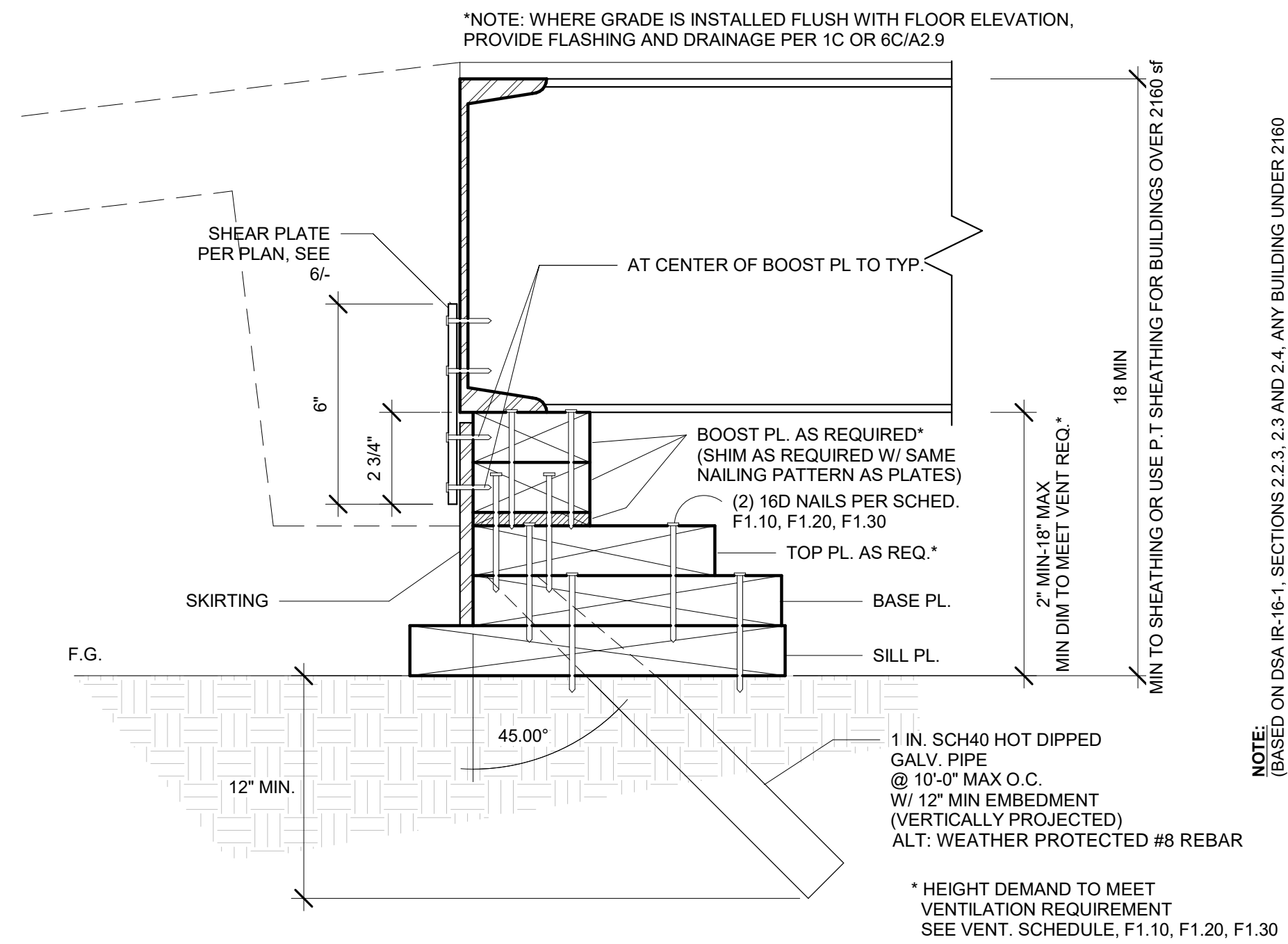
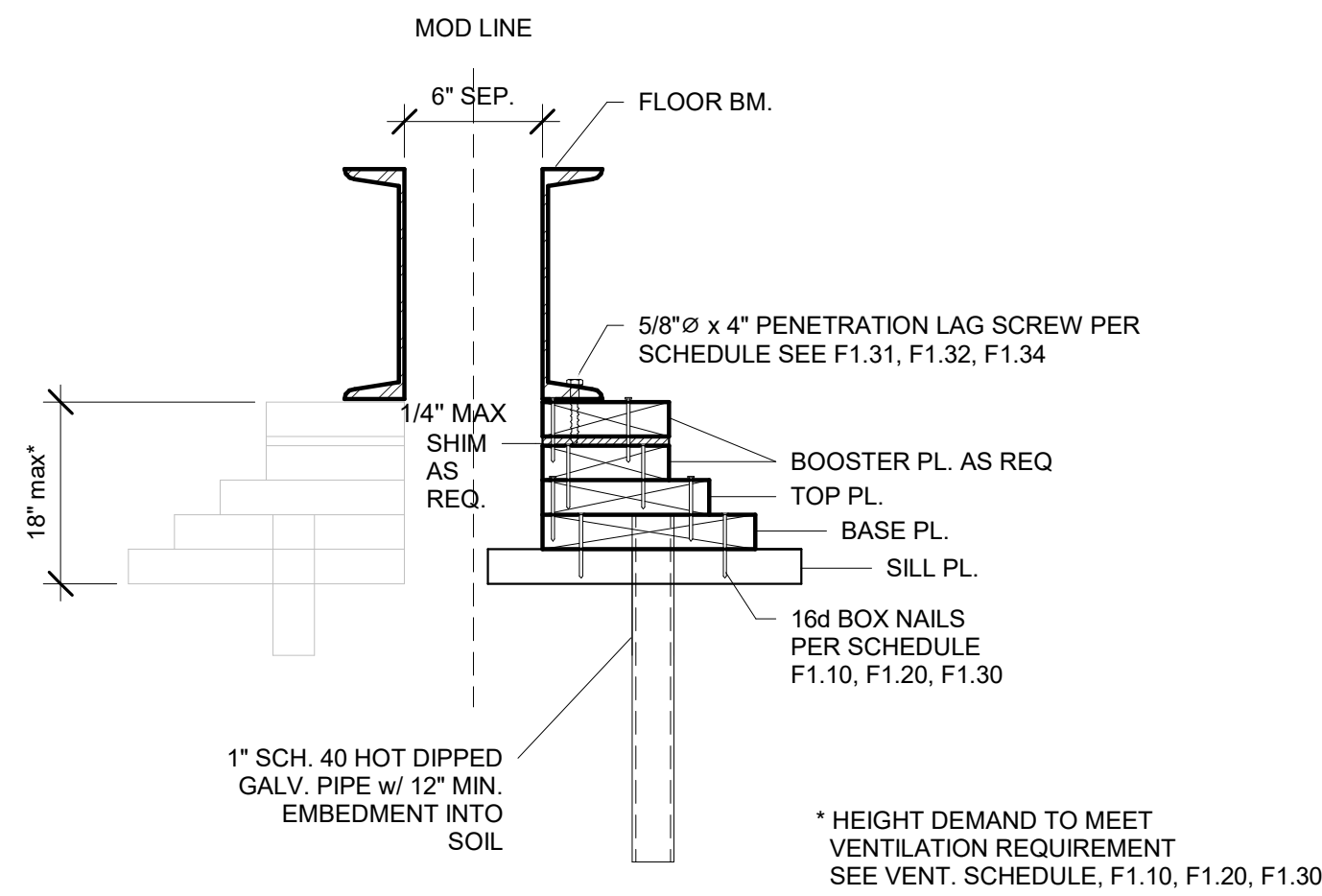
3 1/4" = 1'-0"
 FOOTING AT MODELINE TYPE "B", 48x40



1 1 1/2" = 1'-0"
VENT OPENING OVER BASE PLATE

2 1 1/2" = 1'-0"
VENT OPENING @ SIDEWALL OR MODLINE @ SEPERATION

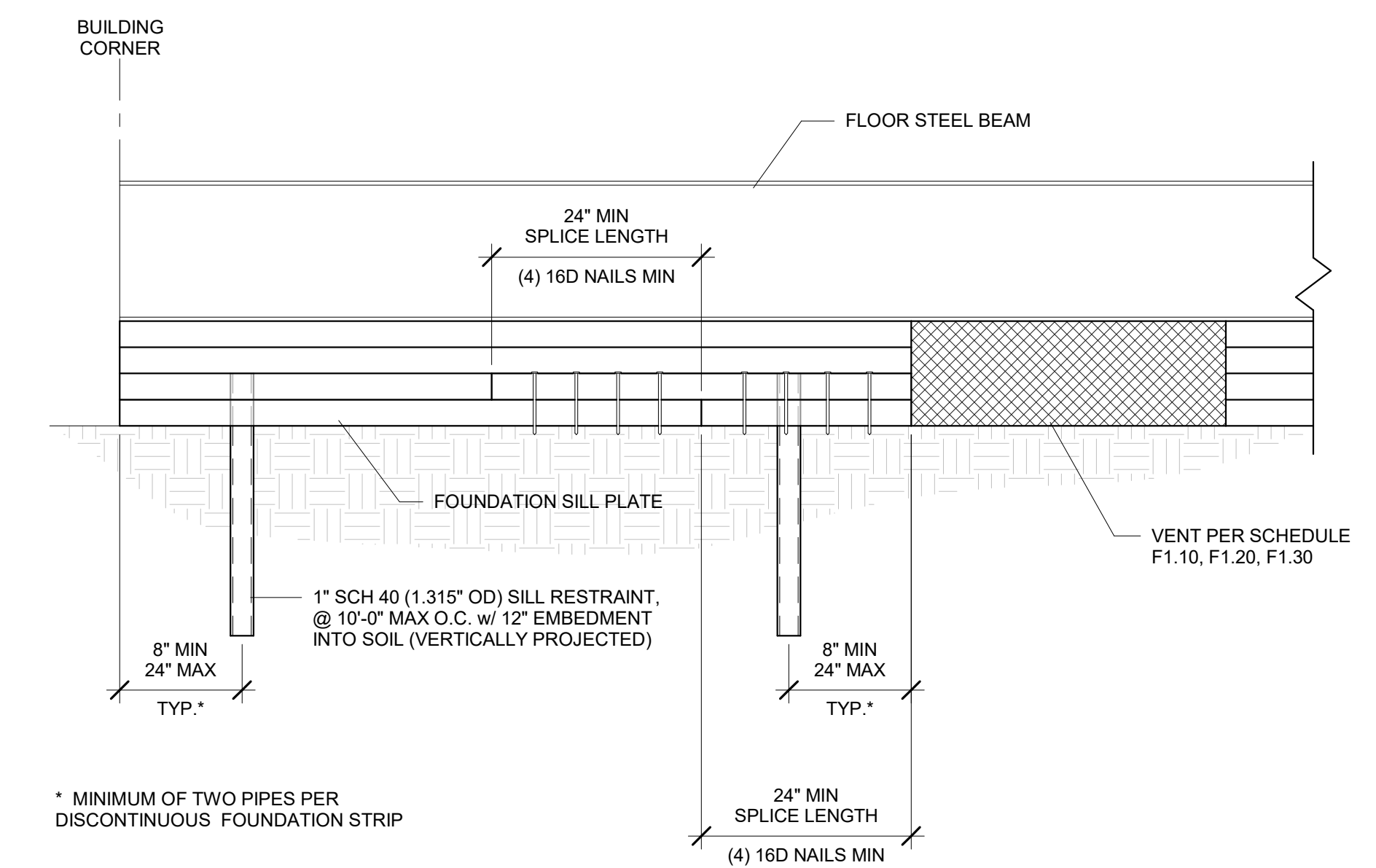
3 1 1/2" = 1'-0"
FOUNDATION PAD AT MOD LINE



4 1 1/2" = 1'-0"
FOUNDATION PAD AT SEPERATION

5 3" = 1'-0"
SILL PLATE PROFILE

6 3" = 1'-0"
SHEAR PLATE



7 1 1/2" = 1'-0"
Splice at Sills

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122805 INC.
REVIEWED FOR
SS FLS ACS
DATE: 09/28/2023

R&S TAVARES ASSOCIATES
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PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ARCHITECT
MANNY D. FLORES
03380
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RST#22088

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DIV. OF THE STATE ARCHITECT
APP. 04-121368 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 09/22/2023

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
WOOD FOUNDATION DETAILS

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

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DATE

SHEET NO.
F1.40

SHEET OF

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STRUCTURAL STEEL:

- ALL WORK, UNLESS MODIFIED BY THE CONTRACT DOCUMENTS, SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT AISC SPECIFICATIONS AND STANDARDS.
- STEEL SHAPES SHALL CONFORM TO THE FOLLOWING STANDARD:
 - STRUCTURAL HSS COLUMNS: ASTM A500 GRADE B
 - STRUCTURAL W-SHAPES: ASTM A992 GRADE 50
 - TUBE STEEL: ASTM A500 GRADE A
 - ALL OTHER: ASTM A36
- FABRICATION, ERECTION, AND SHOP PAVING SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDING AND BRIDGES.
- HOLES IN STRUCTURAL STEEL SHALL NOT BE PERMITTED, UNLESS SPECIFIED IN THE STRUCTURAL DRAWINGS

CONCRETE

- ALL CONCRETE WORK, UNLESS MODIFIED BY CONTRACT DOCUMENTS, SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 19A, CBC 2022 AND ACI 318-19.
- TESTS AND INSPECTION SHALL BE PERFORMED BY A TESTING LABORATORY CONTRACTED BY THE DISTRICT.
- MIX DESIGN SHALL BE SUBMITTED FOR QUALIFICATION AND PROVIDE A 28-DAY COMPRESSIVE STRENGTH f_c OF 5000 PSI, COMPOSED OF NORMAL WEIGHT TYPE I PORTLAND CEMENT IN CONFORMANCE WITH ASTM C150.
- FORMWORK SHALL RESULT IN FINAL STRUCTURE THAT CONFORMS TO SHAPES, LINES, AND DIMENSIONS AS REQUIRED BY THE CONTRACT DOCUMENTS.
- LOCATIONS OF VENTS AND OPENINGS FOR MECHANICAL AND ELECTRICAL USE SHALL BE VERIFIED BY ARCHITECT.
- EMBEDMENT OF MATERIALS NOT HARMFUL TO CONCRETE AND WITHIN LIMITATIONS OF SECTION 20.6, ACI 318-19 SHALL BE PERMITTED. REFER TO OTHER DISCIPLINES FOR LOCATION OF CONDUIT, PIPES, FITTINGS, SLEEVES, ETC.
- CONTINUOUS BATCH PLANT INSPECTION WAIVED PER CBC 1705A3.3. WHEN CONTINUOUS BATCH PLANT INSPECTION WAIVED, THE FOLLOWING PERIODIC INSPECTION SHALL BE REQUIRED: (INSPECTIONS PROVIDED BY DISTRICT)
 - QUALIFIED TECHNICIAN OF THE TESTING LABORATORY SHALL CHECK THE FIRST BATCH AT THE START OF THE DAY.
 - LICENSED WEIGHMASTER TO POSITIVELY IDENTIFY MATERIALS AS TO QUANTIFY AND CERTIFY TO EACH LOAD BY A BATCH TICKET.
 - BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD, SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY A TRUCK DRIVER WITH THE LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR WILL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK, ITS LOAD, AND TIME OF RECEIPT, AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND WILL TRANSMIT A COPY OF THE DAILY RECORD TO THE ENFORCEMENT AGENCY.
- ANCHOR BOLTS, AND REINFORCING STEEL SHALL BE SECURELY TIED BEFORE CONCRETE IS POURED.

CONCRETE MIX

IN ADDITION TO THOSE REQUIREMENTS DICTATED BY THE PC DESIGN, THE CONCRETE MIX USED IN THE FOUNDATION ELEMENTS SHALL COMPLY WITH THE DURABILITY REQUIREMENTS OF AMERICAN CONCRETE INSTITUTE (ACI) 318 SECTION 19.3. THE PC DRAWINGS SHALL ACCOUNT FOR THE DEPENDENCY OF THESE DURABILITY REQUIREMENTS ON SITE-SPECIFIC CHARACTERISTICS.

- WHEN THE PC DRAWINGS DO NOT REQUIRE A SITE-SPECIFIC GEOTECHNICAL REPORT THAT QUANTIFIES SULFATE CONTENT IN THE SOIL, THE PC DRAWINGS SHALL REQUIRE A CONCRETE MIX SHALL COMPLY WITH ONE OF THE FOLLOWING PER ACI 318 TABLE 19.3.2.1. SEE THIS SHEET A.1 & A.2 FOR OPTIONS
- MAXIMUM WATER/CEMENT RATION OF 0.45; MINIMUM COMPRESSIVE STRENGTH OF 4,500 POUNDS PER SQUARE INCH (PSI); TYPE V CEMENT PLUS POZZOLAN OR SLAG CEMENT COMPLYING WITH FOOTNOTE 7; AND PROHIBITION OF ADMIXTURES CONTAINING CALCIUM CHLORIDE
- MAXIMUM WATER/CEMENT RATIO OF 0.40; MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI; TYPE V CEMENT COMPLYING WITH FOOTNOTE 8; AND PROHIBITION OF ADMIXTURES CONTAINING CALCIUM CHLORIDE.
- WHEN THE PC DRAWINGS REQUIRE A SITE-SPECIFIC GEOTECHNICAL REPORT THAT QUANTIFIES SULFATE CONTENT IN THE SOIL, THE PC DRAWINGS SHALL CLEARLY STATE THE EXPOSURE CLASS FOR EACH CATEGORY (I.E., F, S, W, AND C) OR COMBINATION THEREOF. THE PC DESIGN IS APPROVED FOR THE MAXIMUM WATER/CEMENT RATIO, MINIMUM COMPRESSIVE STRENGTH, CEMENTITIOUS MATERIAL REQUIREMENTS, AND ADMIXTURE LIMITATIONS SHALL BE STATED ON THE PC DRAWINGS FOR EACH APPROVED CASE.
- BOTH APPROACHES GIVEN SECTIONS 5.5.1 AND 5.5.2 ABOVE CAN BE INCLUDED ON THE PC DRAWINGS AS ALTERNATE OPTIONS IN ACCORDANCE WITH SECTION 1.4 ABOVE
- CONCRETE EXPOSE TO THAW AND FREEZE CYCLES SHALL BE AIR ENTRAINED PER ACI 318 SECTION 19.3.3.1

STEEL REINFORCEMENT

- DEFORMED BARS SHALL CONFORM TO ASTM A615.
- f_y = 60,000 PSI, FOR ALL BARS EXCEPT FOR #3 BARS, f_y = 40,000 PSI
- PROVIDE A MINIMUM CONCRETE COVER FOR REINFORCEMENT EMBEDDED IN:
 - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH = 3"
 - CONCRETE EXPOSED TO EARTH OR WEATHER FOR #5 BARS OR SMALLER = 1.5"
- SPLICE LENGTHS SHALL BE A MINIMUM OF 48" FOR #5 BARS, AND 30" FOR #4 BARS UNLESS OTHERWISE SPECIFIED IN DRAWINGS.

BOLTS

- ALL BOLTS AND ANCHOR BOLTS SHALL CONFORM TO ASTM A-307
- BOLTS EXPOSED TO THE ELEMENTS SHALL BE GALVANIZED BY THE HOT-DIP OR MECHANICAL PROCESS

WELDING

- ALL WELDING SHALL BE IN CONFORMANCE TO:
 - AWS D1.1, EXCEPT AS MODIFIED IN SECTION J2, AISC-360 FOR STEEL
 - AWS D1.3 FOR LIGHT GAUGE STEEL
 - AWS D1.4 FOR REINFORCING STEEL
- ELECTRODE CLASSIFICATION:
 - E70XX FOR STEEL AND CONCRETE STEEL REINFORCEMENT
 - E60XX FOR LIGHT GAUGE STEEL
- WELDS SHALL BE CAPABLE OF PRODUCING THE FOLLOWING V-NOTCH TOUGHNESS AS DETERMINED BY APPROPRIATE AWS A5 CLASSIFICATION TEST METHOD OR MANUFACTURER CERTIFICATION:
 - LATERAL FORCE RESISTING SYSTEM (LFRS) = 20 FT-LB AT 0 DEGREE F
 - COMPLETE JOINT PENETRATION GROOVE WELD = 20 FT-LB AT 40 DEGREE F
- SHOP AND FIELD WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS.
- INSPECTION:
 - PERIODIC INSPECTION OF FILLET WELDS LESS THAN OR EQUAL TO 5/16", FLOOR AND ROOF DECK WELDS.
 - CONTINUOUS INSPECTION FOR OTHER WELDS.
- NONDESTRUCTIVE TESTING (NDT):
 - ULTRASONIC TESTING SHALL BE PERFORMED ON 100 PERCENT OF CJP GROOVE WELDS IN MATERIALS 5/16" OR THICK OR GREATER. ULTRASONIC TESTING NOT PROVIDED FOR MATERIALS LESS THAN 5/16" THICK. TESTING FREQUENCY MAY BE REDUCED TO 25%, PROVIDED PROVISIONS SET FORTH IN SECTION N5.5e, AISC-360 IS MET.
 - MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25 PERCENT OF ALL BEAM-TO-COLUMN CJP GROOVE WELDS. TESTING FREQUENCY MAY BE REDUCED TO 10%, PROVIDED PROVISIONS SET FORTH IN J6.2g, AISC-341 IS MET.

FOUNDATIONS

GEOTECHNICAL INVESTIGATION SHALL BE CONDUCTED IN ACCORDANCE WITH SECTION 1803A.1 THROUGH 1803A.8 BY GEOTECHNICAL ENGINEER CONTRACTED BY THE DISTRICT. ALLOWABLE FOUNDATION AND LATERAL SOIL PRESSURE VALUES MAY BE DETERMINED FROM TABLE 1806A.2, WHERE GEOTECHNICAL REPORTS IS NOT REQUIRED PER SECT 1803A.2. A MAXIMUM ALLOWABLE SOIL PRESSURE OF 1000 PSF AND 1500 PSF SHALL BE PERMITTED FOR TEMPORARY W AND PERMANENT CONCRETE FOUNDATIONS RESPECTIVELY IN ACCORDANCE WITH SECTION 4.6, IR 16-1

A PREVIOUS REPORT FOR A SPECIFIC SITE MAY BE RESUBMITTED. THE ALLOWABLE FOUNDATION AND LATERAL SOIL PRESSURE VALUES ARE ALLOWED A 33% INCREASE FOR SHORT TERM WIND AND SEISMIC LOADS.

THE DISTRICT SHALL BE RESPONSIBLE FOR EXCAVATION, BACKFILL, SETTING ELEVATIONS, CRAMING AND RIGGING. PROVIDE SHIMS TO LEVEL BUILDING WITHIN 1/2" TOLERANCE.

COLD-FORMED STEEL

- ALL WORK SHALL, UNLESS MODIFIED BY THE CONTRACT DOCUMENTS, SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT AISI SPECIFICATIONS AND STANDARDS.
- MATERIAL SPECIFICATION:
 - ASTM A-1011/A1, GRADE 33 FOR MATERIALS THICKNESS 0.120 OR LESS UNLESS OTHERWISE NOTED
 - ASTM A-1003, GRADE 33 TYPE H FOR LIGHT GAUGE STUDS AND TRACKS
 - SHAPES SHALL BE DIMENSIONED TO SSMA SPECIFICATIONS.
- SCREWS EXPOSED TO THE ELEMENTS SHALL BE GALVANIZED

STEEL DECK

MINIMUM THICKNESS PERMITTED FOR FLOOR STEEL DECKS IS 20GA, PER DSA IR 16-1, 1.2.1, MINIMUM THICKNESS OF NON-STRUCTURAL STEEL ROOF DECKING IS 26GA. STANDING SEAM ROOF PANELS ARE GRADE 40 SHEET STEEL WITH ALUMINUM ZINC COATING CONFORMING TO ASTM A792 AND A255.

CHANGES

CHANGES AFFECTING STRUCTURAL PORTION OF THE APPROVED PC SHALL NEED DSA APPROVAL AND SHALL BE CLASSIFIED AS CCD CATEGORY A.

WOOD

ALL FRAMING LUMBER SHALL BE GRADE MARKED BY AN APPROVED GRADING AGENCY

SHEATHING:

EACH SHEET SHALL BE GRADE MARKED BY THE AMERICAN PLYWOOD ASSOCIATION IN ACCORDANCE WITH THE PROCEDURES AND QUALIFICATIONS SET FORTH BY PS 1-19.

- SUB FLOOR: 1 1/8" T&G UNBLOCKED PLYWOOD, SHALL PROVIDE A SMOOTH AND UNIFORM SURFACE
- CAPABLE OF ACCEPTING CARPET FINISH
- PLYWOOD ROOF DECK OPTION: APA RATED 3/4" T&G OSB OR EQUIVALENT RATED SHEATHING EXTERIOR WALL SIDING:
 - STANDARD: 5/8" DURATEMP OR 5/8" SMART PANEL
 - OPTION: 5/8" MOD
 - OPTION: 1/2" OSB OR CDX PLYWOOD FOR PLASTER/TUCCO FINISH
 - OPTION: 1/2" OSB OR CDX PLYWOOD FOR HARDIE BOARD (LAP SIDING) FINISH
- EXTERIOR WALL SIDING ATTACHMENT:

FASTENERS USED FOR THE ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE HOT-DIPPED GALVANIZED, MECHANICALLY DEPOSITED ZINC-COATED, STAINLESS, SILICON BRONZE OR COPPER PER CBC SECTION 2304.10.1.1

FASTEN TO WOOD FRAMING WITH 8D BOX NAILS @ 6" E.N., 12" F.N.
FASTEN TO LIGHT GAGE METAL FRAMING WITH #8 WAFER HEAD STMS @ 6" E.N., 12" F.N.
FASTEN TO STRUCTURAL STEEL WITH #12 STMS OR 0.145 DIAM SHOT PINS @ 12" O.C.

TREATED WOOD:

ALL WOOD LOCATED WITHIN 6" OF EXPOSED EARTH SHALL BE "PRESERVATIVE TREATED" OR SHALL BE "NATURALLY DURABLE" MATERIAL IN ACCORDANCE WITH CBC SECTION 2304.12.1.2.

- ALL ROUGH LUMBER SHALL BE DF #2 OR BETTER.
- ALL POWER DRIVEN FASTENERS SHALL BE HILTI FASTENERS ICC# ESR-1663, AND RAMSET POWER DRIVEN FASTENERS (ICC # ESR-1799), OR SIMPSON POWER DRIVEN FASTENERS ICC #ESR-2138, OR OTHER EQUIVALENT PRODUCTS WITH ICC REPORTS AND APPROVED BY DSA.
- FASTENERS, INCLUDING NUTS AND WASHERS, IN CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER PER CBC 2304.10.1.1

ROOF DIAPHRAGM:

3/4" T&G RATED SHEATHING BLOCKED DIAPHRAGM, EXPOSURE 1, 48/24 SPAN RATING FASTEN AT METAL SUPPORTS W/ #10 x 1 1/4" SELF-TAPPING PHILLIPS FLAT-HEAD ZINC COATED TEK'S @ 6" B/N/C/O.N. EDGE, 6" E.N. AND 12" O.C. FN. PROVIDE A MINIMUM OF 3/8" EDGE DISTANCE FOR FASTENERS TO PLYWOOD EDGE PER CBC SECTION 2306.2.
NOTE: ALL PANEL EDGES SHALL BE ATTACHED TO FRAMING MEMBERS OR BLOCKING, WHERE USED AS BLOCKING, FLAT STRAPPING SHALL BE A MINIMUM THICKNESS OF 3/8" WITH A MINIMUM WIDTH OF 1.5 INCHES AND SHALL BE EITHER INSTALLED BELOW SHEATHING, FOR OTHER THAN STEEL SHEATHING, THE SCREWS SHALL BE INSTALLED THROUGH THE SHEATHING TO THE BLOCKING.

FLOOR DIAPHRAGM:

1 1/8" PLYWOOD UNBLOCKED DIAPHRAGM - STURD-FLOOR T&G RATED SHEATHING, EXTERIOR, 48" oc SPAN RATING FASTEN AT METAL SUPPORTS W/ #10 24 x 2" SELF-TAPPING PHILLIPS FLAT-HEAD ZINC COATED TEK'S @ 6" O.C. B/N/C/O.N. EDGE, 6" O.C. EN, 12" FN. PROVIDE A MINIMUM OF 3/8" EDGE DISTANCE FOR FASTENERS TO PLYWOOD EDGE PER CBC SECTION 2306.2
NOTE: ALL PANEL EDGES SHALL BE ATTACHED TO FRAMING MEMBERS OR BLOCKING, WHERE USED AS BLOCKING, FLAT STRAPPING SHALL BE A MINIMUM THICKNESS OF 3/8" WITH A MINIMUM WIDTH OF 1.5 INCHES AND SHALL BE EITHER INSTALLED BELOW SHEATHING, FOR OTHER THAN STEEL SHEATHING, THE SCREWS SHALL BE INSTALLED THROUGH THE SHEATHING TO THE BLOCKING.

CONCRETE FLOOR DATA: LIGHTWEIGHT CONCRETE FLOOR STRENGTH: 3500 PSI
TYPE: I OR II
DESINTY: 110 PCF - MAX

DIMENSION LUMBER ATTACHMENT TO STEEL FRAMING:

2 x STUDS AT CORNER STEEL COLUMNS (NAILING STUD)
USE: #10 - 24 x 2 1/2" LG. SELF-DRILLING SELF-TAPPING PHILLIPS FLAT-HEAD WITH WASHER ZINC COATED TEK SCREWS AT 24" OC.

NAILING NOTES:

- ALL NAILS SHALL BE COMMON UNLESS OTHERWISE NOTED
- MACHINE APPLIED 16d FASTENERS SHALL HAVE AN EMBEDMENT OF NOT LESS THAN 1 1/2" INTO THE SECOND MEMBER, AND SHALL NOT BE LESS THAN 3" IN OVERALL LENGTH.
- NAILS SHALL BE ACCEPTABLE FOR HAND NAILING, PROVIDED THE REQUIREMENT EMBEDMENT IS MAINTAINED

CONNECTIONS AND FASTENERS:

ALL CONNECTIONS AND FASTENERS IN DRAWINGS CAN BE SUBSTITUTED BY AN EQUIVALENT PRODUCT PROVIDING I REPORTS ARE SUBMITTED TO AND APPROVED BY DSA.

CONNECTIONS LAG SCREWS:

LAG SCREWS SHALL BE INSTALLED WITH WASHER AND TURNED BY WRENCH, OVER-TORQUING SHALL BE AVOIDED. PRE-DRILLED CLEARANCE AND LEAD HOLE SHALL BE REQUIRED AS DESCRIBED BELOW:

- THE CLEARANCE HOLE FOR THE UNTHREADED PORTION OR THE SHANK SHALL HAVE SAME DEPTH AND DIAMETER.
 - THE LEAD HOLE FOR THE THREADED PORTION OF THE SHANK SHALL HAVE SAME DEPTH AND 85% TO 88% OF SHANK DIAMETER FOR LUMBER WITH SPECIFIC GRAVITY OF, $G > 0.6$
60% TO 75% OF SHANK DIAMETER FOR LUMBER WITH SPECIFIC GRAVITY OF, $0.5 < G \leq 0.6$
40% TO 70% OF SHANK DIAMETER FOR LUMBER WITH SPECIFIC GRAVITY OF, $G \leq 0.5$
- LEAD OR CLEARANCE HOLES SHALL NOT BE REQUIRED FOR 3/8" DIAMETER OR SMALLER LAG SCREWS.

CONCRETE ELEMENT	MAXIMUM W/C M/R	MINIMUM COMPRESSIVE STRENGTH, f_c (PSI)	CEMENTITIOUS MATERIALS TYPES (ASTM CODE)	MAX AGGREGATE SIZE	TARGET AIR CONTENT (%)	
					CONCRETE NOT EXPOSED TO FREEZING AND THAWING CYCLES	CONCRETE EXPOSED TO FREEZING AND THAWING CYCLES
FOUNDATION	0.45	4,500	TYPE V PLUS POZZOLAN OR SLAG CEMENT	1" - 1 1/4"	N/A	6
FOUNDATION WALLS & ACCESS WELLS	0.45	4,500	TYPE V PLUS POZZOLAN OR SLAG CEMENT	3/8"	N/A	7.5
				1 1/2"	N/A	7
				1 1/4"	N/A	6

NOTE: (1) TARGET AIR CONTENT MIX DESIGN REQUIREMENTS MAY BE COLLECTED AND USED FOR CONSTRUCTION PROVIDED THE PC DRAWINGS DO NOT REQUIRE A SITE-SPECIFIC GEOTECHNICAL REPORT THAT QUANTIFIES SULFATE CONTENT IN THE SOIL PER ACI 318 SECTION 19.3 (2) DOCUMENTATION OF CONCRETE MIXTURES CHARACTERISTICS SHALL BE IN ACCORDANCE WITH ACI SECTION 20.4.4 (3) DOCUMENTATION FOR CONCRETE MIXTURES CHARACTERISTICS SHALL BE IN ACCORDANCE WITH ACI SECTION 20.4.4 (4) DOCUMENTATION FOR CONCRETE MIXTURES CHARACTERISTICS SHALL BE IN ACCORDANCE WITH ACI SECTION 20.4.4 (5) FOR SITE-SPECIFIC LOCALITIES WITH MULTIPLE EXPOSURE CLASSES IDENTIFIED IN THE GEOTECHNICAL EXPLANATION REPORT, THE GREATER PL. ASSOCIATED WITH THE APPLICABLE EXPOSURE CLASS SHALL BE USED FOR CONSTRUCTION

1 SCALE DEFAULT CONCRETE MIX DESIGN

EXPOSURE CLASS	CONDITION	MAXIMUM W/C M/R	MINIMUM f_c	MAX AGGREGATE SIZE	TARGET AIR CONTENT (%)		LIMITS ON CEMENTITIOUS MATERIALS
					CONCRETE NOT EXPOSED TO FREEZING AND THAWING CYCLES	CONCRETE EXPOSED TO FREEZING AND THAWING CYCLES	
F0	CONCRETE NOT EXPOSED TO FREEZING AND THAWING CYCLES	0.55	3500	N/A	1.00	N/A	N/A
					1.00	N/A	N/A
					1.00	N/A	N/A
F1	CONCRETE EXPOSED TO FREEZING AND THAWING CYCLES WITH LIMITED EXPOSURE TO WATER	0.55	3500	N/A	1.00	0.5	N/A
					1.00	0.5	N/A
					1.00	0.5	N/A
F2	CONCRETE EXPOSED TO FREEZING AND THAWING CYCLES WITH FREQUENT EXPOSURE TO WATER	0.45	4500	N/A	1.00	0.5	N/A
					1.00	0.5	N/A
					1.00	0.5	N/A
F3	CONCRETE EXPOSED TO FREEZING AND THAWING CYCLES WITH FREQUENT EXPOSURE TO WATER AND EXPOSURE TO DEWING (OR FOG)	0.4	5000	N/A	1.00	0.5	ACI 318 SECTION 20.4.2.1(b)
					1.00	0.5	
					1.00	0.5	

- A.1 WITH OUT GEOTECH REPORT
Maximum water/cement ratio of 0.45; minimum compressive strength of 4,500 pounds per square inch (psi); Type V cement plus pozzolan or slag cement complying with Footnote 7 of ACI table 19.3.2.1; prohibition of admixtures containing calcium chloride; and 4" max slump.
- A.2 Optional (Site-Specific) concrete Strength: WITH GEOTECH REPORT
When the PC drawings require a site-specific geotechnical report that quantifies sulfate content in the soil, the PC drawings shall require a concrete mix shall comply with one of the following based on the exposure class for each category from ACI 318 Table 19.3.2.1 below (The minimum compressive strength shall not be less than 3500 psi with 4" max Slump)

EXPOSURE CLASS	CONDITION	MAXIMUM W/C M/R	MINIMUM f_c	MAX AGGREGATE SIZE	CEMENTITIOUS MATERIALS TYPES			CALCIUM CHLORIDE ADMIXTURE
					ASTM C150	ASTM C595	ASTM C1157	
S0	$SO_4^{2-} < 0.10$	$SO_4^{2-} < 150$	0.55	3500	NO TYPE RESTRICTION	NO TYPE RESTRICTION	NO TYPE RESTRICTION	NO RESTRICTION
S1	$0.10 \leq SO_4^{2-} < 0.20$	$150 \leq SO_4^{2-} < 1500$ OR SEAWATER	0.50	4000	II	TYPES WITH (MS) DESIGNATION	MS	NO RESTRICTION
S2	$0.20 \leq SO_4^{2-} < 0.30$	$1500 \leq SO_4^{2-} < 10,000$	0.45	4500	V	TYPES WITH (HS) DESIGNATION	HS	NOT PERMITTED
S3 (OPTION 1)	$SO_4^{2-} > 0.30$	$SO_4^{2-} > 10,000$	0.45	4500	V PLUS POZZOLAN OR SLAG CEMENT	TYPES WITH (HS) DESIGNATION PLUS POZZOLAN OR SLAG CEMENT	HS PLUS POZZOLAN OR SLAG CEMENT	NOT PERMITTED
S3 (OPTION 2)	$SO_4^{2-} > 0.30$	$SO_4^{2-} > 10,000$	0.50	5000	V	TYPES WITH (HS) DESIGNATION	HS	NOT PERMITTED

EXPOSURE CATEGORY: IN CONTACT WITH WATER (W)

EXPOSURE CLASS	CONDITION	MAXIMUM W/C M/R	MINIMUM f_c	ADDITIONAL REQUIREMENTS
W0	CONCRETE DRY IN SERVICE OR CONCRETE IN CONTACT WITH WATER AND LOW PERMEABILITY IS NOT REQUIRED	0.55	3500	N/A
W1	CONCRETE IN CONTACT WITH WATER AND LOW PERMEABILITY IS REQUIRED	0.50	3500	AGGREGATES ARE NOT ALKALI-SILICA OR ALKALI-CARBONATE REACTIVE
W2	CONCRETE IN CONTACT WITH WATER AND LOW PERMEABILITY IS REQUIRED	0.50	4000	AGGREGATES ARE NOT ALKALI-SILICA OR ALKALI-CARBONATE REACTIVE

EXPOSURE CLASS	CONDITION	MAXIMUM W/C M/R	MINIMUM f_c	MAXIMUM WATER-SOLUBLE CHLORIDE (CN) (CL) CONTENT IN CONCRETE, PERCENT BY WEIGHT OF CEMENT (NON-PRESTRESSED CONCRETE)	ADDITIONAL REQUIREMENTS
C0	CONCRETE NOT EXPOSED TO MOISTURE OR TO AN EXTERNAL SOURCE OF CHLORIDES	0.55	3500	1.00	N/A
C1	CONCRETE EXPOSED TO MOISTURE BUT NOT TO AN EXTERNAL SOURCE OF CHLORIDES	0.54	3500	0.30	N/A
C2	CONCRETE EXPOSED TO MOISTURE AND AN EXTERNAL SOURCE OF CHLORIDES (DEICING)	0.40	5000	0.15	CONCRETE COVER PER ACI 318, SECTION 20.5

2 SCALE ALTERNATIVE CONCRETE MIX-DESIGN: SITE-SPECIFIC

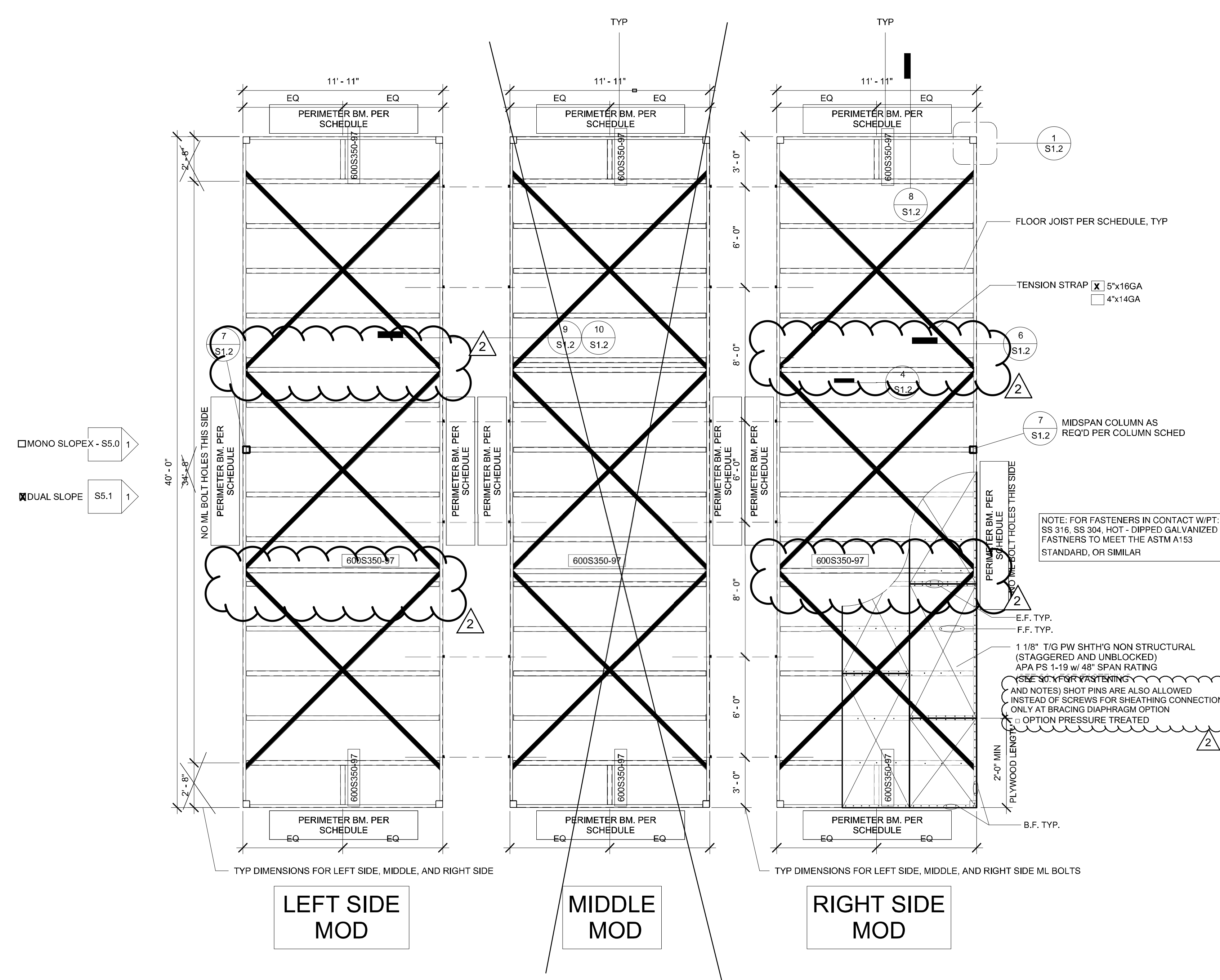
NAILING SCHEDULE: (ALL NAILS SHALL BE COMMON OR BOX NAILS, GALVANIZED WHERE EXPOSED) PER CBC TABLE 2304.10.2

CONNECTION	COMMON FASTENERS			BOX NAIL FASTENERS			LOCATION
	QTY	SIZE	SPACING O.C.	QTY	SIZE	SPACING O.C.	
1. JOIST TO SILL OR GIRDER	3- 8d	3- 10d		3- 10d			TOENAIL
2. BRIDGING TO JOIST	2- 8d			2- 10d			TOENAIL EA. END
3. 1X8 OR LESS SUBFLOOR TO EA. JOIST	2- 8d			2- 10d			FACE NAIL
4. TO EA. JOIST WIDER THAN 1X8 SUBFLOOR	3- 8d			3- 10d			FACE NAIL
5. 2" SUBFLOOR TO JOIST	2- 16d			N/A	N/A	N/A	FACE NAIL
6. TO EA. JOIST SOLE PLT. TO JOIST OR BLKG	16d @ 16"			16d @ 12"			FACE NAIL
7. TOP PLT. TO STUD @ BRACED WALL PANEL	3- 16d @ 16"			3- 16d @ 16"			TYP. FACE NAIL
8. STUD TO SOLE PLT.	2- 16d			3- 10d			END NAIL
OR	2- 16d			3- 10d			TOENAIL
9. DOUBLE STUDS	16d @ 24"			10d @ 16"			FACE NAIL
10. DOUBLE TOP PLT. DOUBLE TOP PLT.	16d @ 16"			10d @ 12"			TYP. FACE NAIL
11. RAFTERS TO JOIST OR BLKG	3- 16d @ 16"			3- 16d @ 16"			TYP. FACE NAIL
12. RIM JOIST TO TOP PLT.	3- 8d @ 6"			3- 10d @ 6"			TOENAIL
13. INTERSECTIONS	2- 16d			3- 10d			FACE NAIL
14. CONT. HDR. 2 PIECES	16d @ 16"			16d @ 16"			ALONG EDGE
15. CLG. JOIST TO PLT.	3- 8d @ 16"			3- 10d			EA. JOIST, TOENAIL
16. CONT. HDR. TO STUD	4- 8d			4- 10d			TOENAIL
17. PARTITIONS	3- 16d			4- 10d			FACE NAIL
18. RAFTERS	3- 16d			SEE TABLE 2308.7.3.1			FACE NAIL
19. RAFTER TO PLT.	3- 8d			3- 16d			TOENAIL*
20. PLT.	2- 8d			2- 10d			FACE NAIL
21. 1X8 SHTG. TO EA. BRG. WIDER THAN 1X8 SHTG TO BRG.	3- 8d			3- 10d			FACE NAIL
22. BRG.	3- 8d			3- 10d			FACE NAIL
23. BUILT-UP CORNER STUDS	16d @ 24						

U:\192_168_10_2\Cliente\2022\22073 - Class Leasing - El Dorado City DE - S Lake Tahoe MS - 160lb Snow Load\Main Files\REV\TRSTR122073 - Class Leasing - El Dorado City DE - S Lake Tahoe MS - 160lb Snow Load\Main Files\MainFile_detailed.rvt

6/2/2022 9:46:43 AM

APPROVED
DIV. OF THE STATE ARCHITECT
APP. 04-122805 INC.
REVIEWED FOR
SS FLS ACS
DATE: 11/20/2023



□ MONO SLOPEX - SS.0 1
▣ DUAL SLOPE SS.1 1

Floor Joist Schedule

FLL	JOIST	SPACING	O.C.
<input checked="" type="checkbox"/> 50+15 PSF	600S350-97	24" O.C.	32"
<input type="checkbox"/> 100 PSF	600S350-97	24" O.C.	
<input type="checkbox"/> 150 PSF	600S350-97	16" O.C.	

Perimeter Floor Beam Schedule

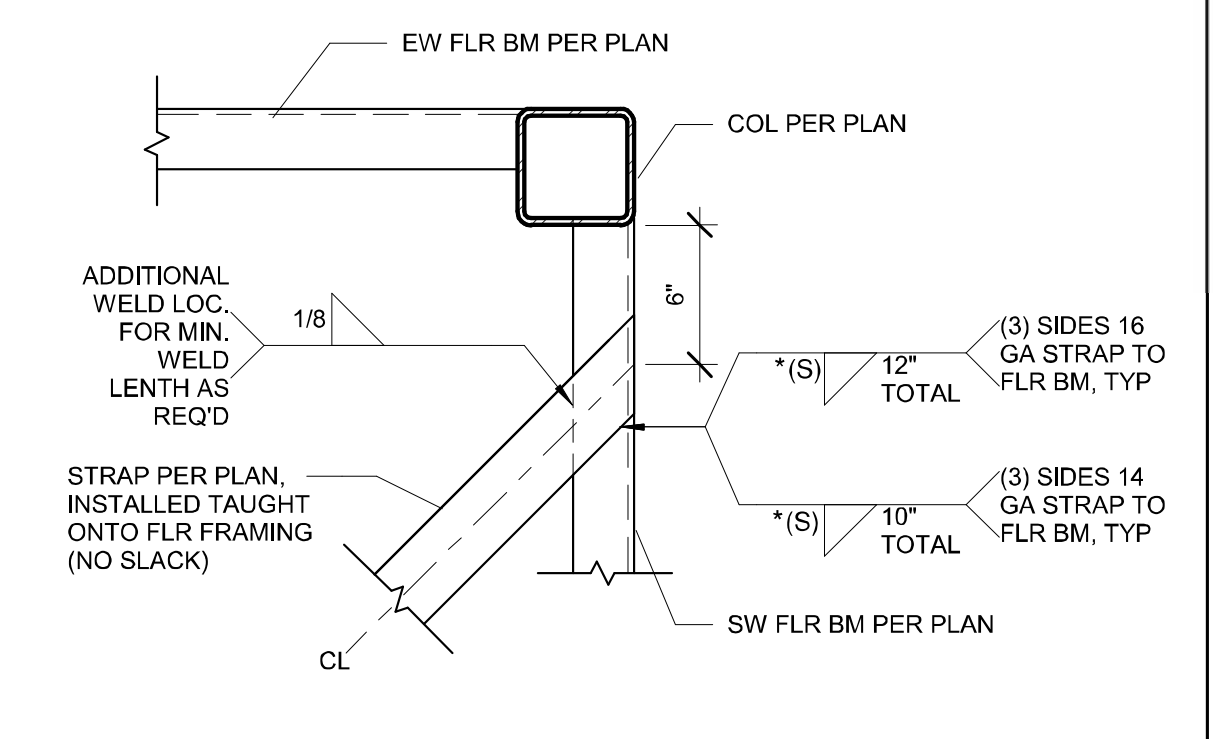
HT	w/ Parapet, 18" max		
	No Plaster Walls	Plaster Walls	
9'	C10x15.3	C10x15.3	C10x15.3
10'	C10x15.3	C10x15.3	C10x15.3

NOTE: SPLICE AT FLOOR BEAM PERMITTED PER 3/S1.2

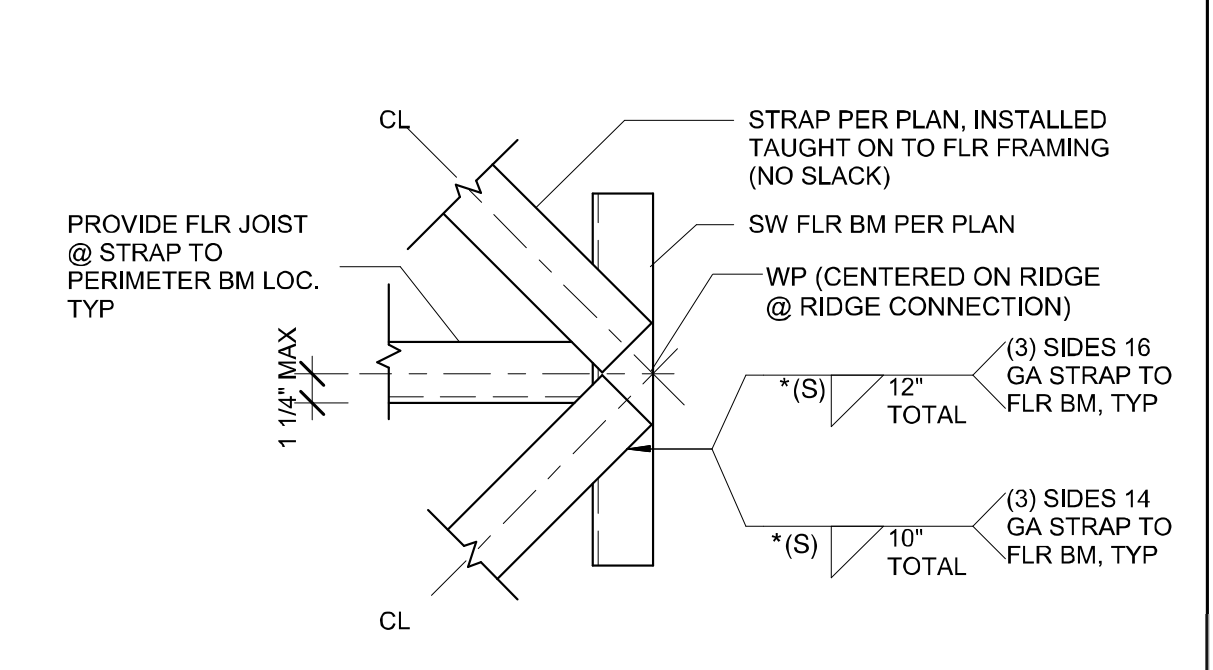
Column Schedule

HT	w/ Parapet, 18" max		
	No Plaster Walls	Plaster Walls	
9'	6x6x5/16-5X5X1/4	6x6x5/16	6x6X1/4
10'	6x6x5/16	6x6x5/16	6x6X1/4
			3x3X3/16 mid-span column

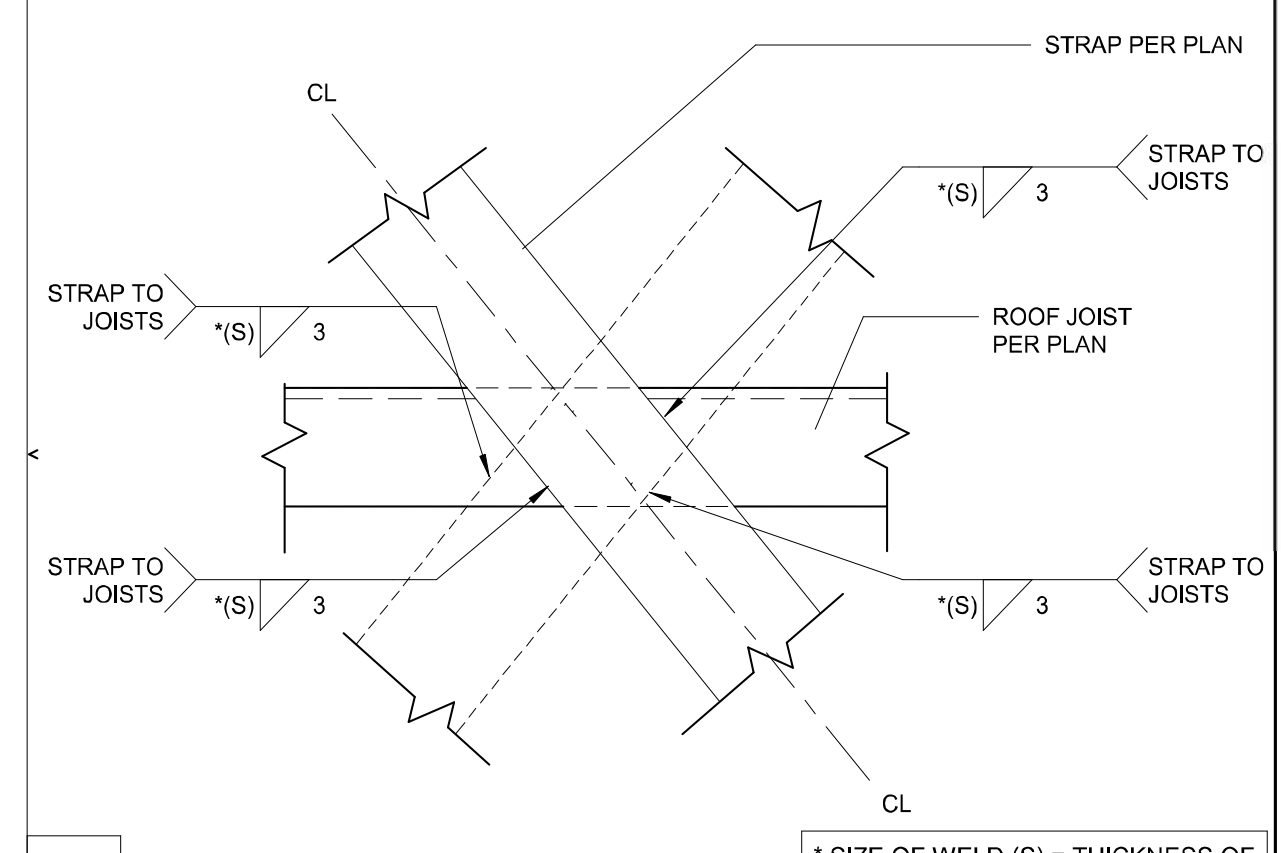
1 1/4" = 1'-0"
WD Sth'g Flr Framing Plan (50+15 PSF) CROSS-STRAP OPT.



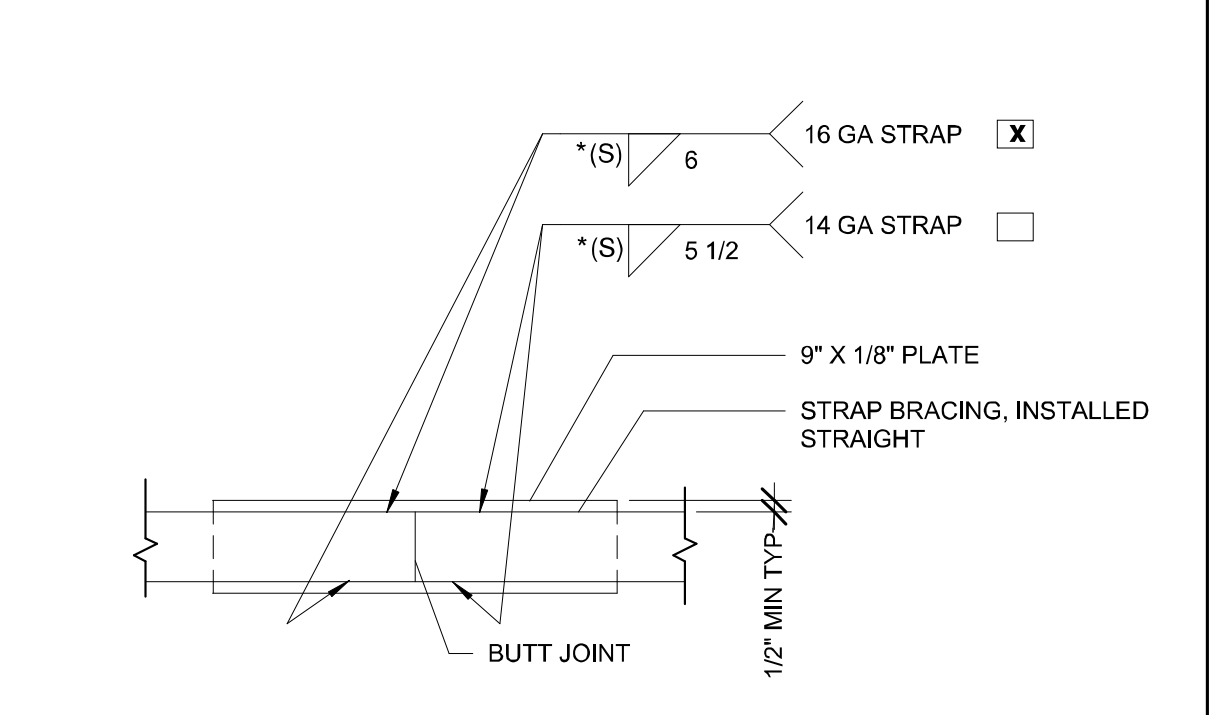
2 1 1/2" = 1'-0"
FLOOR BRACING STRAP @ ENDWALL



3 1 1/2" = 1'-0"
FLOOR STRAP BRACING @ SIDEWALL



4 3" = 1'-0"
STRAP TO JOIST CONNECTION



5 1 1/2" = 1'-0"
STRAP SPLICE DETAIL

NOTE: ALL PANEL EDGES SHLL BE ATTACHED TO FRAMING MEMBERS OR BLOCKING, WHERE USED AS BLOCKING, FLAT STRAPPING SHALL BE A MINIMUM THICKNESS OF 33MILS WITH A MINIMUM WIDTH OF 1.5 INCHES AND SHALL BE INSTALLED BELOW SHEATHING. FOR OTHER THAN STEEL SHEATHING, THE SCREWS SHALL BE INSTALLED THROUGH THE SHEATHING TO THE BLOCKING.

PROJECT SPECIFIC STATE AGENCY APPROVAL
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122805 INC.
REVIEWED FOR
SS FLS ACS
DATE: 09/28/2023

R&S TAVARES ASSOCIATES
DESIGN • CONSULTING • PROJECT
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SAN DIEGO, CA 92127
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PROFESSIONAL STAMP
REGISTERED PROFESSIONAL ARCHITECT
MANNY D. FLORES
E3380
03/31/24
STATE OF CALIFORNIA
RST#22088
05/24/23

THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEvised SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. ©

CLIENT
Class Leasing
1651 S. Juanita Street, San Jacinto, CA 92583
VOICE (951) 943-1908 FAX (951) 943-5768

ORIGINAL PC STATE AGENCY APPROVAL
APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-121368 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 09/22/2023

REVISIONS

#	Description	BY
1	AMEND CALL OUT PER CALCS	10-11-23
2	CCD_002	11/2/2023

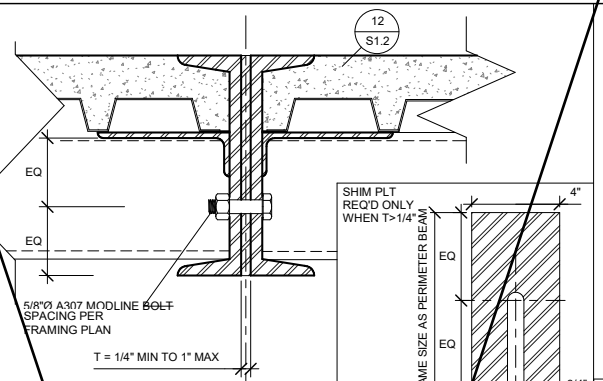
PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required
PROJECT TITLE
PC 2022 CBC:24' x 40'
EXPANDABLE TO
120' x 40'

EL DORADO 160# SNOW LOAD
SHEET TITLE
WD STH'G FLR FRAMING PLAN
CROSS-STRAP OPT.

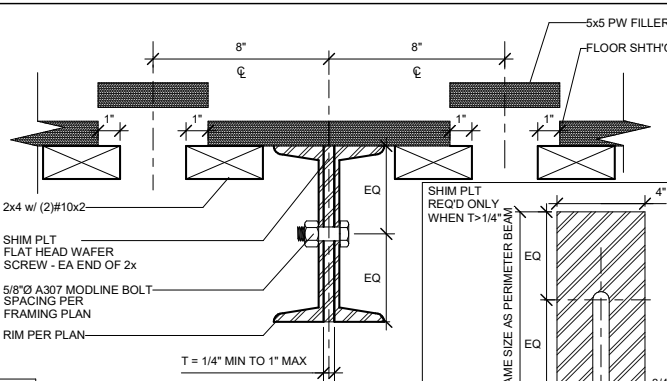
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22073
DRAWN BY
Author
CHECKED BY
Checker
DATE
06/07/2021
SHEET NO.
S1.0.4
SHEET OF SHEETS

CCD_001

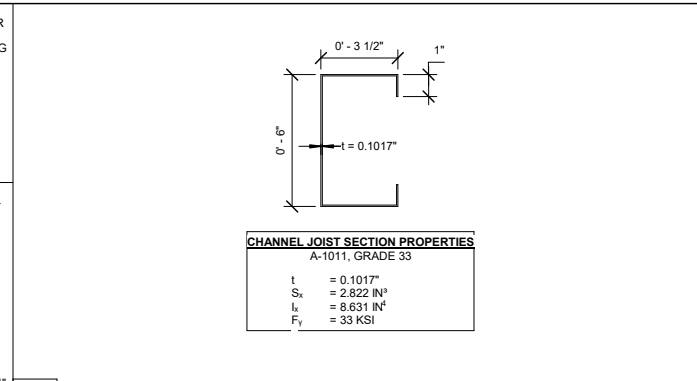
BH-36 METAL DECK PROPERTIES & PROFILE					
PLAN DESIGNATION	DECK TYPE	MINIMUM EFFECTIVE PROPERTIES			DECK PROFILE
		S_x IN ² /FT	S_y IN ² /FT	I_x IN ⁴ /FT	
1-12'-18GA ABC BH-36 GALV DECK (2" WIDE)		0.311	0.329	0.287	
		0.313			



15 3" = 1'-0" Fir @ ML w/ Shim (CONC FLR)

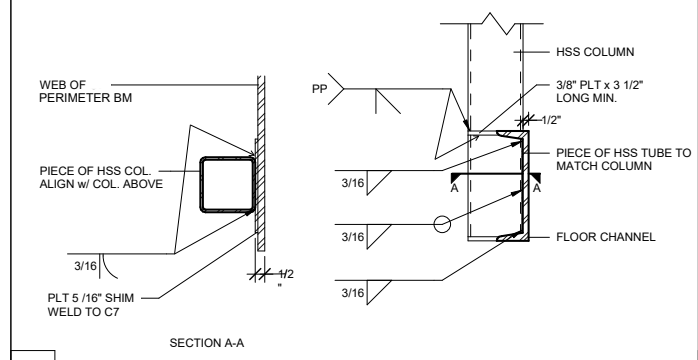


10 3" = 1'-0" Fir @ ML w/ Shim (WD FLR)

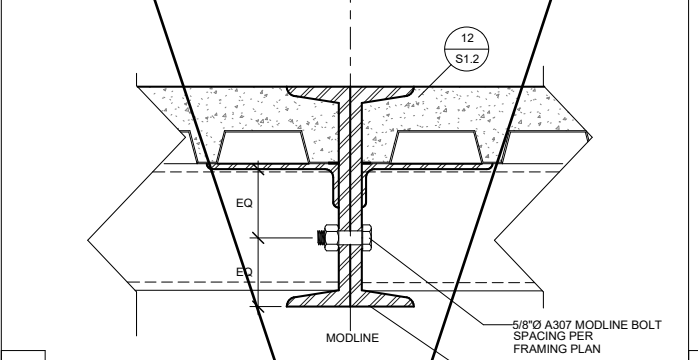


5 3" = 1'-0" Channel Joist Section Properties (600S350-97)

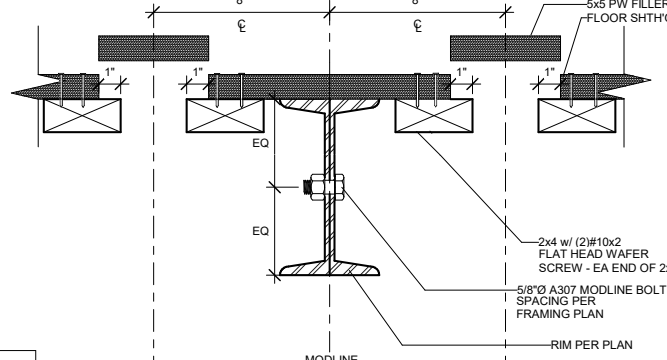
20 1 1/2" = 1'-0" BH-36 Metal Deck Properties & Profile



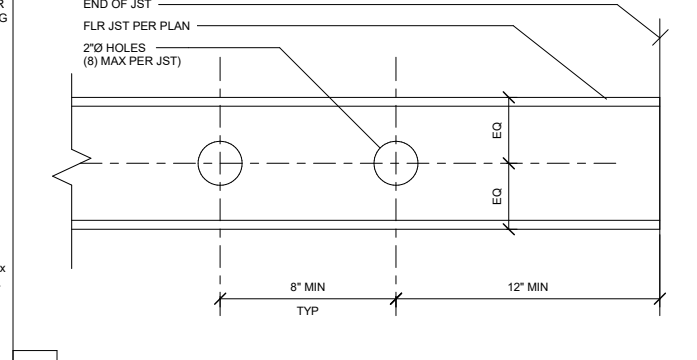
7 1 1/2" = 1'-0" Mid-Span Column Connection



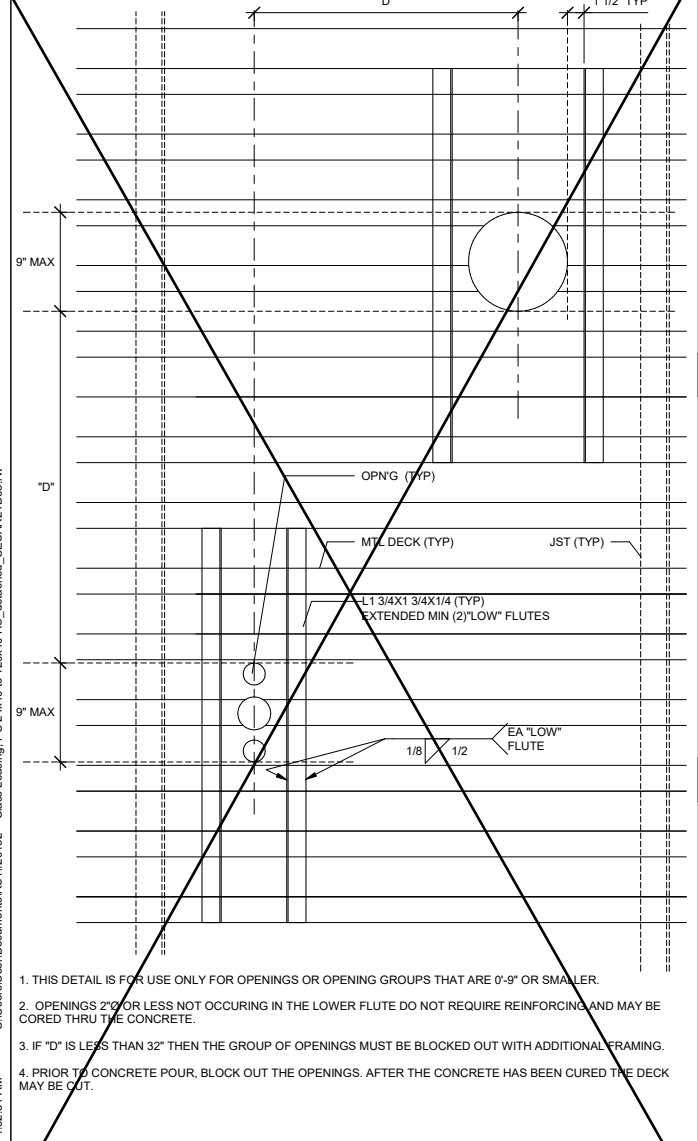
14 3" = 1'-0" Fir @ ML (CONC FLR)1



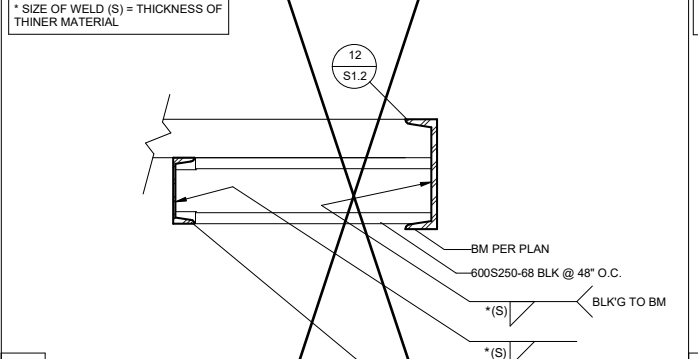
9 3" = 1'-0" Fir @ ML (WD FLR)1



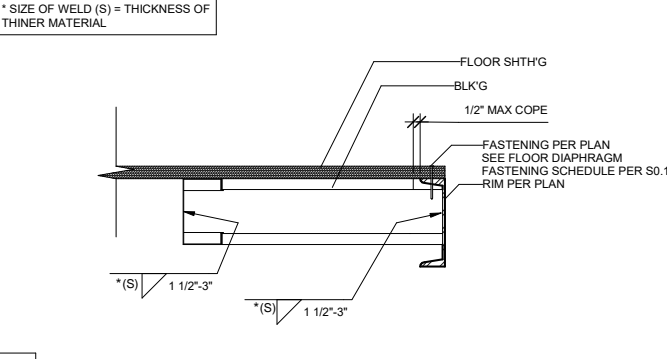
4 3" = 1'-0" Elevation - Allowable Jst Holes



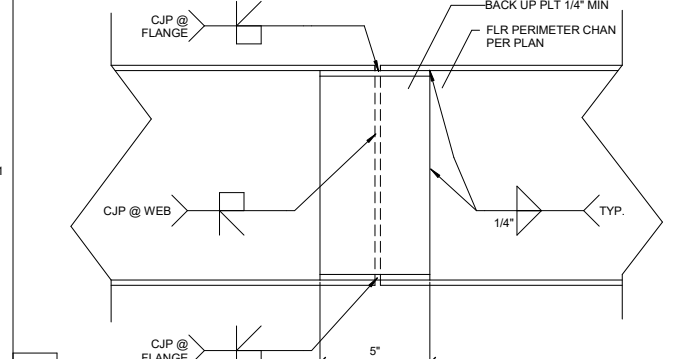
16 1 1/2" = 1'-0" Typ Deck Penetrations (CONC FLR)



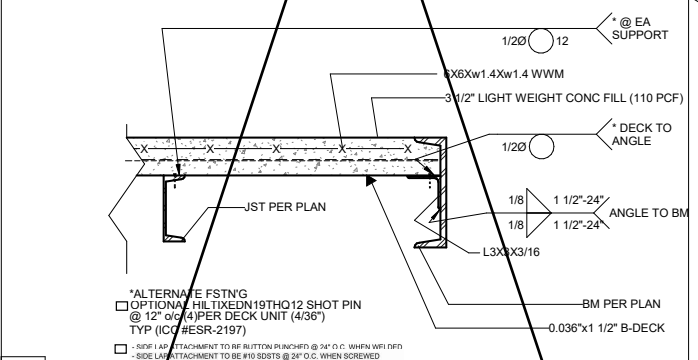
13 1 1/2" = 1'-0" Typ Blocking (CONC FLR)



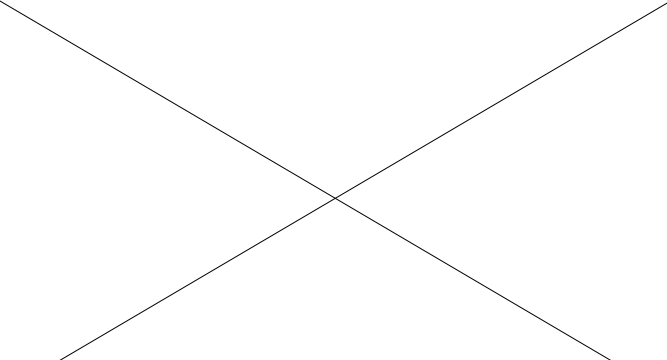
8 1 1/2" = 1'-0" Typ Blk'g Connection @ Rim (WD FLR)



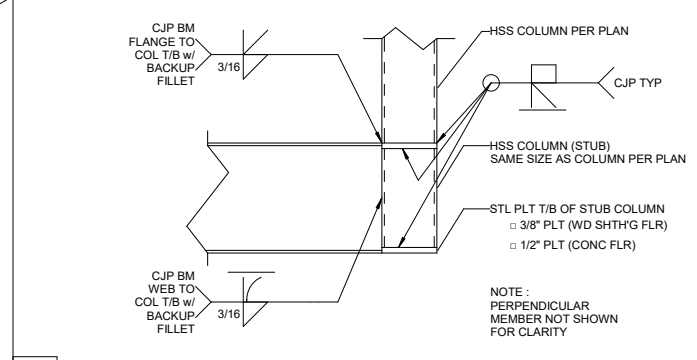
3 3" = 1'-0" Fir Perimeter Beam Splice



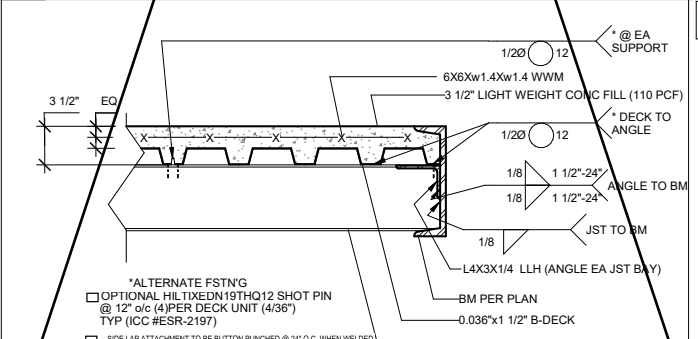
12 1 1/2" = 1'-0" Typ End Beam Connection @ Rim (CONC FLR)



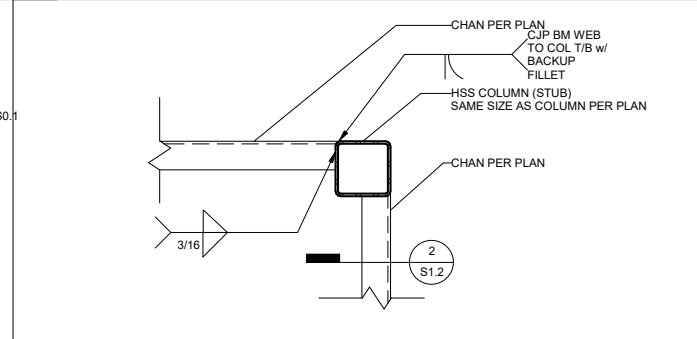
6 1 1/2" = 1'-0" Typ Joist Connection @ Rim (WD FLR)



2 1 1/2" = 1'-0" Typ Fir Bm to Column Connection



11 1 1/2" = 1'-0" Typ Side Beam Connection @ Rim (CONC FLR)



1 1 1/2" = 1'-0" Typ Corner Connection

- THIS DETAIL IS FOR USE ONLY FOR OPENINGS OR OPENING GROUPS THAT ARE 0'-9" OR SMALLER.
- OPENINGS 2" OR LESS NOT OCCURRING IN THE LOWER FLUTE DO NOT REQUIRE REINFORCING AND MAY BE CORED THRU THE CONCRETE.
- IF "D" IS LESS THAN 32" THEN THE GROUP OF OPENINGS MUST BE BLOCKED OUT WITH ADDITIONAL FRAMING.
- PRIOR TO CONCRETE POUR, BLOCK OUT THE OPENINGS. AFTER THE CONCRETE HAS BEEN CURED THE DECK MAY BE CUT.

C:\Users\j\Documents\RS\2022\132 - Class Leasing_PC 24x40 to 120x40 HS_detached_CESAR24D83.mt 6/6/2021 1:52:34 AM

PROJECT SPECIFIC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT

APP. 04-122805 INC. REVIEWED FOR

SS FLS ACS

DATE: 10/17/23

R&S TAVARES ASSOCIATES
DESIGN & CONSULTING ARCHITECTS

1150 W BERNHARD COUNTY, SUITE 100
SAN DIEGO, CA 92117
WWW.RS-TAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ARCHITECT
MANNY D. FRENCH
No. 53380
03/31/24
STATE OF CALIFORNIA
RSTW22088
05/24/23

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Class Leasing

1320 W. Oleander Ave., Perris CA 92571-7408
VOICE (951) 943-1908/FAX (951) 943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT

APP. 04-121369 PC REVIEWED FOR

SS FLS ACS CG

DATE: 09/22/2023

Revision Schedule		
#	Description	Date
1	AMEND CALL OUT PER CALCS	10-11-23

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
STRUCTURAL DETAILS (FLOOR)

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
JA/RT

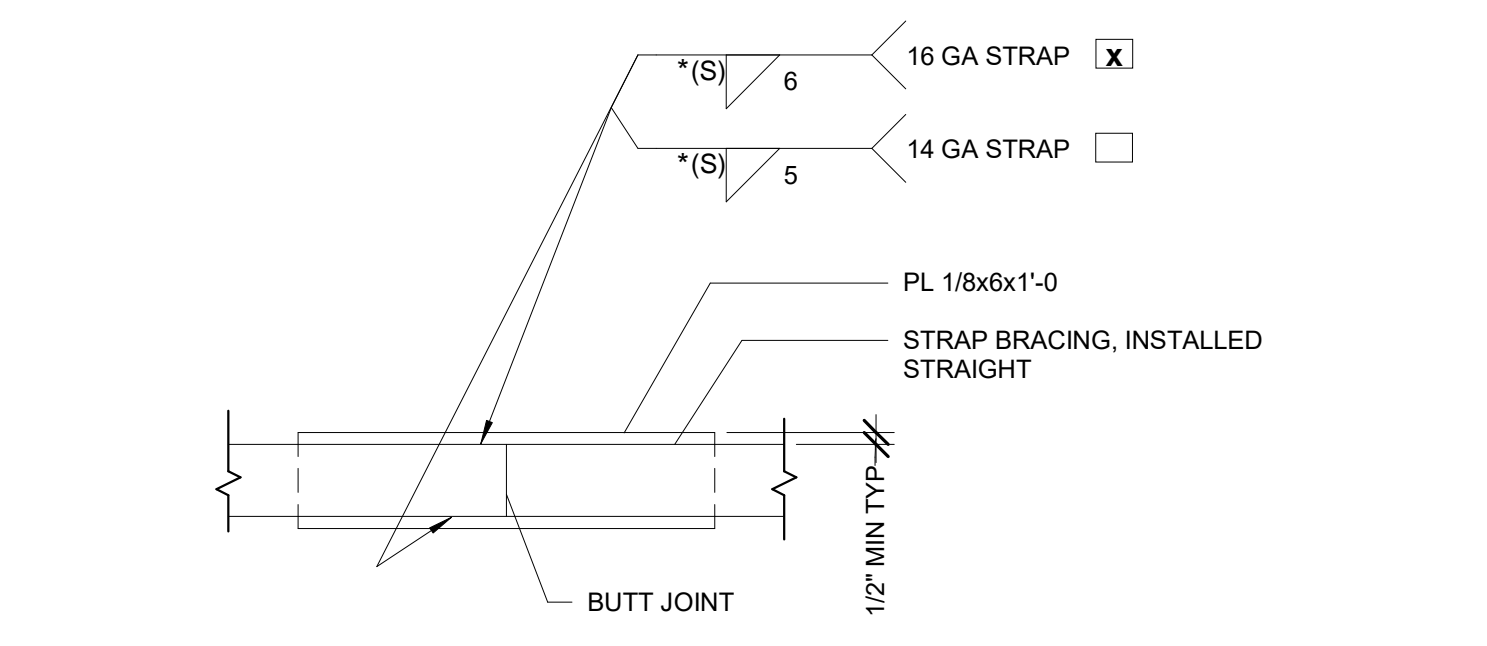
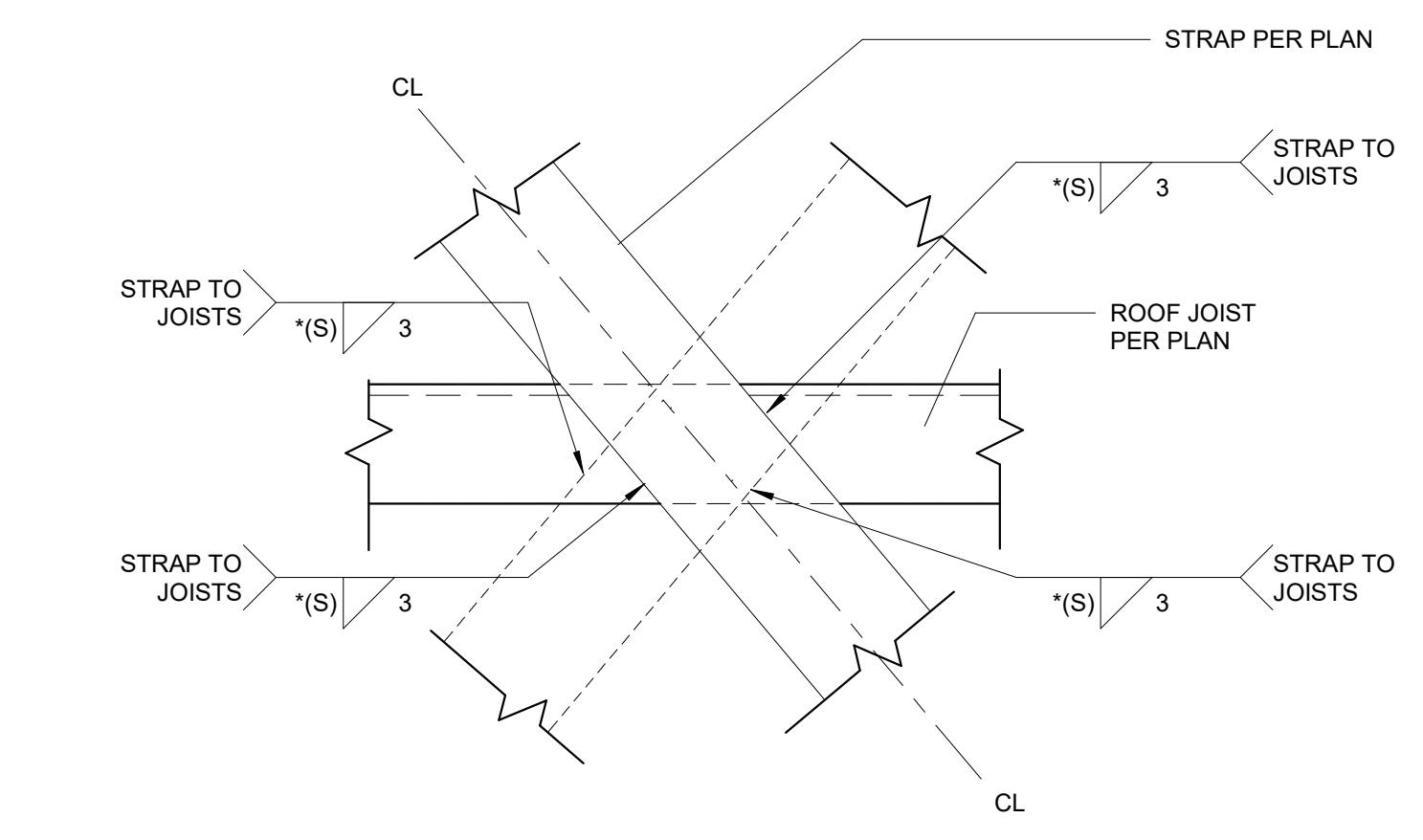
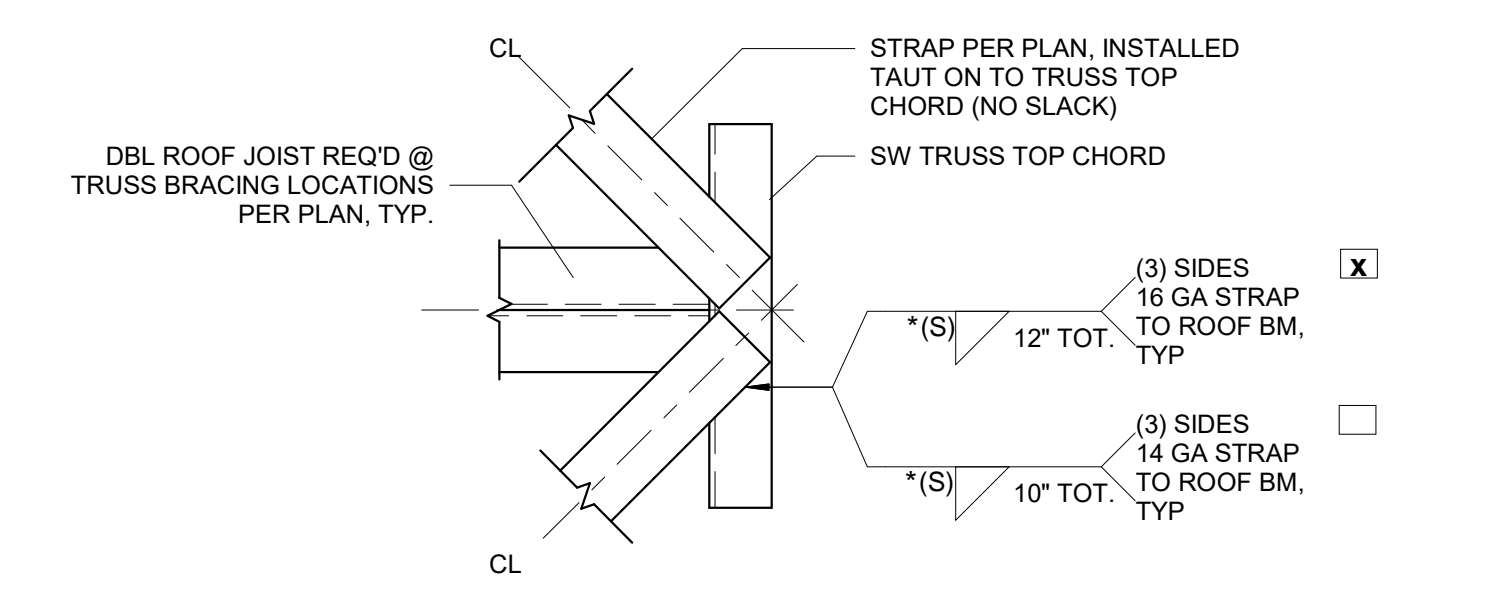
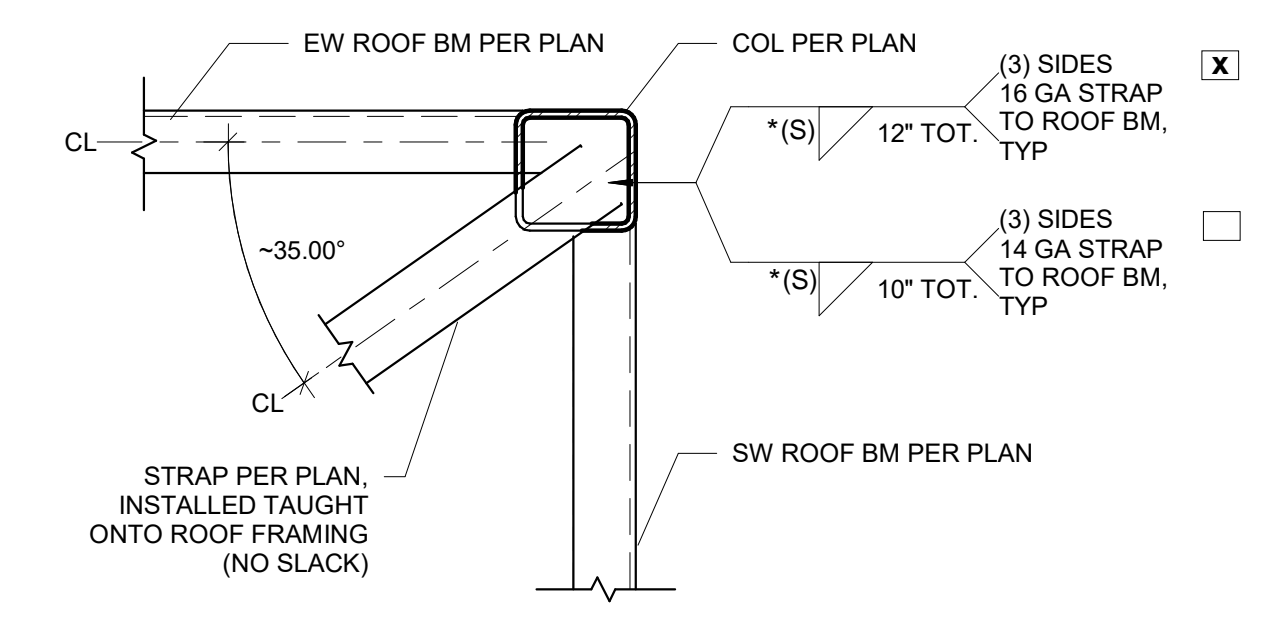
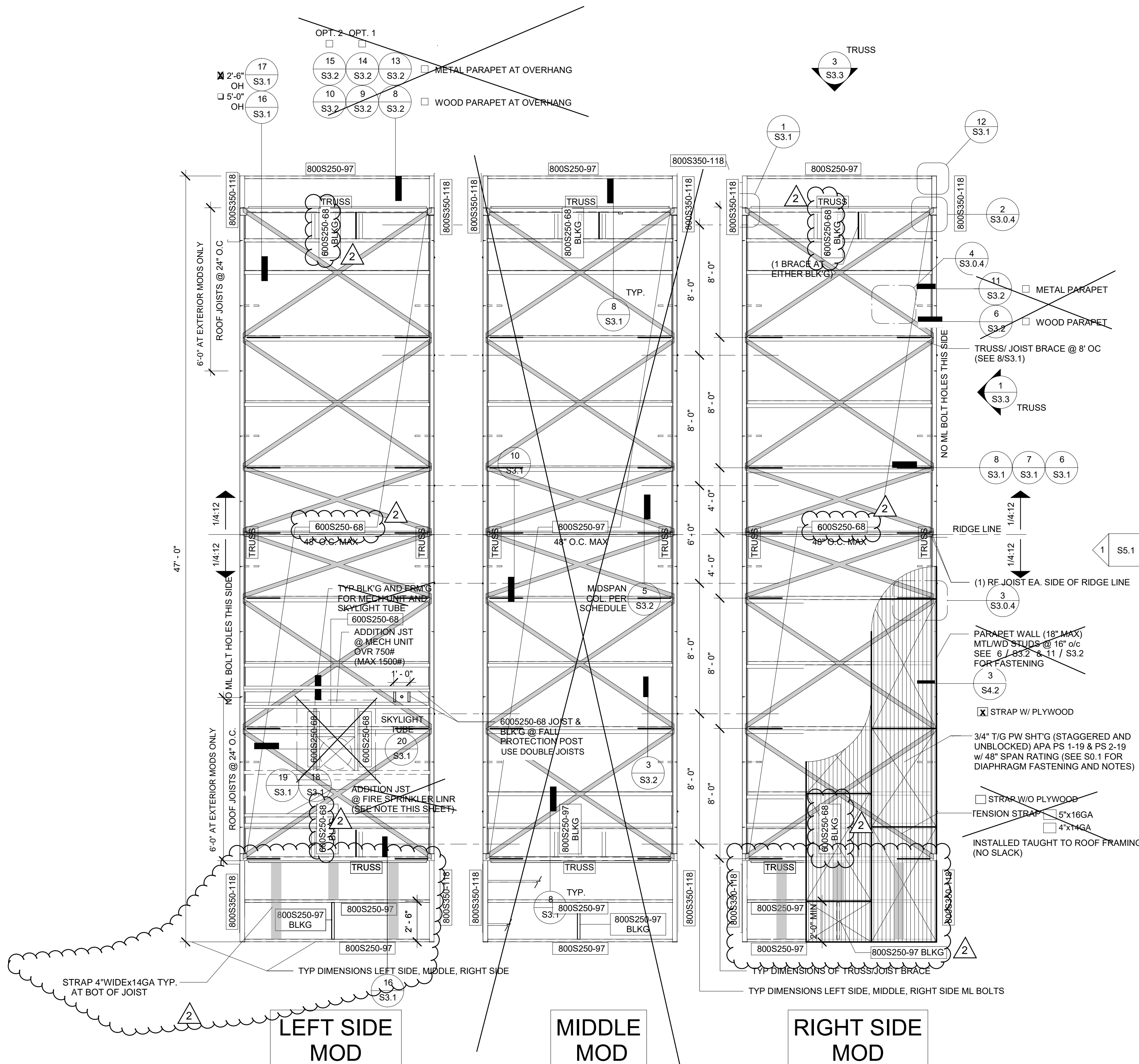
DATE

SHEET NO. **S1.2**

CCD_001

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APPROVED
DIV. OF THE STATE ARCHITECT
APP. 04-122805 INC.
REVIEWED FOR
SS FLS ACS
DATE: 11/20/2023



PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122805 INC.
REVIEWED FOR
SS FLS ACS
DATE: 09/28/2023

R&S TAVARES ASSOCIATES
DESIGN & CONSULTING PROJECT MGT
11500 W BERNHARD COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.R&STAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ARCHITECT
MANNY D. FRIEDL
63380
03/31/24
PC TAVARES
STATE OF CALIFORNIA
05/24/23
RST#22088

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CLIENT

Class Leasing
1651 S. Juanita Street, San Jacinto, CA 92583
VOICE (951) 943-1908 FAX (951) 943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP. 04-121368 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 09/22/2023

Revision Schedule		
#	Description	Date
2	CCD_002	11/2/2023

PRE-CHECK (PC) ALTERNATE DOCUMENT
CODE: 2019 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
DUAL SLOPE ROOF FRM'G PLAN CROSS-STRAP OPT.

PROJECT NUMBER
22088

DRAWN BY
MJM

CHECKED BY
RHrMc

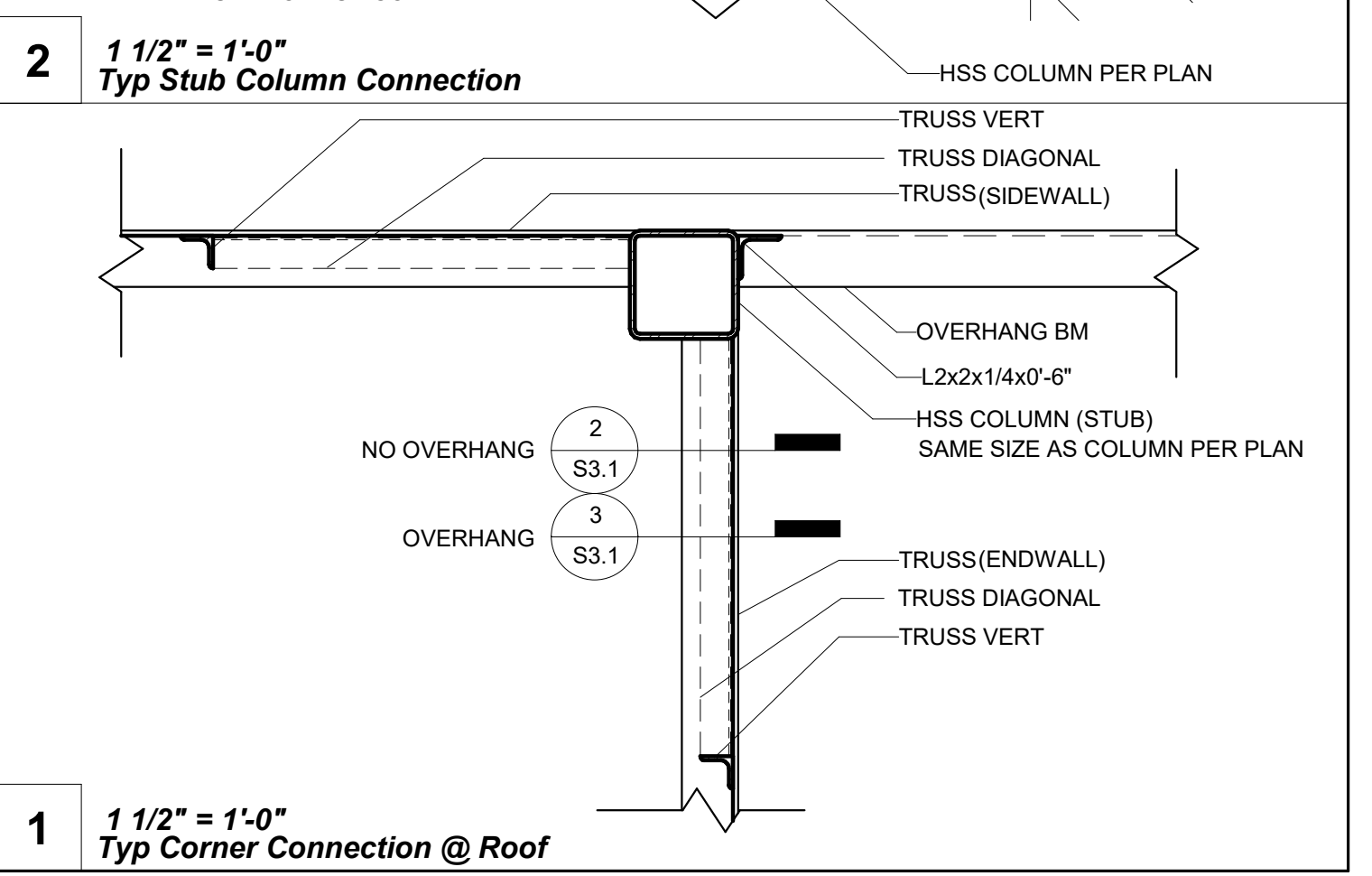
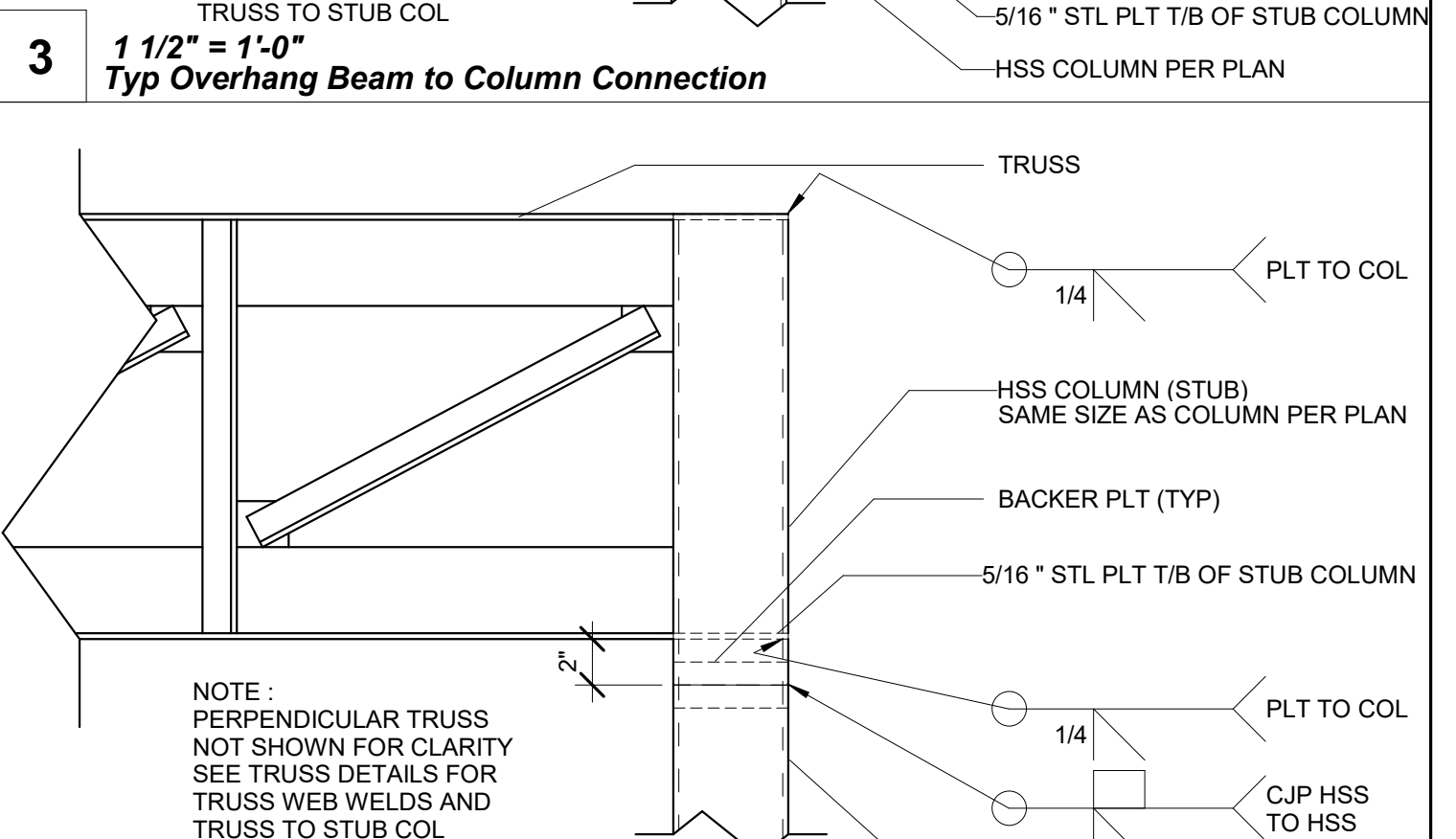
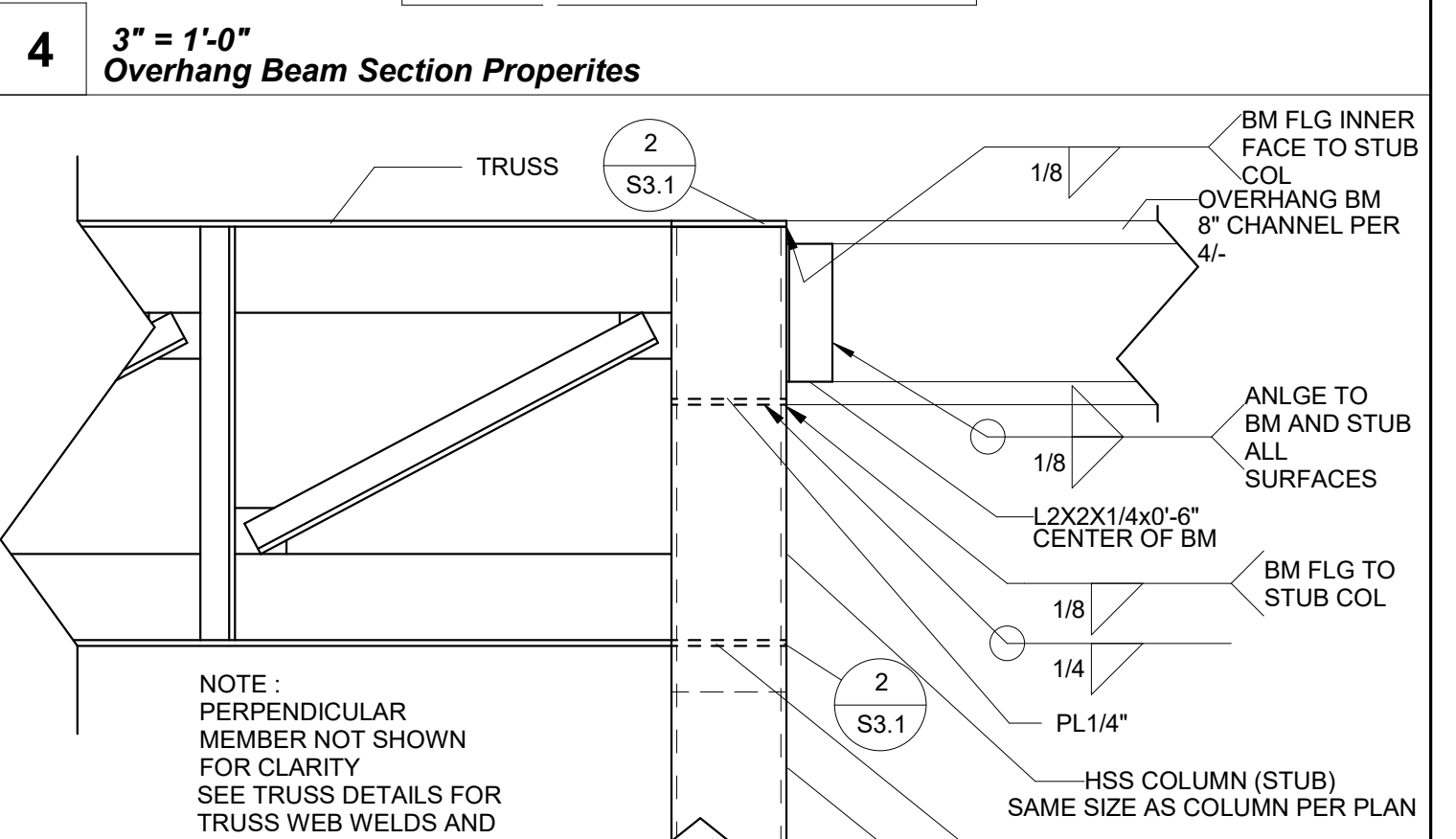
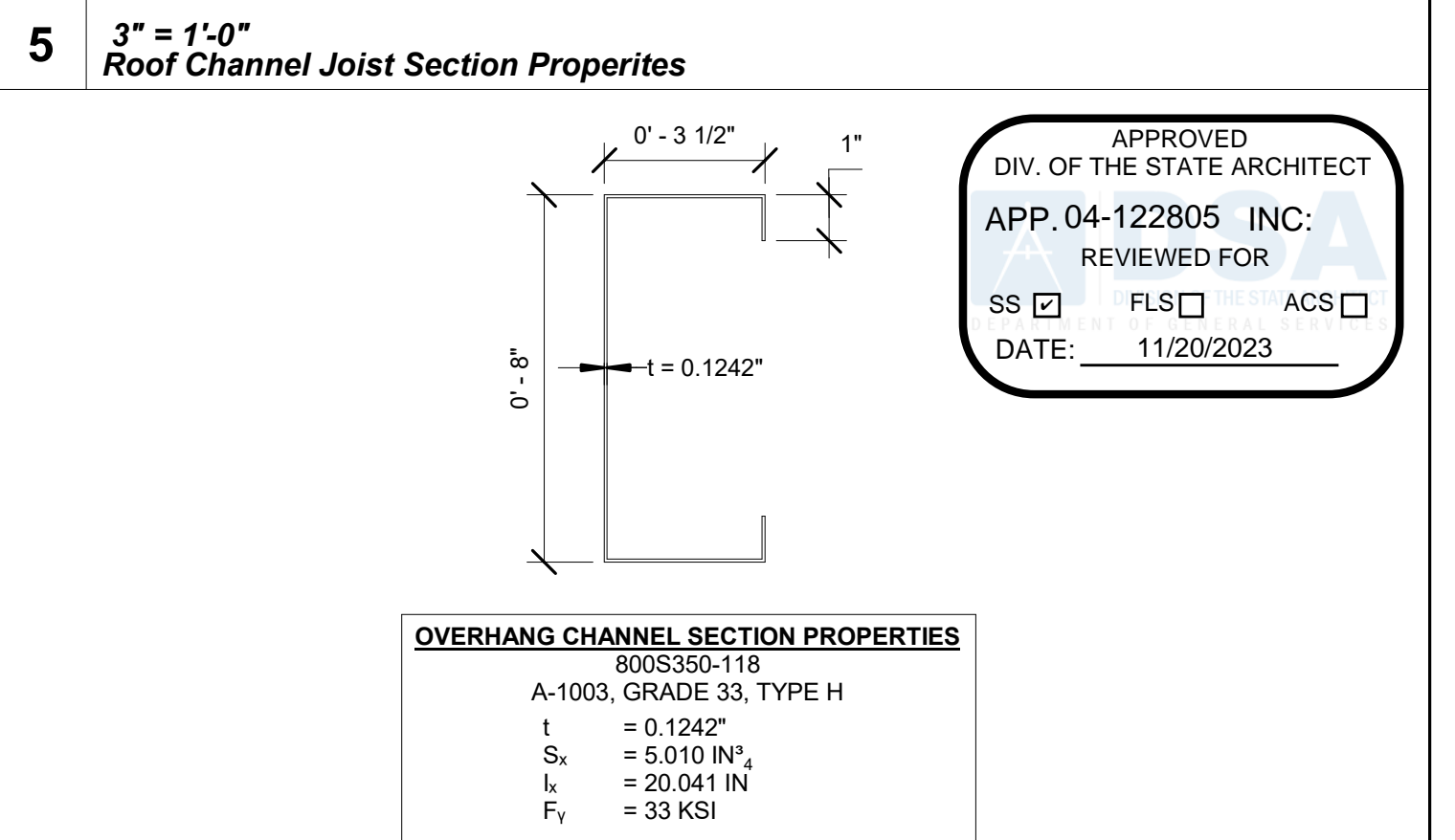
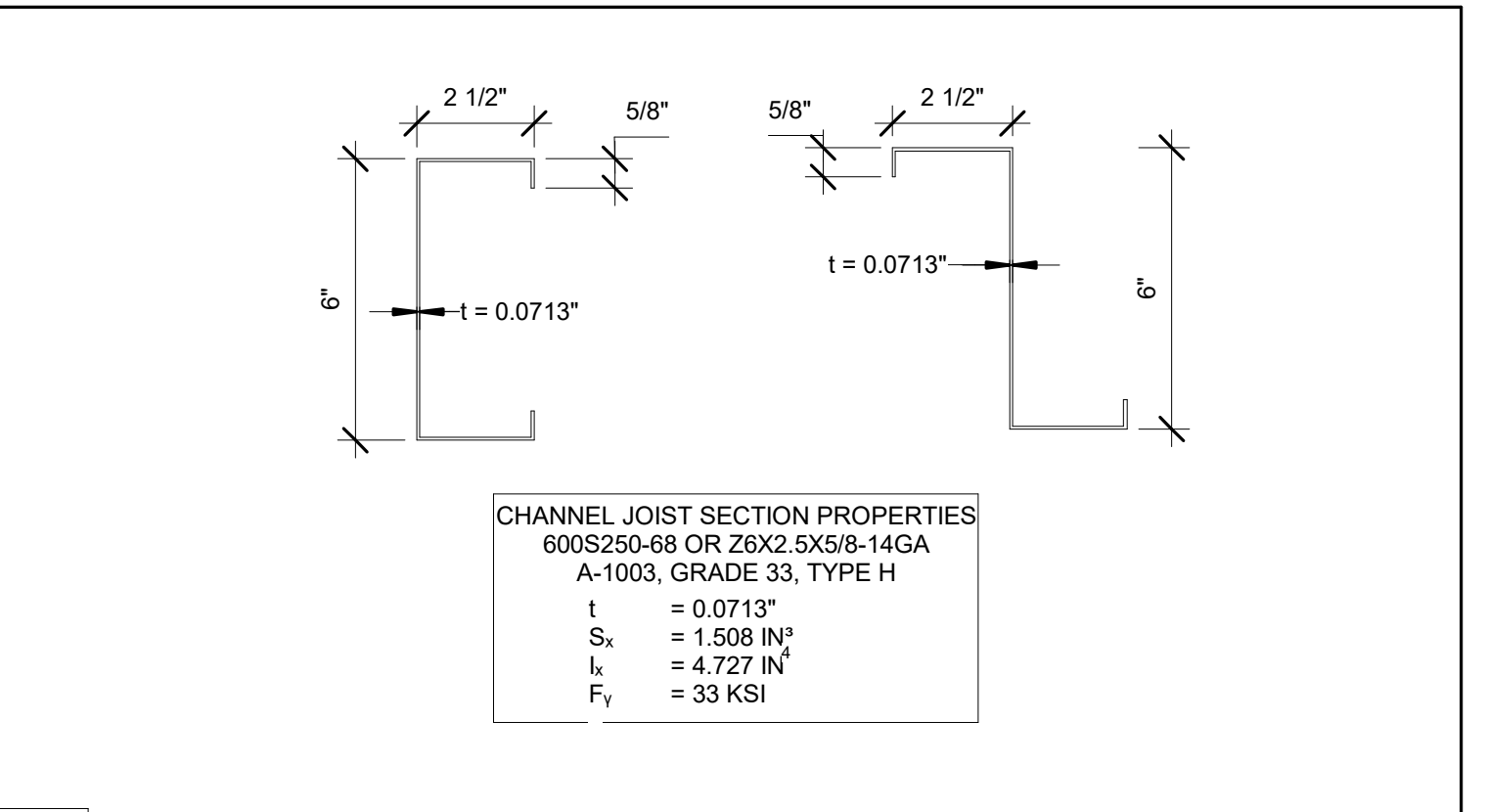
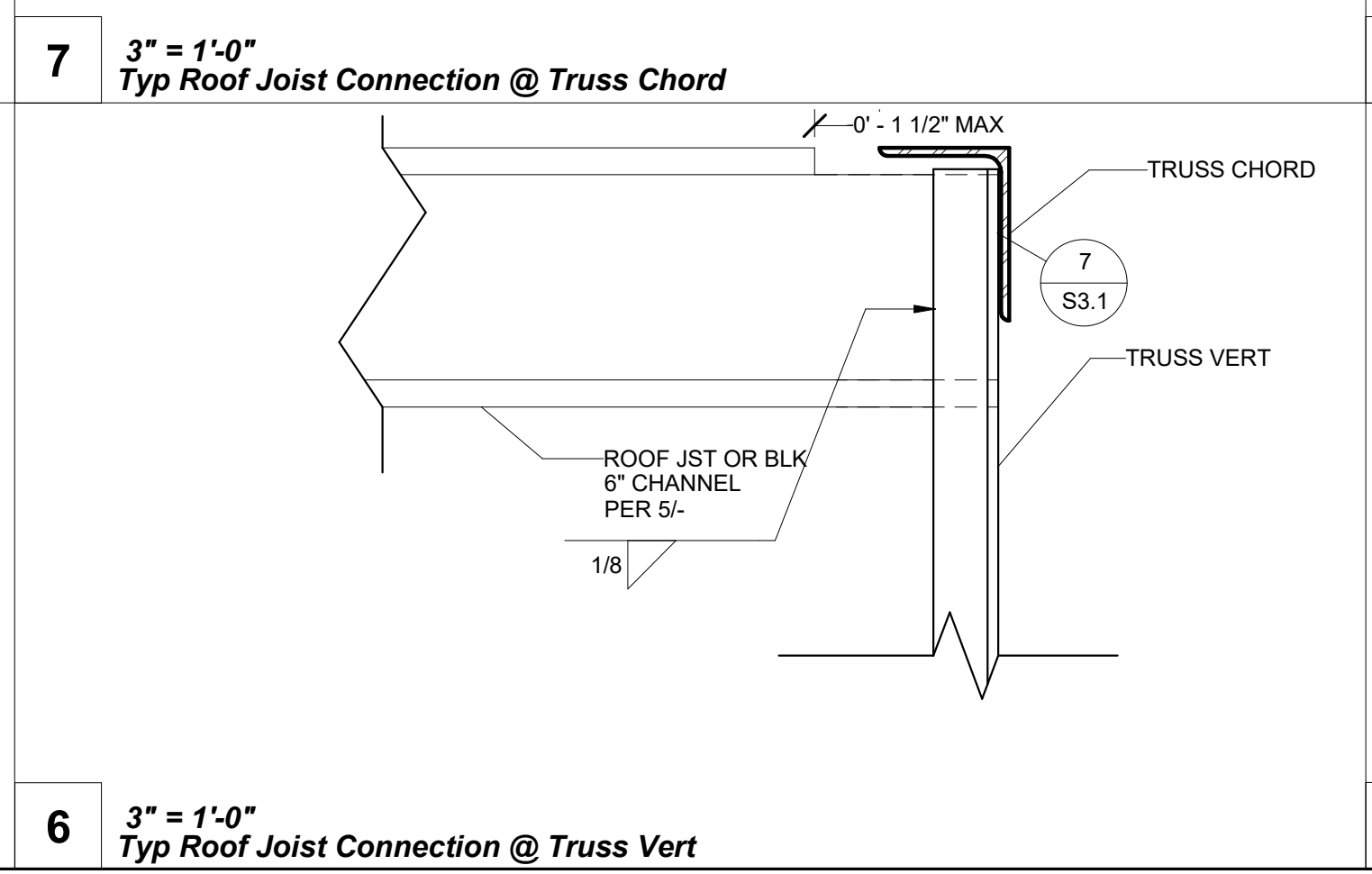
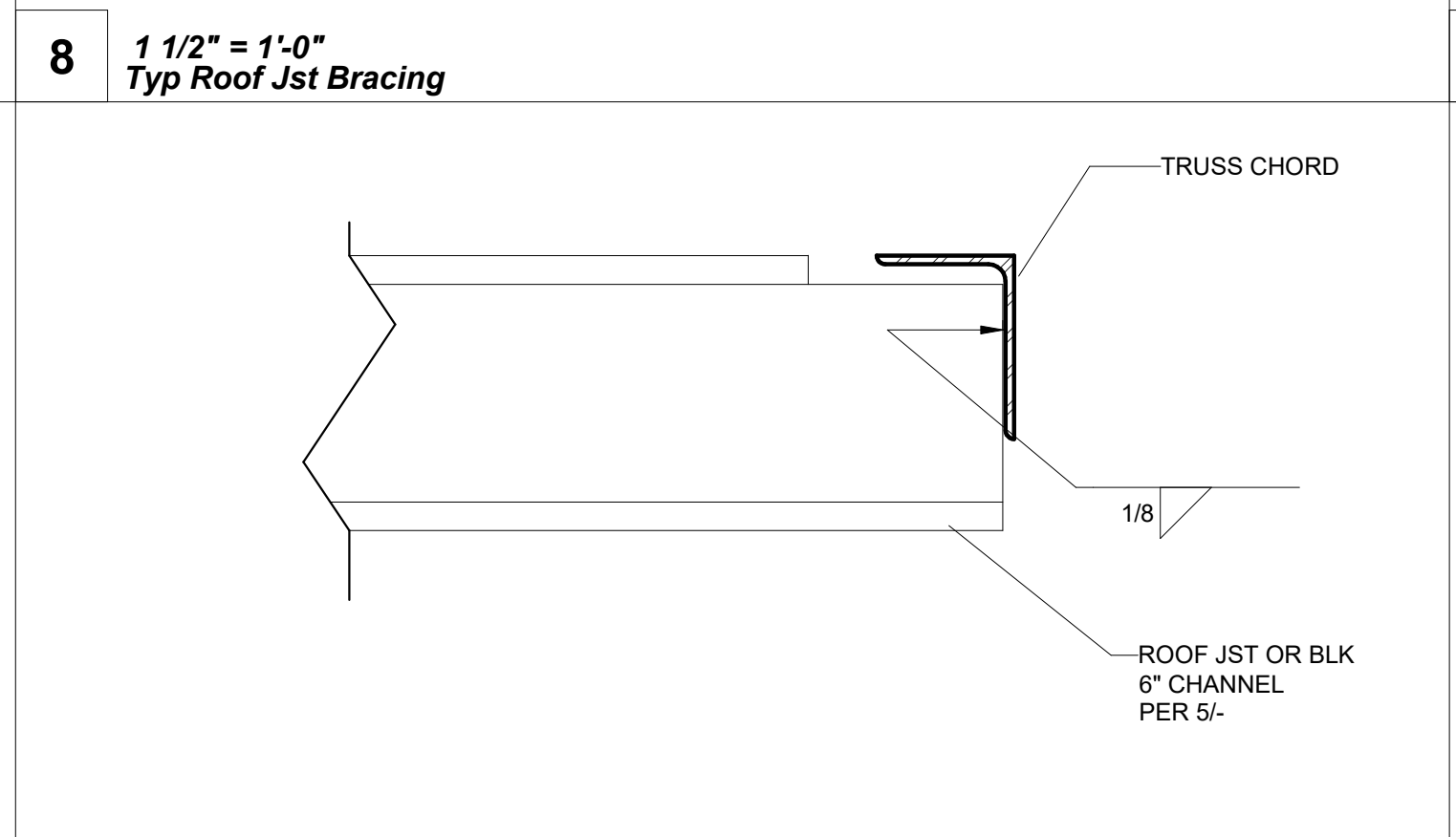
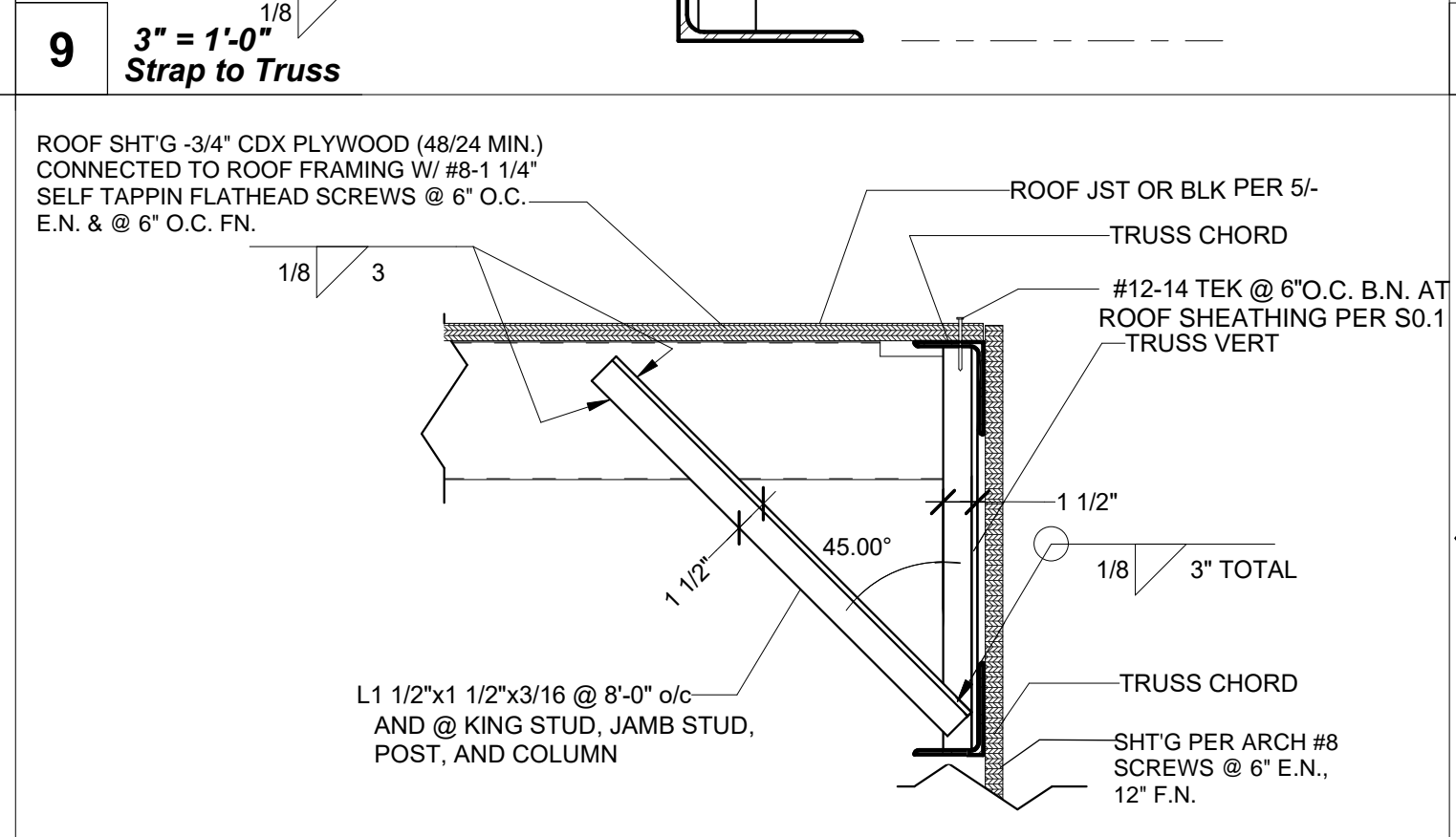
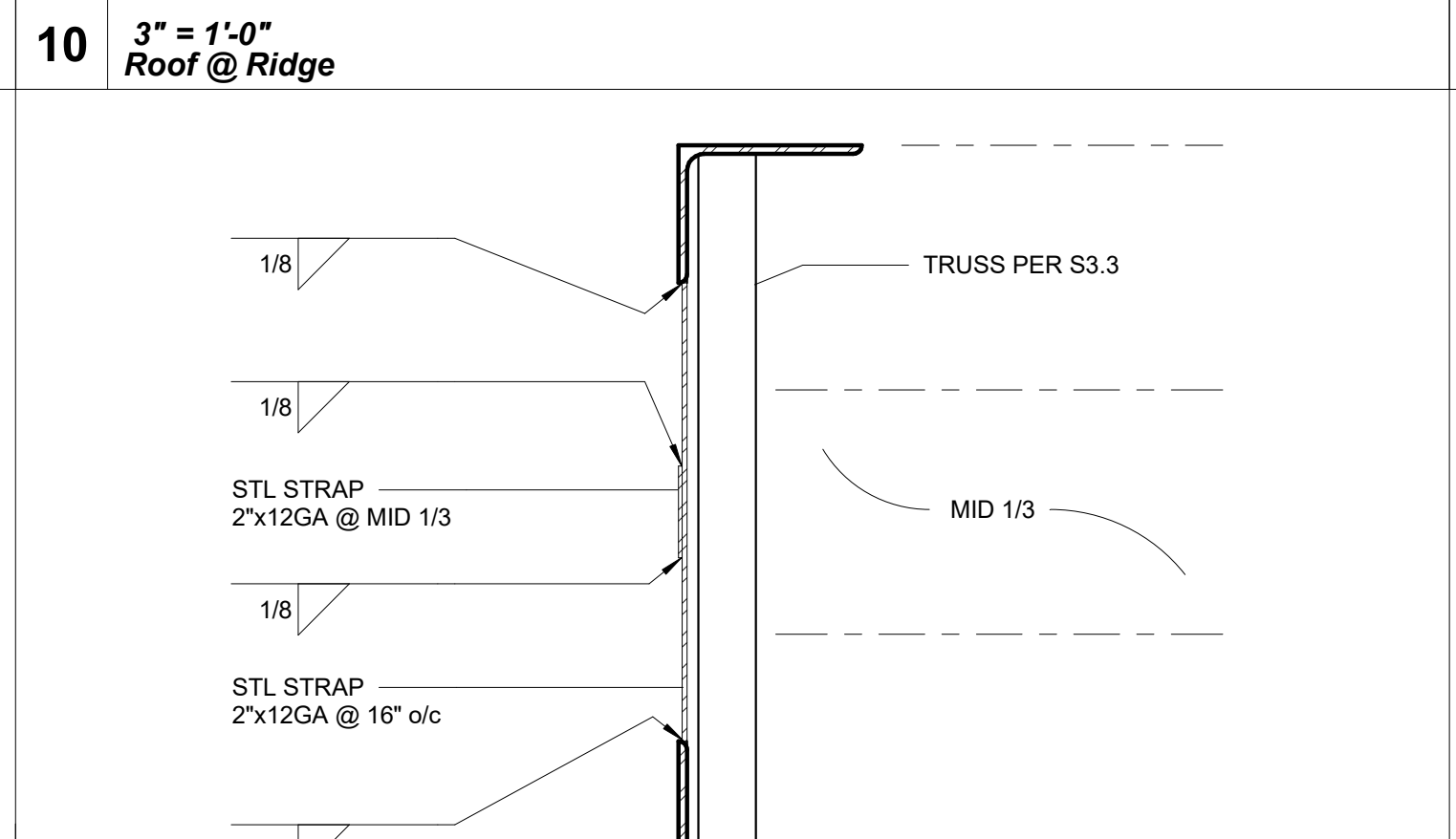
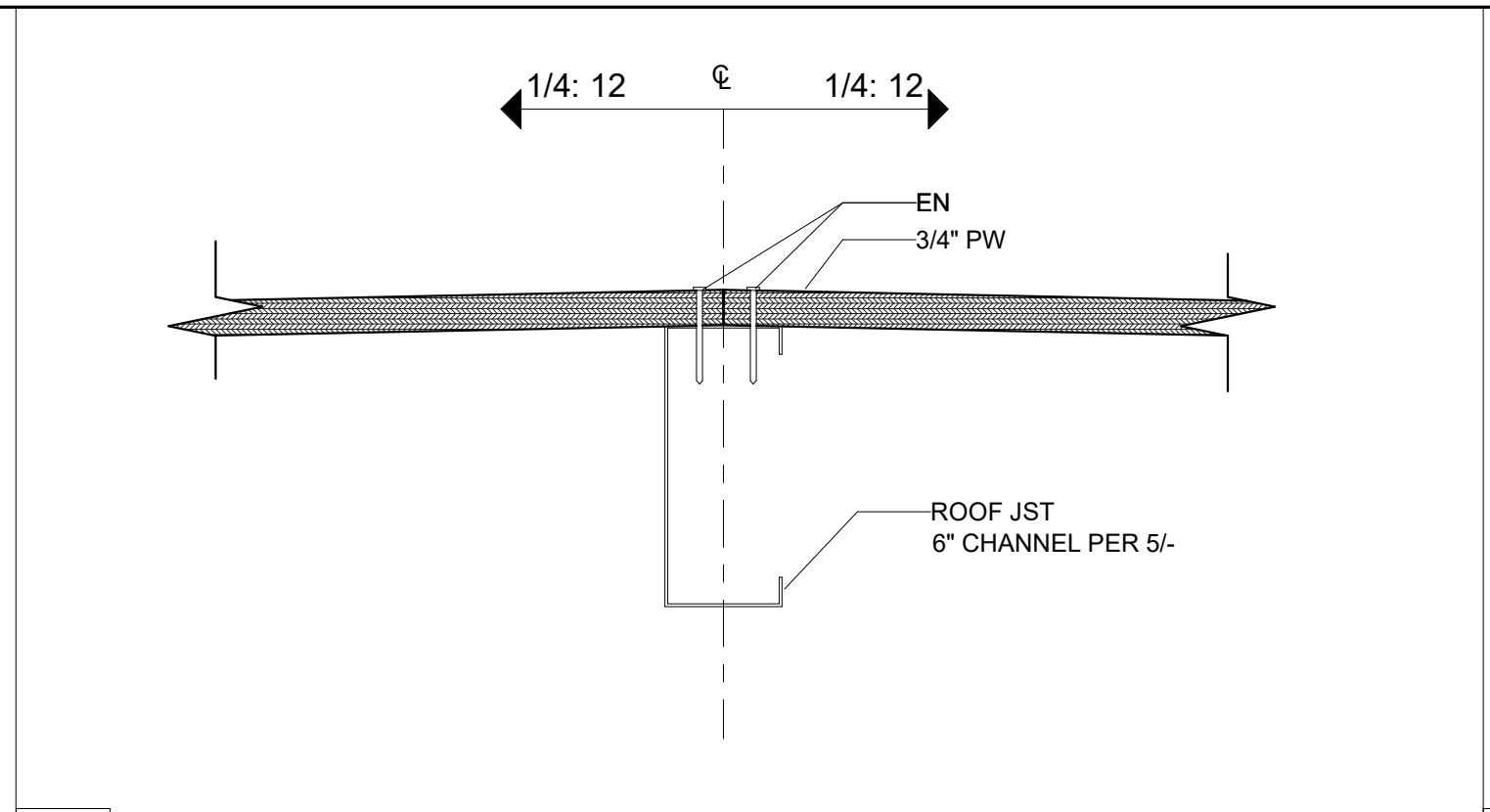
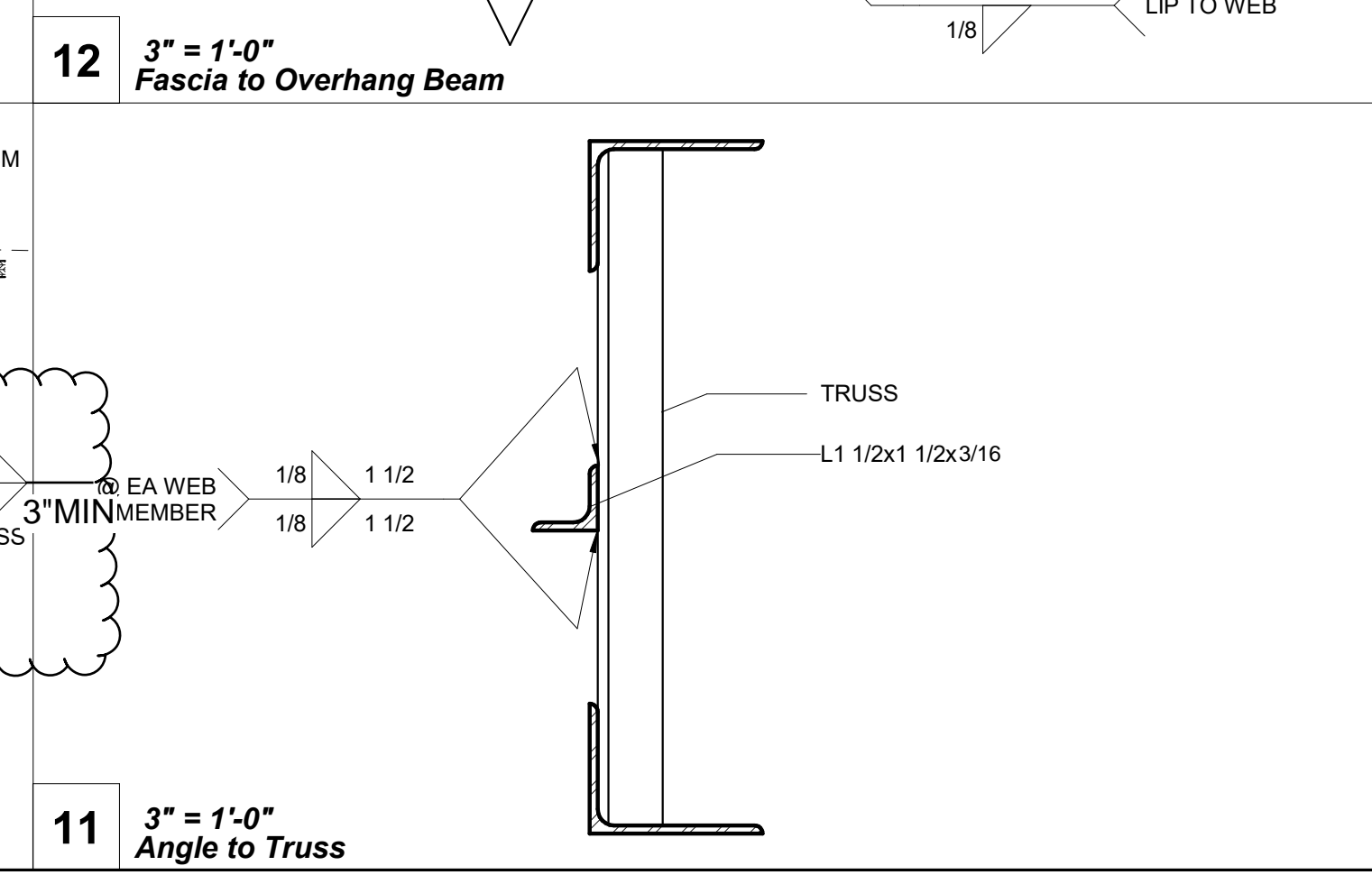
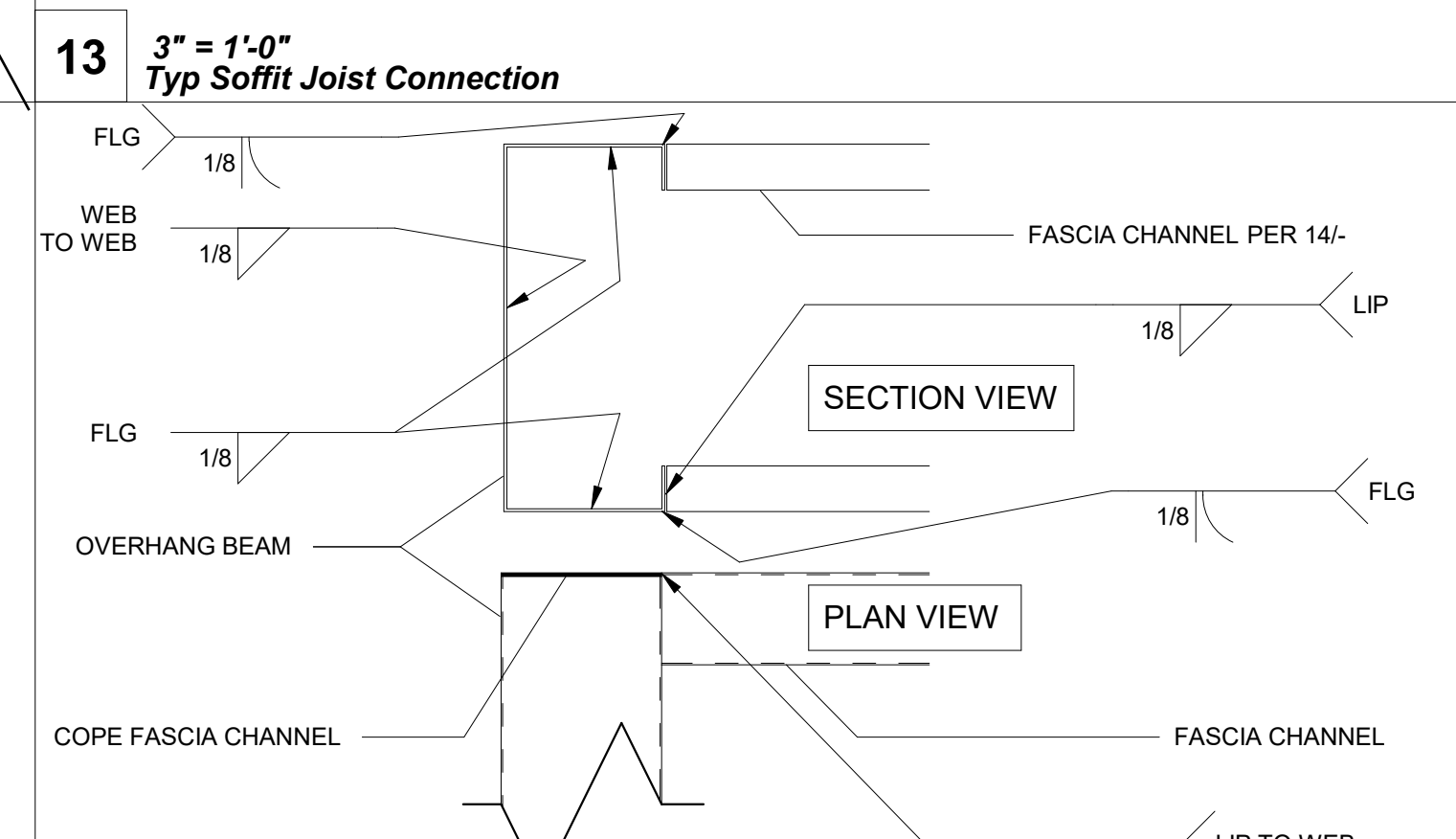
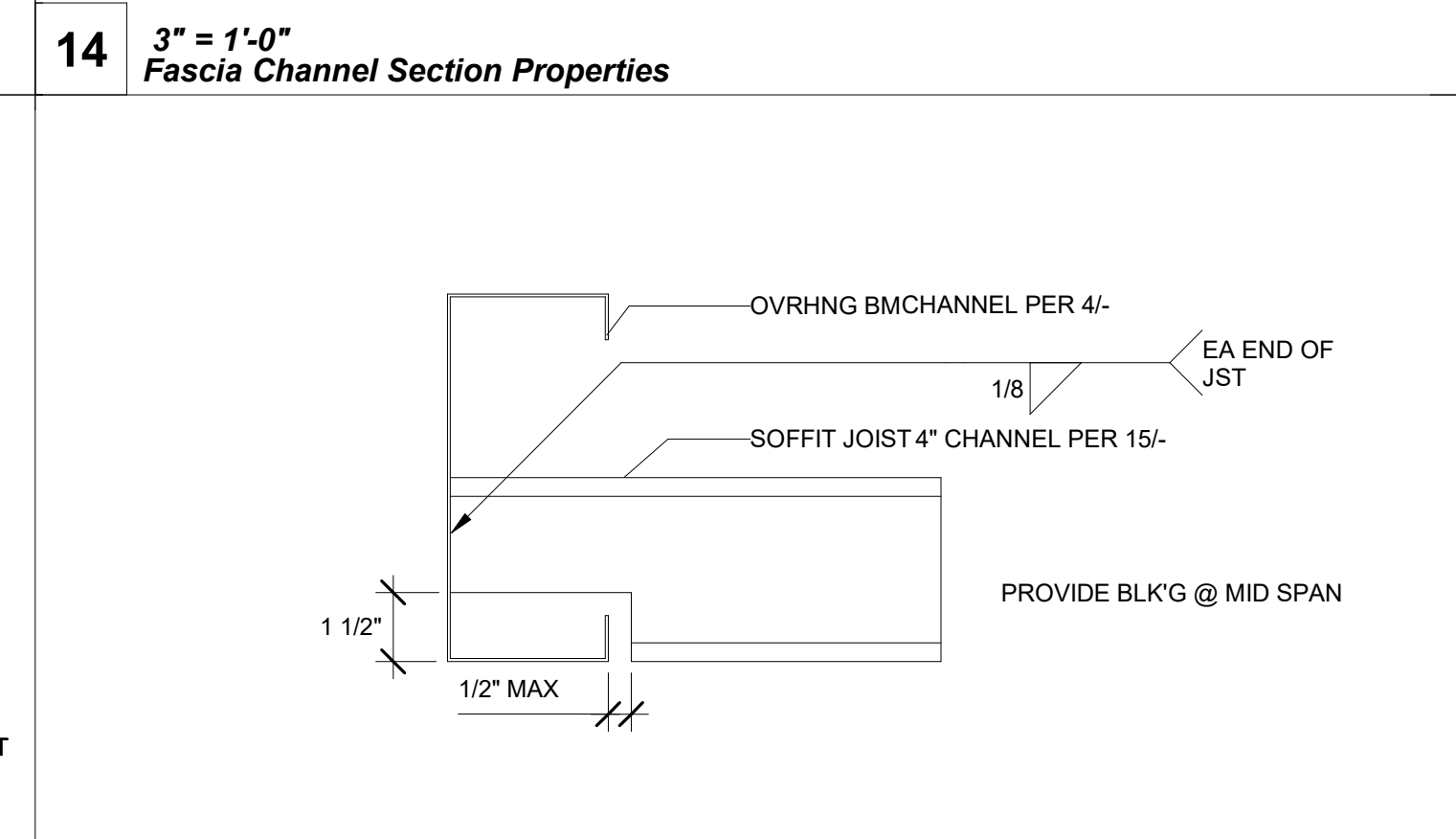
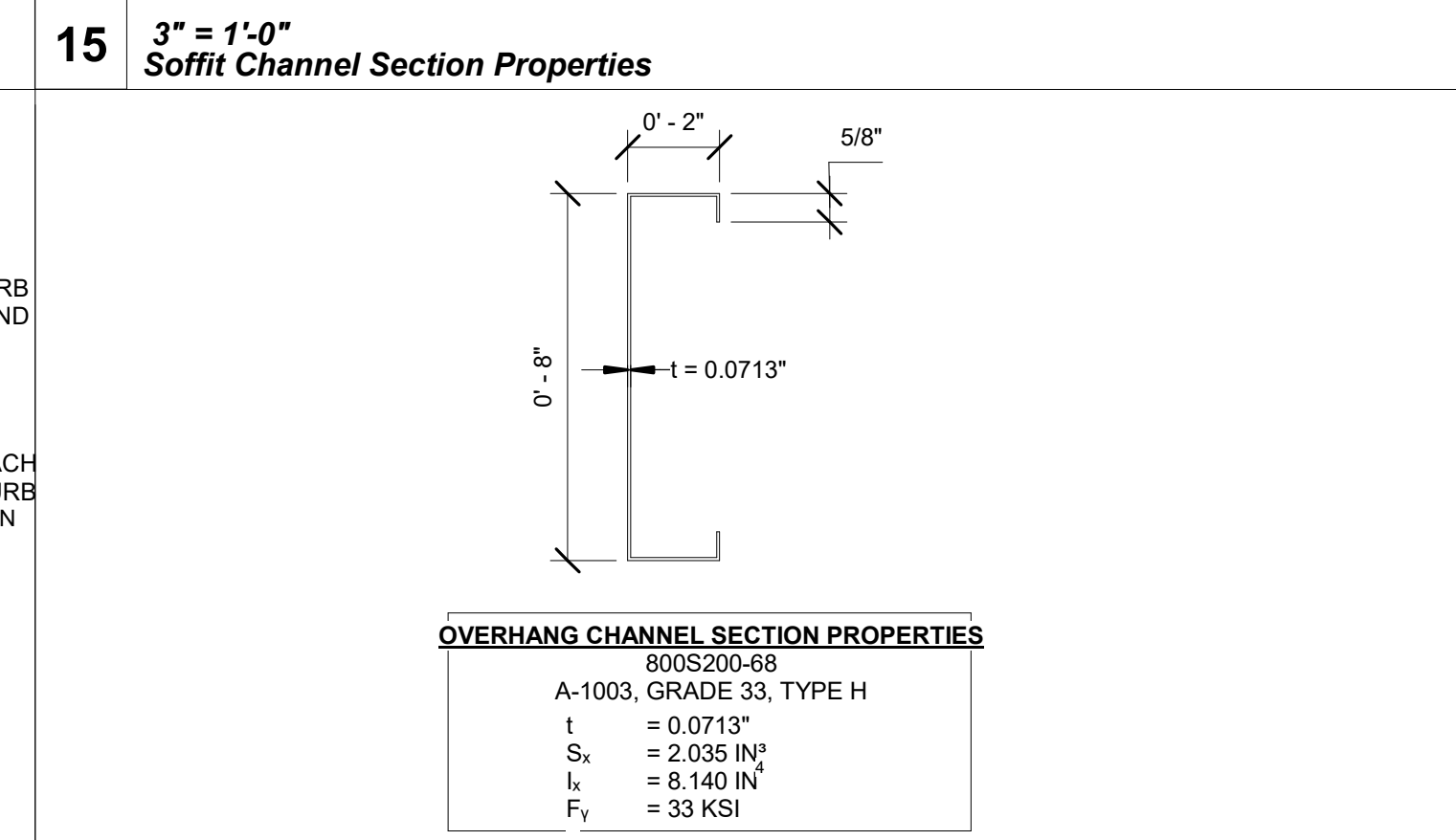
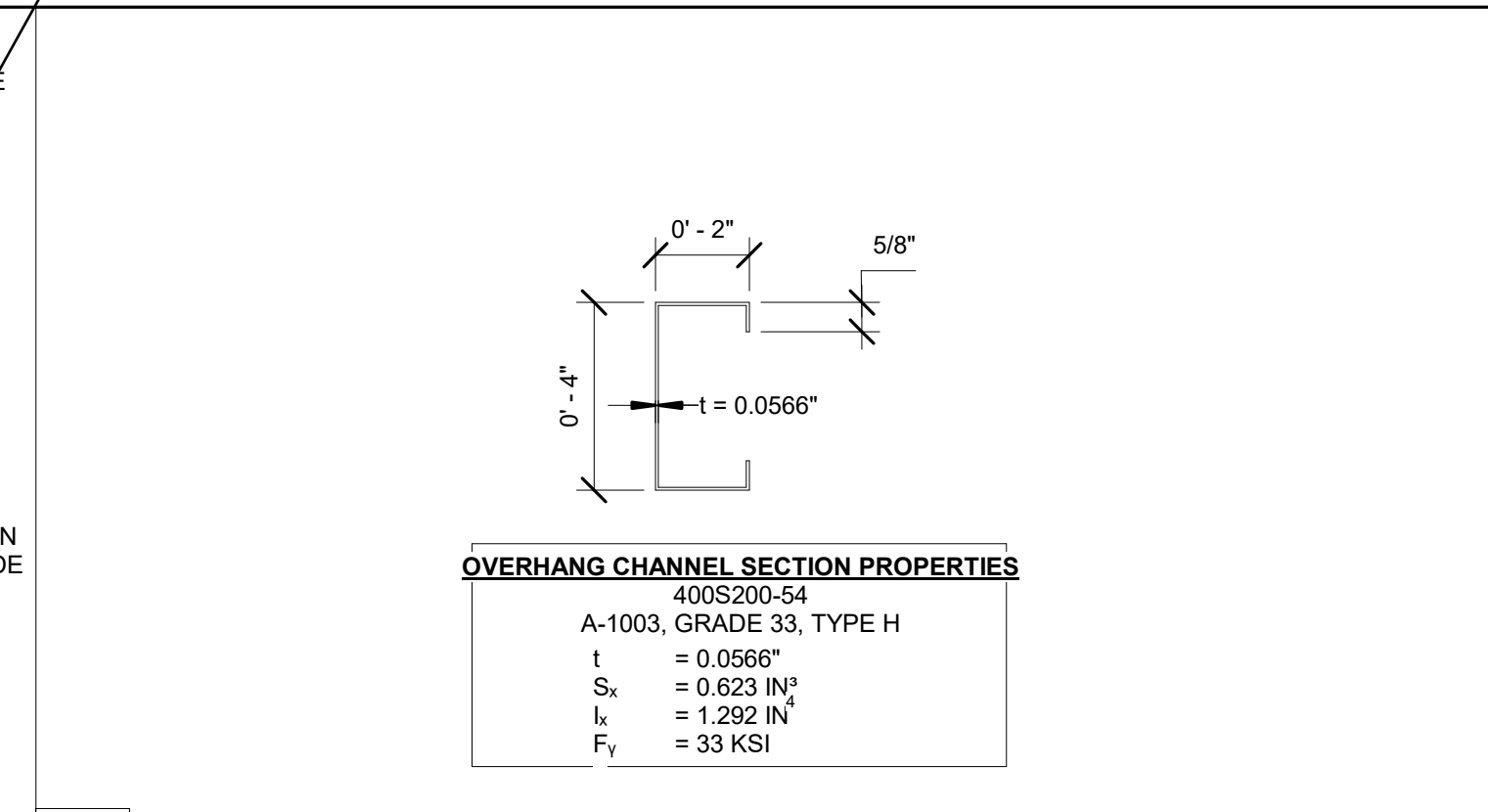
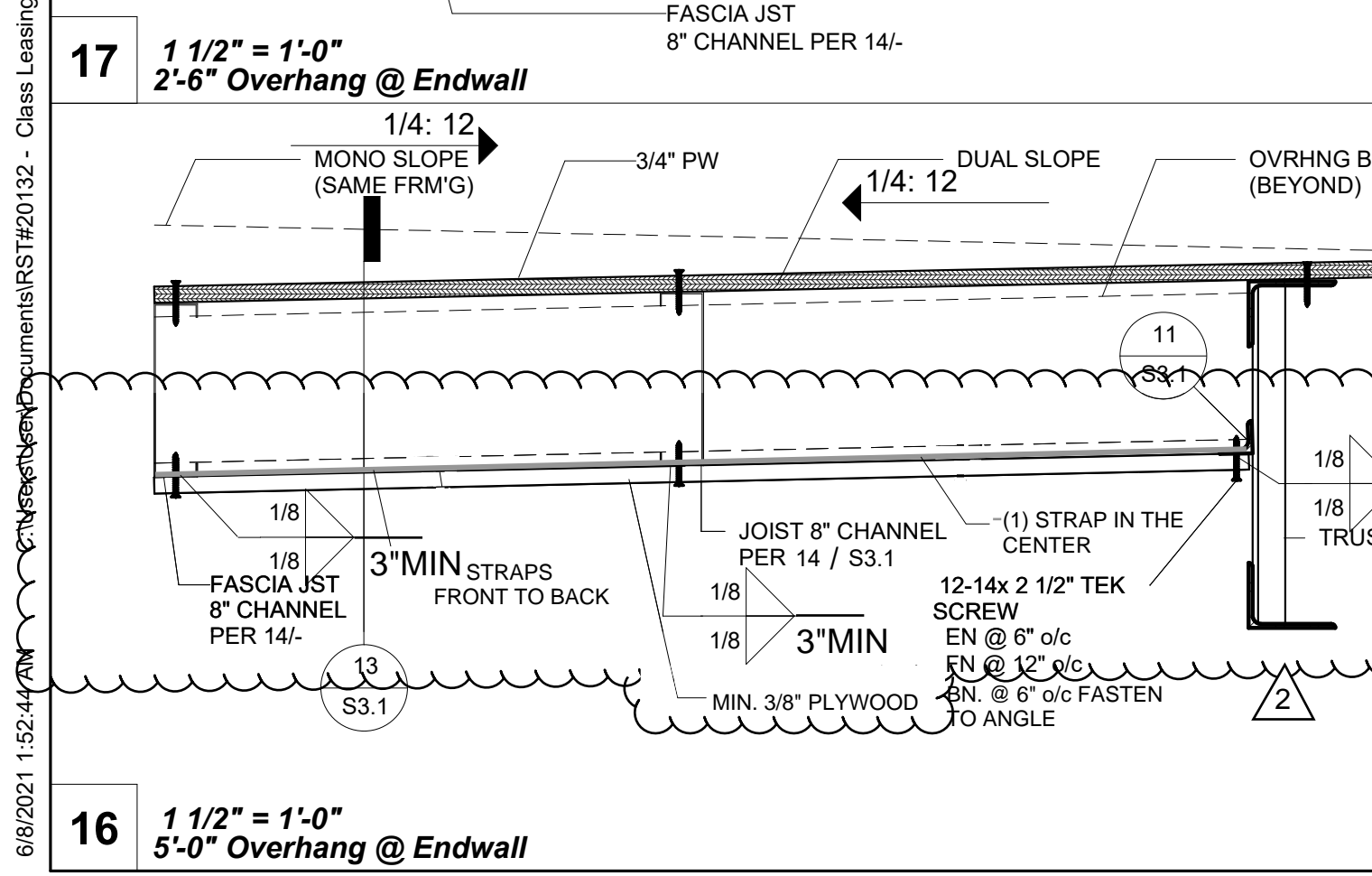
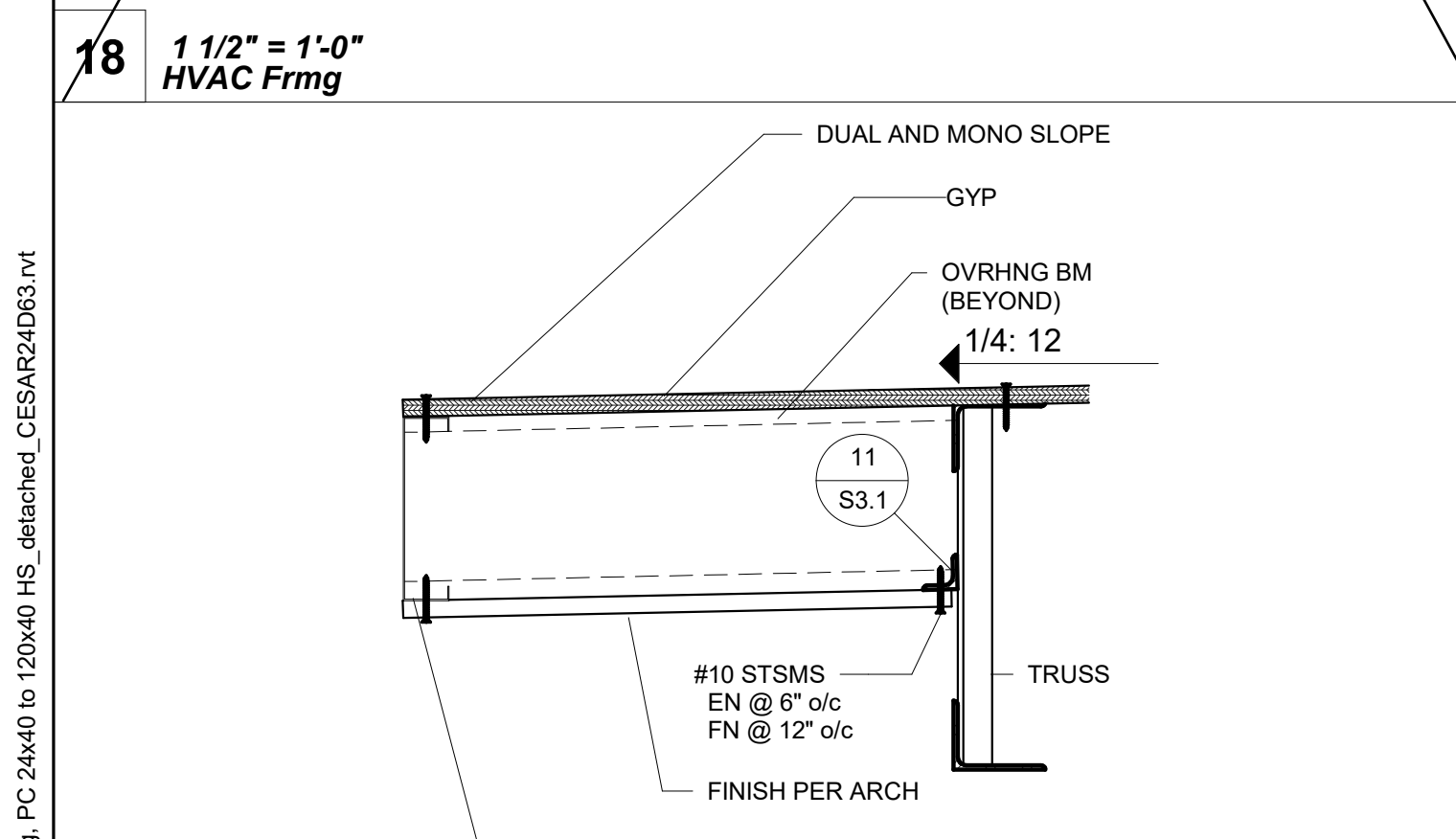
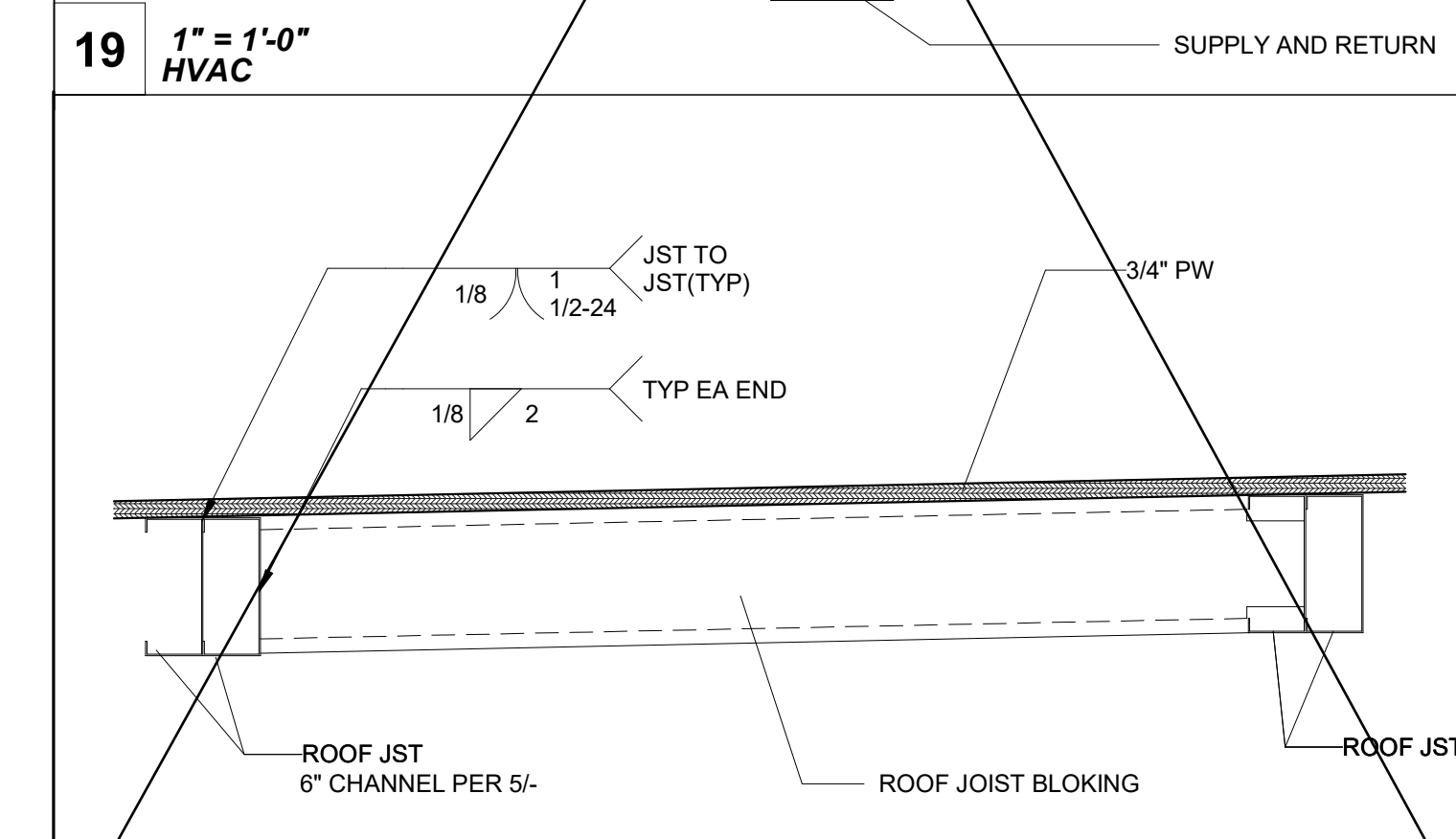
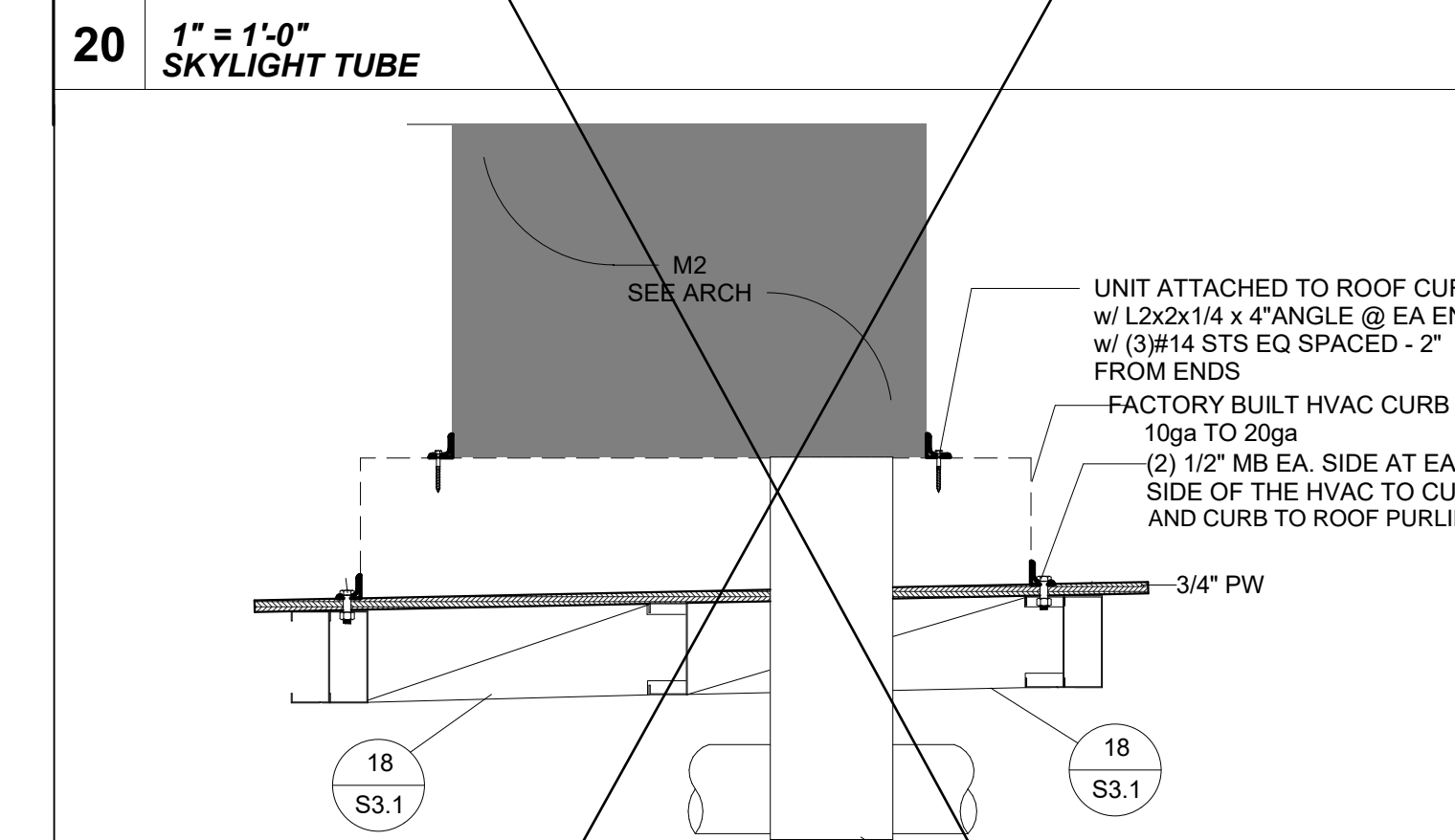
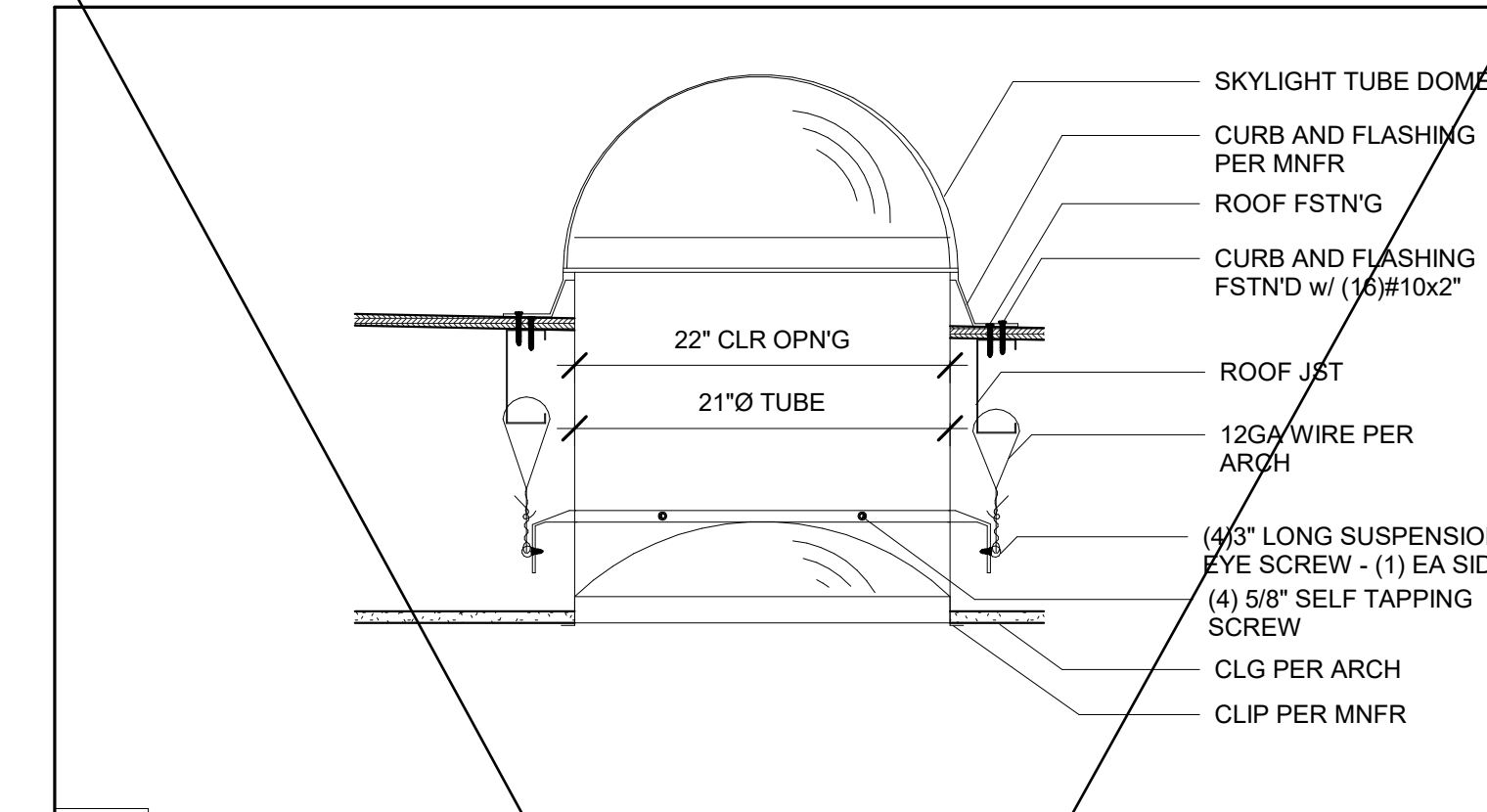
DATE
06/07/2021

SHEET NO.
S3.0.4

SHEET OF

1 1/4" = 1'-0" Dual Roof Framing Plan CROSS-STRAP OPT.

6/8/2021 1:52:44 PM C:\Users\jmc\Documents\RS#20132 - Class Leasing, PC 24x40 to 120x40 HS, detached_CESAR24D63.rvt



PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP. 04-122805 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 09/28/2023

R&S TAVARES ASSOCIATES
 DESIGN & CONSULTING PROJECT MEET
 11500 W BERNARD COURT, SUITE 100
 SAN DIEGO, CA 92127
 WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ARCHITECT
 MANNY D. FLORES
 63380
 03/31/24
 CALIFORNIA
 STATE OF CALIFORNIA
 05/24/23
 RST#22088

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CLIENT

Class Leasing
 1320 W. Oleander Ave, Perris CA 92571-7408
 VOICE (951) 943-1908/Fax (951) 943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
 DIV. OF THE STATE ARCHITECT
 APP. 04-121368 PC
 REVIEWED FOR
 SS FLS ACS CG
 DATE: 09/22/2023

Revision Schedule		
#	Description	Date
2	CCD_002	11/2/2023

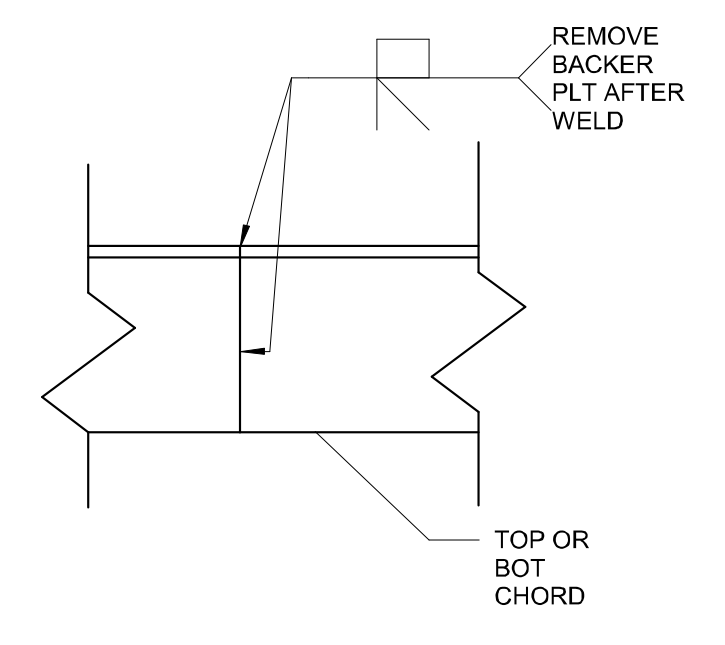
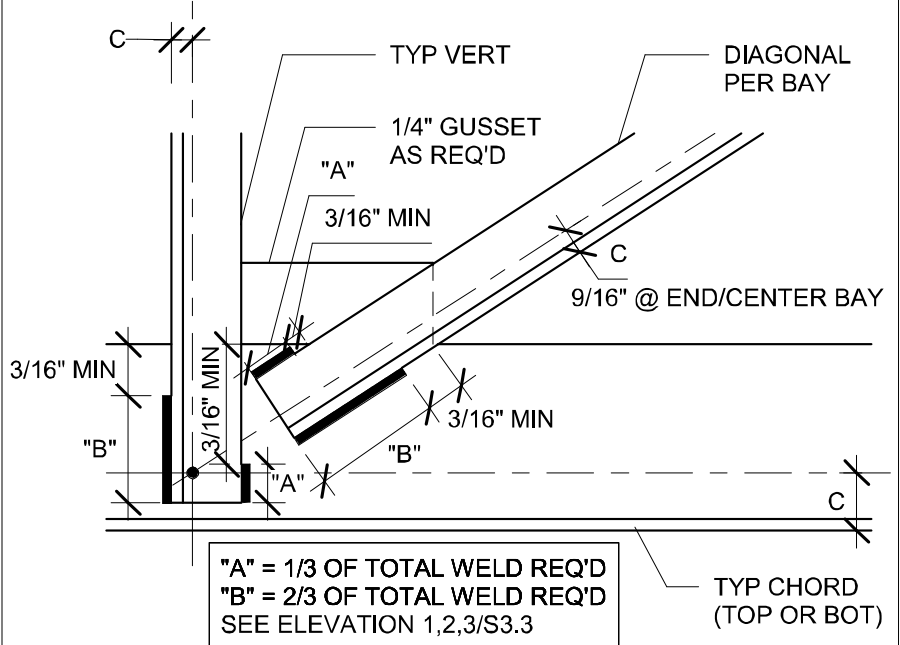
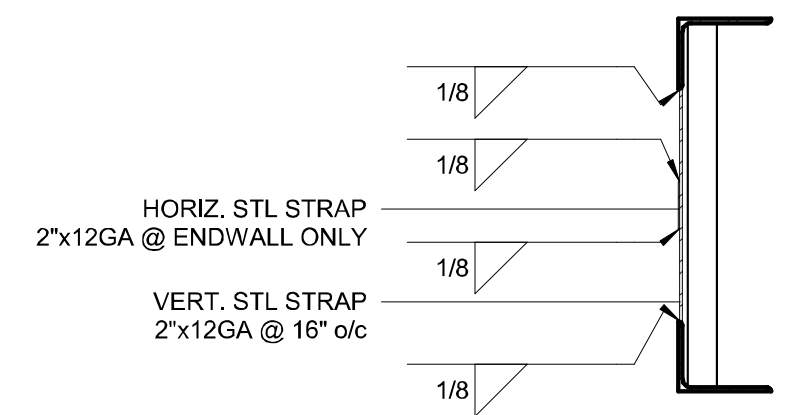
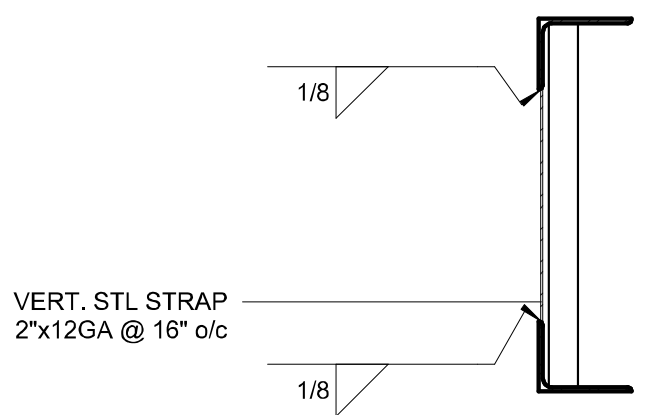
PRE-CHECK (PC) DOCUMENT
 Code: 2022 CBC
 A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
STRUCTURAL DETAILS (ROOF)

PROJECT NUMBER	22088
DRAWN BY	rMc/SC
CHECKED BY	JA/RT
DATE	
SHEET NO.	S3.1
SHEET OF	

TABLE A-SECTION CENTROID	
SECTION	CENTROID C
L4X3 (LLV)	1 1/4"
L4X3 (LLH)	3/4"
L2X2X3/16	9/16"
L1.5X1.5X3/16	7/16"

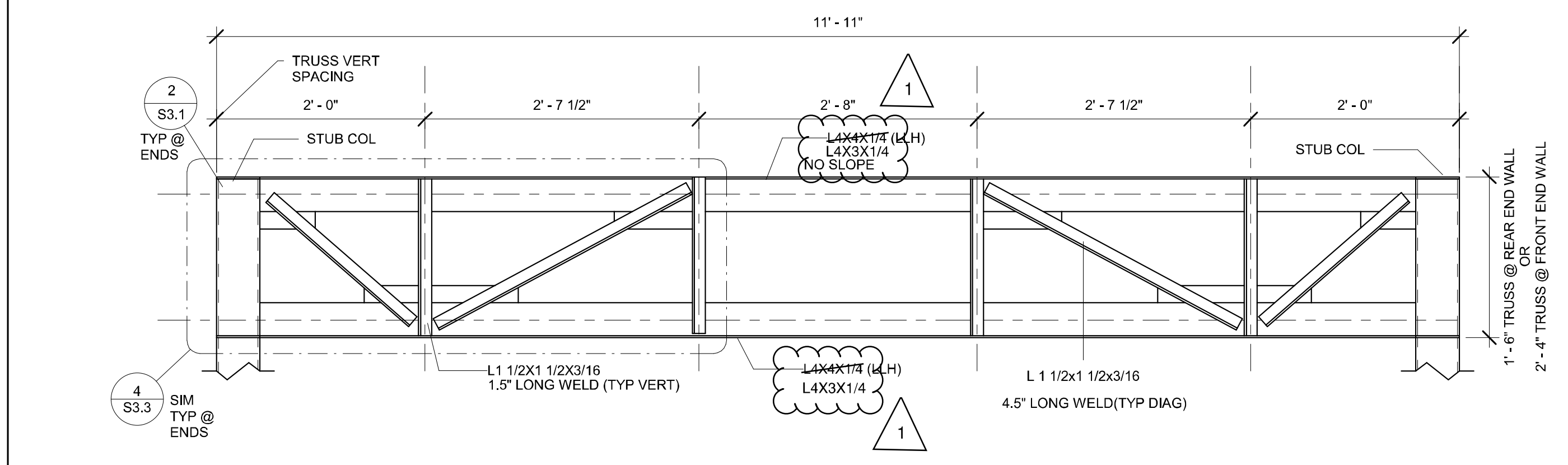


1/2" = 1'-0"
TABLE A - SECTION CENTROID

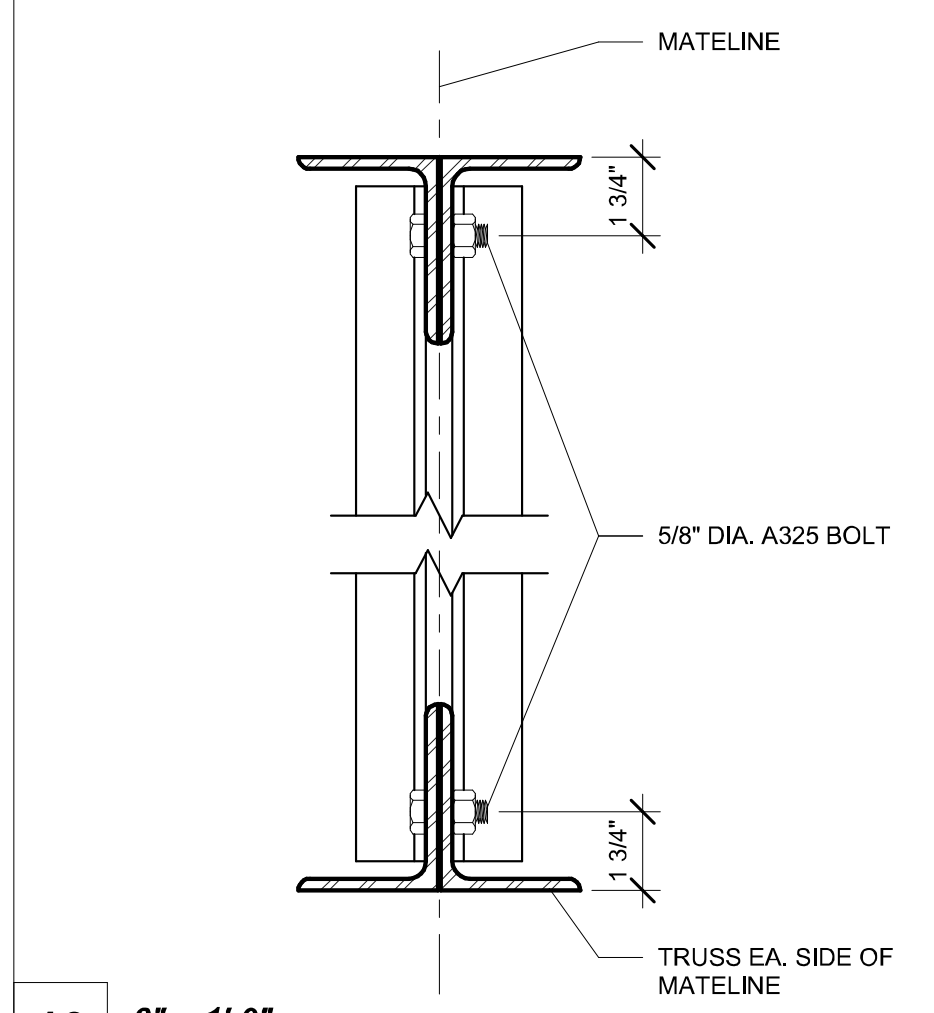
NOTE: SEE DETAIL 8 / S3.3

3" = 1'-0"
Typ Fillet Weld Lengths

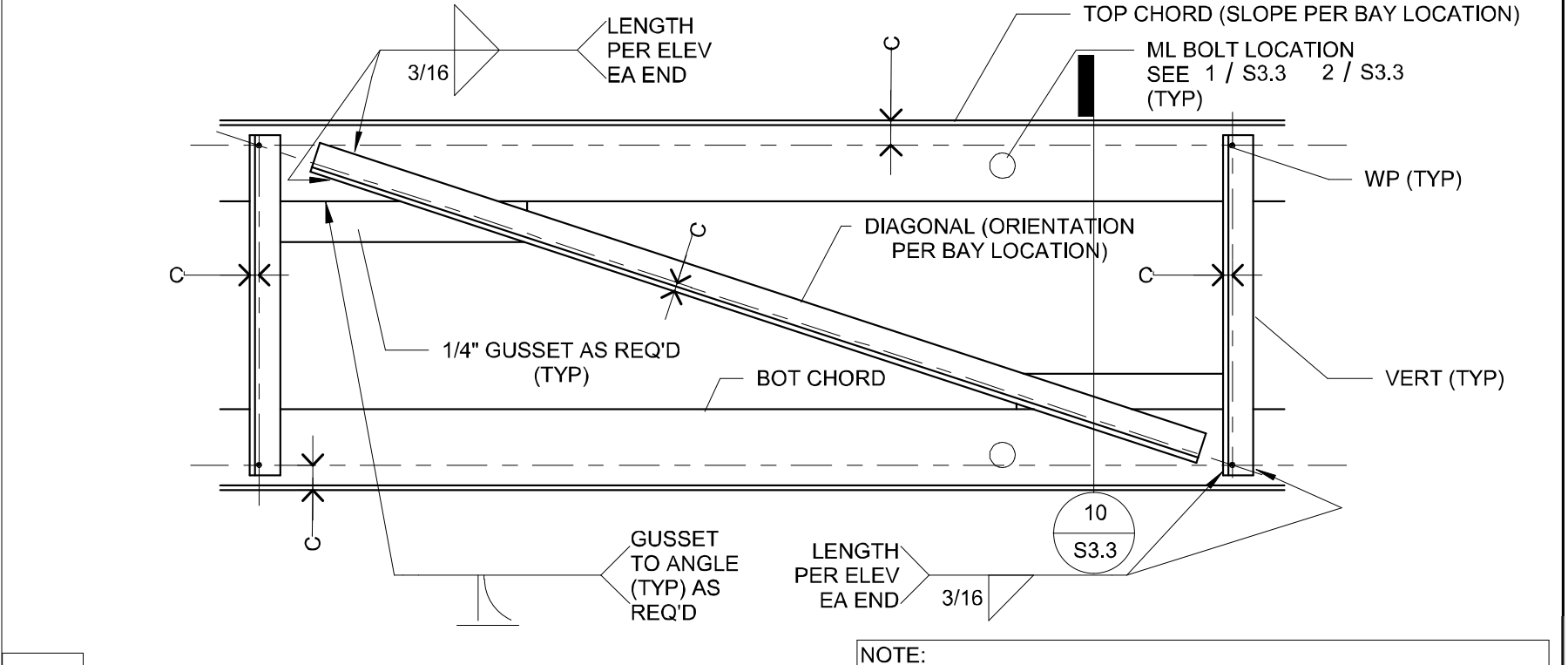
3" = 1'-0"
Typ Truss Chord Splice



1" = 1'-0"
End Wall Truss

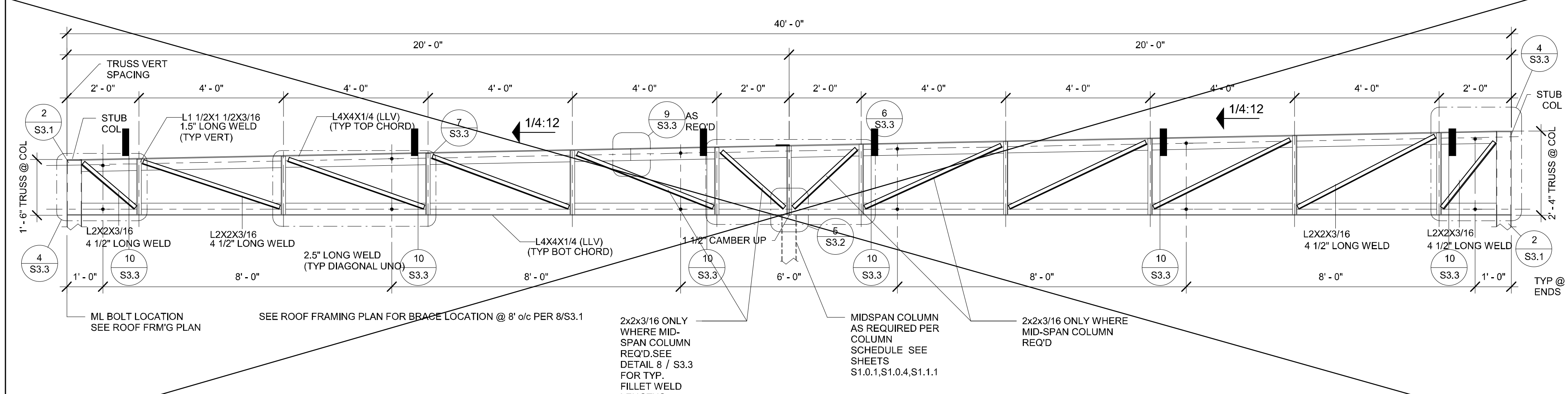


3" = 1'-0"
TRUSS CONN. @ MATELINE



1 1/2" = 1'-0"
Typ Truss Bay

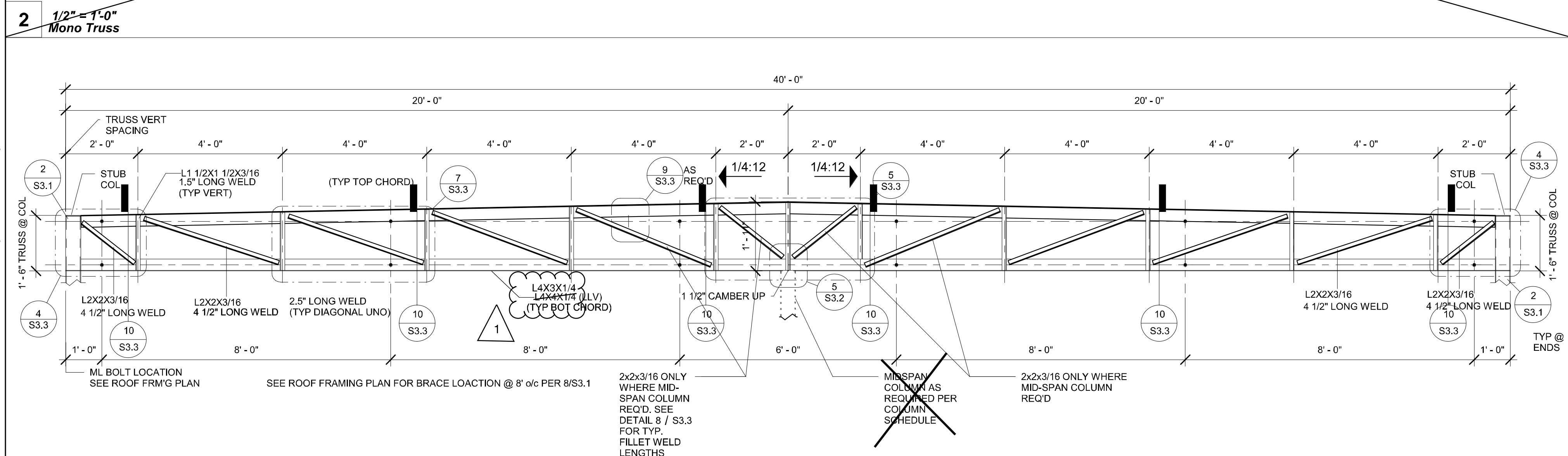
NOTE: SEE 8 / S3.3 FOR ALL FILLET WELD LENGTH DISTRIBUTION



1/2" = 1'-0"
Mono Truss

1 1/2" = 1'-0"
Typ Truss @ Center Bay (Mono Slope)

NOTE: SEE 8 / S3.3 FOR ALL FILLET WELD LENGTH DISTRIBUTION



1/2" = 1'-0"
Dual Truss

1 1/2" = 1'-0"
Typ Truss @ Center Bay (Dual Slope)

NOTE: SEE 8 / S3.3 FOR ALL FILLET WELD LENGTH DISTRIBUTION

1 1/2" = 1'-0"
Typ End Bay to Stub Conn

NOTE: SEE 8 / S3.3 FOR ALL FILLET WELD LENGTH DISTRIBUTION

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122805 INC.
REVIEWED FOR
SS FLS ACS
DATE: 09/28/2023

R&S TAVARES ASSOCIATES
DESIGN • CONSULTING • PROJECT MGMT
11550 W. BISHOP RD., SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

MANLY D. FERRELL
REGISTERED PROFESSIONAL ARCHITECT
NO. 13380
03/31/24
STATE OF CALIFORNIA
05/24/23
RSTAV2088

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CLIENT

Class Leasing
1320 W. Oleander Ave. Perris CA 92571-7408
VOICE (951) 943-1908 FAX (951) 943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-121368 PC
SS FLS ACS CG
DATE: 09/22/2023

#	Revision Description	Date
1	AMEND CALL OUT PER CALCS	10-11-23

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40'
EXPANDABLE TO
120' x 40'

SHEET TITLE
ROOF PERIMETER TRUSS

PROJECT NUMBER
22088

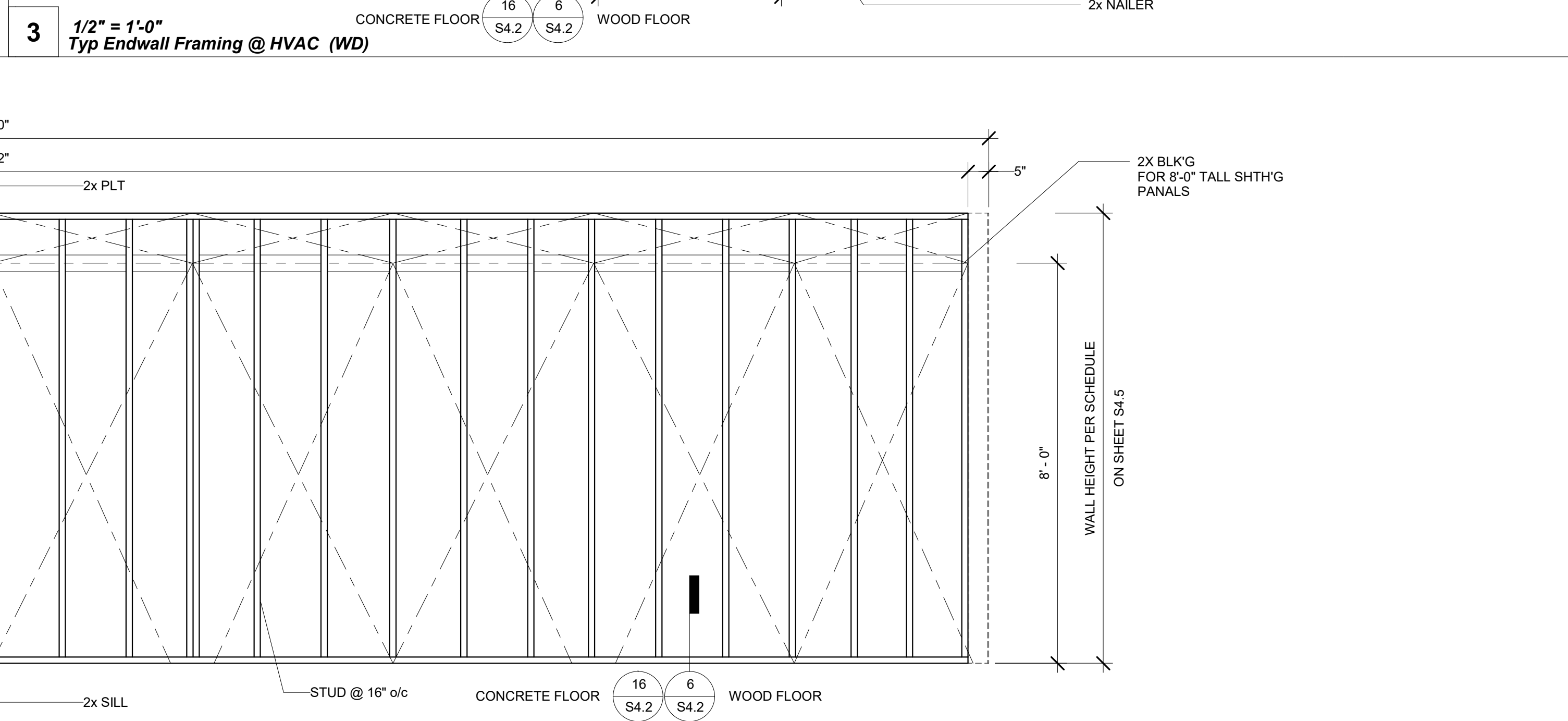
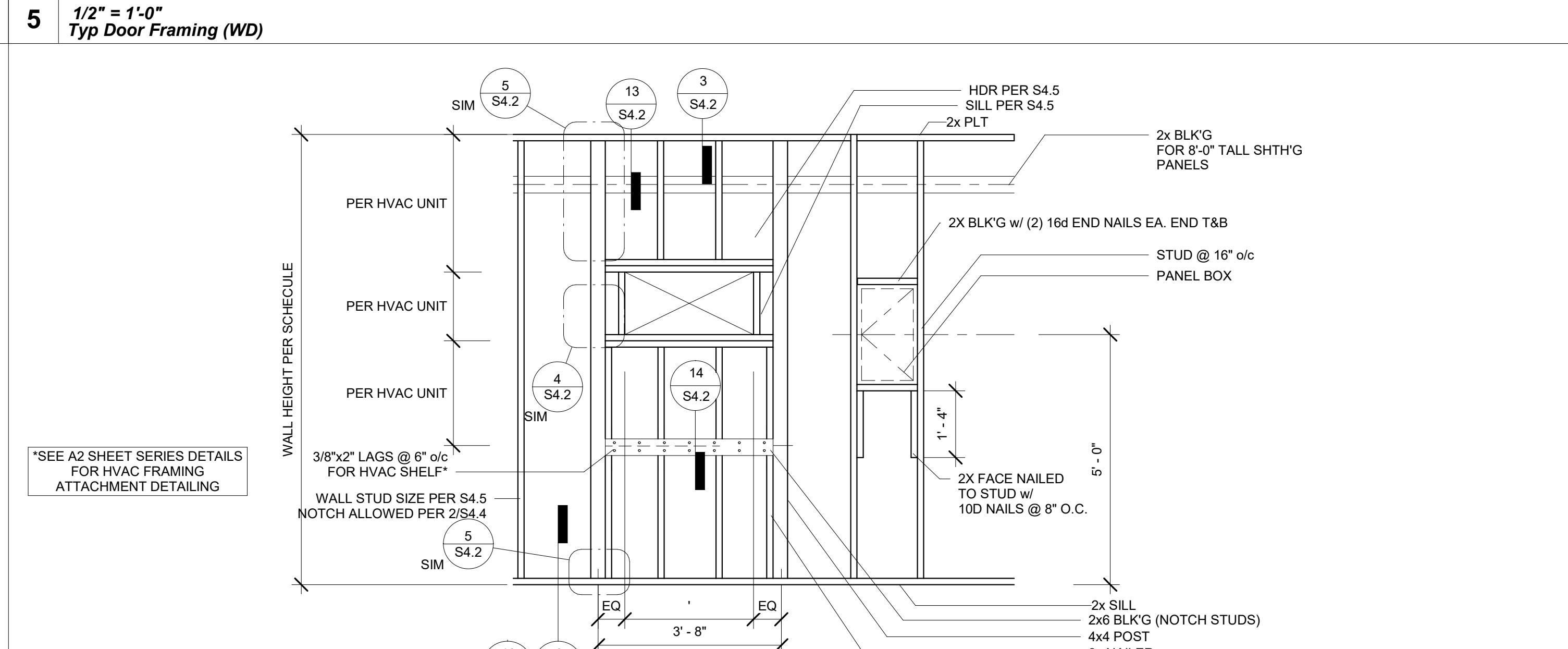
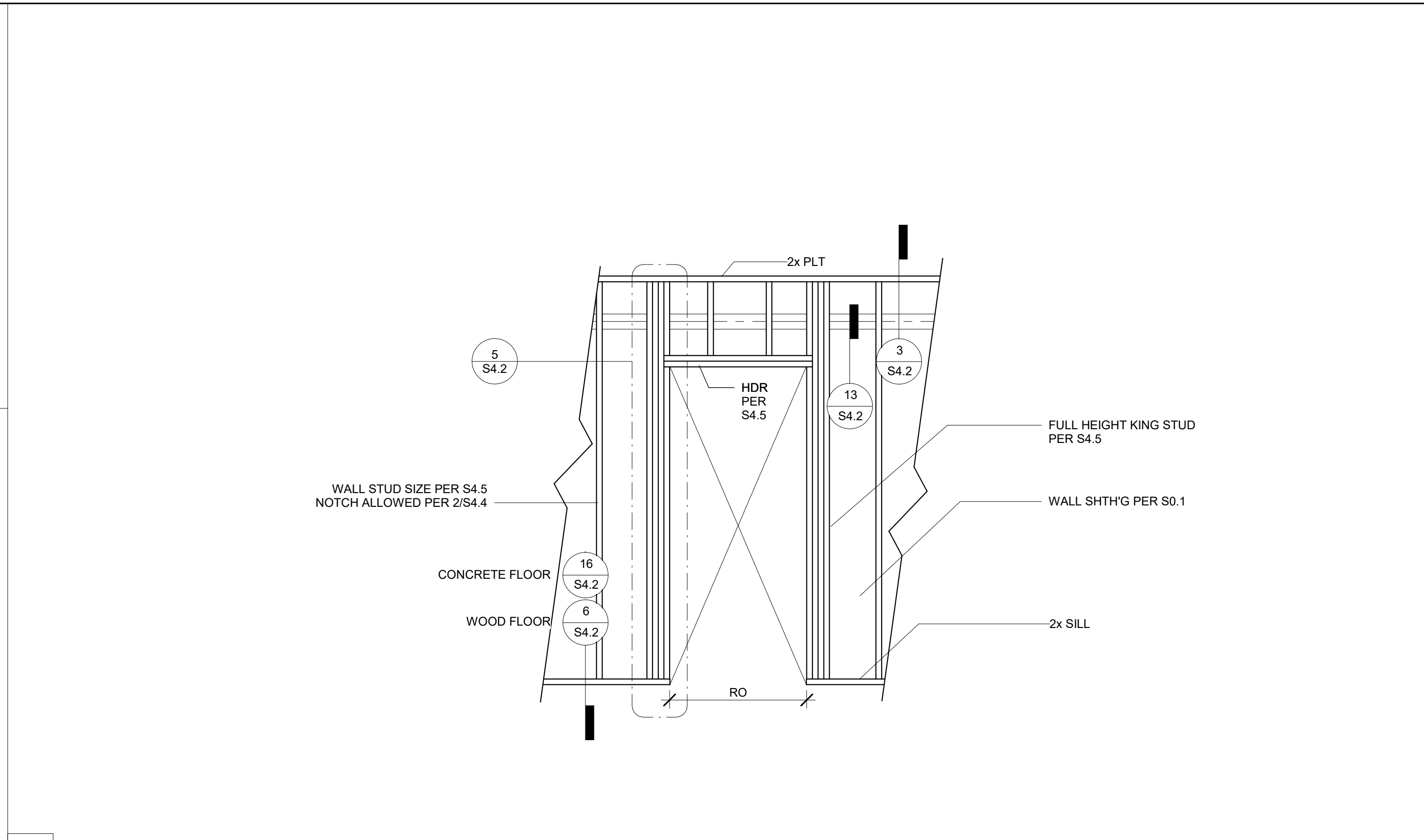
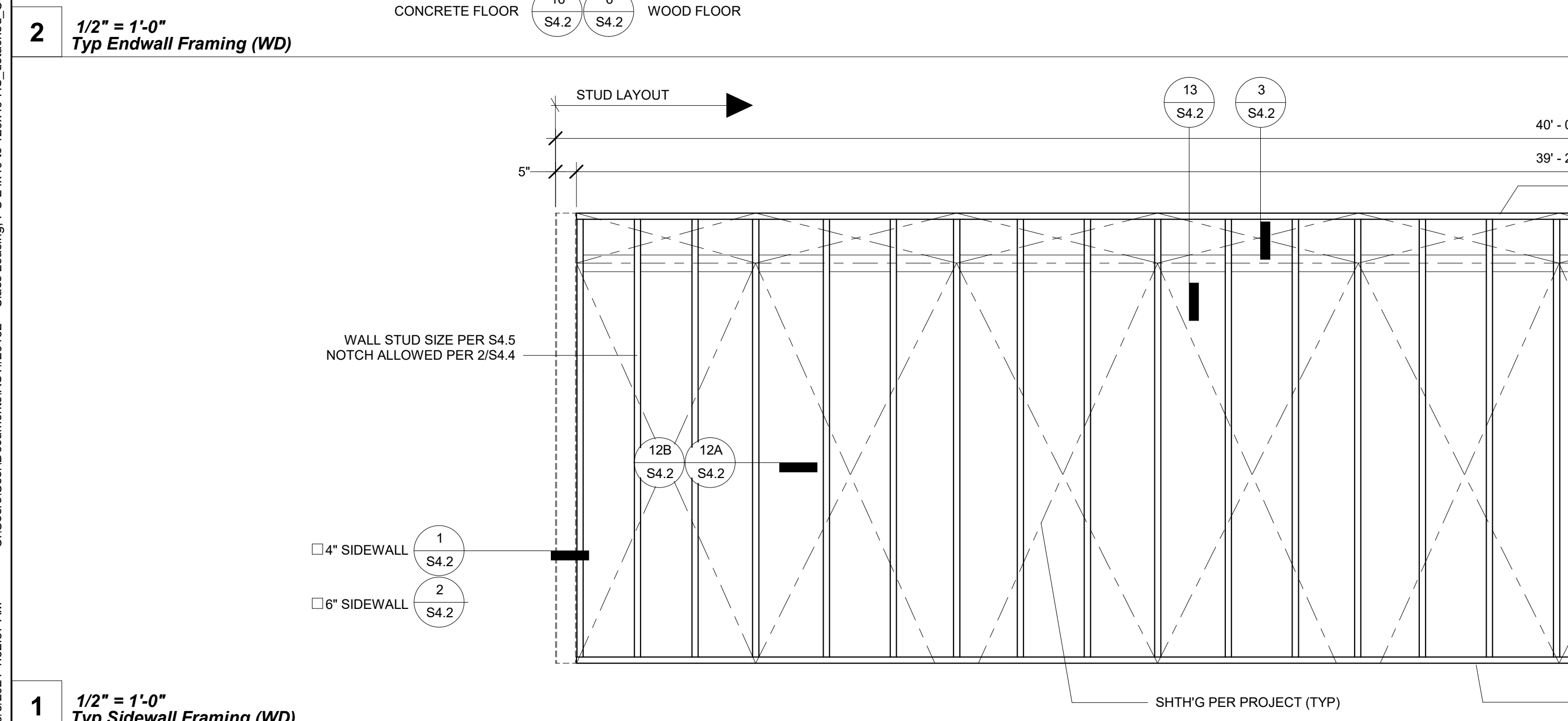
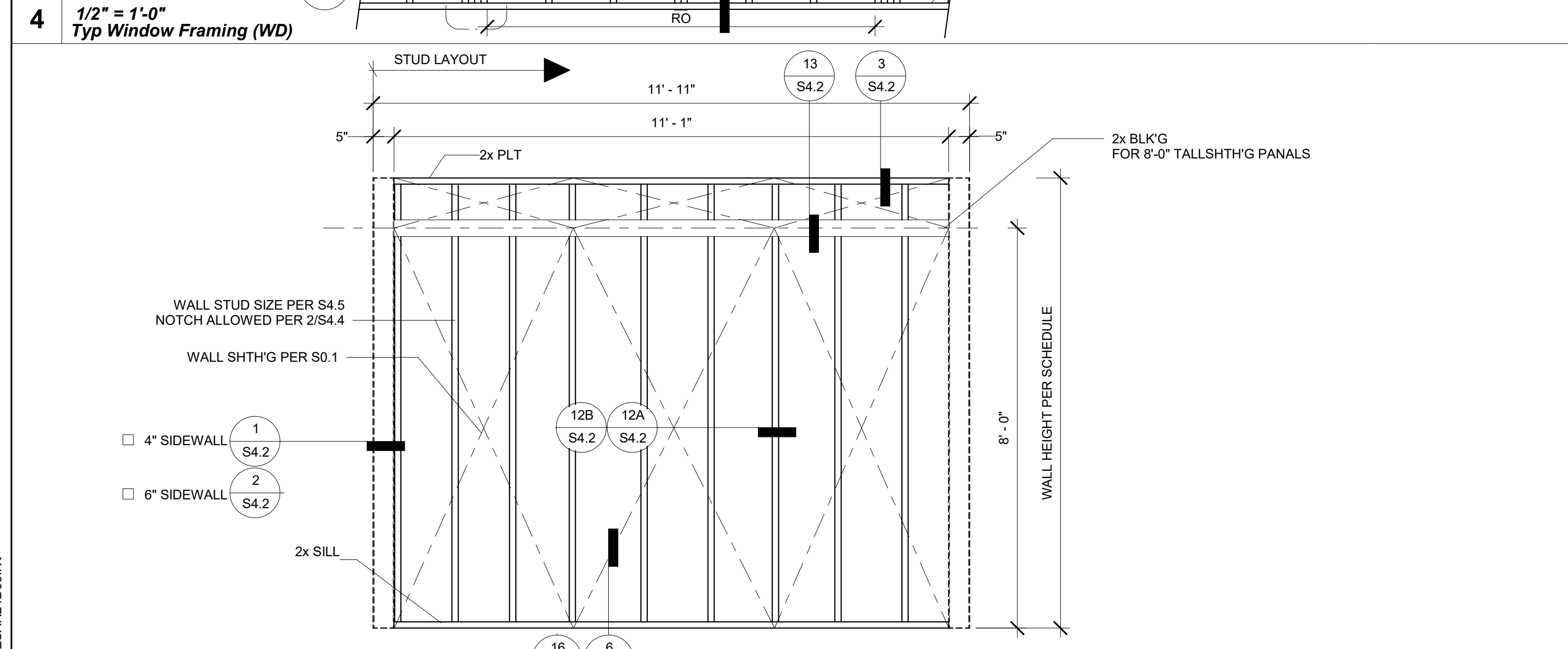
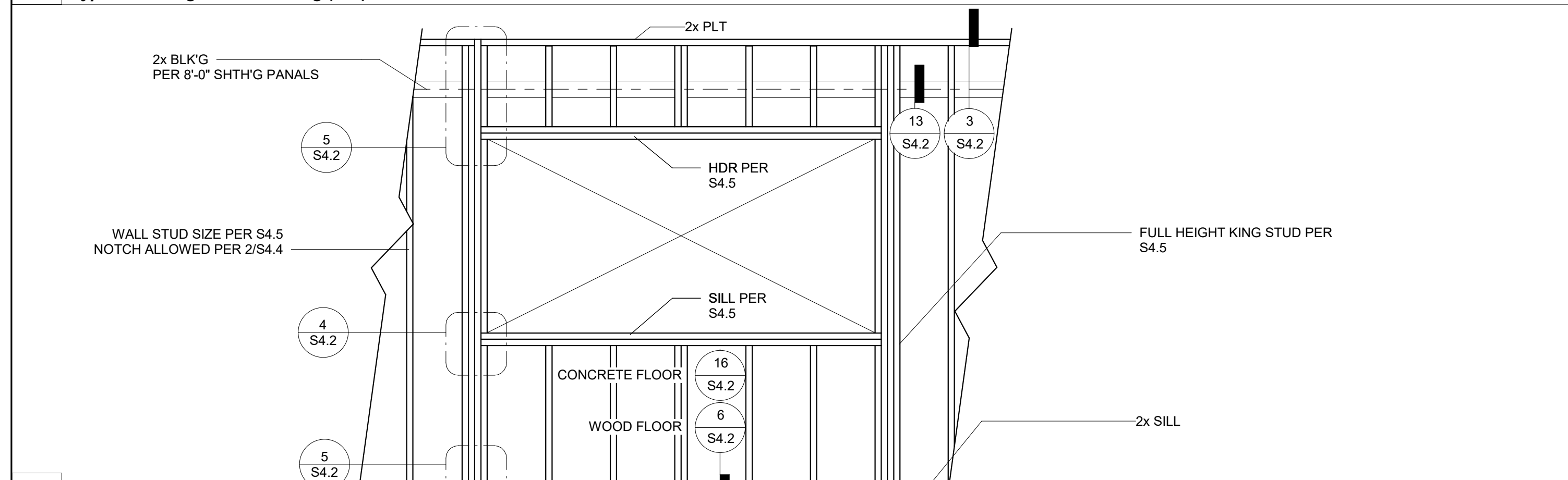
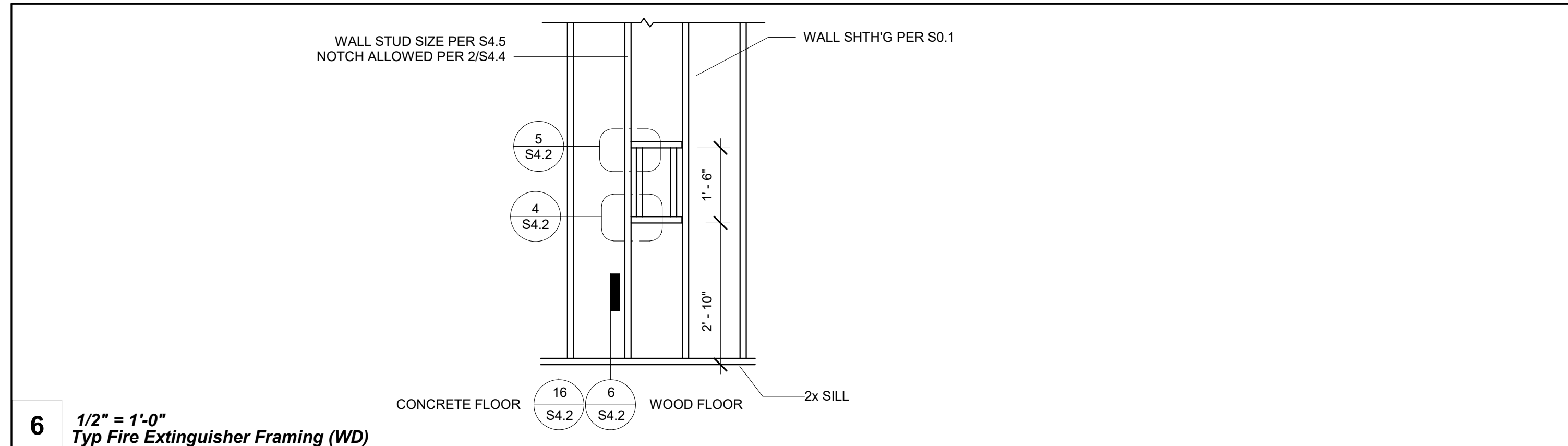
DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE

SHEET NO.
S3.3

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PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP. 04-122805 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 09/28/2023

R&S TAVARES ASSOCIATES
 DESIGN & CONSULTING & PROJECT MGT
 11500 W BERNHARD COURT, SUITE 100
 SAN DIEGO, CA 92127
 WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ARCHITECT
 MANNY D. FRIEDL
 63380
 03/31/24
 PC TURKEY
 STATE OF CALIFORNIA
 05/24/23
 RST#22088

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Class Leasing
 1320 W. Oleander Ave, Perris CA 92571-7408
 VOICE (951) 943-1908/Fax (951) 943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
 DIV. OF THE STATE ARCHITECT
 APP. 04-121368 PC
 REVIEWED FOR
 SS FLS ACS CG
 DATE: 09/22/2023

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT
 Code: 2022 CBC
 A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
WD WALL FRAMING ELEVATIONS

PROJECT NUMBER
 22088

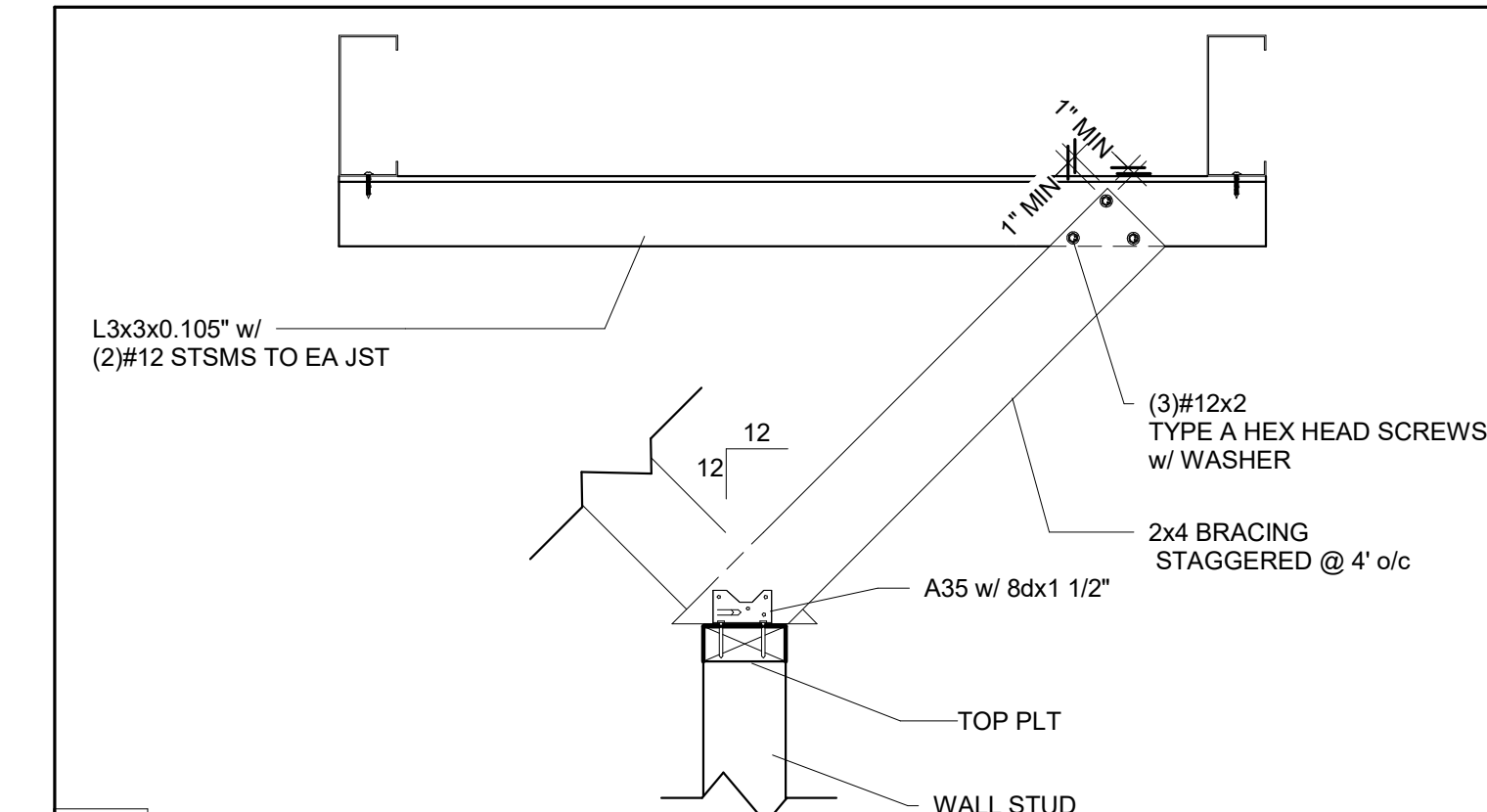
DRAWN BY
 rMc/SC

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 JA/RT

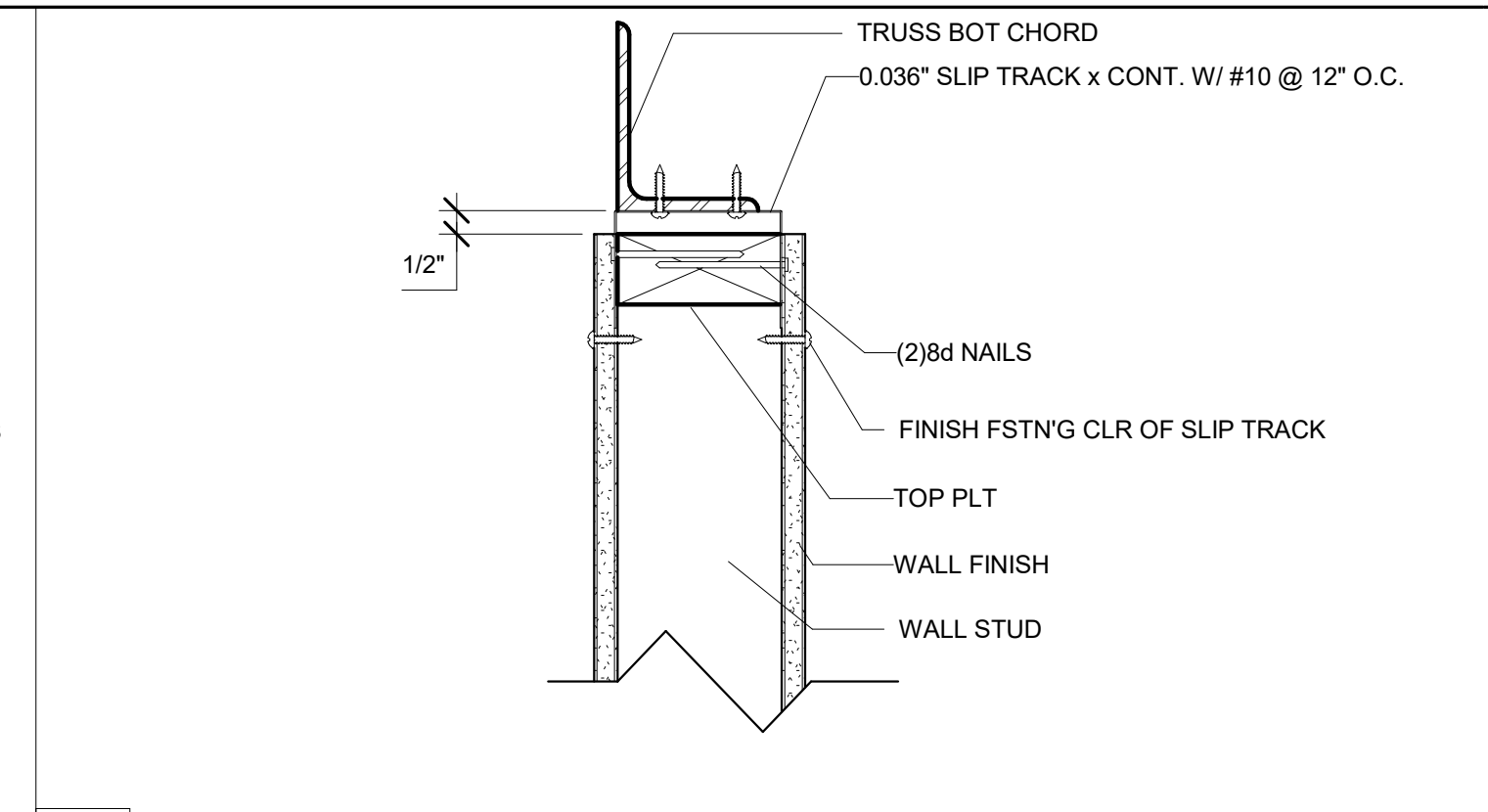
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S4.1

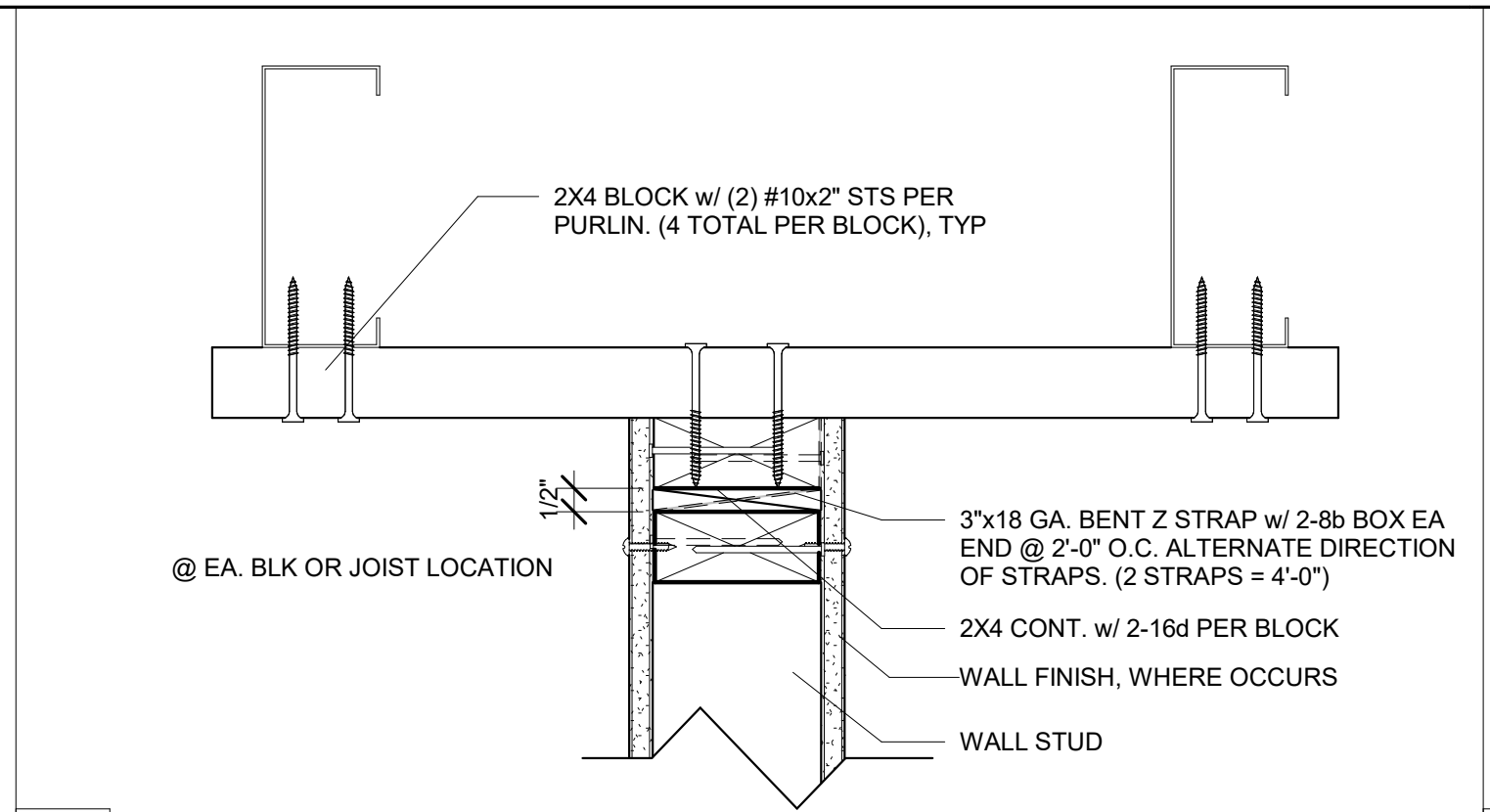
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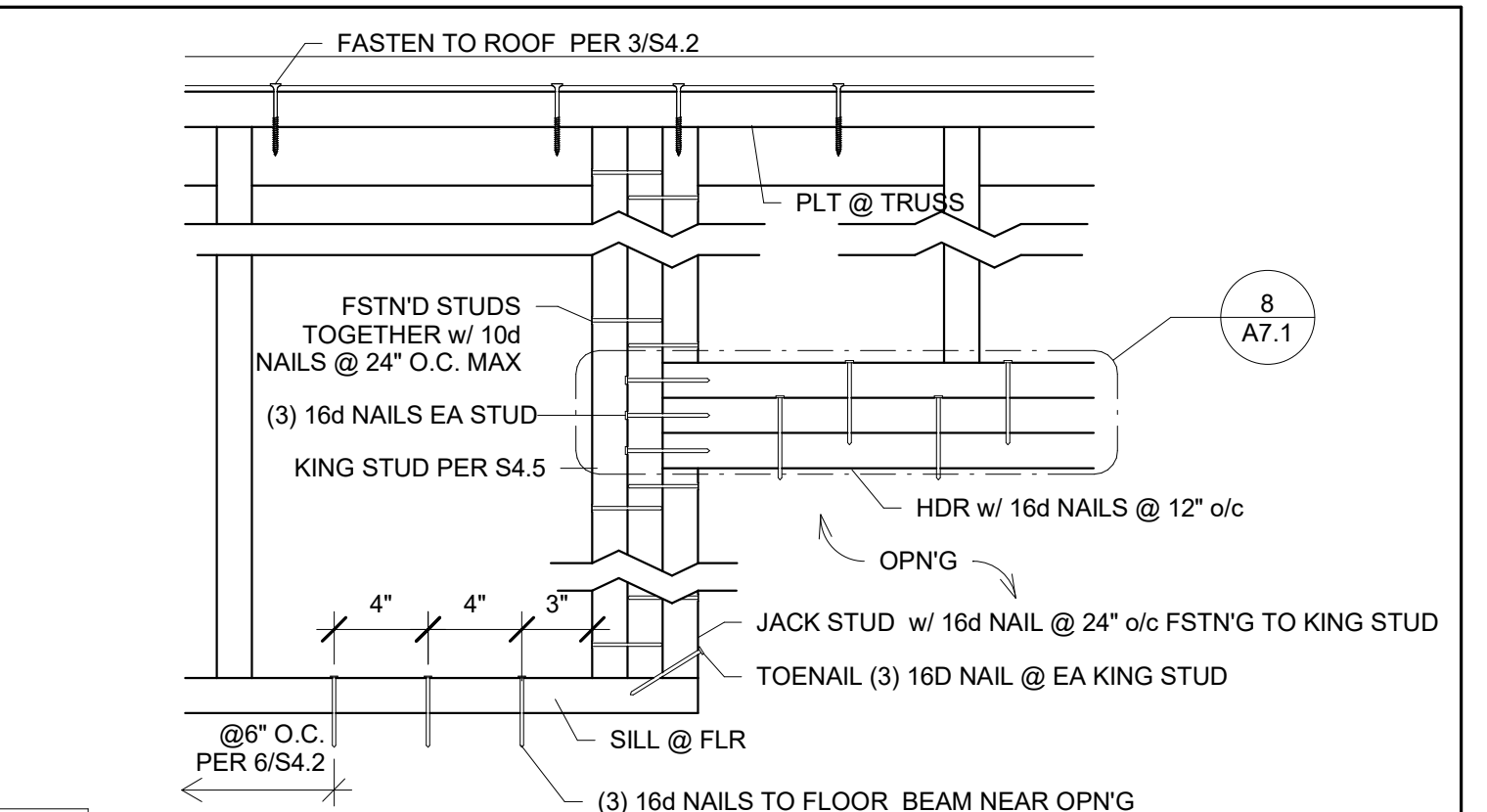
20 1 1/2" = 1'-0"
Sections - Interior Partition w/ Brace to Blk'g (WD)



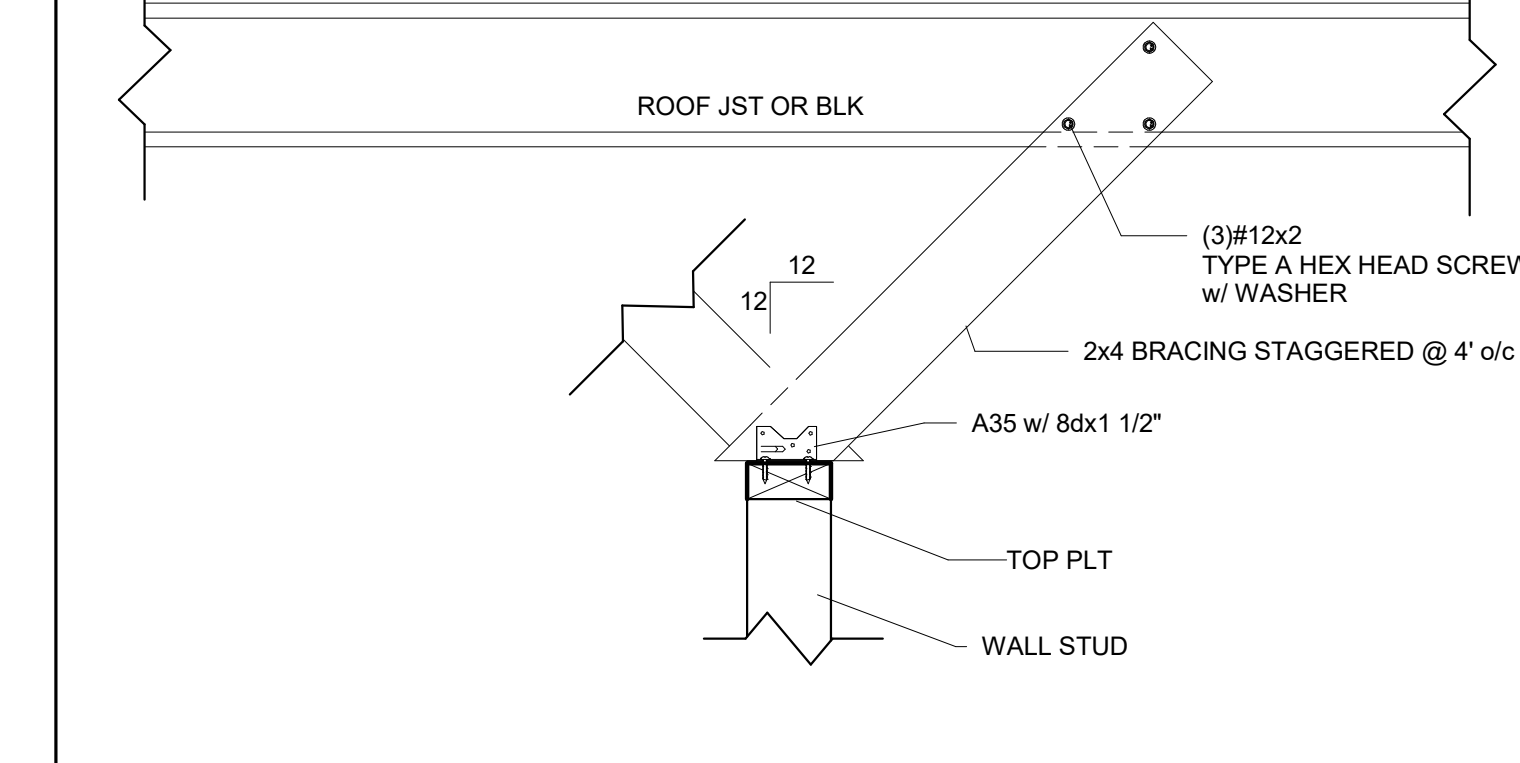
15 3" = 1'-0"
Section - Interior Wall Top Plate @ Truss (ML)



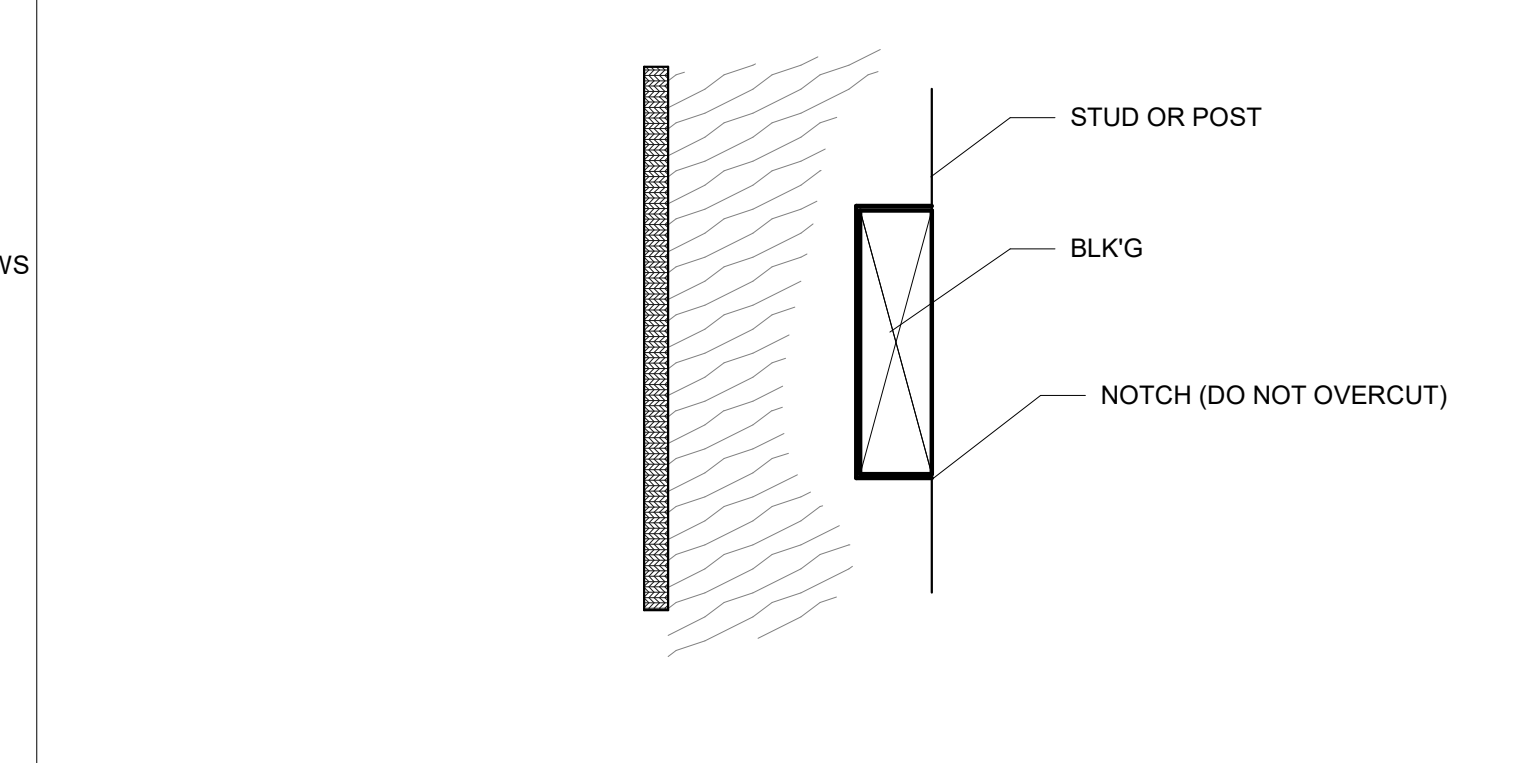
10 3" = 1'-0"
Sections - Interior Partition @ Blk'g (WD)



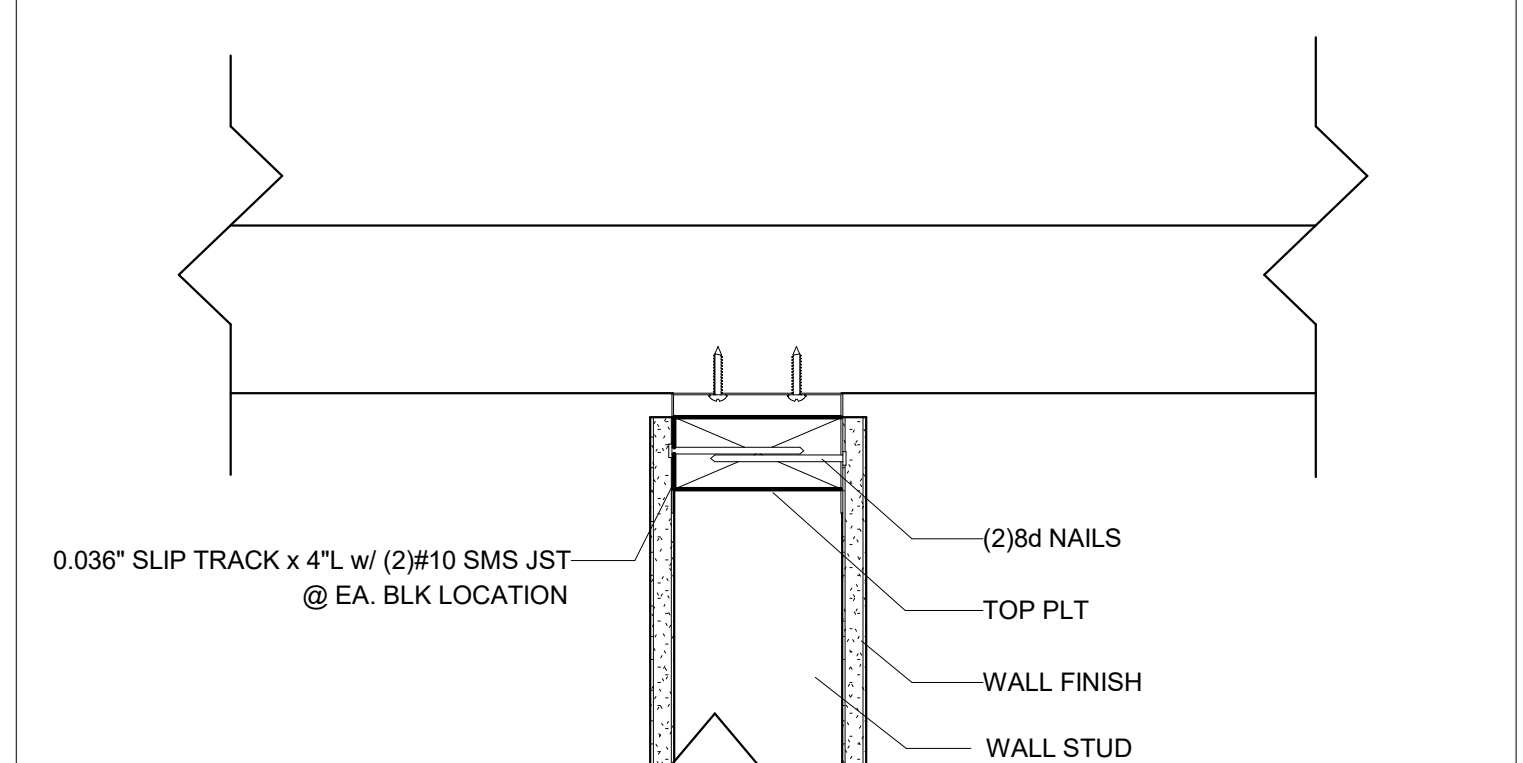
5 1 1/2" = 1'-0"
Elevation - Window/Door Hdr and Sill



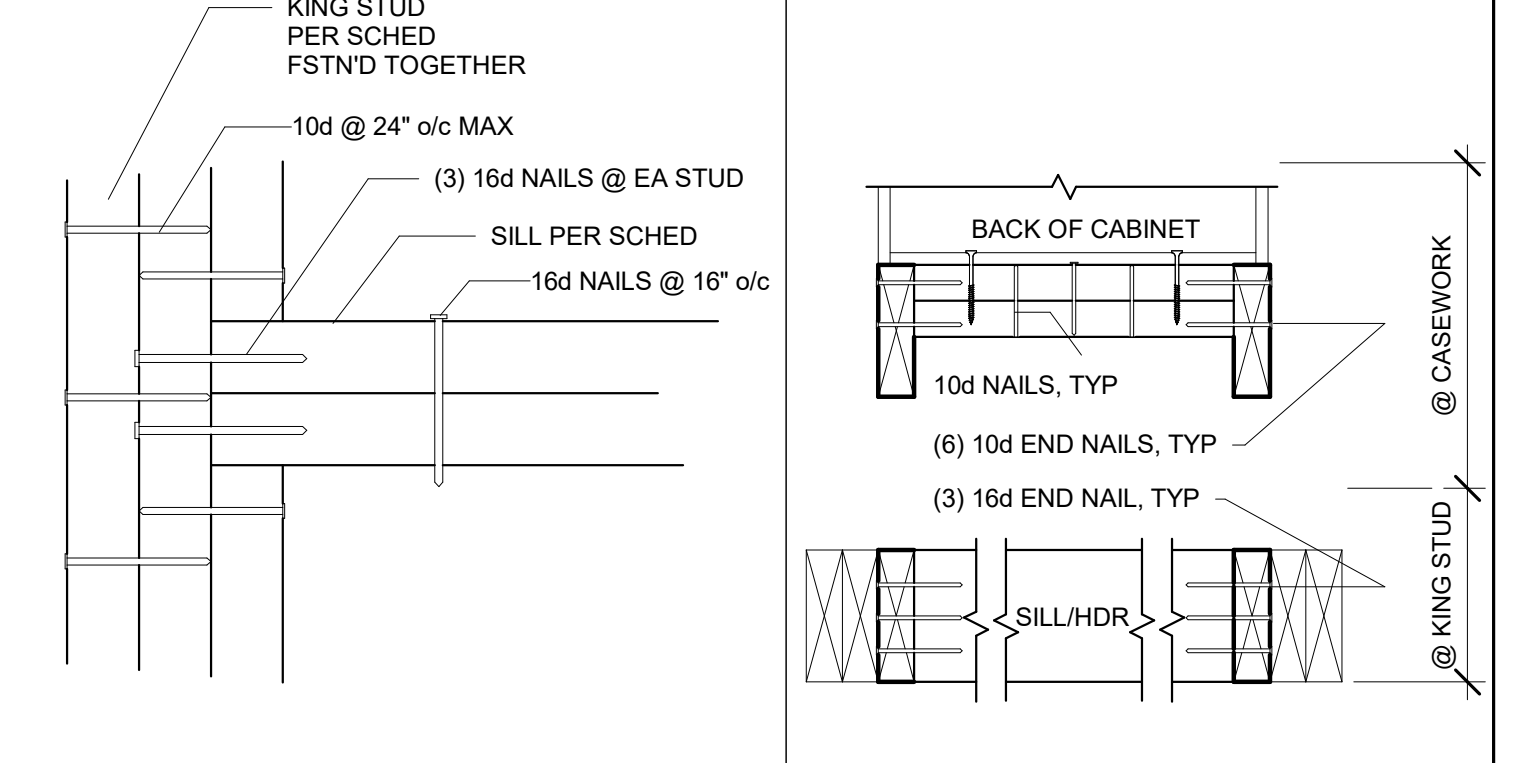
19 1 1/2" = 1'-0"
Sections - Interior Partition w/ Brace (WD)



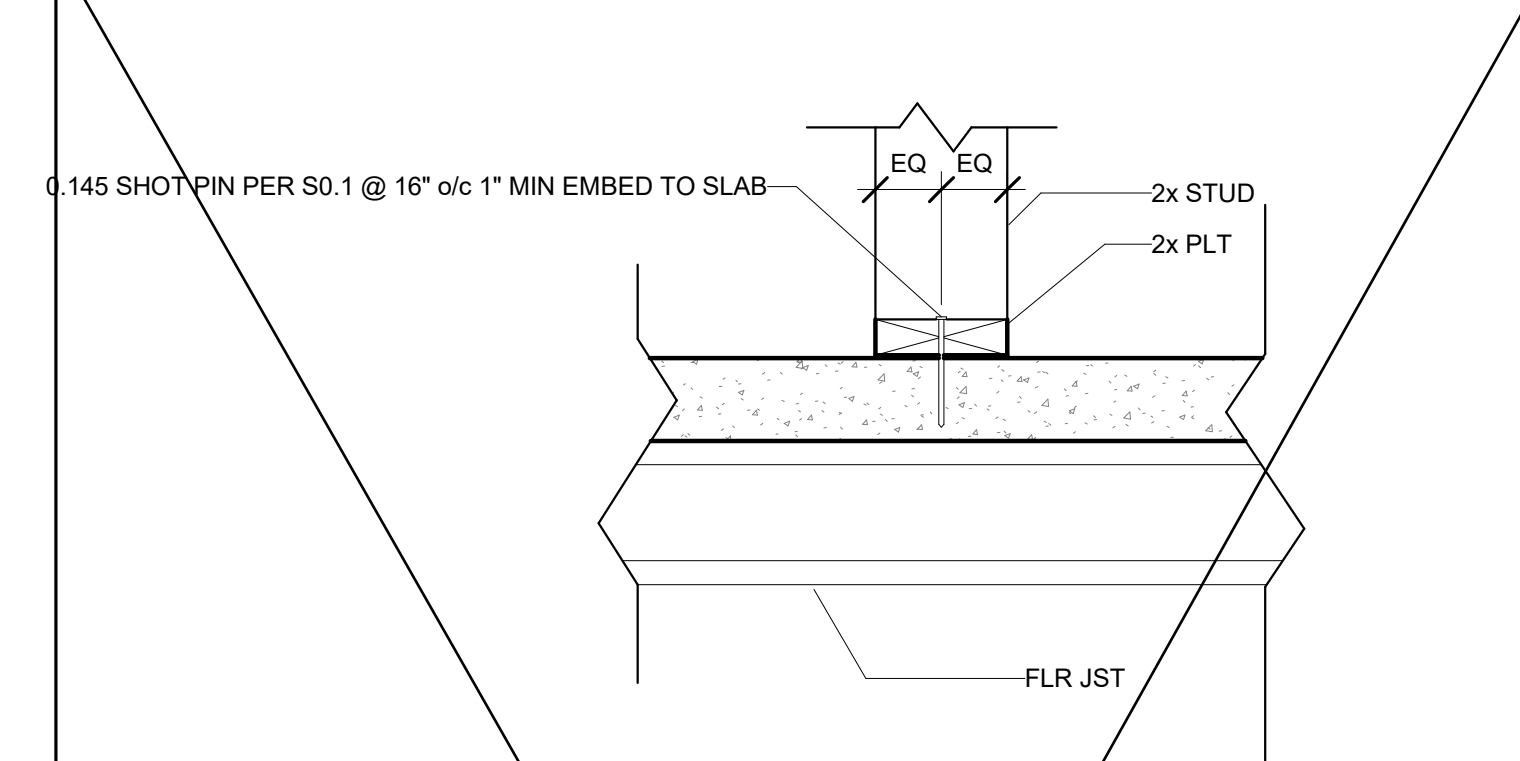
14 3" = 1'-0"
Notch Stud @ Blk'g



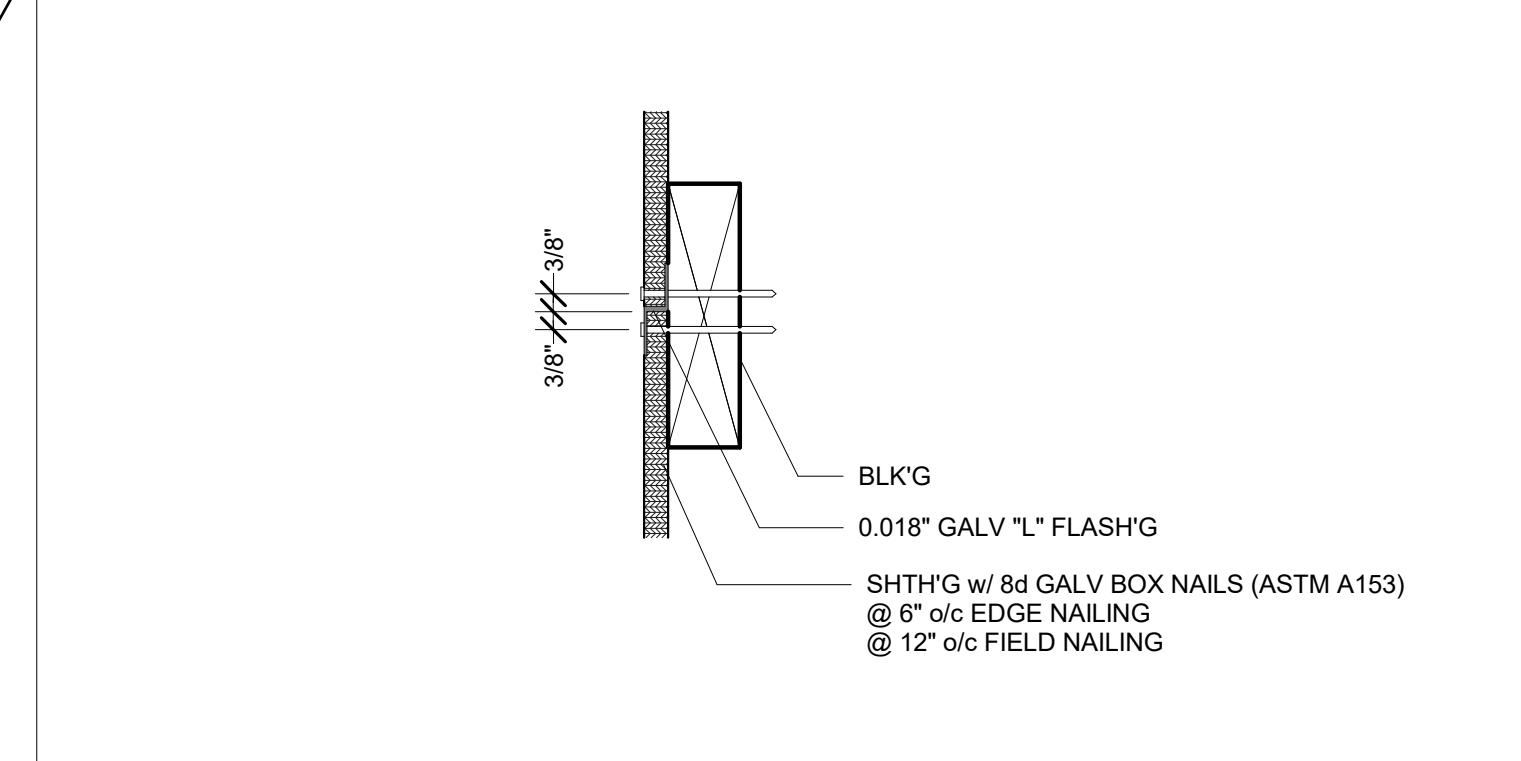
9 3" = 1'-0"
Sections - Interior Partition @ Jst (WD)



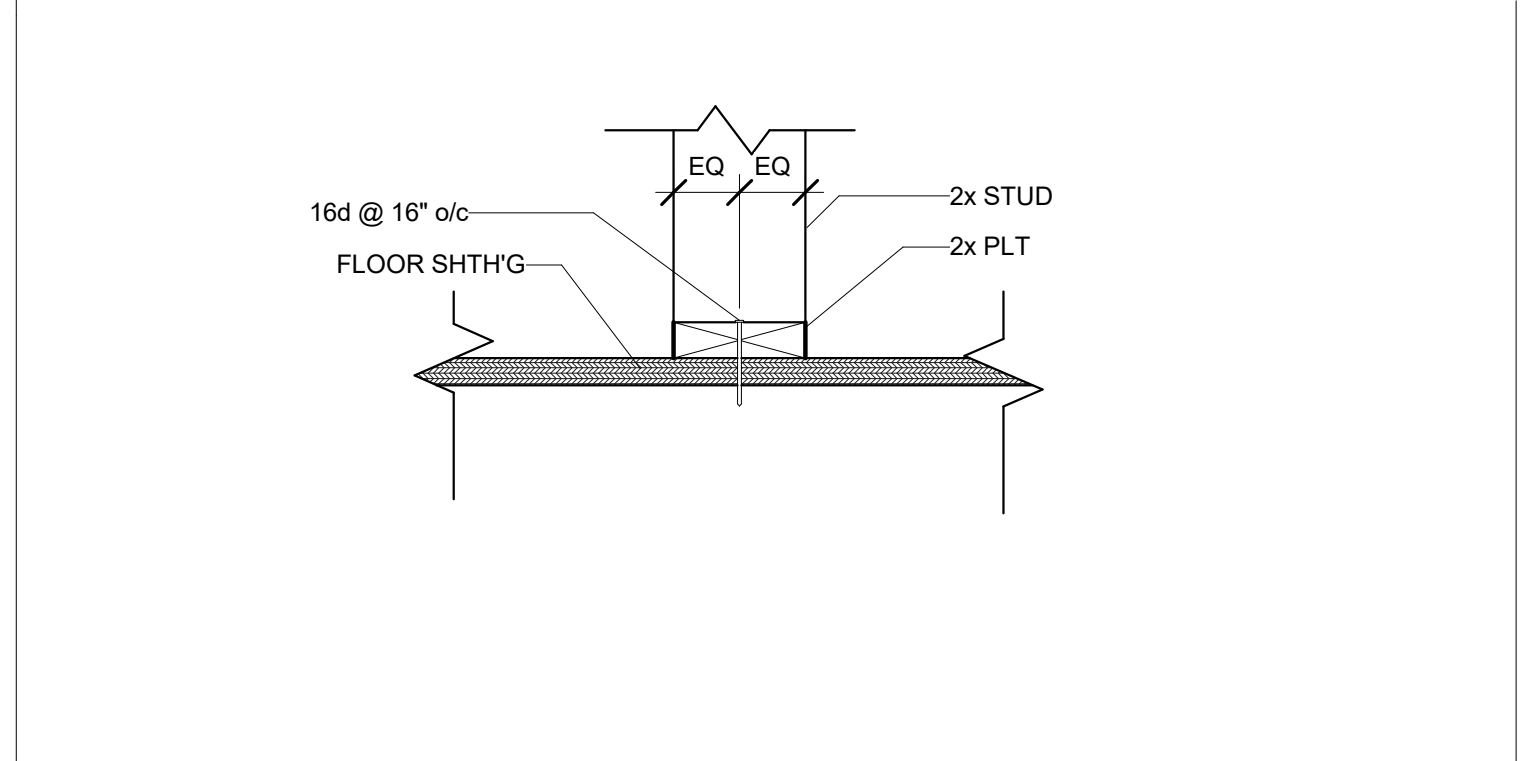
4 3" = 1'-0"
Elevation - Ext Wall Sill @ Window



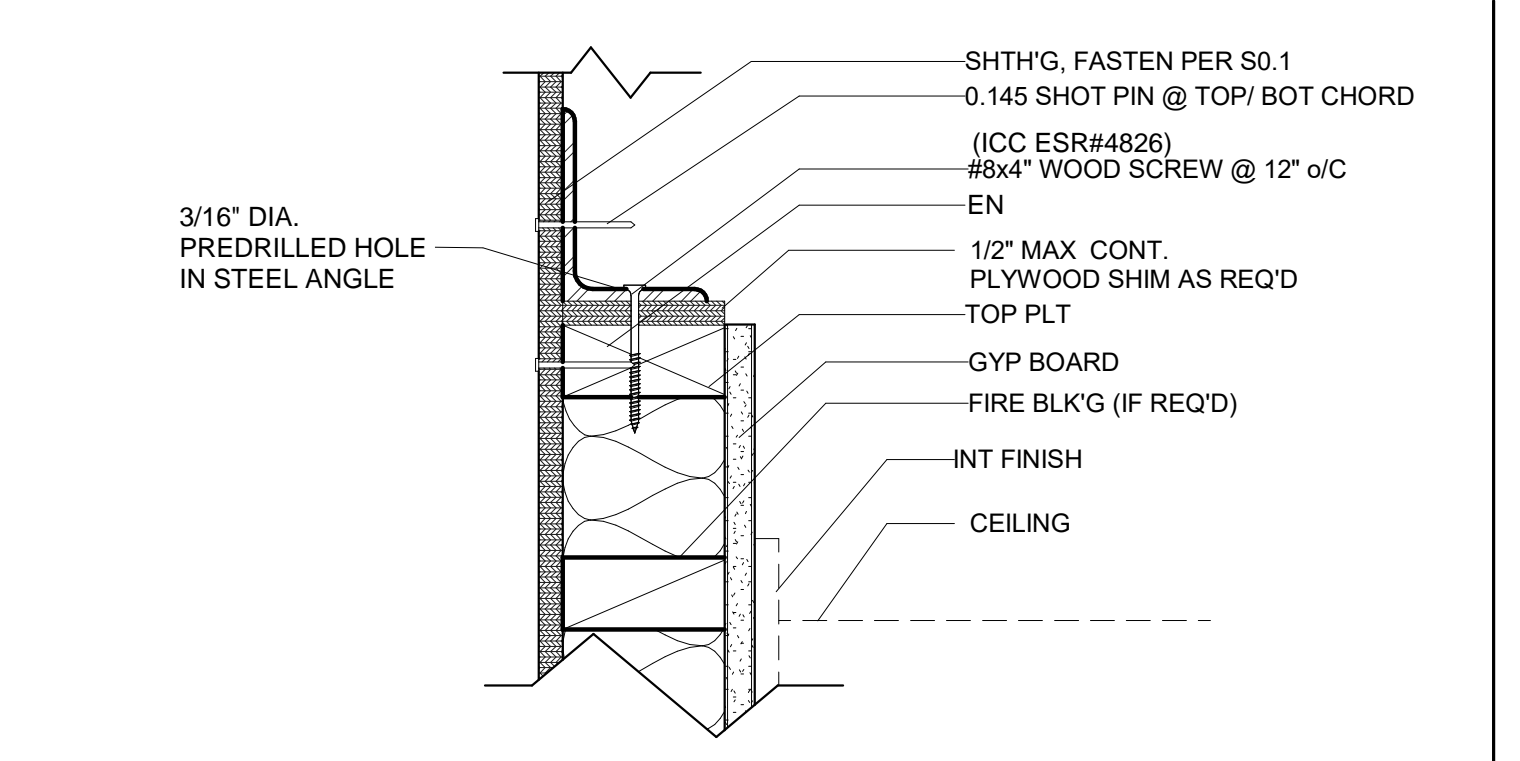
18 1 1/2" = 1'-0"
Typ Partition Sill Connection (CONC)



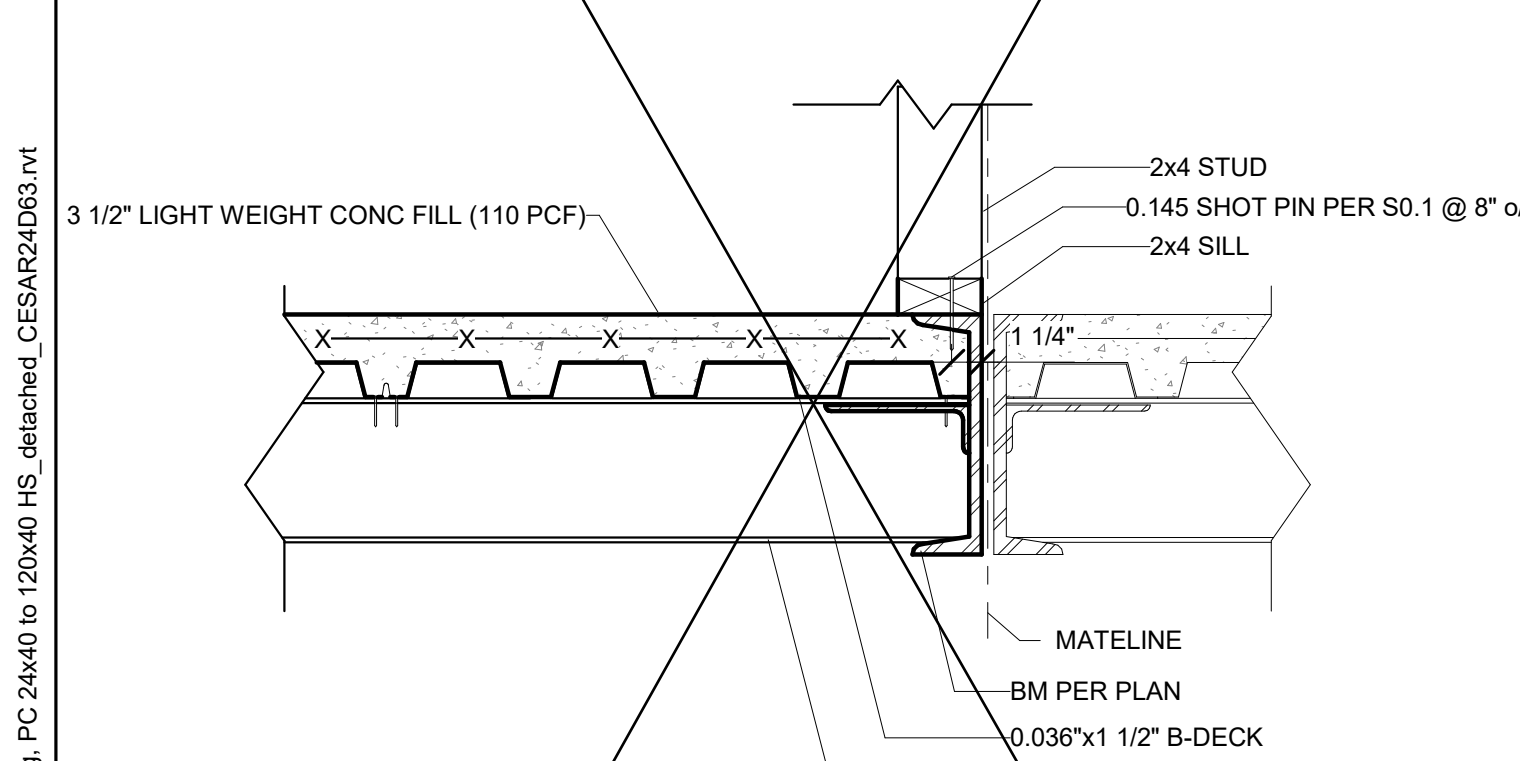
13 3" = 1'-0"
Shth'g @ Blk'g



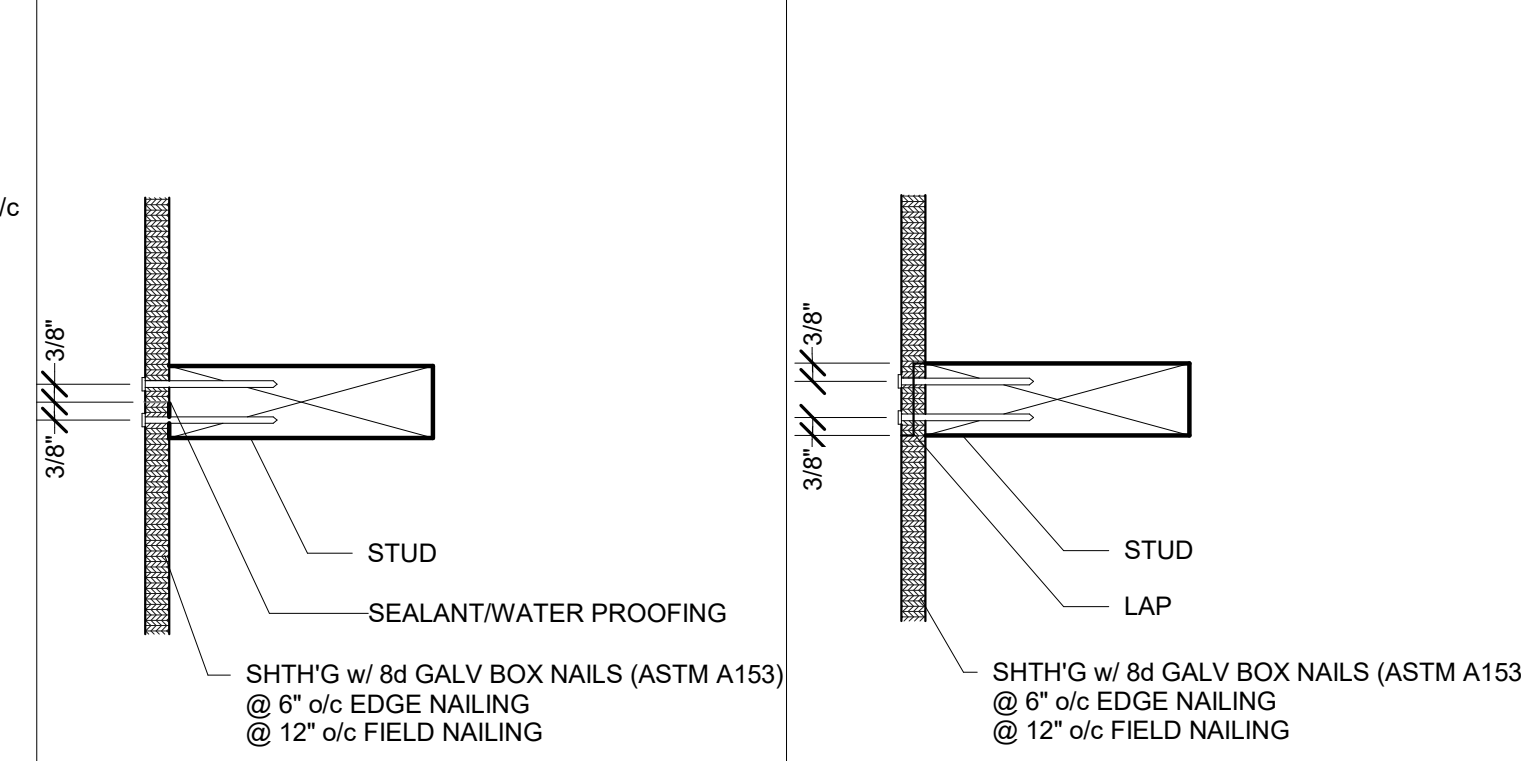
8 1 1/2" = 1'-0"
Typ Partition Sill Connection (WD)



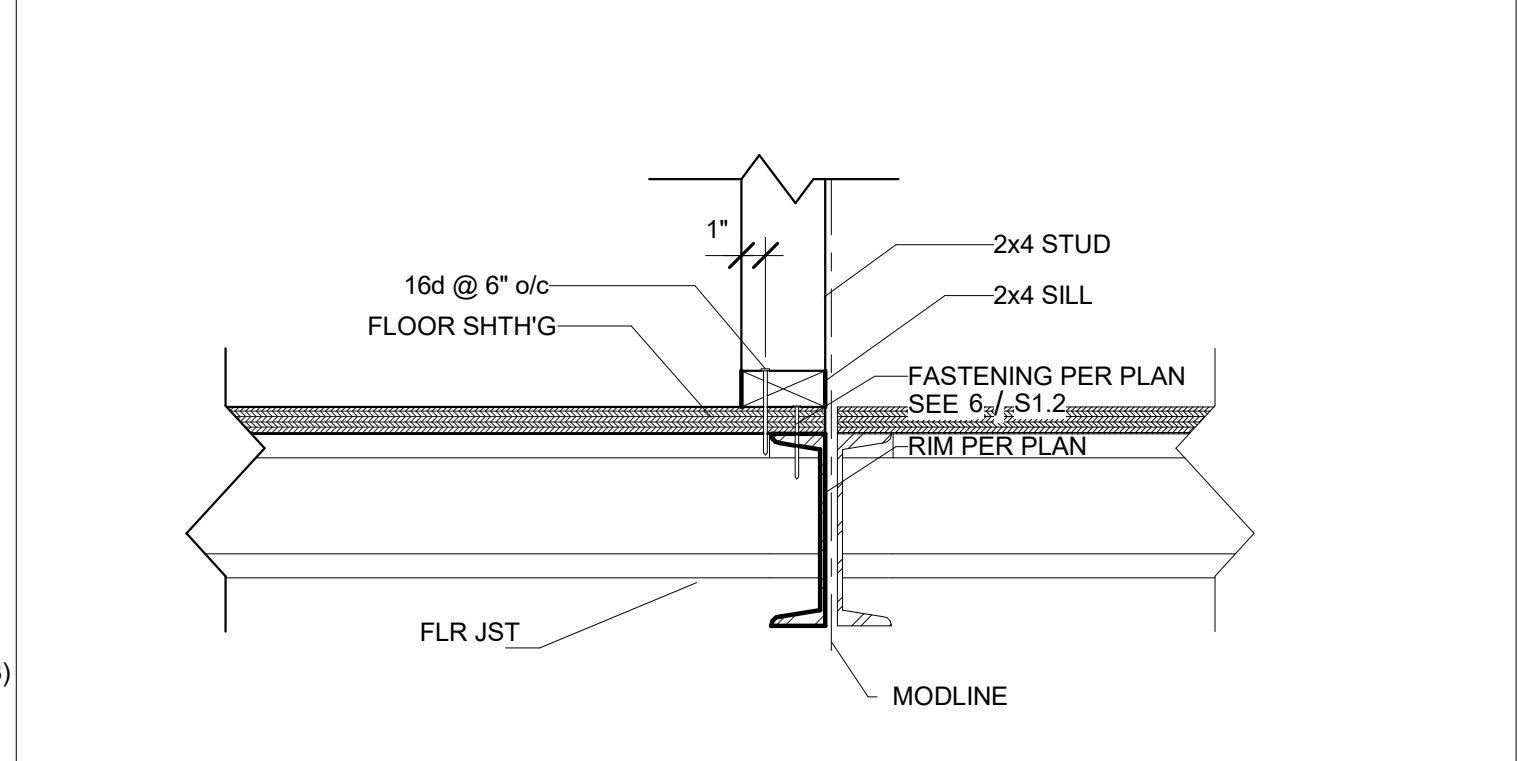
12 1 1/2" = 1'-0"
CASEWORK END NAIL PLAN



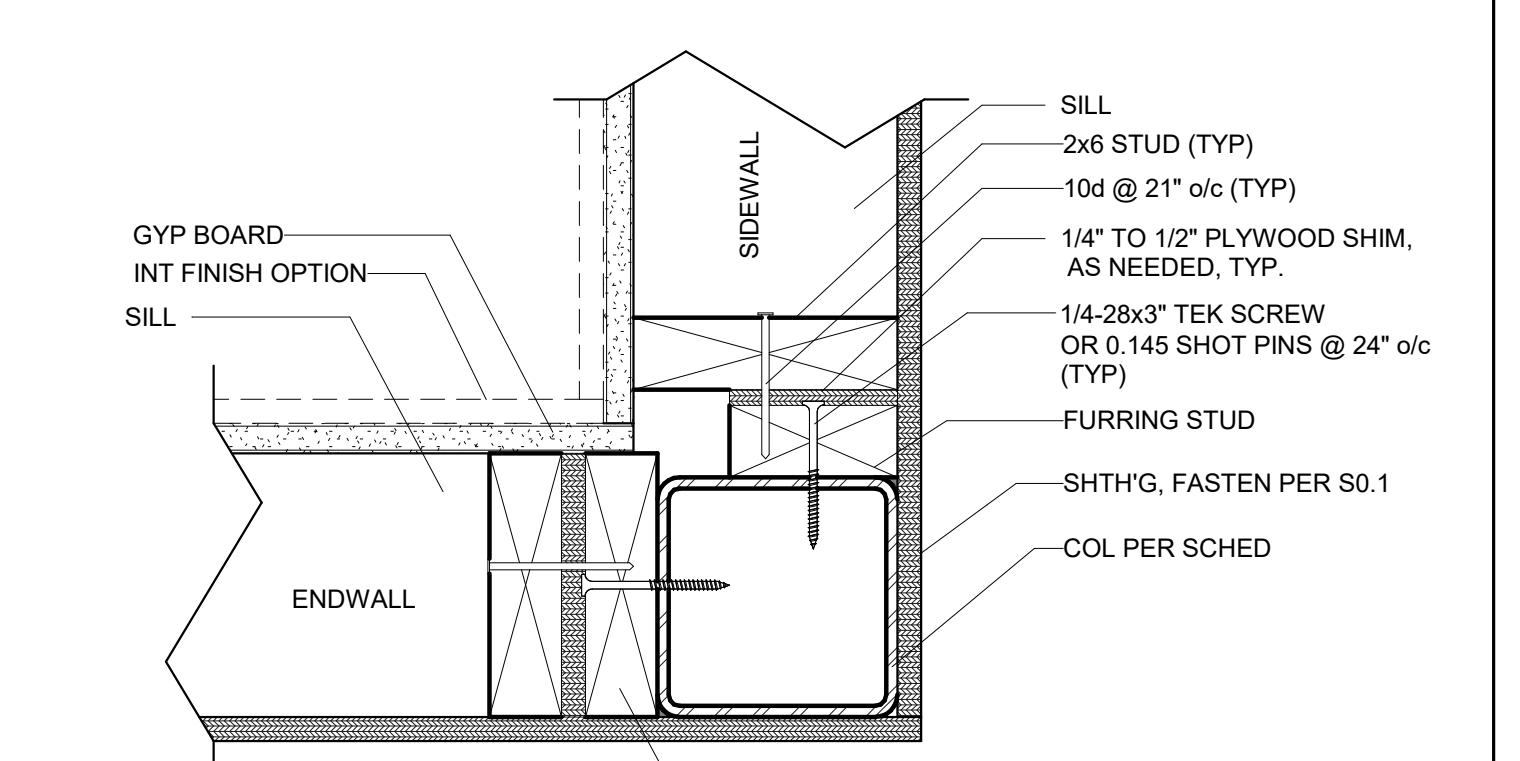
17 1 1/2" = 1'-0"
Wall Sill Plt Connection @ Interior Sidewall (CONC)



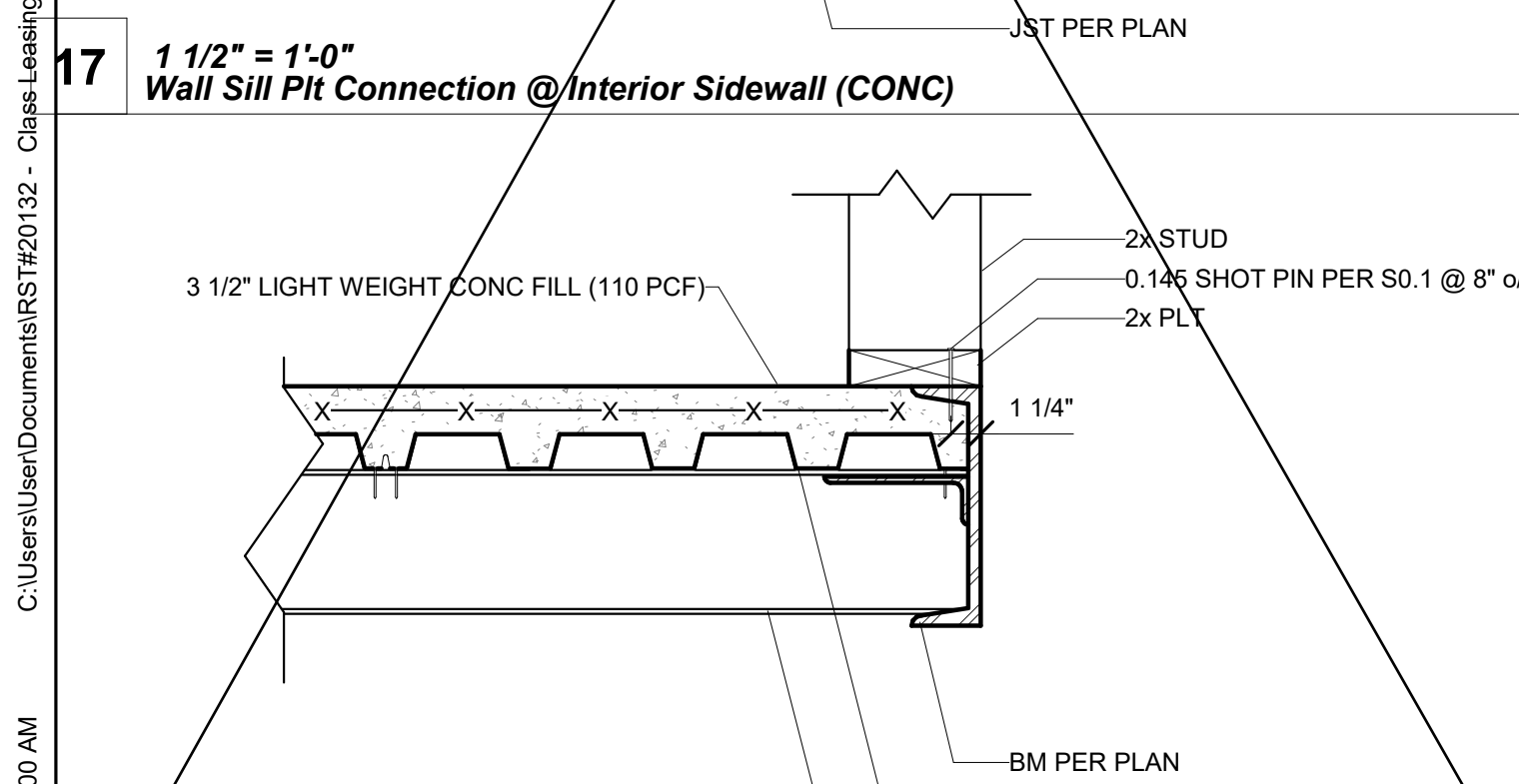
12A 3" = 1'-0"
Shth'g @ Butt Jnt



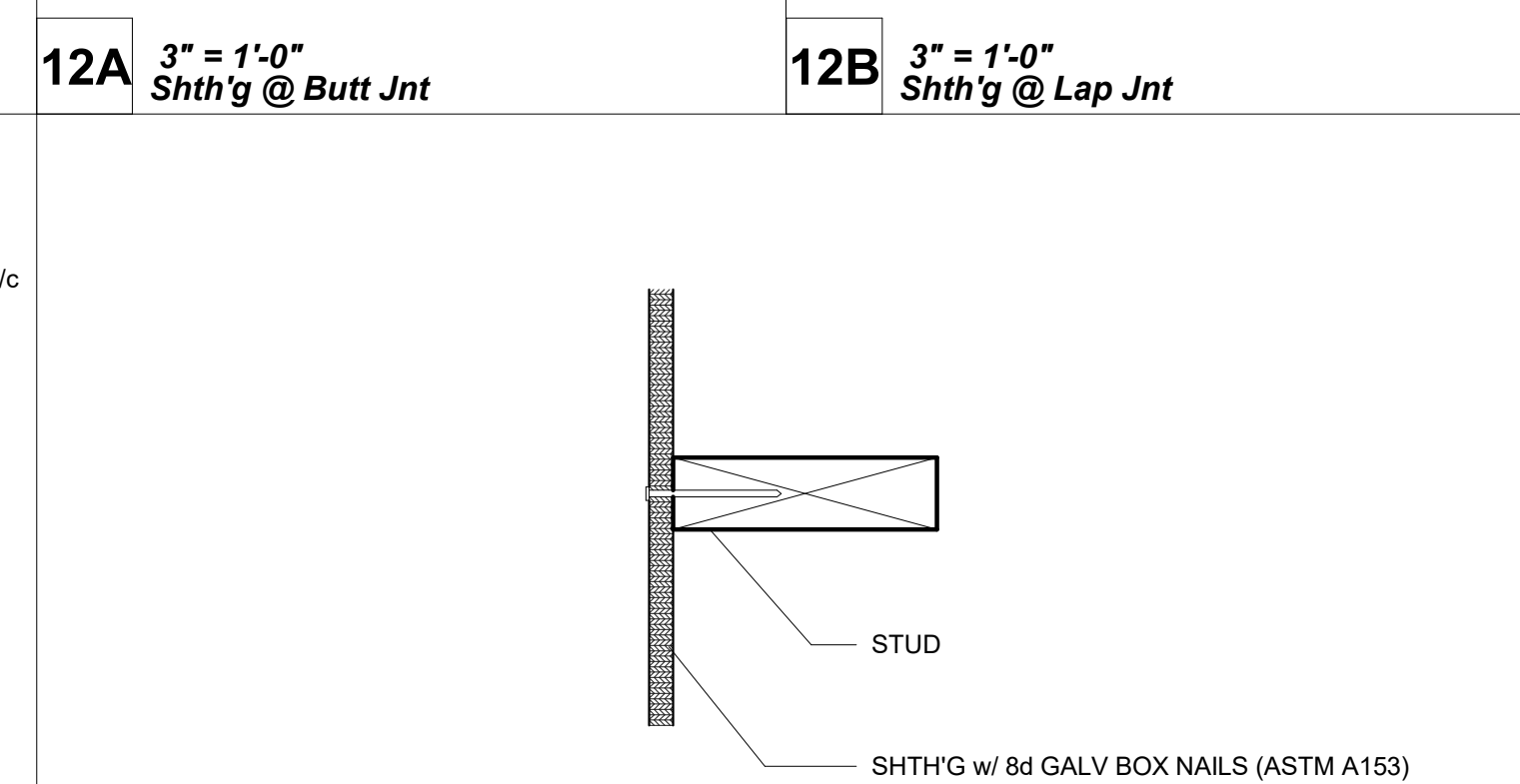
7 1 1/2" = 1'-0"
2x4 Wall Sill Connection @ Interior Sidewalls (WD)



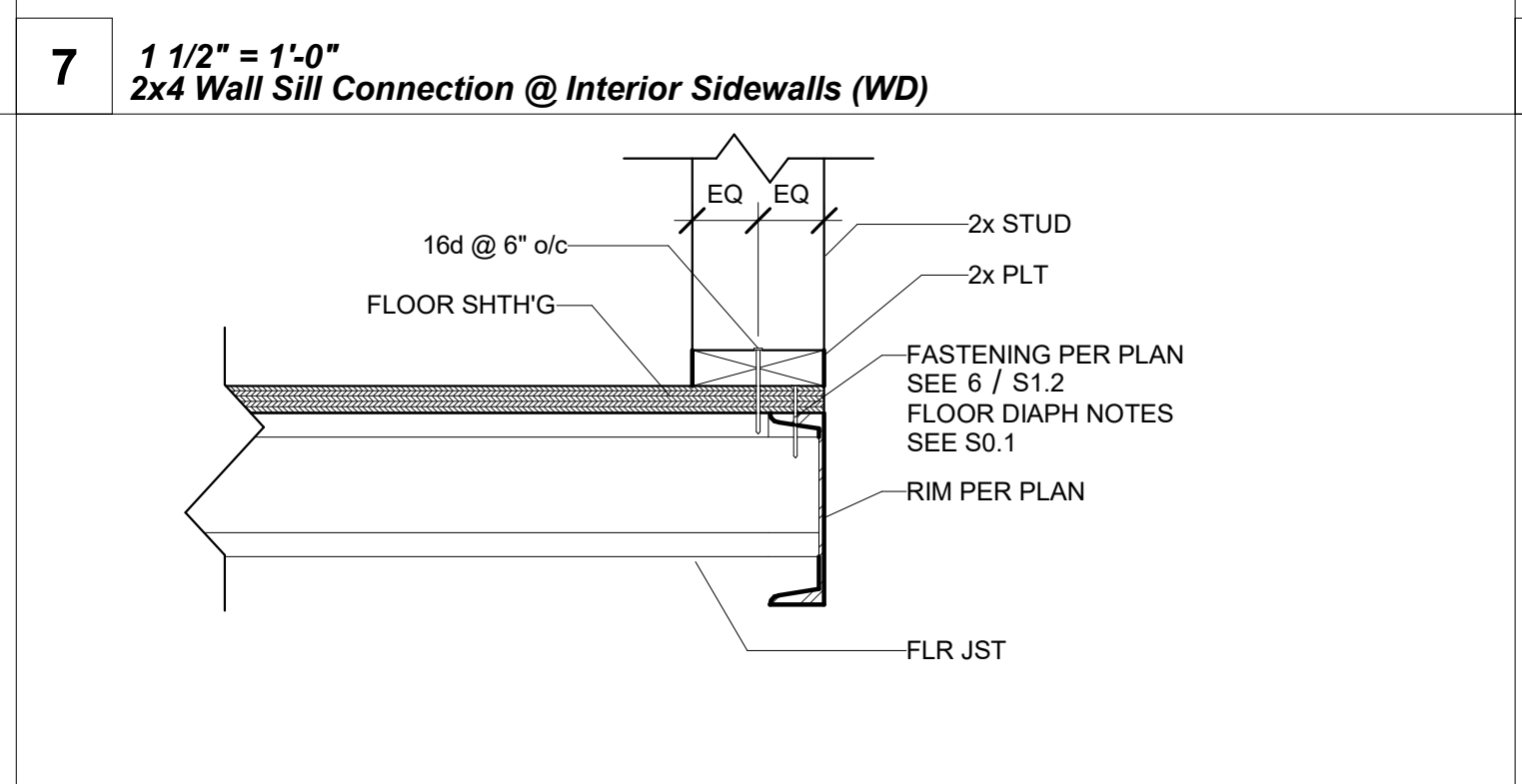
3 3" = 1'-0"
Section - Exterior Wall Top Plate @ Truss (WD)



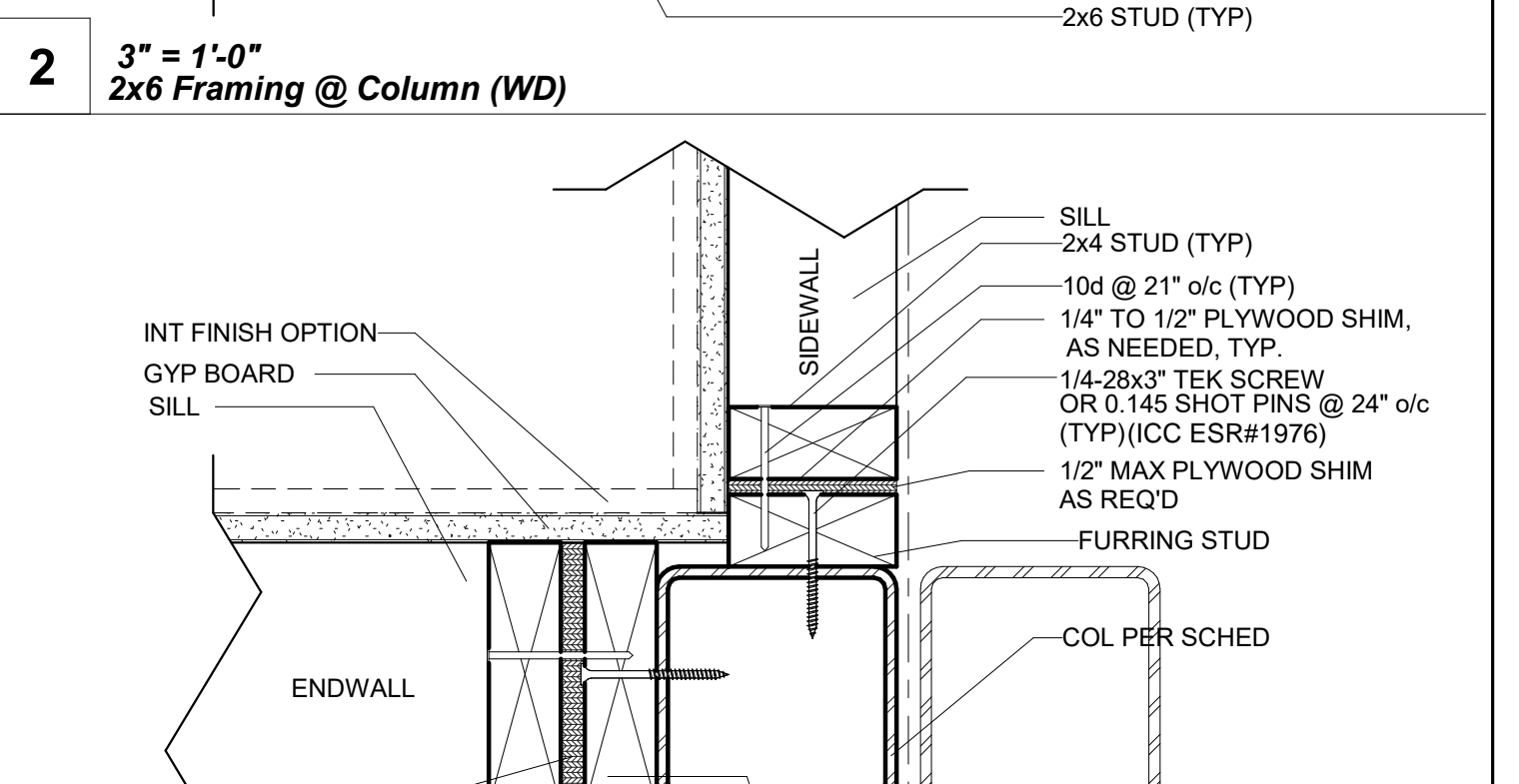
16 1 1/2" = 1'-0"
Wall Sill Plt Connection @ Exterior Rim (CONC)



12B 3" = 1'-0"
Shth'g @ Lap Jnt



6 1 1/2" = 1'-0"
Wall Sill Connection @ Exterior Rim (WD)



2 3" = 1'-0"
2x6 Framing @ Column (WD)



11 3" = 1'-0"
Shth'g @ Stud Conn

1 3" = 1'-0"
Interior Sidewall Framing @ Column (WD)

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122805 INC.
REVIEWED FOR
SS FLS ACS
DATE: 09/28/2023

R&S TAVARES ASSOCIATES
DESIGN & CONSULTING PROJECT MEET
11500 W BERNHARD COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ARCHITECT
MANNY D. FRIEDL
03/31/24
05/24/23
STATE OF CALIFORNIA
RST#22088

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CLIENT

Class Leasing
1320 W. Oleander Ave, Perris CA 92571-7408
VOICE (951) 943-1908 Fax (951) 943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP. 04-121368 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 09/22/2023

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
WALL DETAILS (WOOD FRAMING)

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
JA/RT

DATE

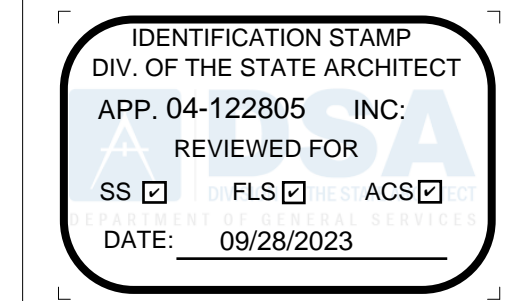
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S4.2

SHEET OF

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PROJECT SPECIFIC STATE AGENCY APPROVAL



PROFESSIONAL STAMP

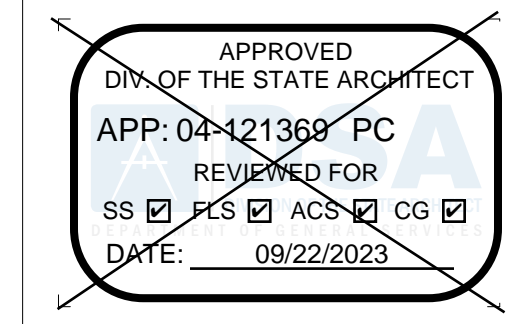


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ORIGINAL PC STATE AGENCY APPROVAL



Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
TYP FRAMING

PROJECT NUMBER
22088

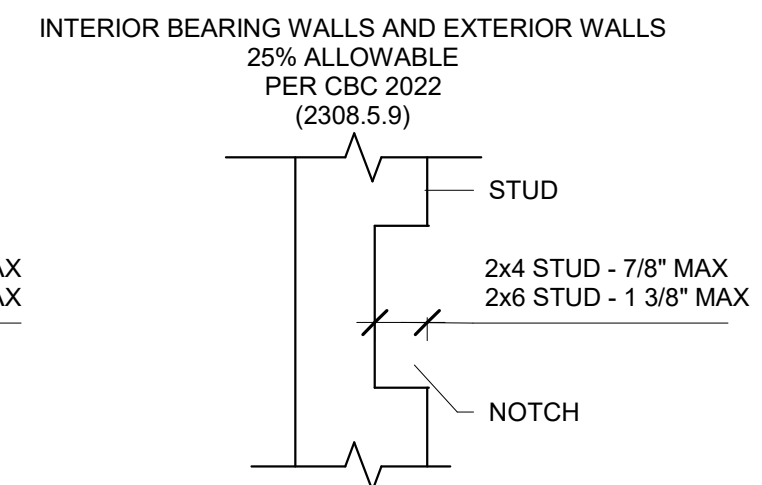
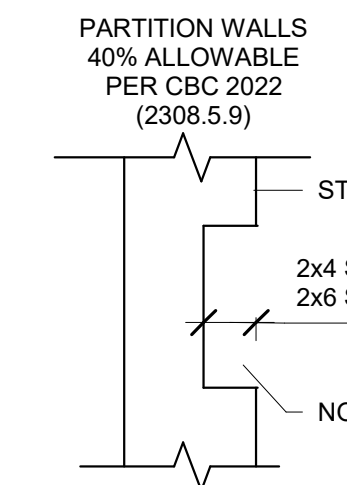
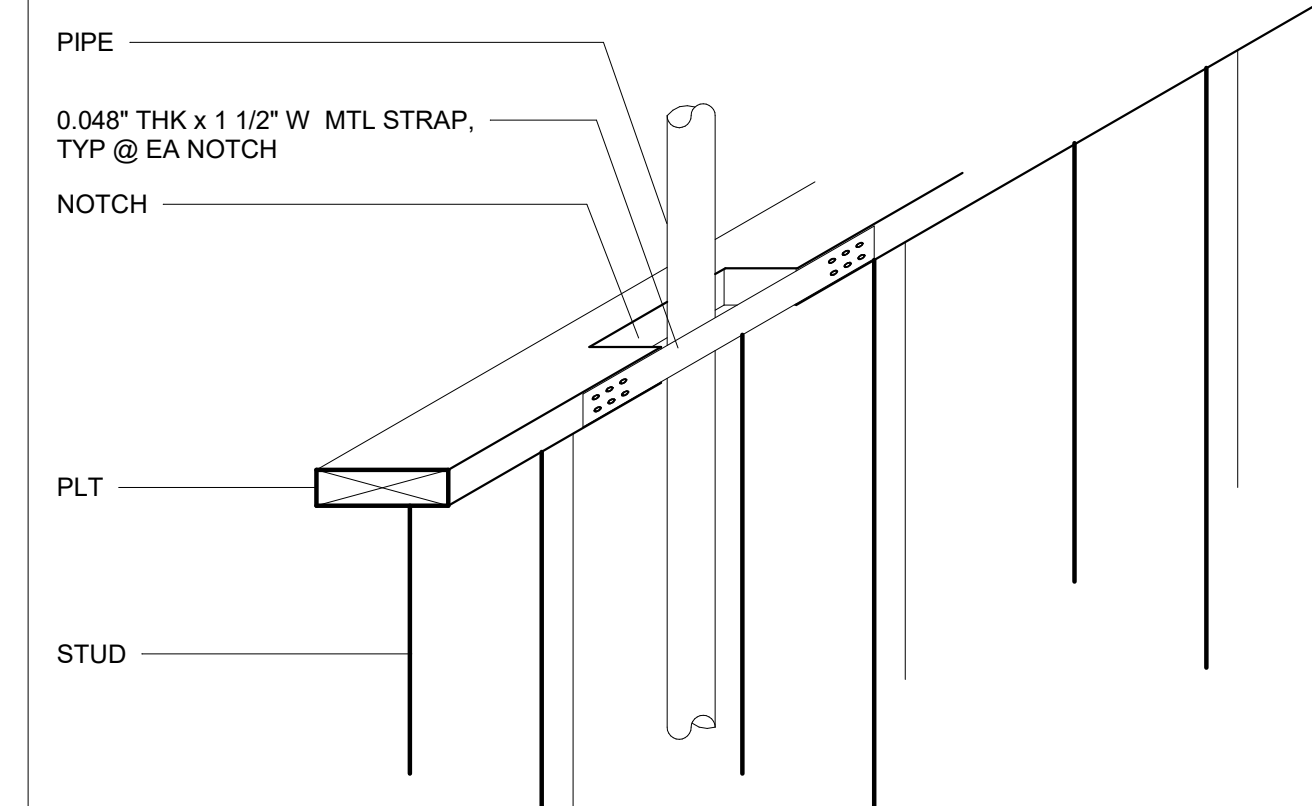
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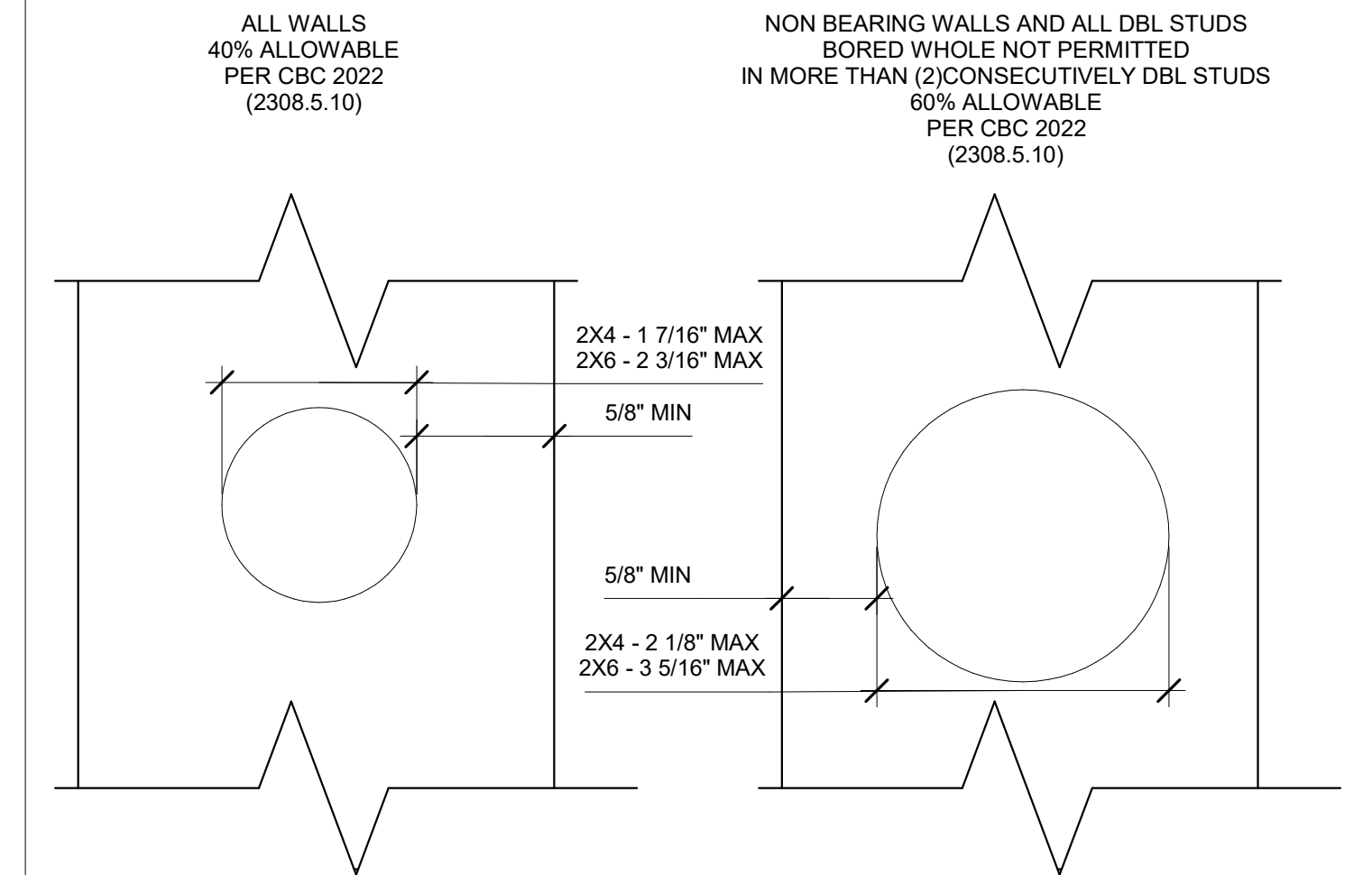
DATE

SHEET NO.
S4.4

SHEET OF



2 1 1/2" = 1'-0"
Pit Notch



1 6" = 1'-0"
Stud Penetration

2x4 Interior Wall Opening Schedule										
COL HEIGHT	OPN'G SIZE	HDR			SILL			FULL HEIGHT KING STUD		
		Lumber	Number	Type	Lumber	Number	Type	Lumber	Number	Type
9FT	3070	HF / SYP	1	#2	-	-	-	HF	2	#2
		DF / SYP	1	#2	-	-	-	DF	2	#2
	4070	HF / SYP	1	#2	-	-	-	HF	2	#2
		DF / SYP	1	#2	-	-	-	DF	2	#2
	6040	HF / SYP	2	#2	DF	2	#2	HF	2	#2
		DF / SYP	2	#2	DF	2	#2	DF	2	#2
8040	HF / SYP	3	#2	HF	3	#2	HF	2	#2	
	DF / SYP	3	#2	DF	3	#2	DF	2	#2	
10FT	3070	HF / SYP	1	#2	-	-	-	HF	2	#2
		DF / SYP	1	#2	-	-	-	DF	2	#2
	4070	HF / SYP	1	#2	-	-	-	HF	2	#2
		DF / SYP	1	#2	-	-	-	DF	2	#2
	6040	HF / SYP	2	#2	HF	2	#2	HF	2	#2
		DF / SYP	2	#2	DF	2	#2	DF	2	#2
	8040	HF / SYP	3	#2	HF	3	#2	HF	2	#2
		DF / SYP	3	#2	DF	3	#2	DF	2	#2

2x4 Interior Wall Framing Schedule									
COL HEIGHT	Typical Location				4ft From Building Corner				
	Lumber	Number	Type	Spacing	Lumber	Number	Type	Spacing	Spacing
9	HF	1	#2	16" O.C.	-	-	-	-	-
	DF	1	#2	16" O.C.	-	-	-	-	-
10	HF	1	#2	16" O.C.	-	-	-	-	-
	DF	1	#2	16" O.C.	-	-	-	-	-

2x6 Exterior Wall Opening Schedule (SHTH'G FINISH)										
COL HEIGHT	OPN'G SIZE	HDR			SILL			FULL HEIGHT KING STUD		
		Lumber	Number	Type	Lumber	Number	Type	Lumber	Number	Type
9FT	3070	HF / SYP	1	#2	HF	1	#2	HF	1	#2
		DF / SYP	1	#2	DF	1	#2	DF	1	#2
	4070	HF / SYP	1	#2	HF	1	#2	HF	1	#2
		DF / SYP	1	#2	DF	1	#2	DF	1	#2
	6040	HF / SYP	1	#2	HF	1	#2	HF	1	#2
		DF / SYP	1	#2	DF	1	#2	DF	1	#2
8040	HF / SYP	1	#2	HF	1	#2	HF	2	#2	
	DF / SYP	1	#2	DF	1	#2	DF	2	#2	
10FT	3070	HF / SYP	1	#2	HF	1	#2	HF	1	#2
		DF / SYP	1	#2	DF	1	#2	DF	1	#2
	4070	HF / SYP	1	#2	HF	1	#2	HF	1	#2
		DF / SYP	1	#2	DF	1	#2	DF	1	#2
	6040	HF / SYP	1	#2	HF	1	#2	HF	2	#2
		DF / SYP	1	#2	DF	1	#2	DF	2	#2
	8040	HF / SYP	1	#2	HF	1	#2	HF	2	#2
		DF / SYP	1	#2	DF	1	#2	DF	2	#2

2x6 Exterior Wall Framing Schedule (SHTH'G FINISH)									
COL HEIGHT	Typical Location				4ft From Building Corner				
	Lumber	Number	Type	Spacing	Lumber	Number	Type	Spacing	Spacing
9	HF	1	#2	16" O.C.	HF	1	#2	16" O.C.	
	DF	1	#2	16" O.C.	DF	1	#2	16" O.C.	
10	HF	1	#2	16" O.C.	HF	1	#2	16" O.C.	
	DF	1	#2	16" O.C.	DF	1	#2	16" O.C.	

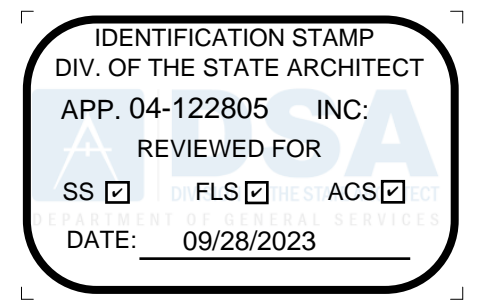
2x6 Exterior Wall Opening Schedule (PLASTER FINISH)										
COL HEIGHT	OPN'G SIZE	HDR			SILL			FULL HEIGHT KING STUD		
		Lumber	Number	Type	Lumber	Number	Type	Lumber	Number	Type
9FT	3070	HF	1	#2	HF	1	#2	HF	1	#2
		DF	1	#2	DF	1	#2	DF	1	#2
	4070	HF	1	#2	HF	1	#2	HF	1	#2
		DF	1	#2	DF	1	#2	DF	1	#2
	6040	HF	1	#2	HF	1	#2	HF	2	#2
		DF	1	#2	DF	1	#2	DF	2	#2
10FT	3070	HF	1	#2	HF	1	#2	HF	2	#2
		DF	1	#2	DF	1	#2	DF	1	#2
	4070	HF	1	#2	HF	1	#2	HF	2	#2
		DF	1	#2	DF	1	#2	DF	1	#2
	6040	HF	1	#2	HF	1	#2	HF	2	#2
		DF	1	#2	DF	1	#2	DF	2	#2
8040	HF	2	#2	HF	1	#2	HF	3	#2	
	DF	1	#2	DF	1	#2	DF	2	#2	

2x6 Exterior Wall Framing Schedule (PLASTER FINISH)									
COL HEIGHT	Typical Location				4ft From Building Corner				
	Lumber	Number	Type	Spacing	Lumber	Number	Type	Spacing	Spacing
9	HF	1	#2	16" O.C.	HF	1	#2	16" O.C.	
	DF	1	#2	16" O.C.	DF	1	#2	16" O.C.	
10	HF	1	#2	16" O.C.	HF	1	#2	16" O.C.	
	DF	1	#2	16" O.C.	DF	1	#2	16" O.C.	

NOTE: SEE DETAIL 1 ON SHEETS A2.1 - A2.6

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PROJECT SPECIFIC STATE AGENCY APPROVAL



PROFESSIONAL STAMP



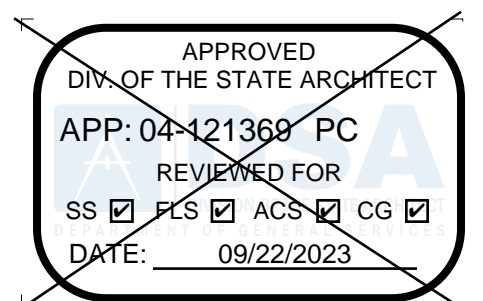
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CLIENT



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VOICE (951) 943-1908 Fax (951) 943-5768

ORIGINAL PC STATE AGENCY APPROVAL



Revision Schedule		
#	Description	Date

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40'
EXPANDABLE TO
120' x 40'

SHEET TITLE
FRAMING
SCHEDULES

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

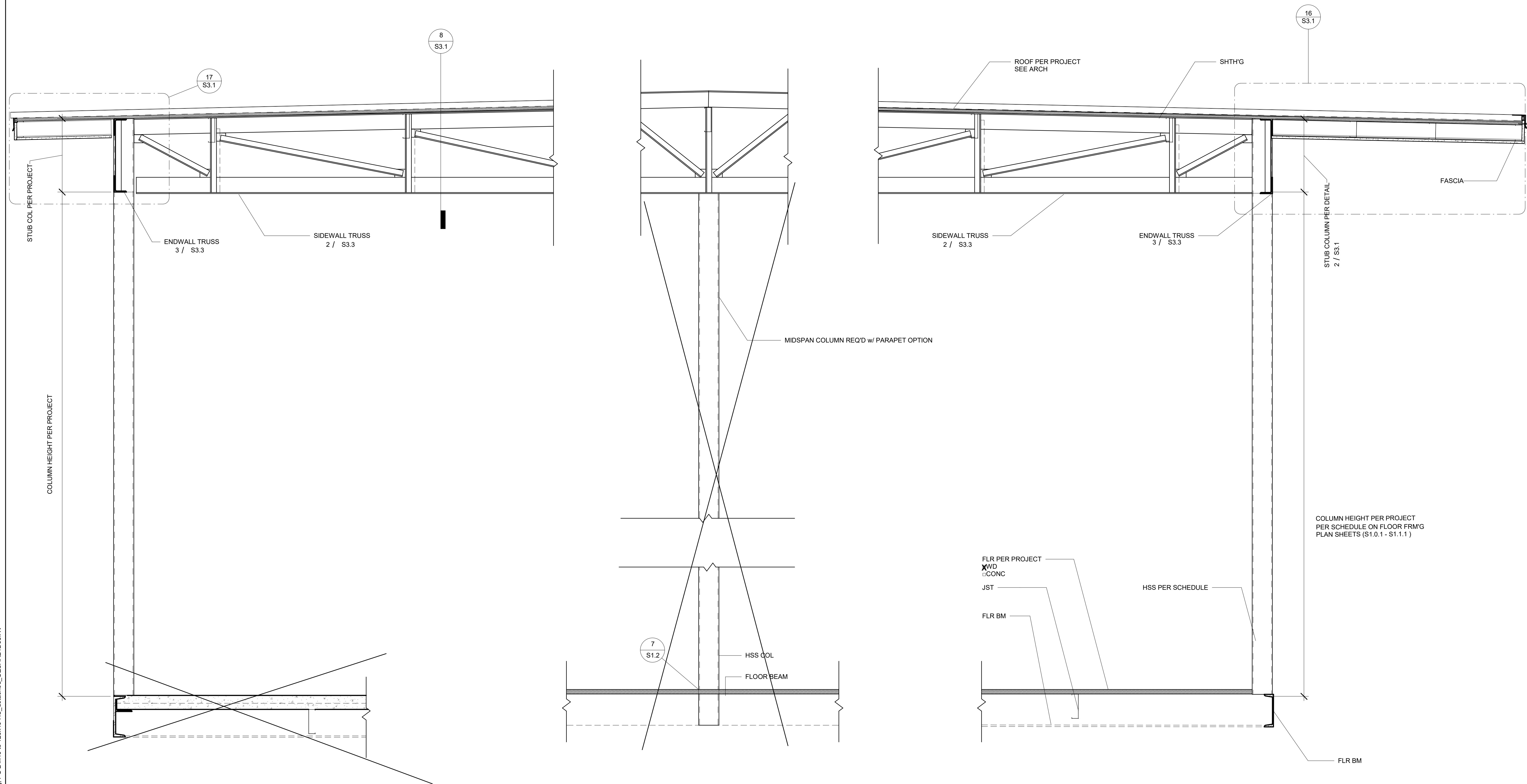
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JA/RT

DATE

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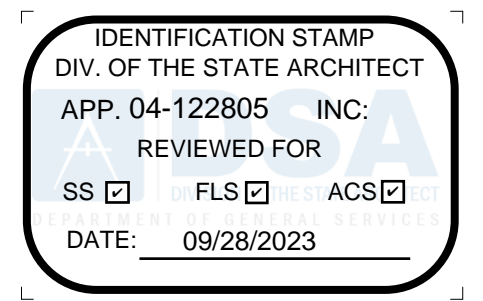
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1 1" = 1'-0" Structural Section (DUAL)

PROJECT SPECIFIC STATE AGENCY APPROVAL



PROFESSIONAL STAMP

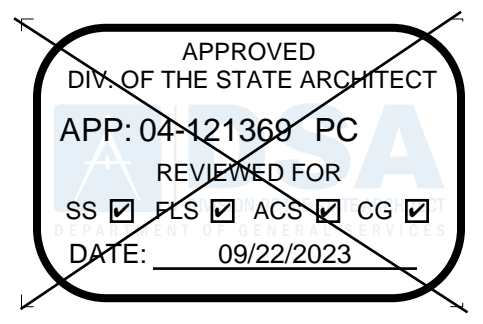


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ORIGINAL PC STATE AGENCY APPROVAL



Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40'
EXPANDABLE TO
120' x 40'

SHEET TITLE
LONG SECTION -
(DUAL)

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
JA/RT

DATE

SHEET NO.
S5.1

SHEET OF

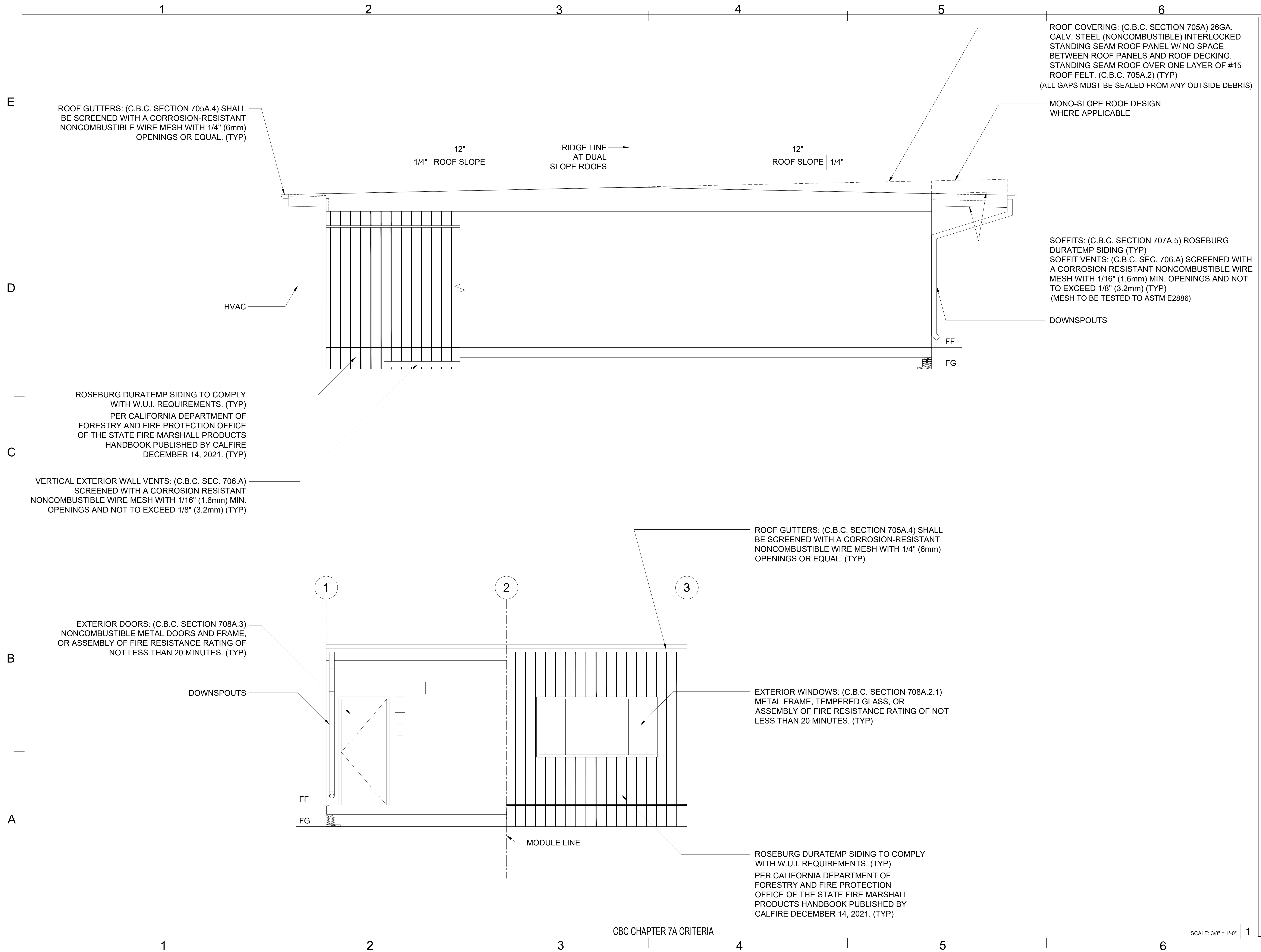
Sheet Number	Sheet Name
00	COVER SHEET
A0.0	PROJECT OPTIONS SCHEDULE
A0.1	TYPICAL KEY PLAN AND SCHEDULES, GEN NOTES,
A0.2	SIGNAGE AND SYMBOLS
A0.3	DSA-103 T&I CONCRETE FLOORS
A0.4	DSA-103 T&I PLYWOOD FLOORS
A0.5	CAL GREEN SPEC'S
A0.6	CAL GREEN CHECKLIST
A0.7	CAL GREEN CHECKLIST
A0.8	CAL GREEN CHECKLIST
Architectural	
A1.0	24x40 FLOOR PLAN
A1.1	36x40 FLOOR PLAN
A1.2	48x40 thru 120x40 FLOOR PLAN
A2.1(A)	ARCHITECTURAL DETAILS (WOOD FRAMING SHTG FINISH)
A2.1(B)	ARCHITECTURAL WUI DETAILS (WOOD FRAMING SHTG FINISH)
A2.2	ARCHITECTURAL DETAILS (WOOD FRAMING PLASTER FINISH)
A2.2(A)	ARCHITECTURAL DETAILS (1 HR WOOD FRAMING SHTG FINISH)
A2.2(B)	ARCHITECTURAL WUI DETAILS (1 HR WOOD FRAMING SHTG FINISH)
A2.3	ARCHITECTURAL DETAILS (1 HR WOOD FRAMING PLASTER FINISH)
A2.9	ARCHITECTURAL DETAILS (FLOOR)
A2.9.1	DETERIORATION PRO-NON WOOD FINISH-SHTG CONC FLOOR-WD STUDS
A2.9.2	DETERIORATION PRO-STUCCO EXTERIOR RIMSH CONC FLOOR-WD STUDS
A2.9.3	DETERIORATION PRO-NON WOOD FINISH-SHTG WOOD FLOOR-WD STUDS
A2.9.4	DETERIORATION PRO-STUCCO EXTERIOR FINISH WOOD FLR-WD STUDS
A2.9.5	DETERIORATION T-111 EXTERIOR FINISH WOOD FLR-WD STUDS
A2.9.6	DETERIORATION T-111 EXTERIOR FINISH WOOD FLR-WD STUDS
A3.0	ADDITIONAL FIRE RATING DETAILS AND NOTES
A3.0.1	FIRE SEPARATION & PENETRATION DETAILS
A3.1	SINGLE OCC. BATHROOM
A3.1.1	SINGLE OCC. BATHROOM AGE GROUP
A3.1.2	SINGLE OCC. BATHROOM COMBINED AGE GROUP
A3.2	RCP
A3.2.1	CEILING NOTES
A3.3	CEILING DETAILS (T-GRID)
A3.4	CEILING DETAILS (GYR BOARD)
A4.0.1	ROOF PLAN MONO SLOPE (STANDING SEAM)
A4.0.2	ROOF PLAN DUAL SLOPE (STANDING SEAM)
A4.1	ROOF DETAILS (STANDING SEAM)
A4.2.1	ROOF PLAN MONO SLOPE (EPDM)
A4.2.2	ROOF PLAN DUAL SLOPE (EPDM)
A4.3	ROOF DETAILS (EPDM)
A4.4.1	ROOF PLAN W/ PARAPET MONO SLOPE (EPDM)
A4.4.6	ARCHITECTURAL DETAILS (PARAPET)
A5.0	SIDEWALL ELEVATION
A5.1	ENDWALL ELEVATIONS
A5.2	INTERIOR ELEVATIONS
A6.0	SECTION - STANDING SEAM (MONO)
A6.0.1	SECTION - STANDING SEAM (DUAL)
A6.1	SECTION - EPDM (DUAL)
A6.2	SECTION
A6.3	SECTION - EPDM (MONO)
A7.0	ADDITIONAL OPTION DETAILS
A7.1	ADDITIONAL OPTION DETAILS
A7.2	ADDITIONAL OPTION DETAILS
MEP	
E0.1	ELECTRICAL GENERAL NOTES
E1.0	ELECTRICAL PLAN 24x40
E1.1	ELECTRICAL SCHEDULES 24x40
E1.2	ELECTRICAL PLAN 36x40
E1.3	ELECTRICAL SCHEDULE 36x40
E1.4	ELECTRICAL PLAN 48x40 thru 120x40
E1.6	ELECTRICAL SCHEDULE 48x40
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M0.2	MISCELLANEOUS NOTES & DETAILS
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M2.10	24'x40' T24 C2 15 (WALL AC)
M2.11	24'x40' T24 C2 16 (ROOF AG)
M2.12	24'x40' T24 C2 15 (ROOF AC)
M2.13	24'x40' T24 C2 16 (WALL AC)
M2.14	24'x40' T24 C2 16 (WALL AC)
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M5.1	MECHANICAL CEILING PLAN 24x40
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M6.1	MECHANICAL CEILING PLAN 36x40
M6.2	MECHANICAL ROOF MOUNT 36x40
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F1.11	WOOD FOUNDATION PLAN 24x40 BLDG W/ 50+15
F1.12	WOOD FOUNDATION 36x40 BLDG W/ 50+15
F1.13	WOOD FOUNDATION PLAN 48x40 BLDG W/ 50+15
F1.14	WOOD FOUNDATION PLAN 48x40 BLDG W/ 50+15
F1.14	MODLINE "B" W/ EXTERIOR WALLS BACK-TO-BACK 20+15 PSF
F1.20	WOOD FOUNDATION NOTES SCHED FOR BLDG W/ 100PSF
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F1.22	WOOD FOUNDATION PLAN 36x40 BLDG W/ 100 PSF
F1.23	WOOD FOUNDATION PLAN 48x40 BLDG W/ 100 PSF
F1.24	MODLINE "B" W/ EXTERIOR WALLS BACK-TO-BACK 150 PSF
F1.30	WOOD FOUNDATION NOTES SCHED FOR BLDG W/ 150 PSF
F1.31	WOOD FOUNDATION PLAN 24x40 BLDG W/ 150 PSF
F1.32	WOOD FOUNDATION PLAN 36x40 BLDG W/ 150 PSF
F1.33	WOOD FOUNDATION PLAN 48x40 BLDG W/ 150 PSF
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F2.40	CONCRETE FOUNDATION PLAN
F2.20	CONCRETE FOUNDATION DETAILS
F2.30	CONCRETE FOUNDATION DETAILS
F2.23	CONCRETE FOUNDATION DETAILS
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S1.0.4	WD SHTG FLR FRMG PLAN CROSS-STRAP OPT.
S1.1.1	CONC FLR FRMG PLAN (60+15 PSF)
S1.2	STRUCTURAL DETAILS (FLOOR)
S3.0.1	MONO SLOPE ROOF FRMG PLAN
S3.0.2	DUAL SLOPE ROOF FRMG PLAN
S3.0.3	MONO SLOPE ROOF FRMG PLAN CROSS-STRAP OPT.
S3.0.4	DUAL SLOPE ROOF FRMG PLAN CROSS-STRAP OPT.
S3.1	STRUCTURAL DETAILS (ROOF)
S3.2	ROOF DETAILS (SOFFIT/PARAPET)
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S4.2	WD WALL DETAILS (WOOD FRAMING)
S4.4	TYP FRAMING
S4.5	FRAMING SCHEDULES
S4.6	LONG SECTION (MONO)
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Grand total: 145	

INDEX	WUI COVER SHEET	WUI COMPLIANT NOTES
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C-23-2682 A/B	C-23-2719 A/B	
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C-23-2684 A/B	C-23-2721 A/B	
C-23-2685 A/B	C-23-2722 A/B	
C-23-2686 A/B	C-23-2723 A/B	
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C-23-2690 A/B	C-23-2727 A/B	
C-23-2691 A/B	C-23-2728 A/B	
C-23-2692 A/B	C-23-2729 A/B	
C-23-2693 A/B	C-23-2730 A/B	
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C-23-2699 A/B	C-23-2736 A/B	
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C-23-2701 A/B	C-23-2738 A/B	
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C-23-2703 A/B	C-23-2740 A/B	
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C-23-2651 A/B		
C-23-2652 A/B		
C-23-2653 A/B		
C-23-2654 A/B		
C-23-2655 A/B		
C-23-2656 A/B		
C-23-2657 A/B		
C-23-2658 A/B		
C-23-2659 A/B		
C-23-2660 A/B		
C-23-2661 A/B		
C-23-2662 A/B		
C-23-2663 A/B		
C-23-2664 A/B		
C-23-2665 A/B		
C-23-2666 A/B		
C-23-2667 A/B		
C-23-2668 A/B		
C-23-2669 A/B		
C-23-2670 A/B		
C-23-2671 A/B		
C-23-2672 A/B		
C-23-2673 A/B		
C-23-2674 A/B		
C-23-2675 A/B		
C-23-2676 A/B		
C-23-2677 A/B		
C-23-2678 A/B		
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C-23-2645 A/B		
C-23-2650 A/B		
C-23-2651 A/B		
C-23-2652 A/B		
C-23-2653 A/B		
C-23-2654 A/B		
C-23-2655 A/B		
C-23-2656 A/B		
C-23-2657 A/B		
C-23-2658 A/B		
C-23-2659 A/B		
C-23-2660 A/B		
C-23-2661 A/B		
C-23-2662 A/B		
C-23-2663 A/B		
C-23-2664 A/B		
C-23-2665 A/B		
C-23-2666 A/B		
C-23-2667 A/B		
C-23-2668 A/B		
C-23-2669 A/B		
C-23-2670 A/B		
C-23-2671 A/B		
C-23-2672 A/B		
C-23-2673 A/B		
C-23-2674 A/B		
C-23-2675 A/B		
C-23-2676 A/B		
C-23-2677 A/B		
C-23-2678 A/B		
NOTE: BUILDING IS TO BE PLACED IN A WUI SITE		
NOTE: BUILDING MATERIAL, SYSTEM ASSEMBLY AND ALL DETAILS OF CONSTRUCTION SHALL BE AS SHOWN AND SHALL BE IN ACCORDANCE WITH CBC CHAPTER 14.		
1. Roofs shall comply with the requirements of Chapter 7A and Chapter 15. Roofs shall have a loading assembly installed in accordance with the design. Hazard Severity Zones shall be Class A unless noted in accordance with ASTM E1996 or E1997.		
2. Roof gullies shall be provided with the means to prevent the accumulation of leaves and debris in the gutter.		
3. The exterior wall cladding or wall assembly shall comply with one of the following:		
4. Exterior windows and exterior glass assemblies shall comply with one of the following:		
5. Exterior doors shall comply with one of the following:		
6. The exterior surface of cladding shall be of noncombustible material.		
7. The exterior surface of cladding shall be of noncombustible material. Sillies and rails shall not be less than 1/8 inch thick. Panels shall not be less than 1/4 inch thick, except for the exterior perimeter of the panel that shall be permitted to taper to a height not less than 3/8 inch. The exterior door assembly shall have a fire-resistance rating of not less than 20 minutes unless otherwise specified in NFPA 220 or the manufacturer's performance requirements of 2004 Section 7.2.1.2. The exterior surface of cladding shall be tested to meet the performance requirements of Section 707A.3.1 when tested in accordance with ASTM E2307.		
8. The exterior surface of cladding shall be tested to meet the performance requirements of Section 707A.3.1 when tested in accordance with ASTM E2307.		
Acceptance tests be completed on newly installed or replacement of lighting controls, mechanical systems, fenestration, and process equipment before project completion per the California Energy Code Section 10-103. Acceptance tests must be performed by a certified Acceptance Test Technician (ATT). The Acceptance Testing procedures must be repeated, and deficiencies corrected until the installation of the specified systems conform and pass the required acceptance criteria. Completed NRCA forms shall be submitted to the project inspector and the district.		
CODE	ADOPTED YEAR	ITEM
NFPA 13	2022	AUTOMATIC SPRINKLER SYSTEMS
NFPA 72	2022	NATIONAL FIRE ALARM CODE w/ CALIFORNIA AMENDMENTS
NOTE: VISUAL DEVICES PER UL STANDARD 1971		
THIS PC HAS A "PRE-DESIGNED" FIRE SPRINKLER SYSTEM INSTALLED. SEE BELOW FOR SITE REQUIREMENTS BY OWNER		
IT IS THE OWNERS RESPONSIBILITY TO ENSURE THE MINIMUM FLOW (GPM) AND PRESSURE (PSI) CAN BE ATTAINED AT THE BASE OF THE RISER AT THE PROPOSED SITE FOR EACH PROPOSED BUILDING.		
THIS PC REQUIRES:		
MINIMUM GPM = 250		
MINIMUM PSI = 35		
FAILURE TO ATTAIN THE MIN GPM/PSI MAY NECESSITATE THE INSTALLATION OF ONE OR MORE OF THE FOLLOWING ITEMS/EQUIPMENTS.		
A. WATER TANK		
1. FIRE PUMP		
2. BACK UP FIRE SUPPLY		
B. ADDITIONAL UNDERGROUND FIRE LINE TAPS		
C. ALL OR ANY COMBINATION OF THE ABOVE OR ANY OTHERS AS REQUIRED TO ENSURE PROPER OPERATION OF THE AFSS		
THE FOLLOWING MUST BE SUPPLIED TO DSA AT THE TIME OF SUBMITTAL WITH THE SITE PLAN FOR EACH PROPOSED BUILDING WITH AN AFSS.		
1. MINIMUM GPM/PSI REQUIRED		
2. WATER FLOW DATA (SEE DSA AFFS GUIDELINES)		
3. SITE PLAN SHOWING THE LOCATION OF THE "FLOW" AND "TEST" HYDRANTS (FULLY DIMENSIONED)		
4. ALL NEW AND EXISTING UNDERGROUND FIRE LINES/PIPING - LENGTH AND SIZE SHOWING LOCATION AND METHOD OF UNDERGROUND PIPING RESTRAINTS TO TEST HYDRANT LOCATION OF ALL (NEW AND EXISTING);		
5.		
A. FIRE HYDRANTS		
B. POST INDICATORS		
C. FIRE DEPARTMENT CONNECTIONS		
D. PRESSURE REDUCERS		
E. BACK-FLOW PREVENTION/DETECTOR CHECK VALVES		
F. OTHER FIRE RELATED ITEM/EQUIPMENTS APPLICABLE		
6. HYDRAULIC CALCULATIONS FOR THE UNDERGROUND PIPING WITH THE AVAILABLE GPM/PSI AT THE BASE OF EACH AFSS RISER (MUST MEET OR EXCEED MIN REQ'D)		
7. ANY CHANGES TO THE CONFIGURATION (WALLS, CEILINGS, CONSTRUCTION TYPE) OR OCCUPANCY OF THE PC WILL NECESSITATE ADDITIONAL/REVISED HYDRAULIC CALCULATIONS		

STOCKPILE # 340			
(100) 24X40			
(30) LEFT HAND DOOR ENTRY			
(70) RIGHT HAND DOOR ENTRY			
HIGH SEISMIC DESIGN CRITERIA			
FILE #: PC-128			
2022 CBC			
PC # 04-121369			
24' x 40' EXPANDABLE TO 120' x 40'			
CONSTRUCTION OF CLASSROOM BUILDING (RELOCATABLE)			
SCOPE OF WORK			
BUILDING DESIGN			
NUMBER OF STORIES: 1			
OCCUPANCY: CLASSROOM			
CONSTRUCTION TYPE: VB			
FLOOR LIVE LOAD: 50+15 PSF PARTITION			
100 PSF 150 PSF			
FLOOR DEAD LOAD: X WOOD FLOOR - 11 PSF			
O CONC. FLOOR - 33 PSF			
ROOF LIVE LOAD: 20 PSF			
ROOF SNOW LOAD: 0 PSF			
ROOF DEAD LOAD: 18.5 PSF (INCLUDES SPRINKLERS & 3PFS SOLAR PANEL)			
RAMPLIVE LOAD: 100PSF			
FLOOD DESIGN: This PC has not been designed to accommodate flood loading. If located in a zone other than X, a letter stamped and signed from a soils engineer is needed to validate the allowable soil values assumed in this PC are still applicable. (OWNER SUPPLIED)			
FLOOD DESIGN DATA: PROJECT NOT LOCATED IN A FLOOD ZONE			
BUILDING AREA NO OVERHANG			
ALL OVERTHANG			
WITH OVERHANG (5' @ EA. END)			
ACTUAL AREA = 4,800 SF			
ALLOWABLE SOIL PRESSURE: X WOOD FTG - 1000PSF X CONCRETE FTG 1500PSF			
FOUNDATION: X WOOD (conditional) CONCRETE ABOVE GRADE			
CONCRETE BELOW GRADE <2160sf (conditional)			
CONCRETE BELOW GRADE (AMM*)			
*SEE GENERAL NOTE 14 BELOW			
PC IS DESIGNED BASED ON OTC REFINED CONNECTION TO THE FOUNDATION.			
CEC CLIMATE ZONE: 1-16			
CZ 1-2 RIGID R-10/12" X CZ 3-15 RIGID R-5/1" CZ 16 RIGID R-15/14"			
WIND DESIGN			
ULTIMATE DESIGN SPEED: Vult = 110 mph, 3 sec GUST, Kzt = 1.0			
RISK CATEGORY: II			
EXPOSURE: C			
SEISMIC DESIGN			
Design based on Site Class D _{max}			
No geotechnical investigation required			
Site Class C or D: Fa = 1.2			
Design based on site specific ground motion hazard analysis per chapter 21 of ASCE 7-16			
Short-period design spectral response parameter, S _{ds} , shall be as specified in geotechnical investigation			
CGS approval required			
Not eligible for OTC review			
Site Class: C D E			
S _{ds} = 2/3 Fa S _s = 1.864			
Site Class C or D: 0.7 x S _{ds} = 0.7 x 1.864 = 1.305 ≤ 1.307			
Site Class E: S _{ds} = 1.307			
C _a = 0.373 used in design			
Seismic Design Category: D E X E			
*Site specific S _{ds} value before applying reduction allowed by ASCE 7 section 12.8.1.3			
BASIC SEISMIC FORCE-RESISTING SYS: OMF, R = 3.5			
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE			
BASE SHEAR PER 24X40 MODULE: WOOD FLOOR, LL ≤ 100, BASE SHEAR= 20.04 kip			
WOOD FLOOR, LL ≤ 150, BASE SHEAR= 26.71 kip			
CONC. FLOOR, LL ≤ 100, BASE SHEAR= 20.07 kip			
CONC. FLOOR, LL ≤ 150, BASE SHEAR= 36.36 kip			
* This design does not require a ground motion hazard analysis as it meets ASCE -15, 11.4.7 Exception 82. Cs is determined by Eq. (12.8-3) for values of T < 1.51s			
** Geo-hazard report with verification of site class D must be provided and approved by CGS for site specific analysis with S _s > 1.76.			
"Fire safety during demolition and construction shall comply with CBC Chapter 33 and CFC Chapter 33."			

APPROVED	DIV. OF THE STATE ARCHITECT	
APP. 04-122805 INC. <td>REVIEWED FOR</td>	REVIEWED FOR	
SS <input type="checkbox"/> FLS <input type="checkbox"/> ACS <input type="checkbox"/>	DATE: 11/20/2023	
PROJECT SPECIFIC STATE AGENCY APPROVAL		
IDENTIFICATION STAMP		
DIV. OF THE STATE ARCHITECT		
APP. 04-122805 INC.		
REVIEWED FOR		
DATE: 09/28/2023		
PROFESSIONAL STAMP		
RECEIVED PROFESSIONAL SEAL		
D. J. TAVARES		
No. 53380		
Exp. 03/31/24		
STATE OF CALIFORNIA		
09/28/23		
THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEvised SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. ©		
CLIENT		
Class Leasing		
1320 W. Olander Ave. Perris CA 92571-7408		
VOICE: (951) 943-1908/Fax: (951) 943-5768		
ORIGINAL PC STATE AGENCY APPROVAL		
Revision Schedule		
#	Description	Date
2	CCD_002	11/2/2023
PRE-CHECK (PC) DOCUMENT		
Code: 2022 CBC		
A separate project application for construction is required		
PROJECT TITLE		
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'		
SHEET TITLE		
COVER SHEET		
PROJECT NUMBER		
22088		
DRAWN BY		
rMc/SC		
CHECKED BY		
RH/RT		
DATE		
SHEET NO.		
ALT-A0.0		
SHEET OF		

Sheet Number	Sheet Name
00	COVER SHEET
A0.0	PROJECT OPTIONS SCHEDULE
A0.1	TYPICAL KEY PLAN AND SCHEDULES, GEN NOTES,
A0.2	SIGNAGE AND SYMBOLS
A0.3	DSA-103 T&I CONCRETE FLOORS
A0.4	DSA-103 T&I PLYWOOD FLOORS
A0.5	CAL GREEN SPEC'S
A0.6	CAL GREEN CHECKLIST
A0.7	CAL GREEN CHECKLIST
A0.8	CAL GREEN CHECKLIST
Architectural	
A1.0	24x40 FLOOR PLAN
A1.1	36x40 FLOOR PLAN
A1.2	48x40 thru 120x40 FLOOR PLAN
A2.1(A)	ARCHITECTURAL DETAILS (WOOD FRAMING SHTG FINISH)
A2.1(B)	ARCHITECTURAL WUI DETAILS (WOOD FRAMING SHTG FINISH)
A2.2	ARCHITECTURAL DETAILS (WOOD FRAMING PLASTER FINISH)
A2.2(A)	ARCHITECTURAL DETAILS (1 HR WOOD FRAMING SHTG FINISH)
A2.2(B)	ARCHITECTURAL WUI DETAILS (1 HR WOOD FRAMING SHTG FINISH)
A2.3	ARCHITECTURAL DETAILS (1 HR WOOD FRAMING PLASTER FINISH)
A2.9	ARCHITECTURAL DETAILS (FLOOR)
A2.9.1	DETERIORATION PRO-NON WOOD FINISH-SHTG CONC FLOOR-WD STUDS
A2.9.2	DETERIORATION PRO-STUCCO EXTERIOR RIMSH CONC FLOOR-WD STUDS
A2.9.3	DETERIORATION PRO-NON WOOD FINISH-SHTG WOOD FLOOR-WD STUDS
A2.9.4	DETERIORATION PRO-STUCCO EXTERIOR FINISH WOOD FLR-WD STUDS
A2.9.5	DETERIORATION T-111 EXTERIOR FINISH WOOD FLR-WD STUDS
A2.9.6	DETERIORATION T-111 EXTERIOR FINISH WOOD FLR-WD STUDS
A3.0	ADDITIONAL FIRE RATING DETAILS AND NOTES
A3.0.1	FIRE SEPARATION & PENETRATION DETAILS
A3.1	SINGLE OCC. BATHROOM
A3.1.1	SINGLE OCC. BATHROOM AGE GROUP
A3.1.2	SINGLE OCC. BATHROOM COMBINED AGE GROUP
A3.2	RCP
A3.2.1	CEILING NOTES
A3.3	CEILING DETAILS (T-GRID)
A3.4	CEILING DETAILS (GYR BOARD)
A4.0.1	ROOF PLAN MONO SLOPE (STANDING SEAM)
A4.0.2	ROOF PLAN DUAL SLOPE (STANDING SEAM)
A4.1	ROOF DETAILS (STANDING SEAM)
A4.2.1	ROOF PLAN MONO SLOPE (EPDM)
A4.2.2	ROOF PLAN DUAL SLOPE (EPDM)
A4.3	ROOF DETAILS (EPDM)
A4.4.1	ROOF PLAN W/ PARAPET MONO SLOPE (EPDM)
A4.4.6	ARCHITECTURAL DETAILS (PARAPET)
A5.0	SIDEWALL ELEVATION
A5.1	ENDWALL ELEVATIONS



IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP. 04-122805 INC:
 REVIEWED FOR
 SS FLS ACS
 DATE: 09/28/2023

REVISIONS	BY

Class Leasing
 1651 S. Juanita St. San Jacinto, CA 92583-5003
 VOICE (951) 943-1908 FAX (951) 943-5768

ENGINEER

 09/28/23

AOR

SHEET TITLE:

DATE:

DRAWN BY: Gama B.

SCALE: AS SHOWN

JOB: -

SHEET NO: **ALT-01**

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2020
LIST OF APPLICABLE CODES
 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
 2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR
 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
 2022 CALIFORNIA GREEN BUILDING STANDARD CODE (CALGREEN), PART 11, TITLE 24 CCR
 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
 TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

APPLICABLE STANDARDS
 FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80.

NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

*CALIFORNIA ADMINISTRATIVE CODE, PART 1, CHAPTER 10, ADMINISTRATIVE REGULATIONS FOR THE CALIFORNIA ENERGY COMMISSION (CEC)

GENERAL NOTES

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATION SHALL BE MADE BY AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT (CCD) BY DSA AS REQUIRED BY SECTION 4-338 PART 1, TITLE 24, CCR

A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. DUTIES OF INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1 TITLE 24, CCR

COMPLETE ACCESS IS A DIVISION OF INTEGRATED STAIR SYSTEMS INC. WITH CORPORATE OFFICES LOCATED IN 1345 RYAN RD, BUCKLEY, WA 98321, (360) 829-4220

DESIGN LOADS
 LIVE LOAD: 100 PSF (4.8 kPa)
 HANDRAIL IMPACT: 200 LBS (0.9kN)
 HANDRAIL DIST. LOAD: 50 PLF (0.7 kN/m)

RISK CATEGORY: III

SEISMIC: Ss=2.80g, S1=1.99g, R=1.25, SITE CLASS D
 LATERAL RESISTING SYST: OTHER STRUCTURES SIMILAR TO BUILDINGS
 WIND: 110 MPH, 3 SEC GUST EXPOSURE "C", Kzt=1.0
 SEIS IMPORTANCE FACTOR: Ie=1.25, Iw=1.0 Cs=1.493
 DESIGN BASE SHEAR, V: 1493 W
 SNOW LOAD: 0 PSF (0 kPa)
 SOIL ALLOWABLE BEARING: 1,000 PSF (4.8 kPa)

MATERIALS

SQUARE STEEL TUBE ASTM A513 GR. C Fy= 33 KSI (345 MPa)
 RAMP OVERHANG POST ASTM A500 B Fy= 46 KSI

*ALL STEEL TO BE COATED WITH GALVANIZED RUST INHIBITING COATING

WOOD FOUNDATION SHALL BE OF FOUNDATION GRADE REDWOOD OR PRESERVATIVE PRESSURE TREATED HEM-FIR #2 AND IS ALLOWED TO REST DIRECTLY ON SOIL OR PAVEMENT.

WELDS

WELDING SHALL BE IN ACCORDANCE WITH AWS D.1.1-10 USING E70XX ELECTRODES FOR STEEL AND AWS D1.2 AND A5.10 FOR ALUMINUM, USING ALMIGWELD ER4043

BOLTS, SCREWS AND NAILS

STEEL TO STEEL CONNECTIONS: ASTM A307 CARBON STEEL BOLTS SHALL BE GRADE 5 ZINC PLATED, HOT DIPPED GALVANIZED TO ASTM A153 OR ELECTROGALVANIZED TO ASTM B63.3. FASTENER SHALL BE LUBRICATED TO ELIMINATE GALLING. ALL STEEL MEMBERS IN CONTACT WITH ALUMINUM SHALL BE ZINC COATED TO ELIMINATE GALVANIC REACTION.

STEEL TO STEEL & WOOD CONNECTIONS: ANSIA/ASME STEEL LAG SCREWS, STEEL STANDARD WOOD SCREWS, WOOD TO WOOD CONNECTION: ASTM STANDARD COMMON STEEL NAIL.

ITW RED HEAD CONCRETE WEDGE ANCHORS SHALL BE INSTALLED PER RECOMMENDATION SHOWN IN ESR-2427

HANDRAIL NOTES:

- MANEUVERING CLEARANCE ON EXTERIOR PULL SIDE OF DOOR SHALL BE 42" TYPICAL (610MM) MINIMUM WITH 60" (1524MM) MINIMUM LANDING IN FRONT OF DOOR.
- HANDRAILS SHALL BE CONTINUOUS ALONG BOTH SIDES. HANDRAILS SHALL BE PARALLEL WITH THE SURFACE AND PROJECT 12" (301MM) ON BEYOND TOP OF RISER AND 12" (301MM) PLUS 1 TREAD AT BOTTOM RISER. AT RAMP WHERE HANDRAIL ARE NOT CONTINUOUS BETWEEN RUNS THE HANDRAIL SHALL EXTEND HORIZONTALLY ABOVE THE LANDING 12" (301MM) MINIMUM BEYOND THE BEGINNING AND ENDING OF RAMP
- TOP OF HANDRAILS SHALL BE MOUNTED BETWEEN 34" (864MM) AND 38" (965MM) ABOVE THE WALKING SURFACE, ONE CONSISTENT HEIGHT, BEGINNING TO END.
- CLEARANCE BETWEEN HANDRAIL AND WALL SHALL BE A MINIMUM OF 1-1/2" (38MM).
- GUARDS ARE TO BE DESIGNED FOR A CONCENTRATED LOAD OF 200 LBF (0.9 kN) APPLIED @ ANY POINT AND ANY DIRECTION ALONG THE RAIL OR A UNIFORM LOAD OF 50 PLF (0.7 kN/m) APPLIED HORIZONTALLY @ HANDRAIL HEIGHT.
- HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION WITH AN OUTSIDE DIAMETER OF 1-1/4" (31.75MM) MINIMUM AND NOT GREATER THAN 2" (51MM) MAXIMUM. 11B-605.7.2 NON-CIRCULAR CROSS SECTIONS, HANDRAIL GRIPPING SURFACES WITH A NON-CIRCULAR CROSS SECTION SHALL HAVE A PERIMETER DIMENSION OF 4 INCHES (102 MM) MINIMUM AND 6 1/8 INCHES (159 MM) MAXIMUM, AND A CROSS-SECTION DIMENSION OF 2 1/4 INCHES (57 MM) MAXIMUM.
- GRIPPING SURFACE SHALL BE CONTINUOUS ALONG THEIR LENGTH AND SHALL NOT BE OBSTRUCTED ALONG THEIR TOPS OR SIDES.
- HANDRAILS SHALL NOT ROTATE IN THEIR FITTINGS.
- ENDS OF HANDRAILS SHALL RETURN SMOOTHLY TO FLOOR, WALL OR POST.

RAMP NOTES

- RAMP SHALL CONFORM TO CBC 2022 TITLE 24 PART 2, CHAPTER 11B, 11B-405
- RAMP SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12 (8% SLOPE) FOR A MAXIMUM RISE OF 30" (762MM)
- THE MAXIMUM VERTICAL RISE OF RAMP RUN SHALL BE 30" (762MM) MAXIMUM
- RAMP SHALL HAVE LANDING AT BOTTOM AND TOP OF EACH RAMP RUN
- THE SLOPE ON LANDINGS SHALL NOT BE STEEPER THAN ONE UNIT VERTICAL IN 48 UNITS HORIZONTAL (2% SLOPE) IN ANY DIRECTION
- LANDING SHALL HAVE A WIDTH AT LEAST AS WIDE AS THE WIDEST RAMP RUN LEADING TO THE LANDING AND A MINIMUM LENGTH OF 60" IN THE DIRECTION OF TRAVEL @ TOP LANDING - 72" MIN @ BOT LANDING
- CHANGES IN DIRECTION OF TRAVEL SHALL HAVE A LANDING 60" WIDE BY 72" LONG (1524MM X 1829MM) MINIMUM, WITH THE LENGTH BEING IN THE DIRECTION OF DOWNWARD TRAVEL AND CHANGES IN DIRECTION
- MANEUVERING CLEARANCE ON LANDING ADJACENT TO DOORWAYS SHALL BE NO LESS THAN 42" WITH DOOR IN ANY POSITION AND SHALL NOT BE REDUCED BY MORE THAN 3" WHEN DOOR IS FULLY OPENED
- WALKING SURFACE SHALL BE ROUGHED OR SHALL BE OF SLIP RESISTANT DIAMOND PLATE ALUMINUM AND ALL LANDINGS TO BE DESIGNED TO NOT RETAIN STANDING WATER - 2.083 MAX SLOPE ANY DIRECTION

ADDITIONAL NOTES

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR

SCOPE OF WORK

CONSTRUCTION OF RAMP AND STAIRS BUILDINGS (RELOCATABLE)

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

Application Number:	School Name:	School District:
DSA File Number:	Increment Number:	Date Created:

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections listed on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

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

1. TYPE		2. PERFORMED BY	
Continuous	- Indicates that a continuous special inspection is required	GE (Geotechnical Engineer)	- Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.
Periodic	- Indicates that a periodic special inspection is required	LOR (Laboratory of Record)	- Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CBC Section 4-335.
Test	- Indicates that a test is required	PI (Project Inspector)	- Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.
		SI (Special Inspection)	- Indicates that the special inspection shall be performed by an appropriately qualified approved special inspector.

CS. POST-INSTALLED ANCHORS:	Type	Performed By	Code References and Notes
a. Inspect installation of post-installed anchors	See Notes	SI*	1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8 (See Appendix (end of this form) for exemptions), ACI 308.14 Sections 17.8 & 26.13. *May be performed by the project inspector when specifically approved by DSA.
b. Test post-installed anchors.	Test	LOR	1910A.5. (See Appendix (end of this form) for exemptions).

S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES			
Test or Special Inspection	Type	Performed By	Code References and Notes
a. Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	Periodic	*	Table 1705A.2.1 Item 3a. 3c. 2202A.1; AISI S100-20 Section A3.1 & A3.2; AISI S240-20 Section A3.8 & A5; AISI S229-20 Section A4.8 & 4.9. *By special inspector or qualified technician when performed off-site.
b. Test unidentified materials	Test	LOR	2202A.1.
c. Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.
d. Verify and document steel fabrication per DSA-approved construction documents.	Periodic	SI	Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).

S/A3. WELDING:			
Test or Special Inspection	Type	Performed By	Code References and Notes
a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	Periodic	SI	1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3.
b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.
c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.

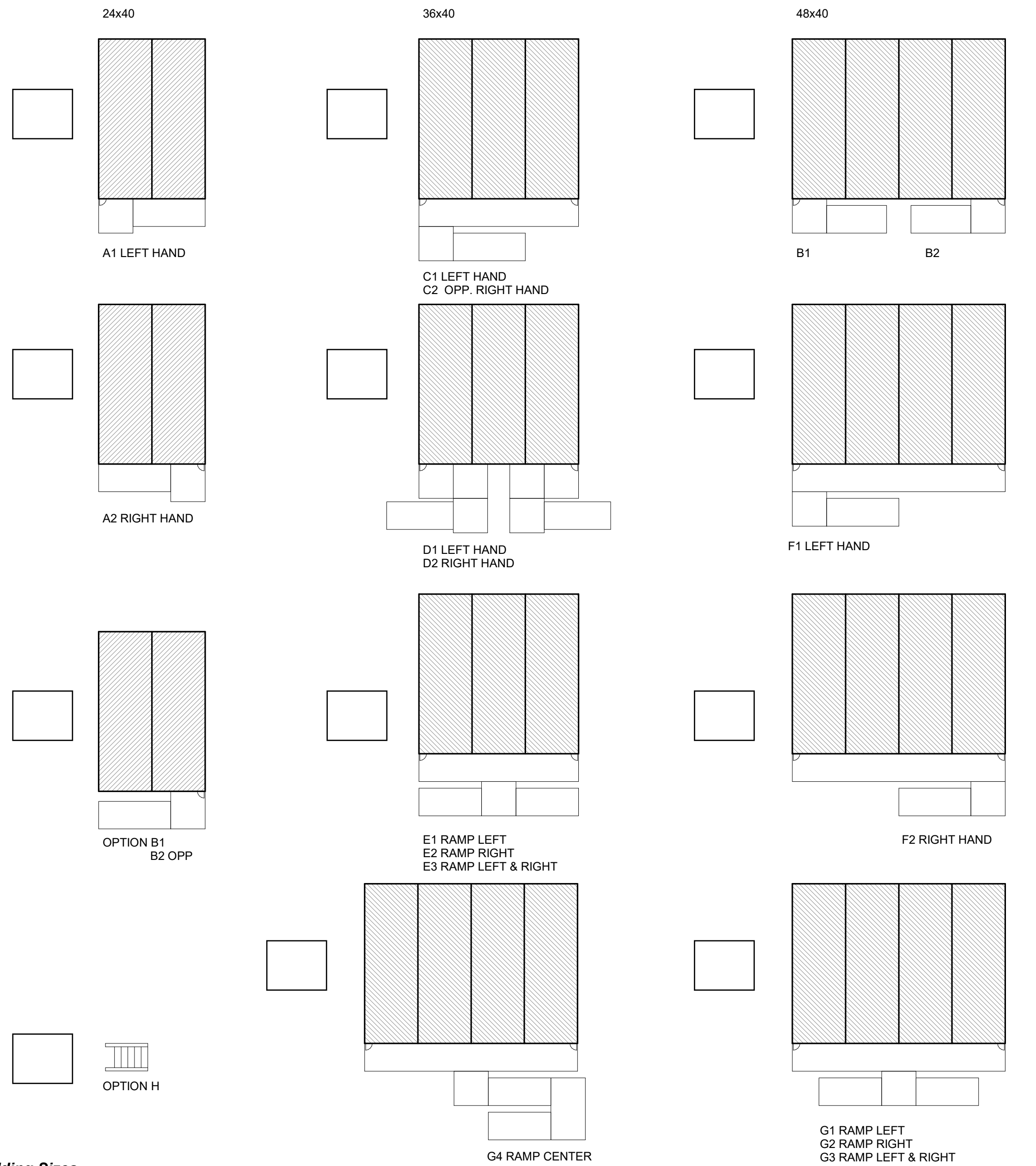
S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):			
Test or Special Inspection	Type	Performed By	Code References and Notes
a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a. 1. 4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Items 5a. 5 & 5a. 6; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
c. Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.1; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.

- Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
- Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

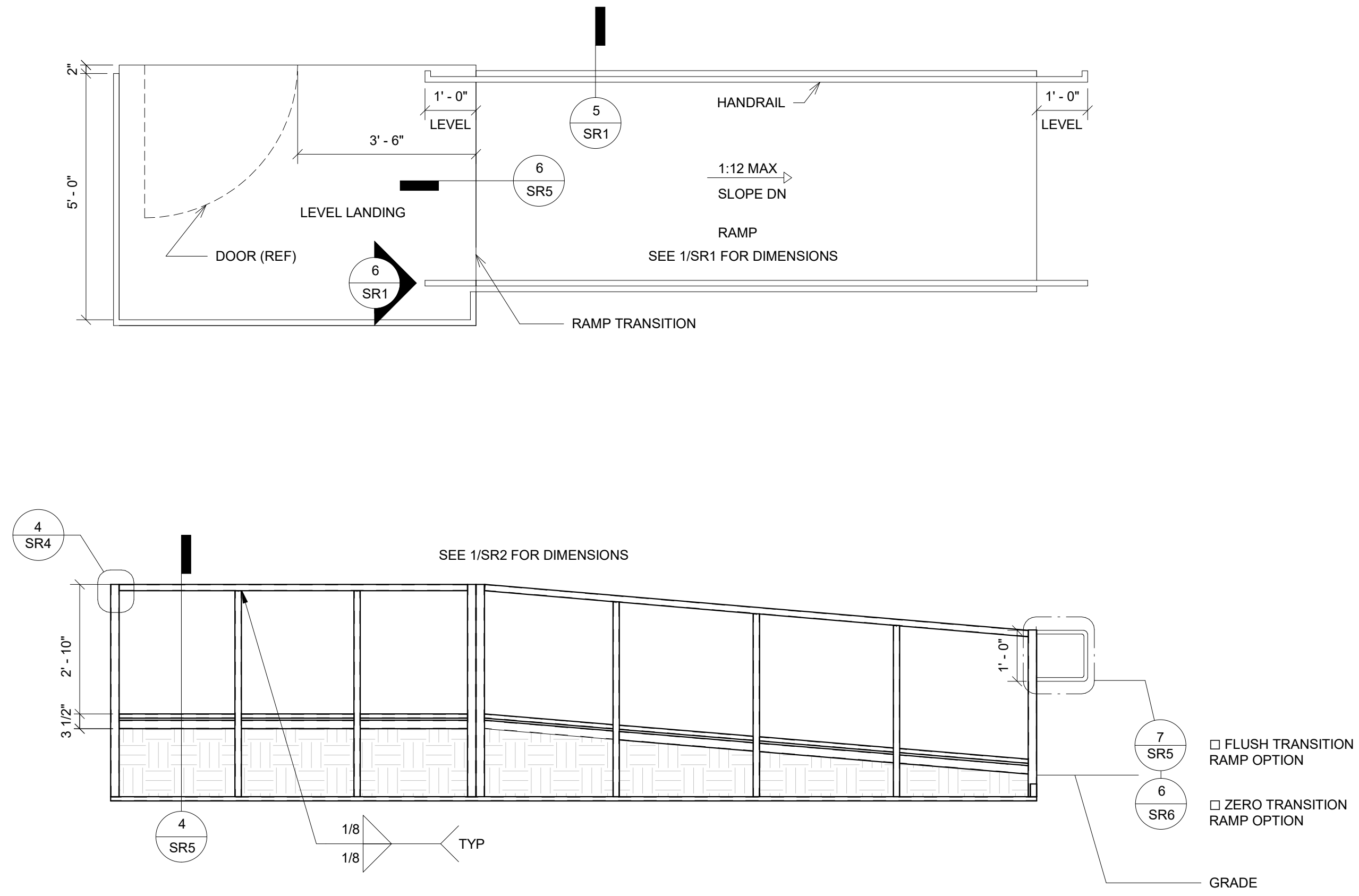
THE EXAMPLE OF FORM DSA-103s SHOWN ON THIS SHEET ARE FOR ILLUSTRATION PURPOSE ONLY. A FORM DSA-103 IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS PC IS BEING INCORPORATED INTO AND ALL EXAMPLE FORM DSA-103s ARE TO BE CROSSED OUT ON THIS DRAWING.

Ramp Option Schedule:

- option 1 : ramp & landing @ building (plan view 1/SR1)
- option 2 : ramp and landing with offset ramp (plan view 2/SR1)
- option 3: ramp and platform landing (plan view 3/SR1)
- option 4 : ramp and landing with switch back ramp (plan view 4/SR1)



2 Ramps Options w/ Different Building Sizes



3 1/2" = 1'-0" Standard Ramp

PROJECT SPECIFIC STATE AGENCY APPROVAL



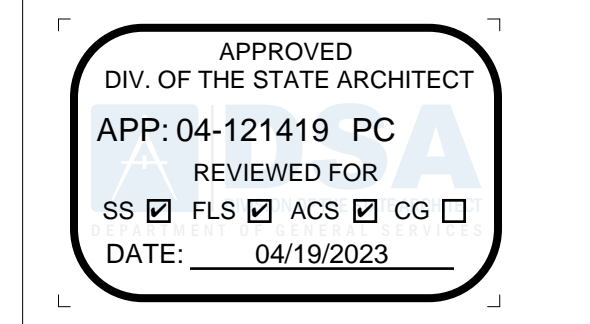
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ORIGINAL PC STATE AGENCY APPROVAL



Revision Schedule

#	Description	Date
22079		

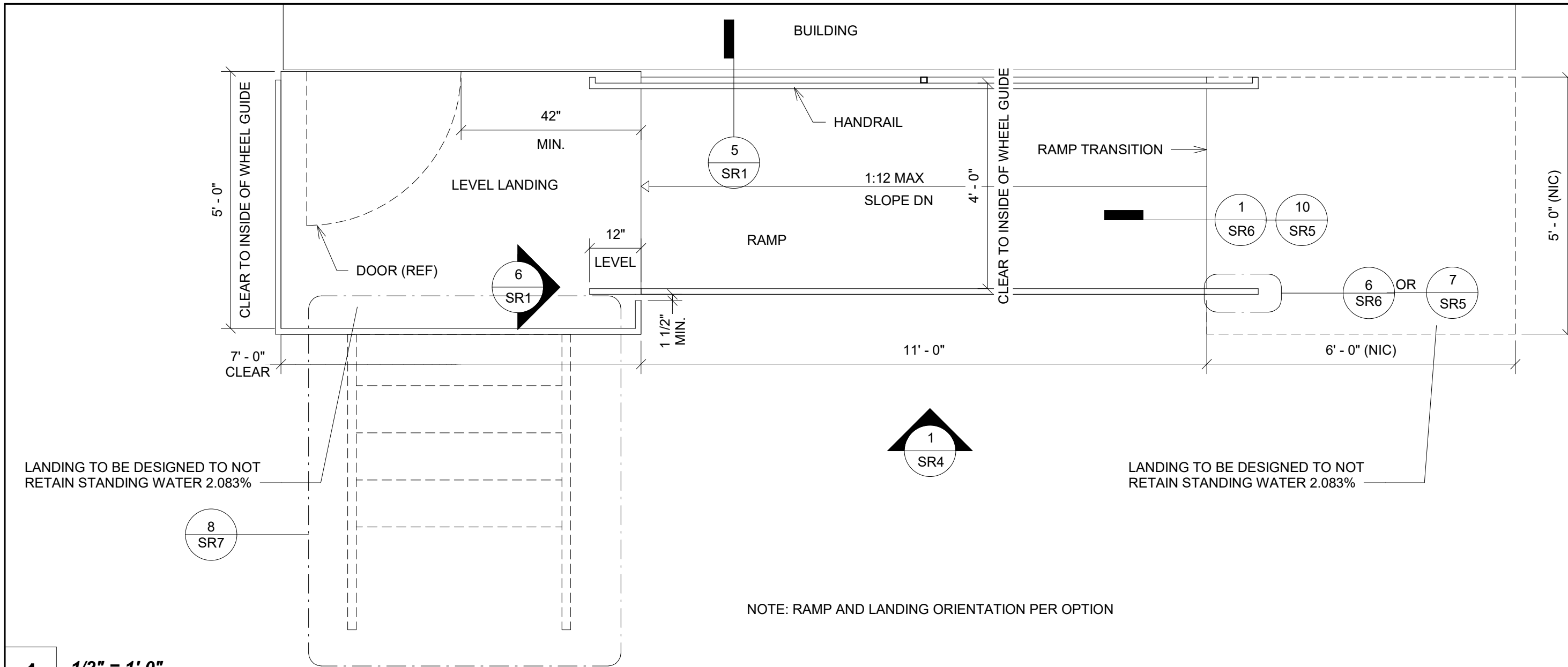
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 Code: 2022 CBC
 A separate project application for construction is required

PROJECT TITLE
RAMPS PC
 CLASS LEASING
 PC#04-121419

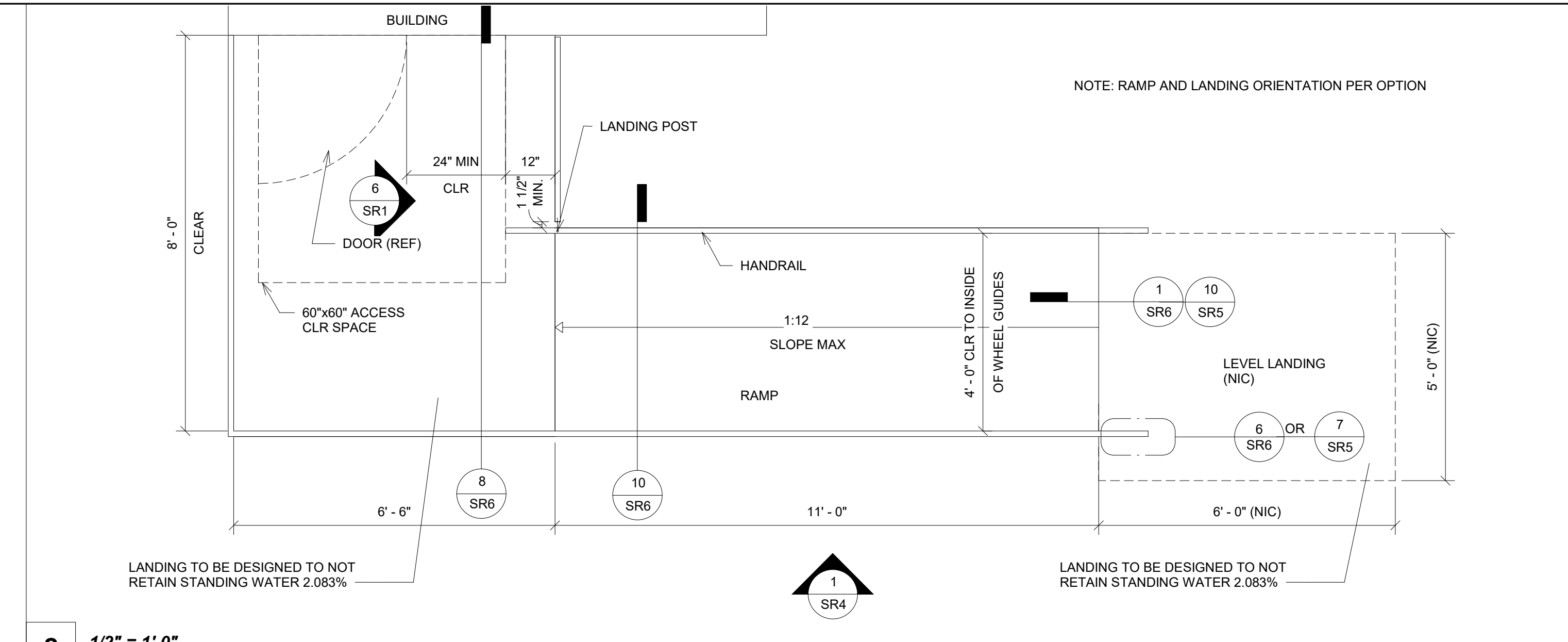
SHEET TITLE
Module Plan and Notes (COVER SHEET)

PROJECT NUMBER: 22079
 DRAWN BY: SM
 CHECKED BY: rMc
 DATE: 6/15/2021
 SHEET NO.: **SR0**

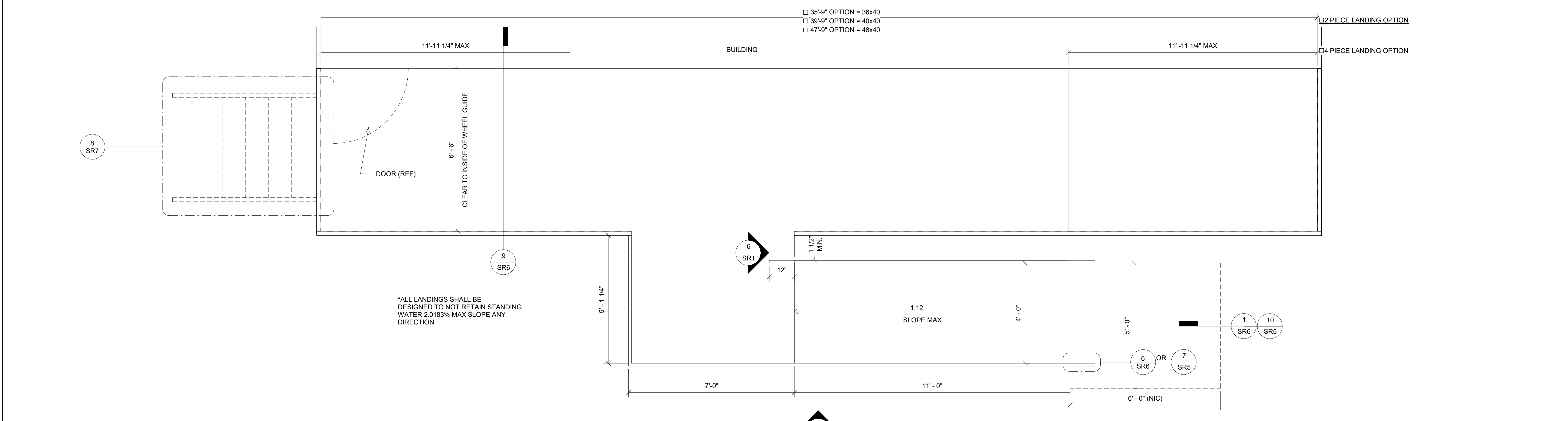
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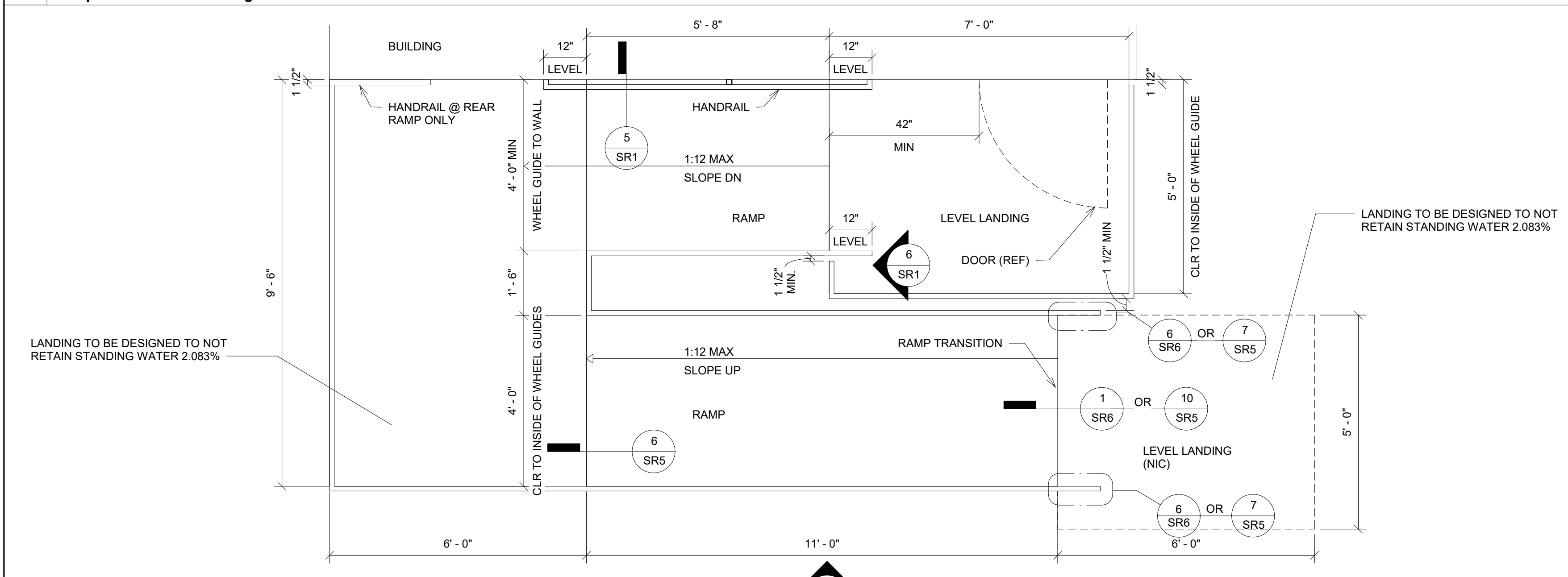
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Ramp & Landing @ Building



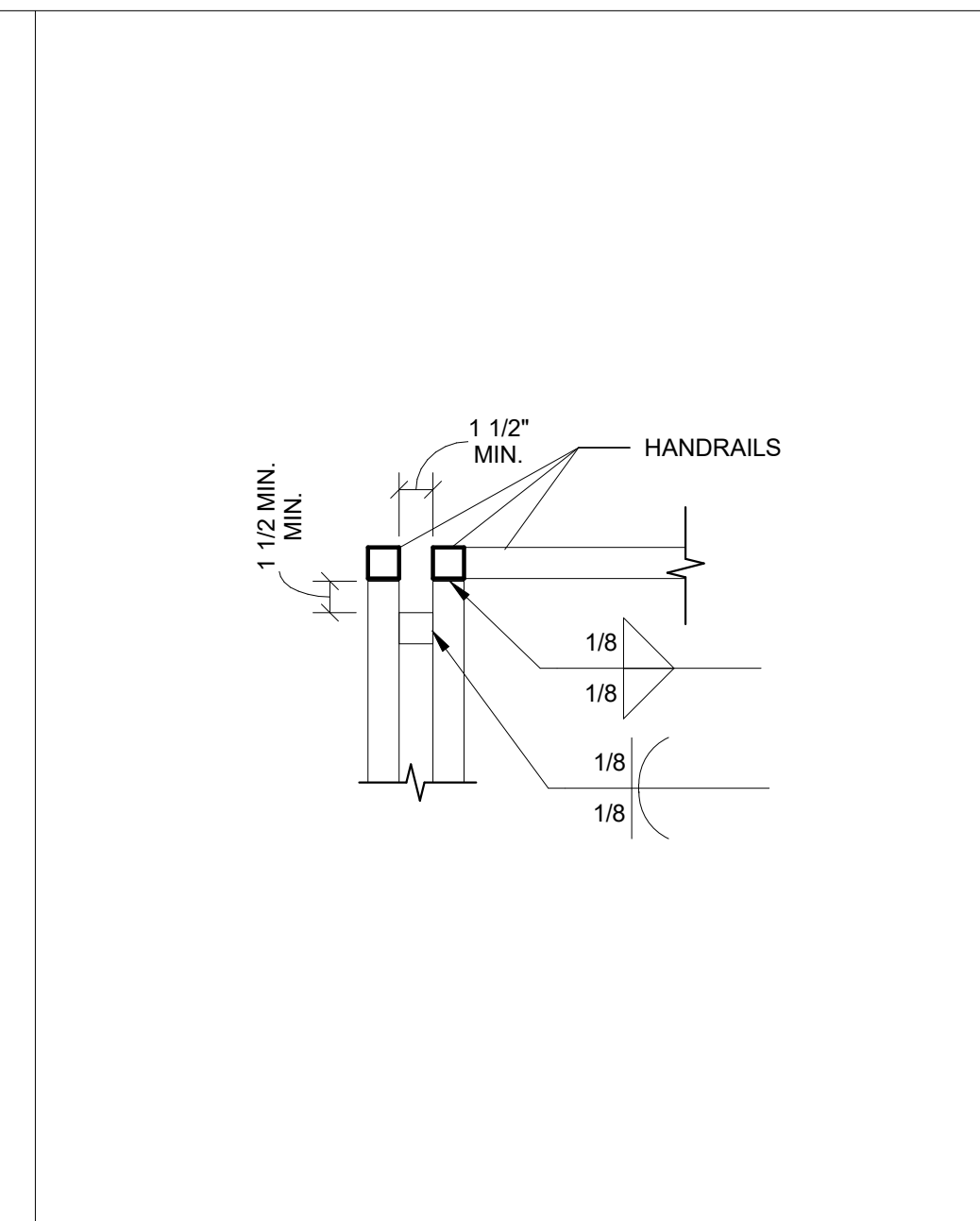
2 1/2" = 1'-0"
Ramp & Landing w/ Offset Ramp



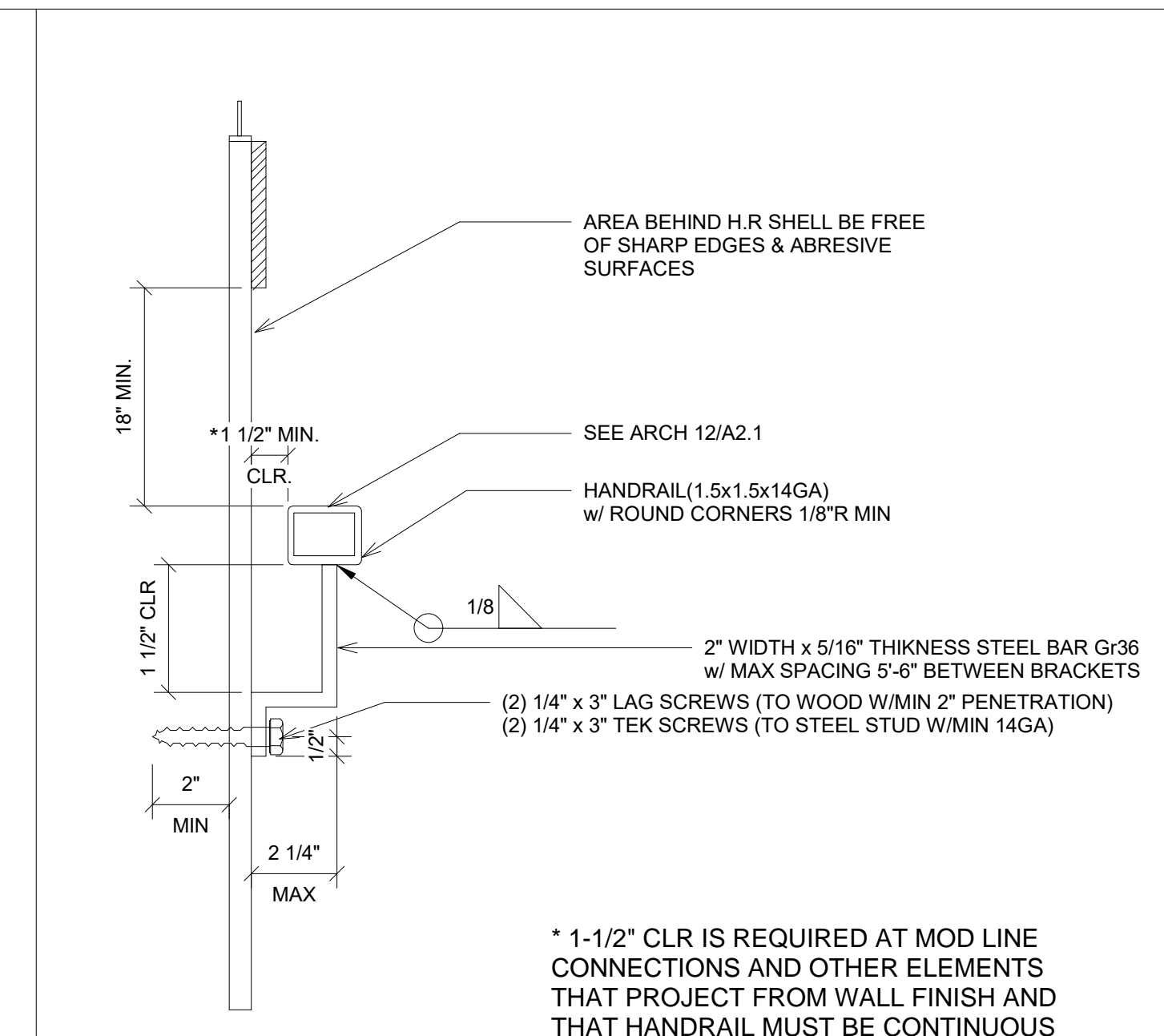
3 1/2" = 1'-0"
Ramp and Platform Landing



4 1/2" = 1'-0"
Ramp & Landing w/ Switch Back Ramp

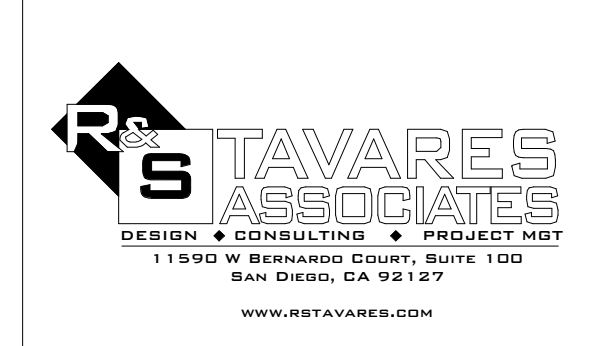


6 1 1/2" = 1'-0"
RAMP & LANDING CONNECTION @ RAILS



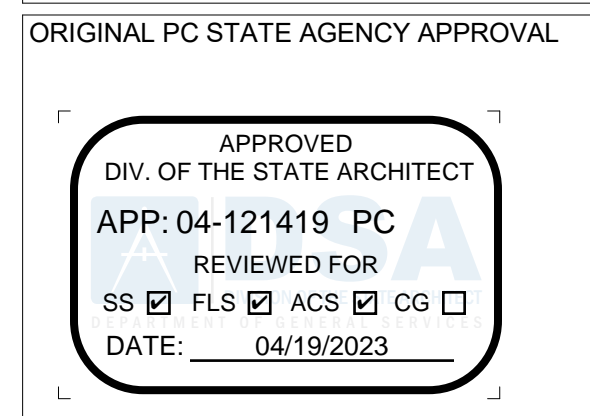
5 3" = 1'-0"
Handrail

PROJECT SPECIFIC STATE AGENCY APPROVAL



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CLIENT
Class Leasing
1320 W. Oleander Ave, Perris CA 92571-7408
VOICE (951) 943-1908/Fax (951) 943-5768



Revision Schedule		
#	Description	Date
22079		

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
RAMPS PC
CLASS LEASING
PC#04-121419

SHEET TITLE
Ramp and Landing Plan

PROJECT NUMBER
22079

DRAWN BY
SM

CHECKED BY
rMc

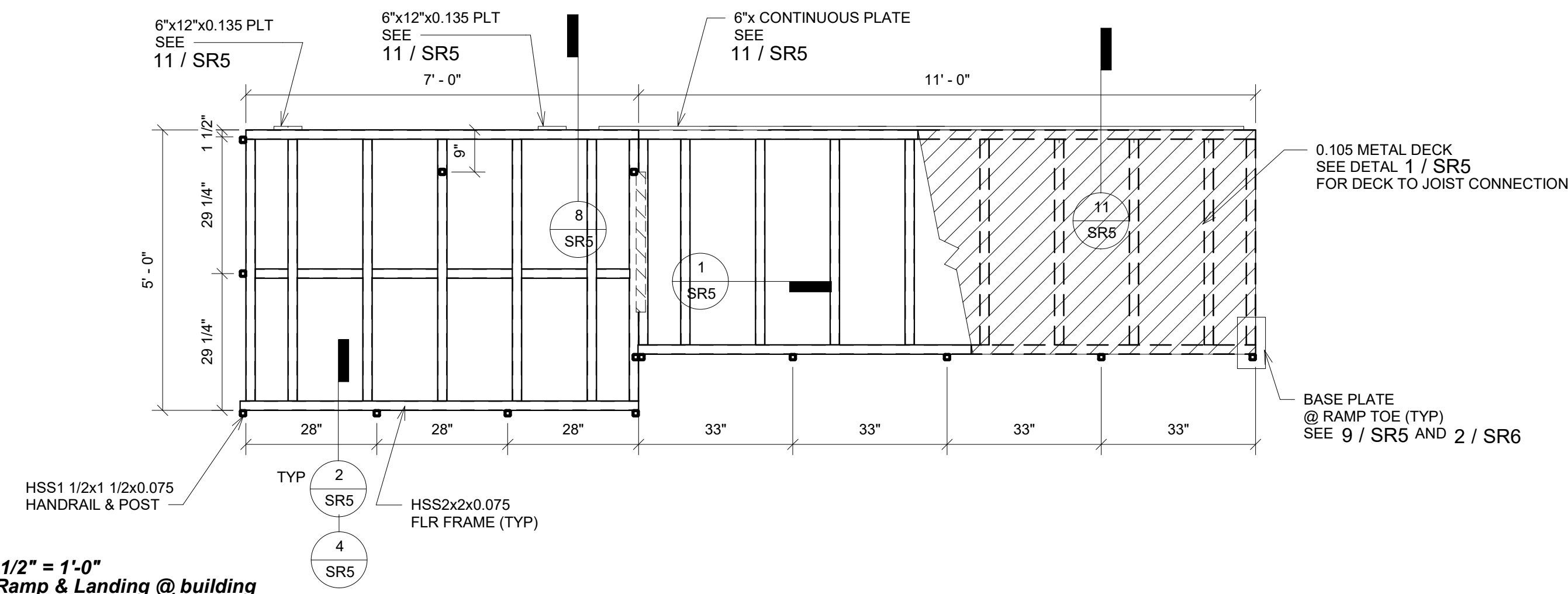
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12/23/2022

SHEET NO.
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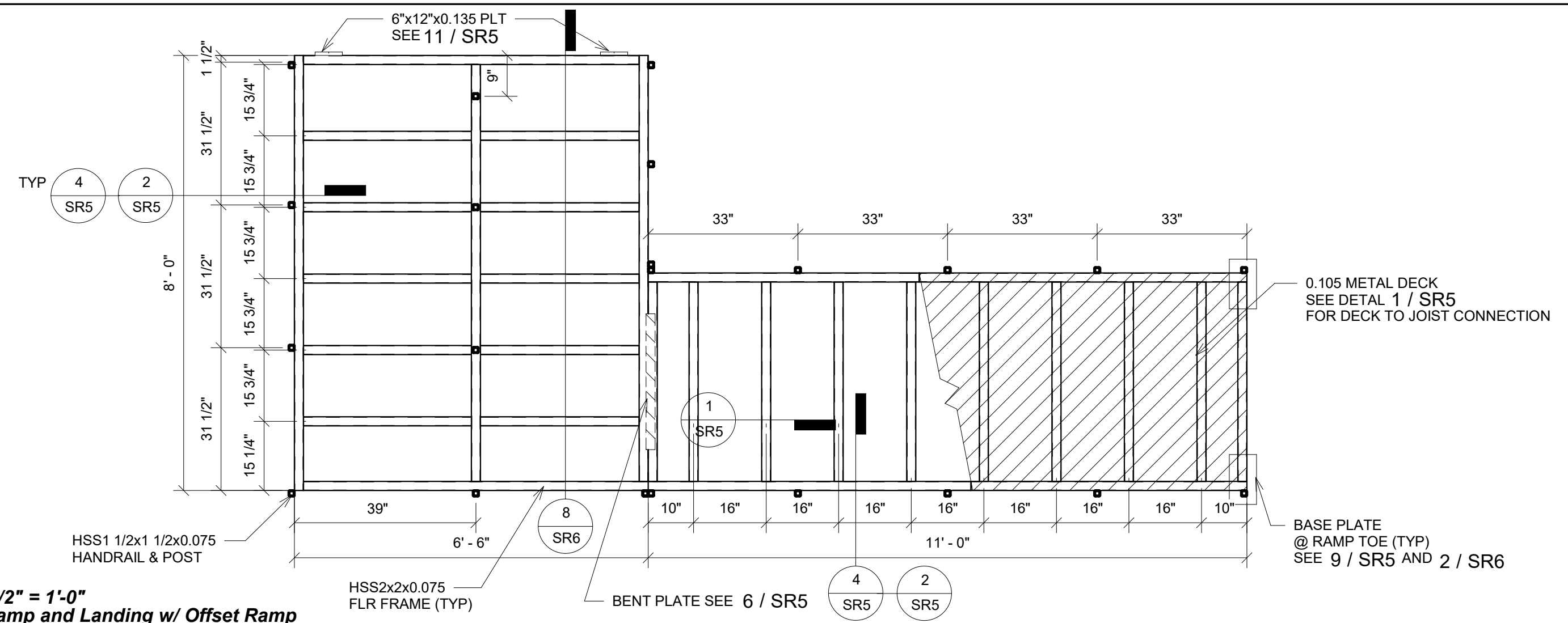
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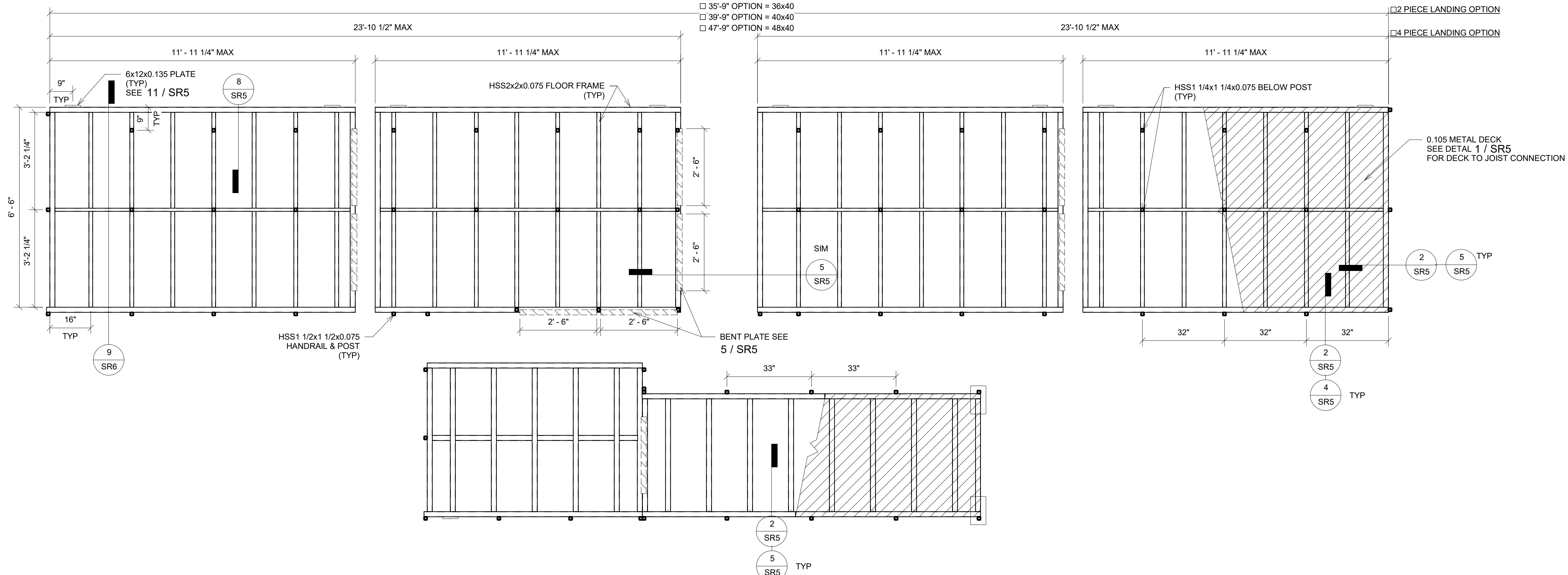
1 1/2" = 1'-0"
Ramp & Landing @ building



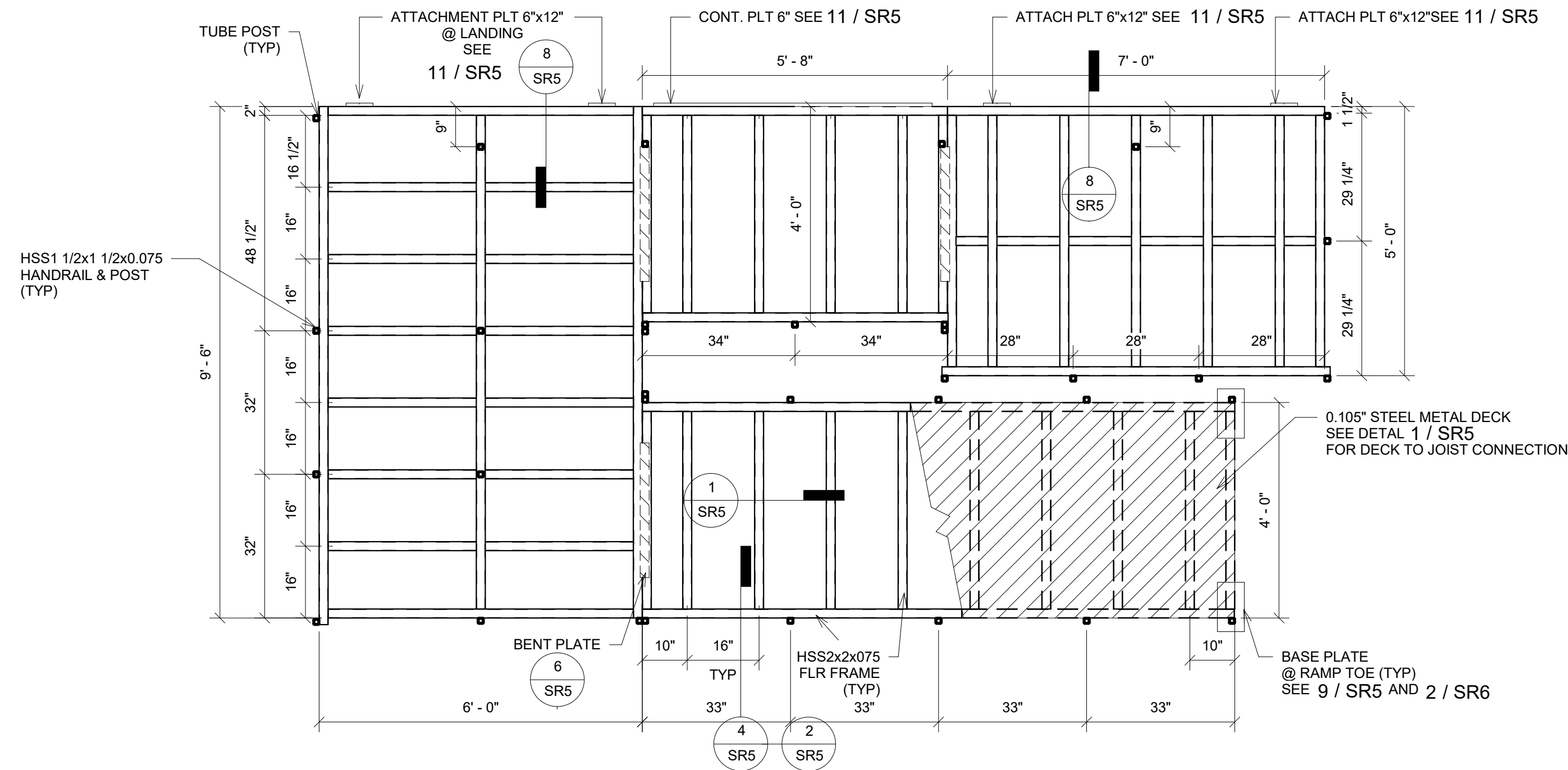
2 1/2" = 1'-0"
Ramp and Landing w/ Offset Ramp



3 1/2" = 1'-0"
Ramp & Platform Landing Frame



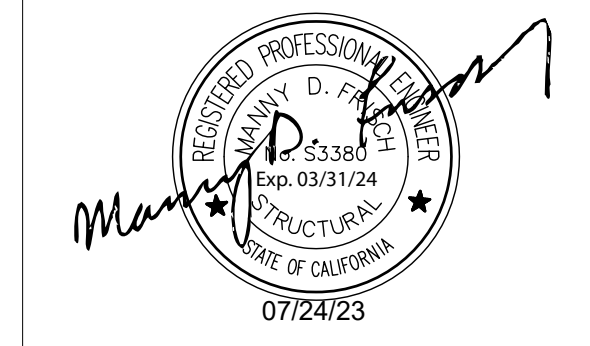
4 1/2" = 1'-0"
Ramp & Landing w/ Switch Back Ramp



PROJECT SPECIFIC STATE AGENCY APPROVAL



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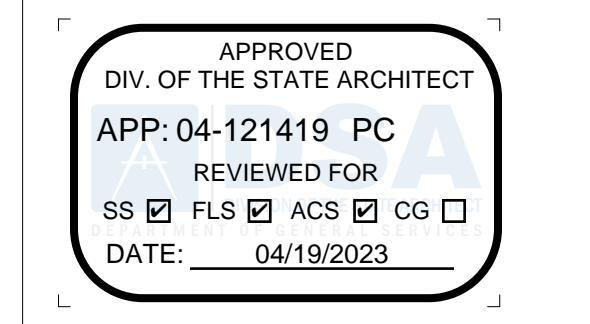


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ORIGINAL PC STATE AGENCY APPROVAL



Revision Schedule

#	Description	Date
22079		

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
RAMPS PC
CLASS LEASING
PC#04-121419

SHEET TITLE
Ramp and Landing Framing

PROJECT NUMBER
22079

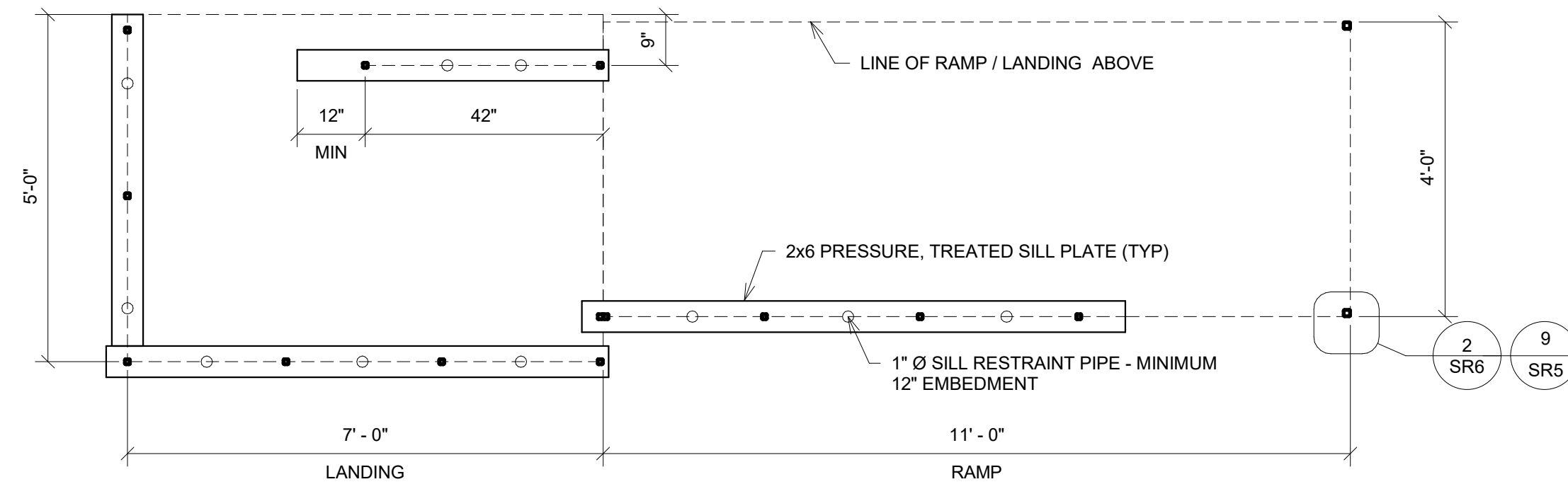
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SM

CHECKED BY
BR/rMc

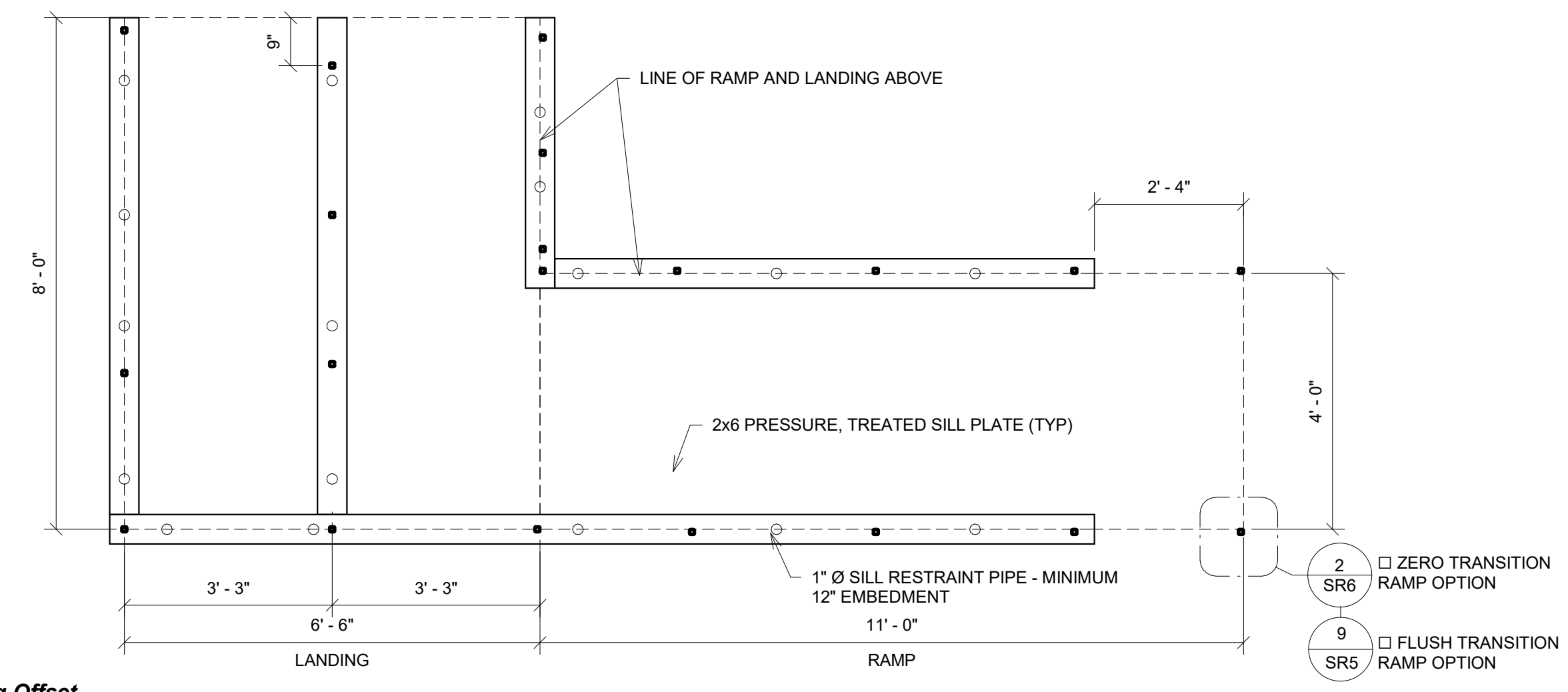
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12/23/2022

SHEET NO.
SR2

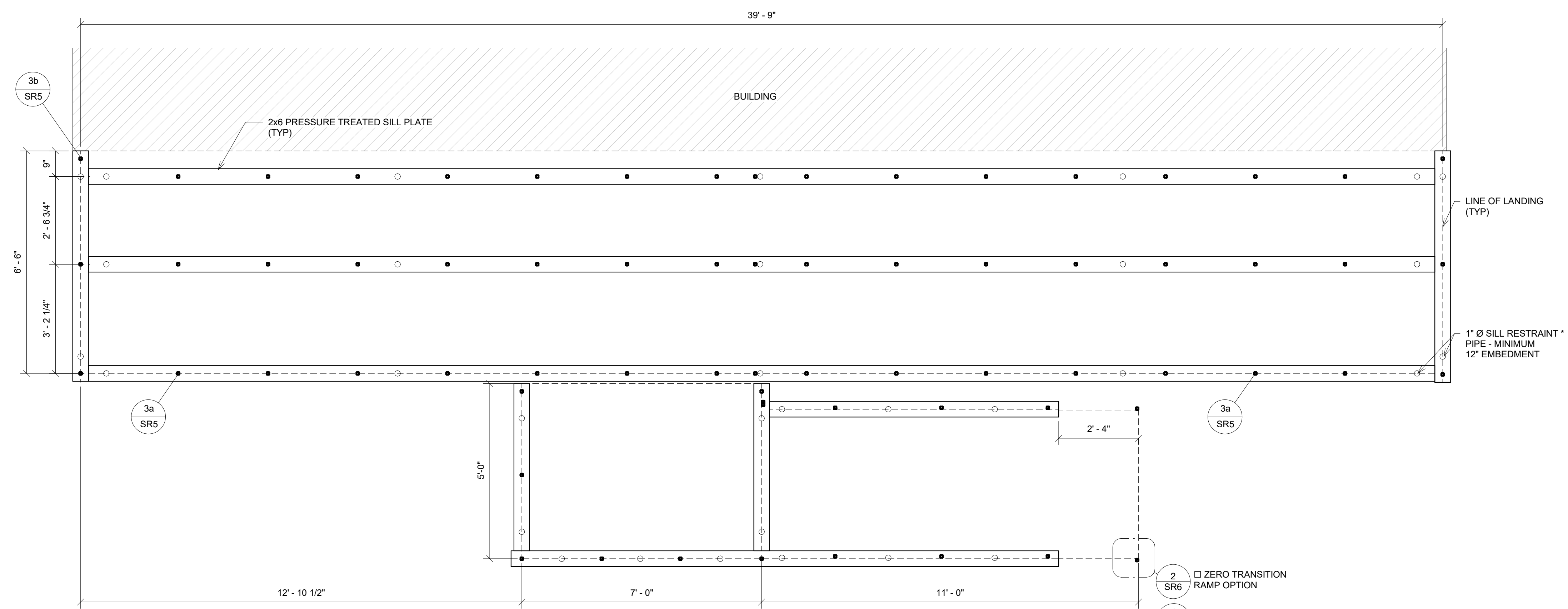
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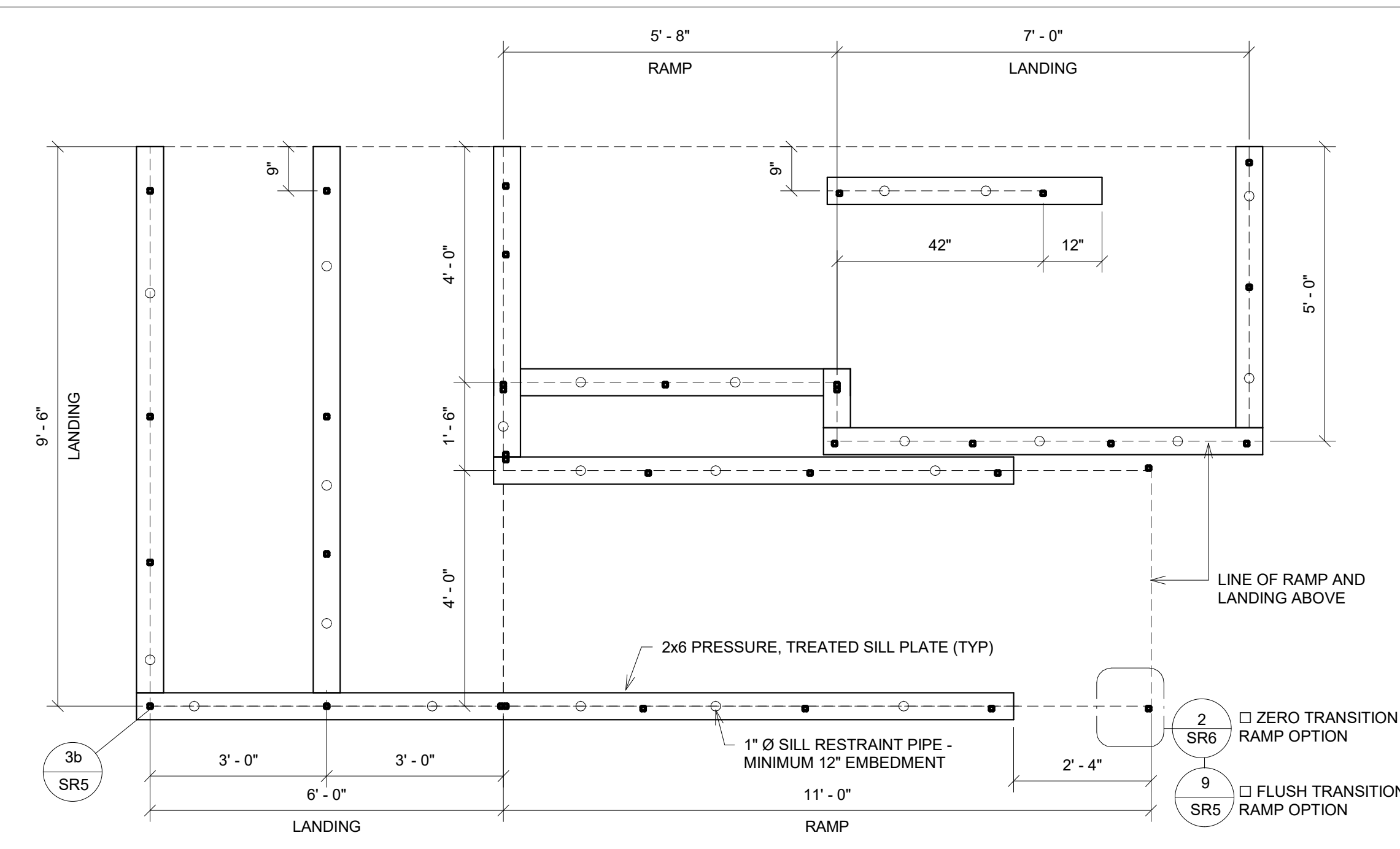
1 1/2" = 1'-0"
Sill Plan For Ramp & Landing



2 1/2" = 1'-0"
Sill Plan For Ramp & Landing Offset



3 1/2" = 1'-0"
Platform Sill Plan For Ramp & Landing



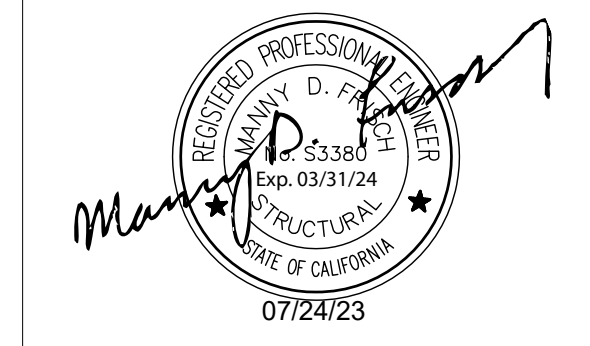
4 1/2" = 1'-0"
Sill Plan For Ramp & Landing Switchback

RESTRAINING PIPES / RODS SPECS
ONE INCH DIAMETER STANDARD WEIGHT (1.315" ACTUAL 0.0) NOT DIPPED GALVANIZED PIPES OR ONE INCH DIAMETER SOLID STEEL RODS SPACED AT NOT MORE THAN 10'-0" o/c.
ONE PIPE / ROD SHALL BE LOCATED A MAXIMUM OF TWO FEET FROM EACH CORNER IN BOTH DIRECTIONS AND MINIMUM OF TWO PIPES / RODS PER DISCONTINUOUS FOUNDATION STRIP. PIPES SHOULD PENETRATE INTO SOIL AND/OR PAVING A MIN. OF 12" MEASURED VERTICALLY. PER DSA IR 16-1

PROJECT SPECIFIC STATE AGENCY APPROVAL



PROFESSIONAL STAMP

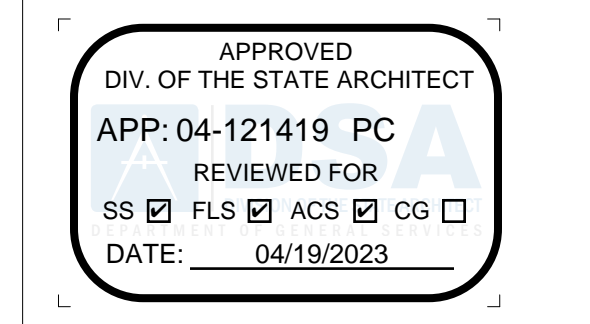


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Revision Schedule

#	Description	Date
22079		

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE

RAMPS PC
CLASS LEASING
PC#04-121419

SHEET TITLE

Foundation Plan

PROJECT NUMBER

22079

DRAWN BY

SM

CHECKED BY

rMc

DATE

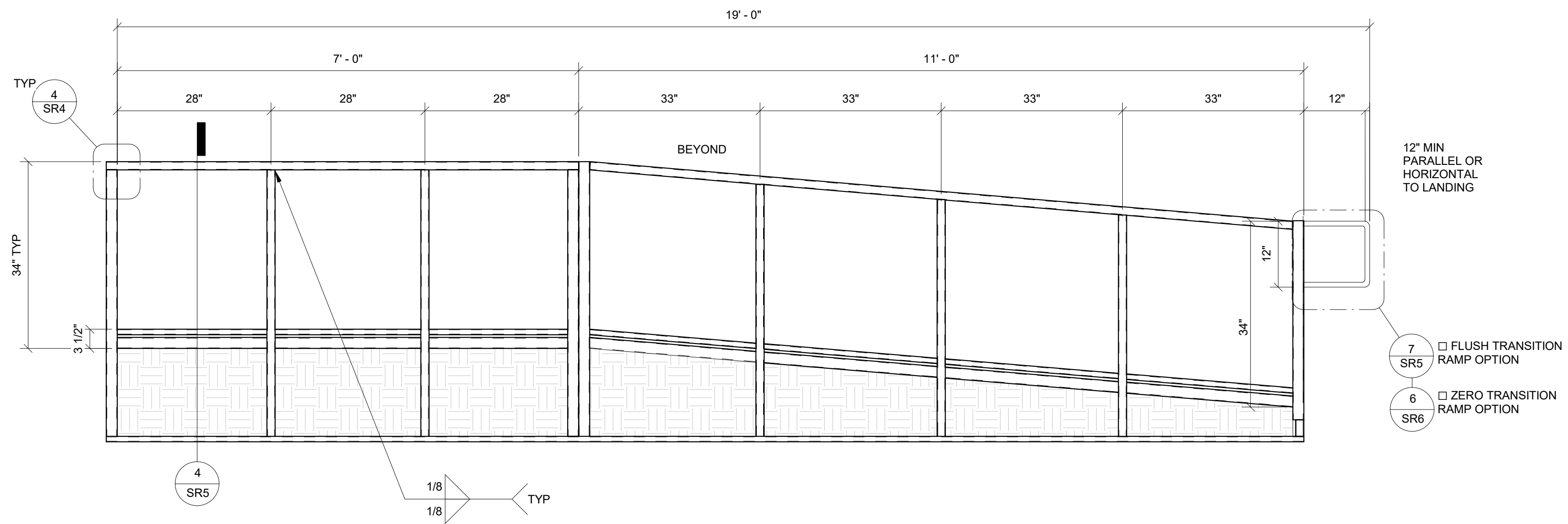
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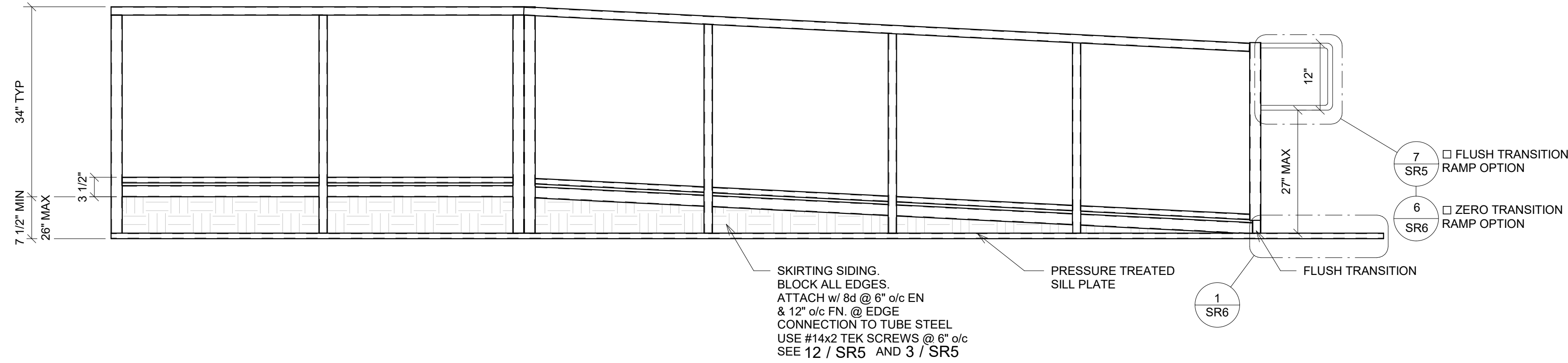
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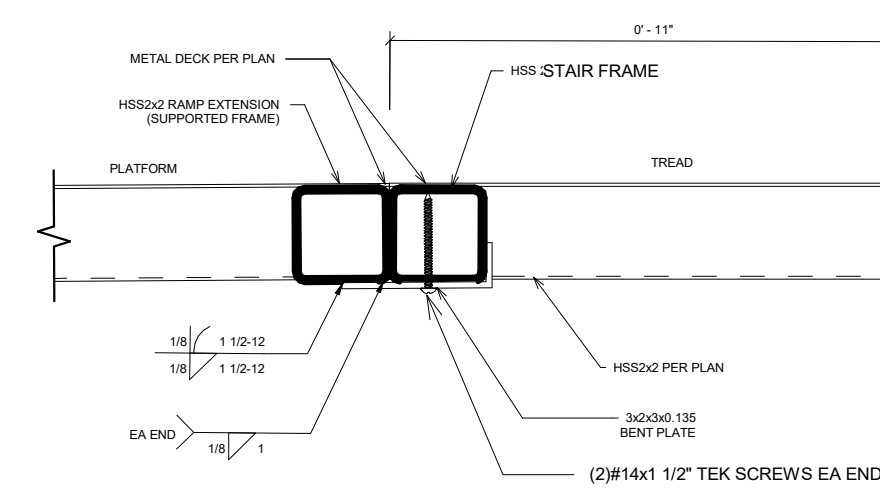
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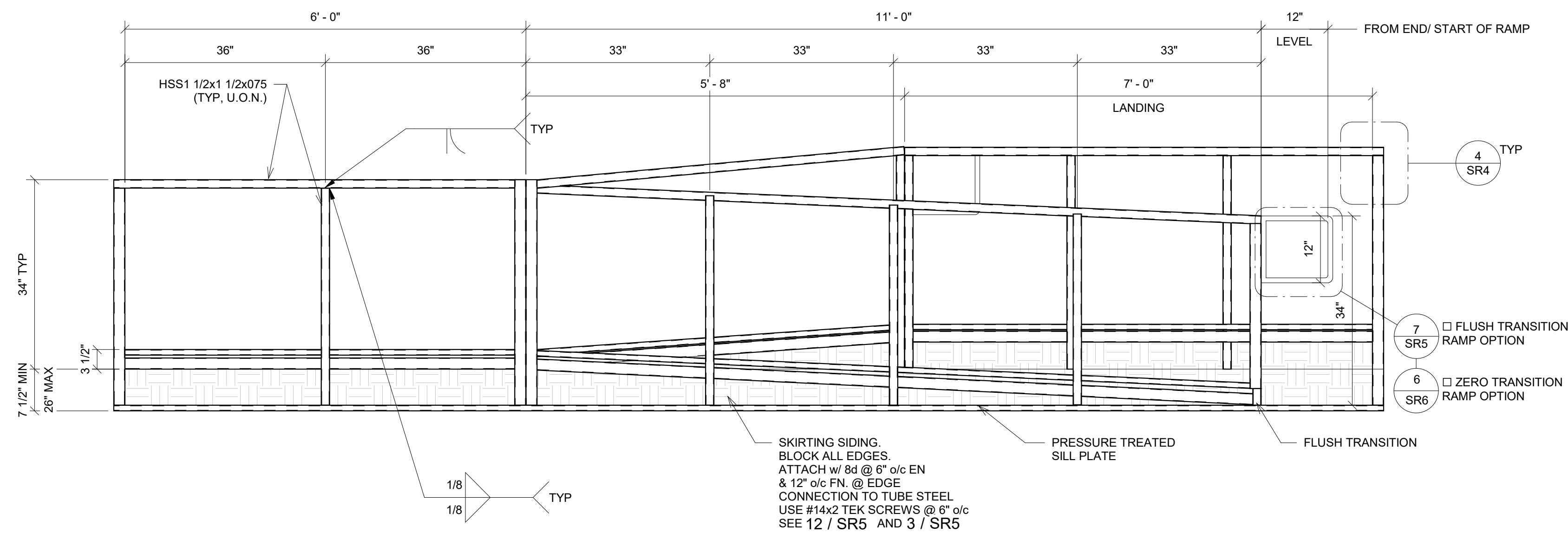
1 3/4" = 1'-0"
Ramp & Landing Elevation



2 3/4" = 1'-0"
Ramp & Landing Elevation Option X Copy 1

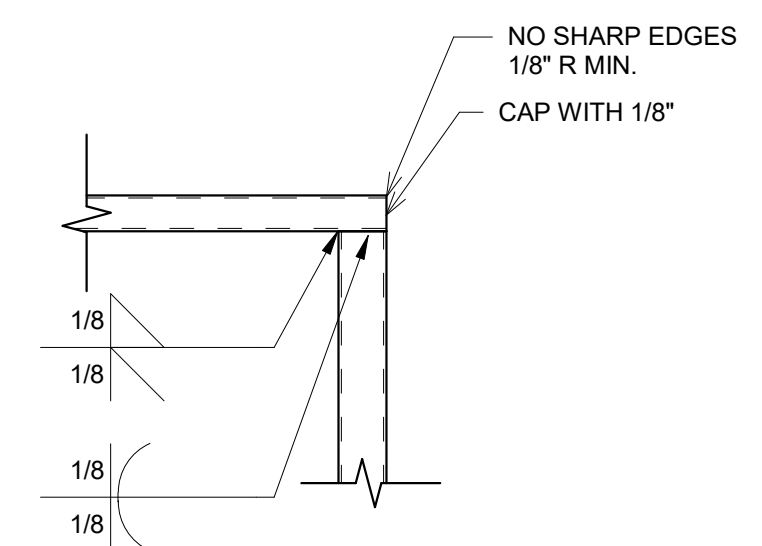


5 3" = 1'-0"
Conn @ Platform



3 3/4" = 1'-0"
Ramp & Landing Elevation Option X

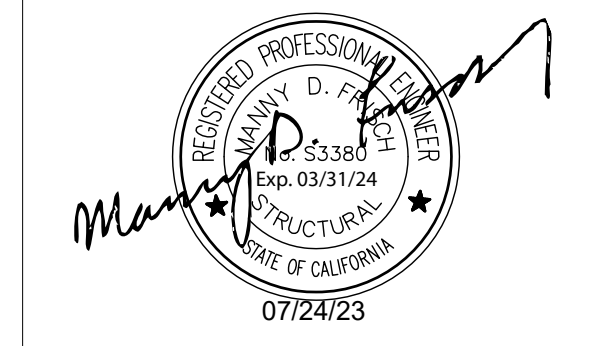
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Ramp & Landing Elevation Option X1 - Callout 1



PROJECT SPECIFIC STATE AGENCY APPROVAL



PROFESSIONAL STAMP

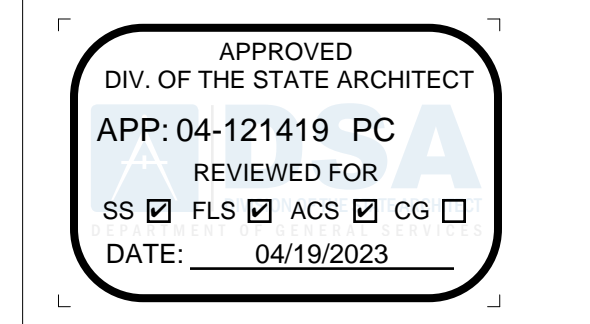


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Revision Schedule

#	Description	Date
22079		

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
RAMPS PC
CLASS LEASING
PC#04-121419

SHEET TITLE
Ramp and Landing / Stair Framing Elevation

PROJECT NUMBER
22079

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SM

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rMc

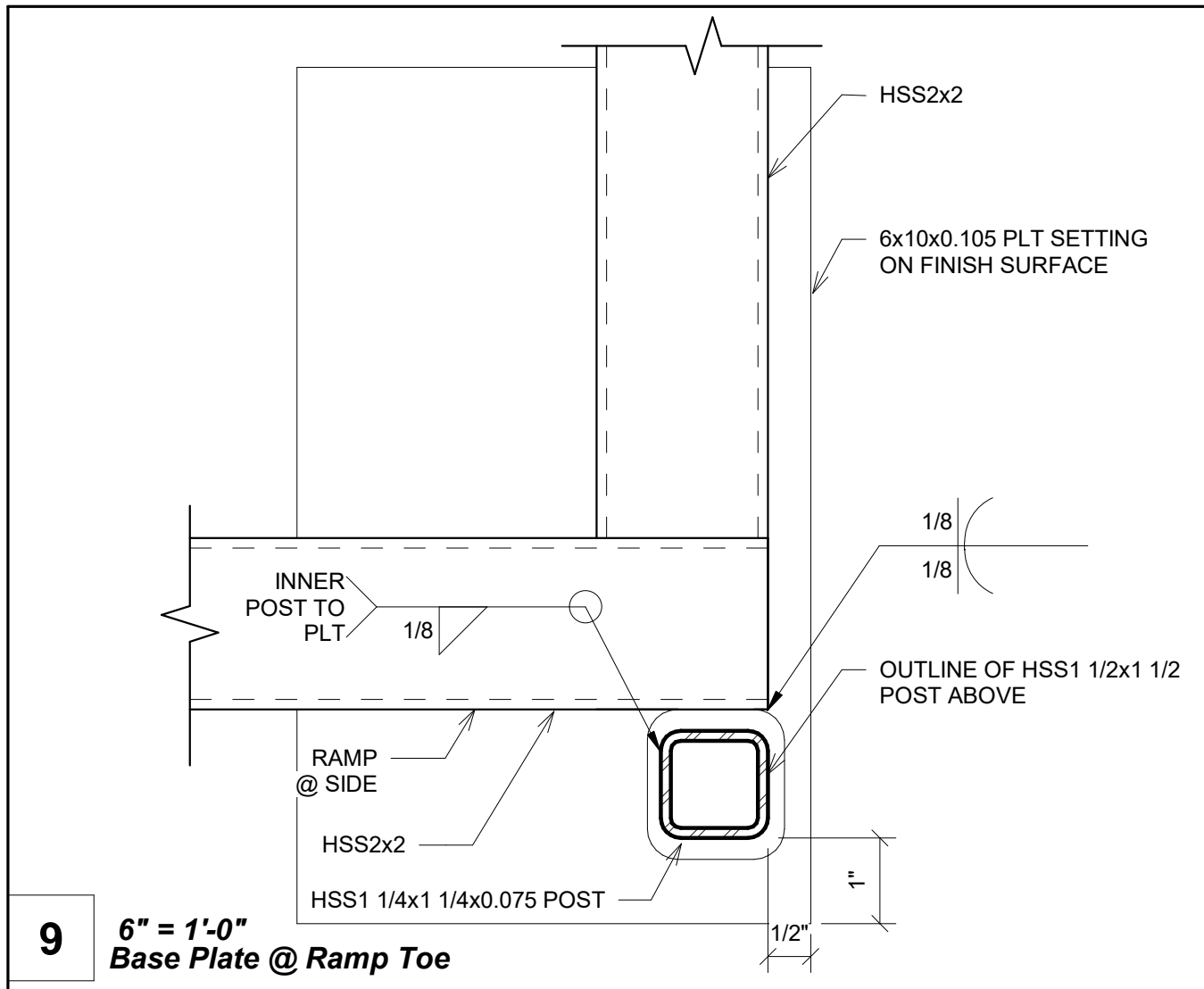
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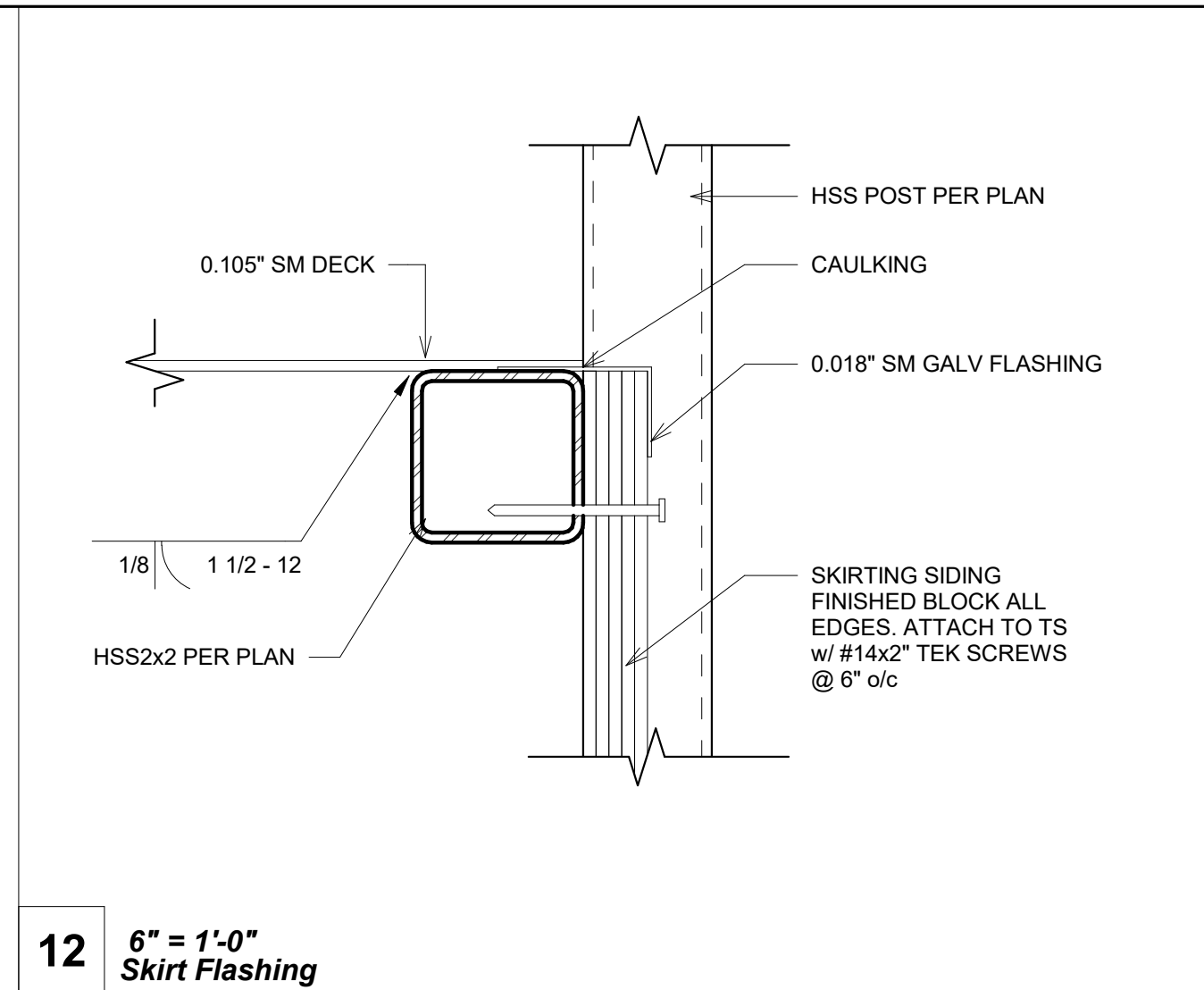
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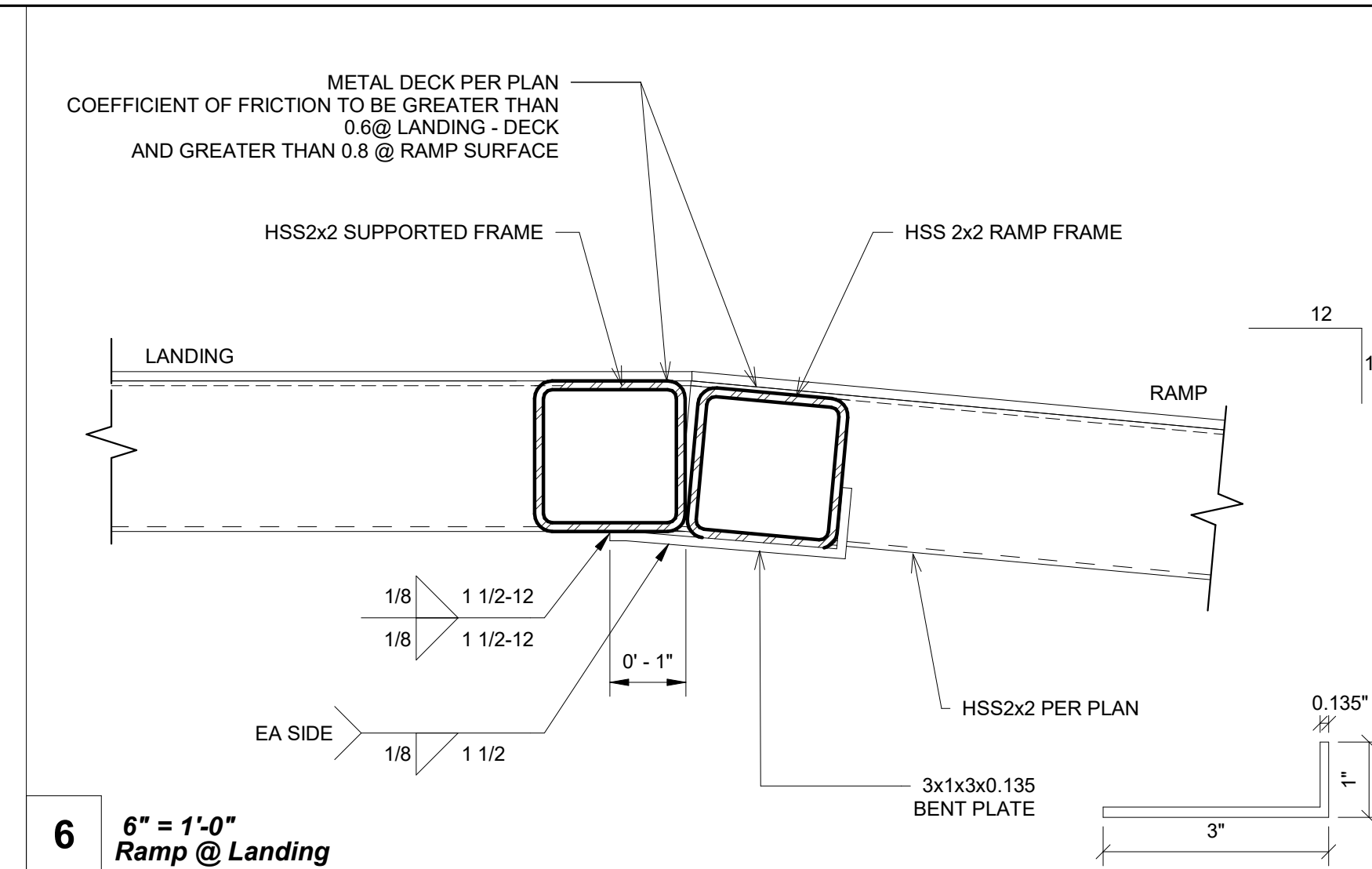
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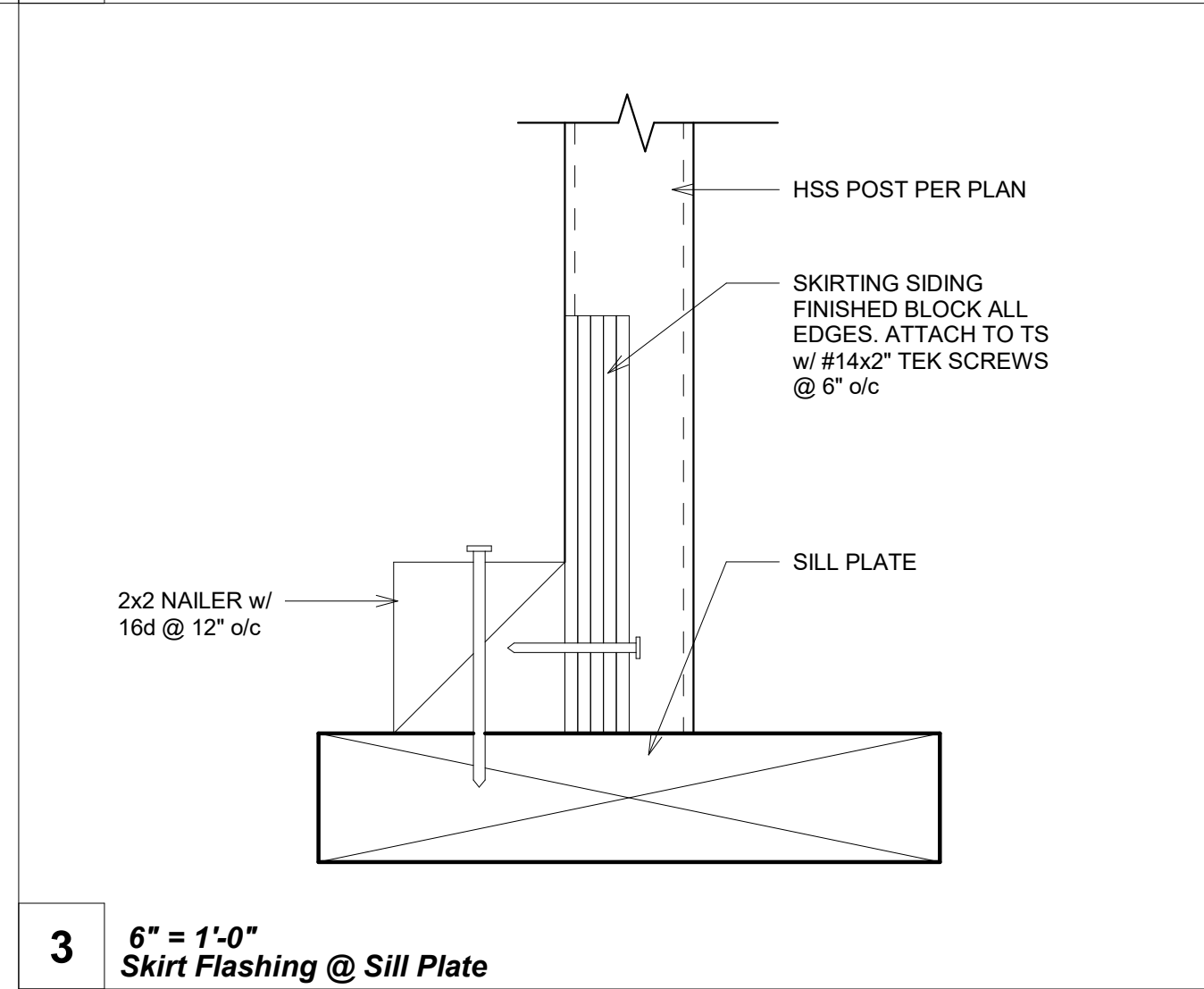
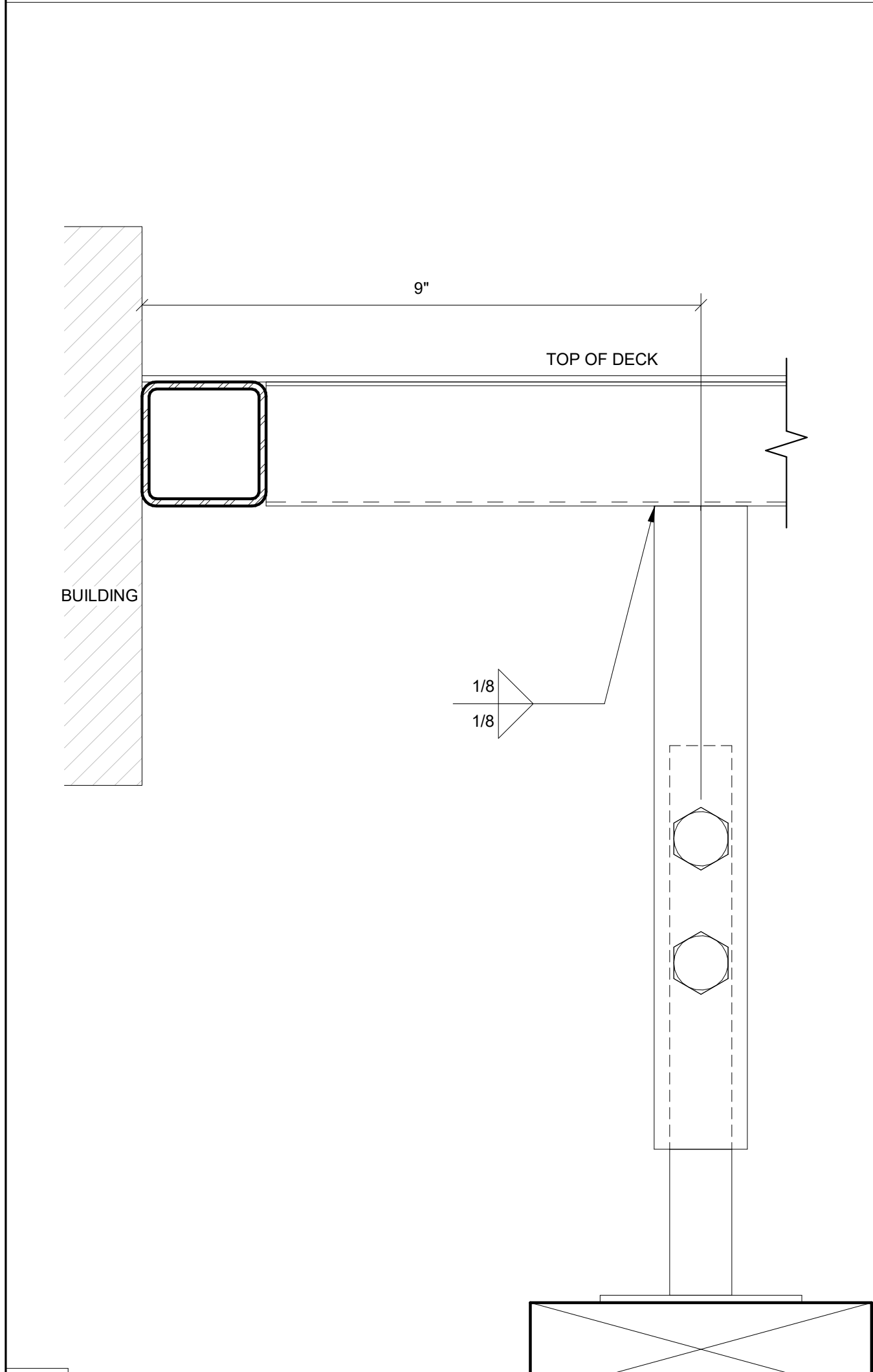
9 6" = 1'-0" Base Plate @ Ramp Toe



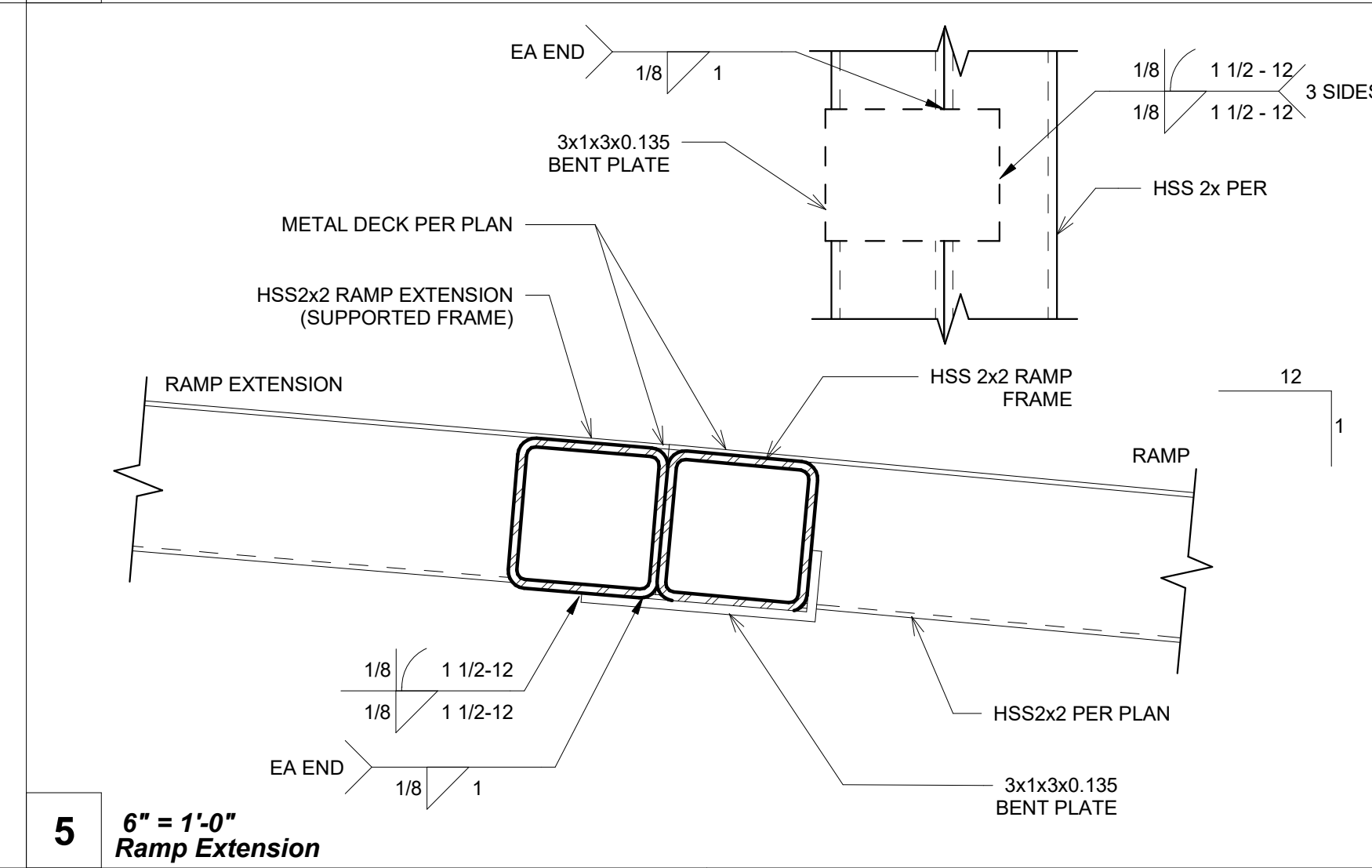
12 6" = 1'-0" Skirt Flashing



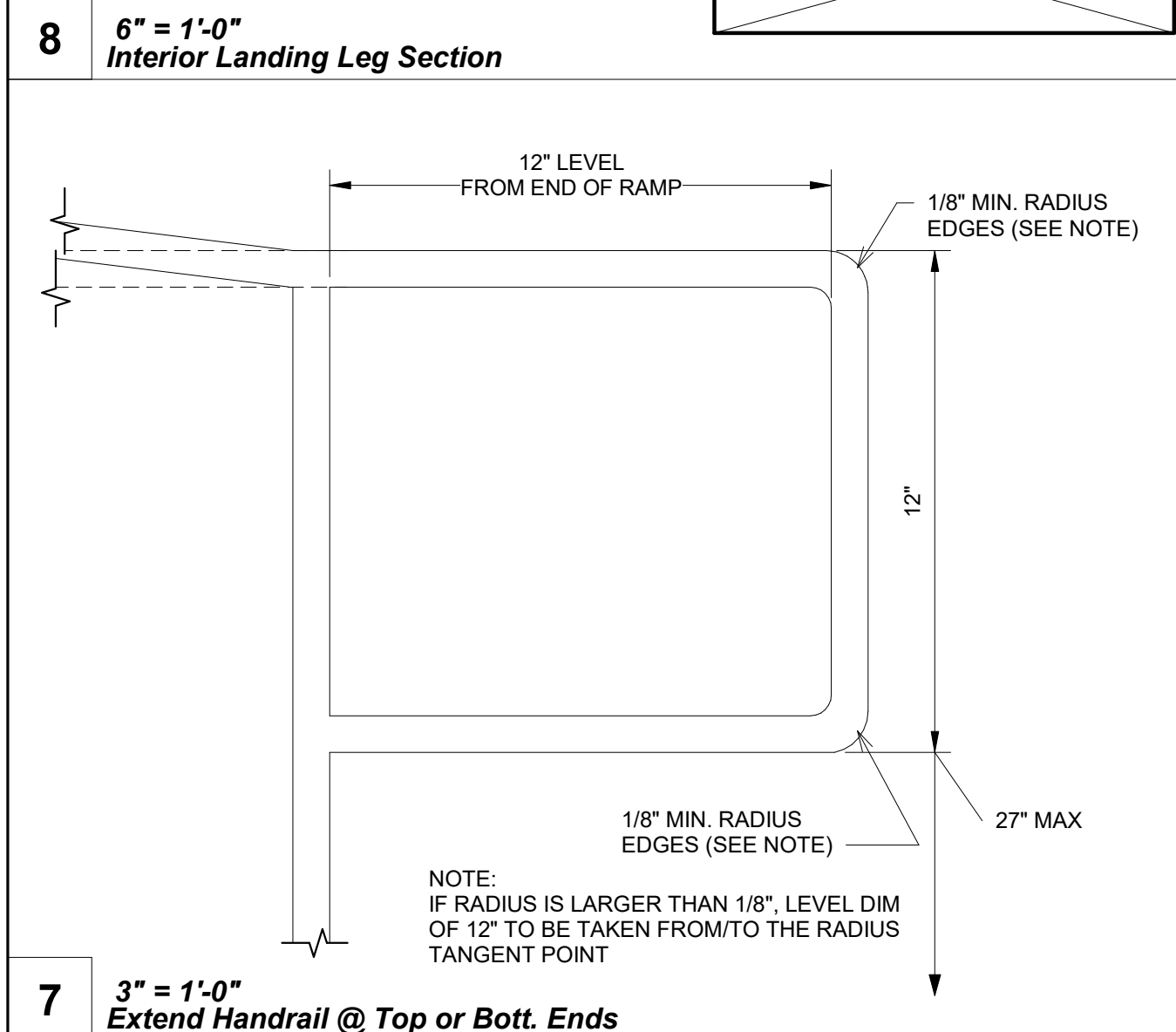
6 6" = 1'-0" Ramp @ Landing



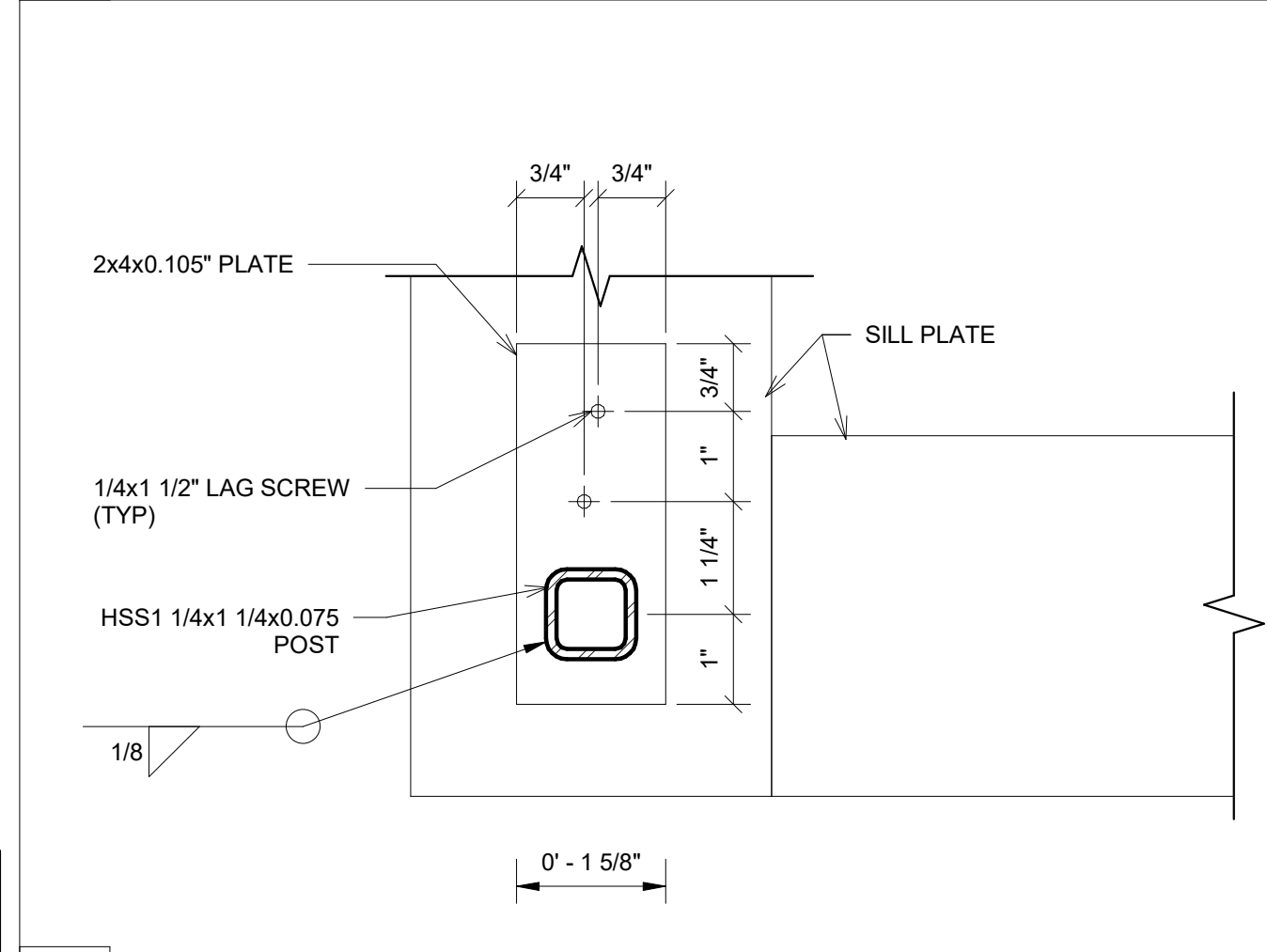
3 6" = 1'-0" Skirt Flashing @ Sill Plate



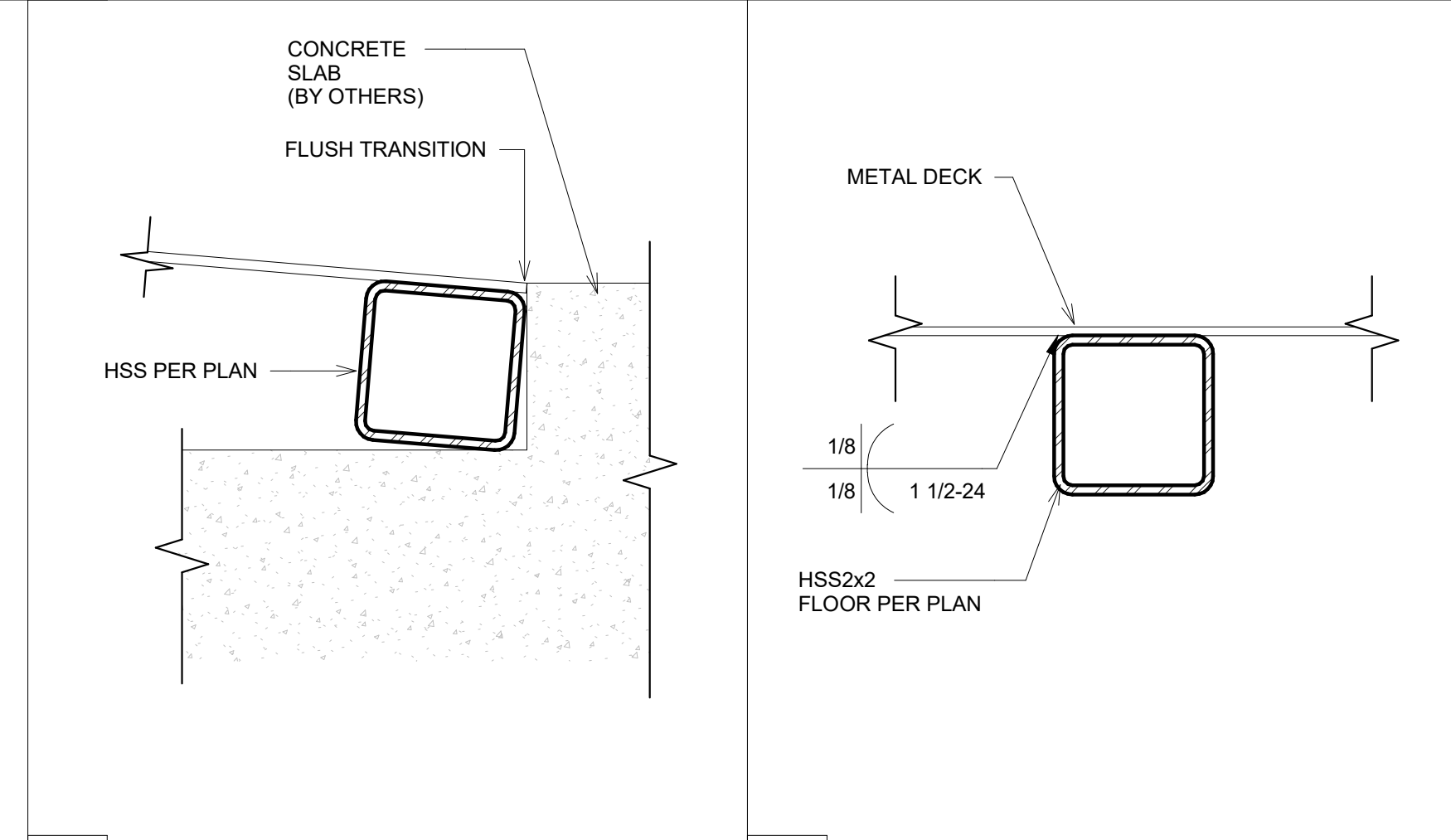
5 6" = 1'-0" Ramp Extension



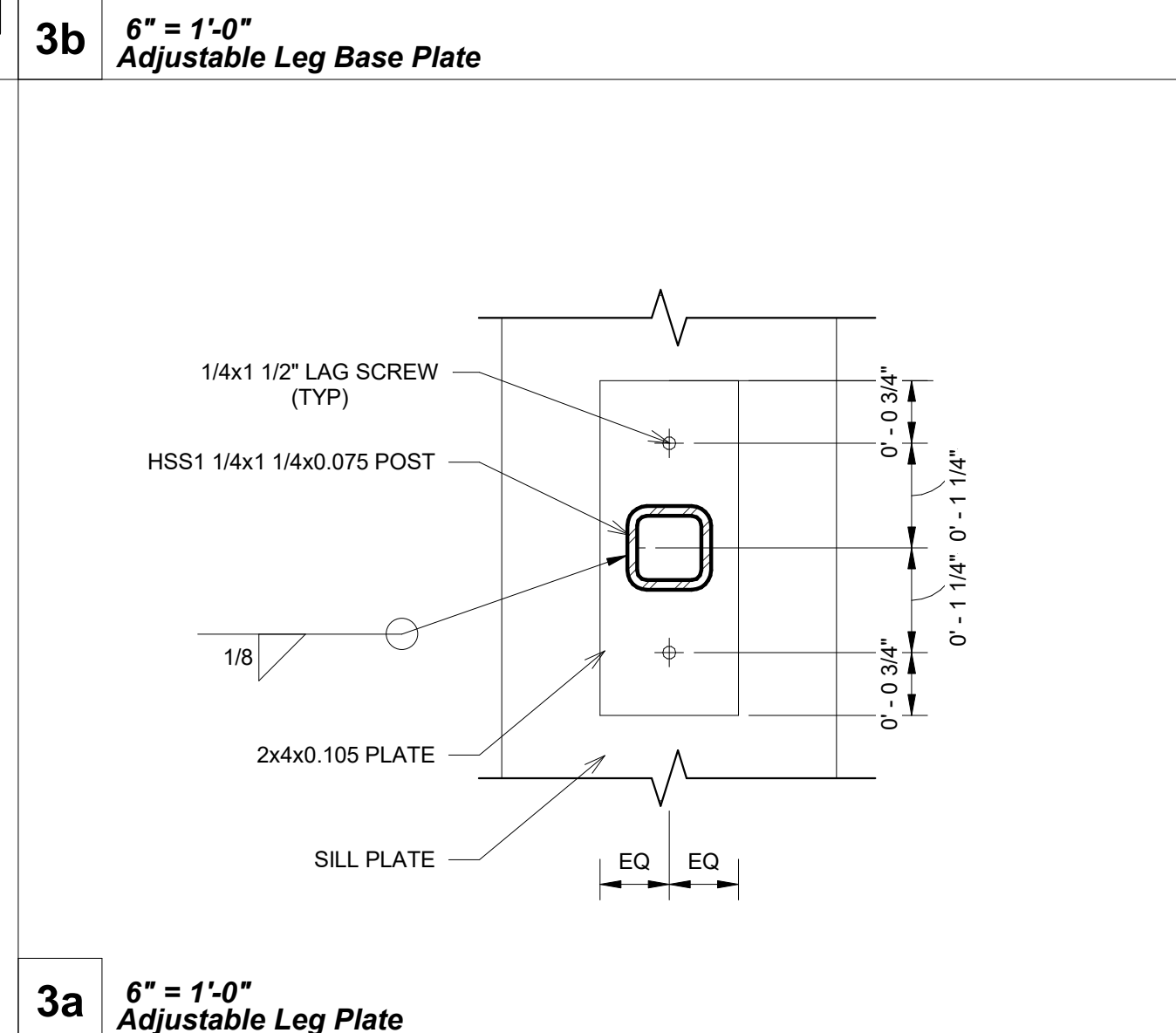
8 6" = 1'-0" Interior Landing Leg Section



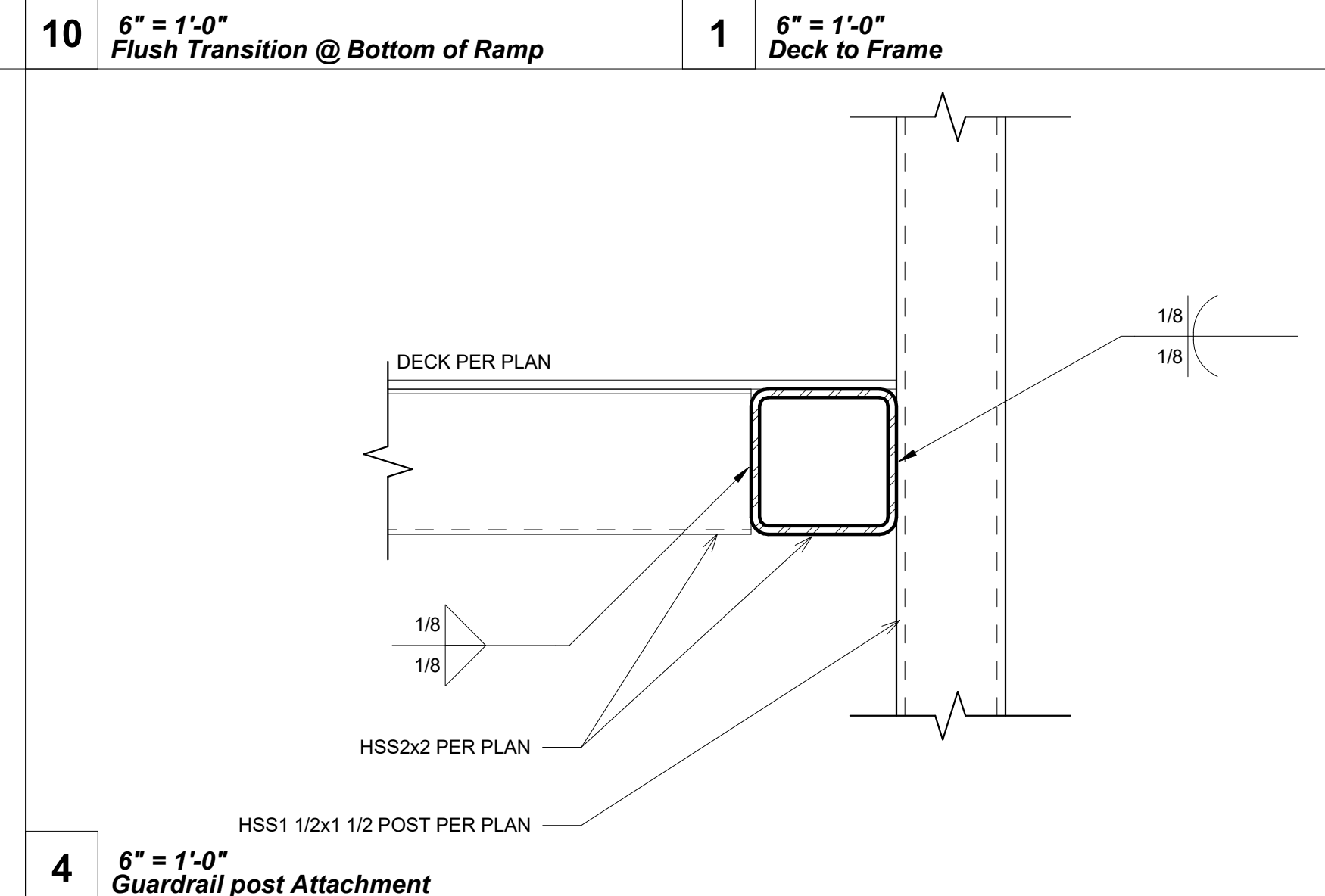
10b 6" = 1'-0" Adjustable Leg Base Plate



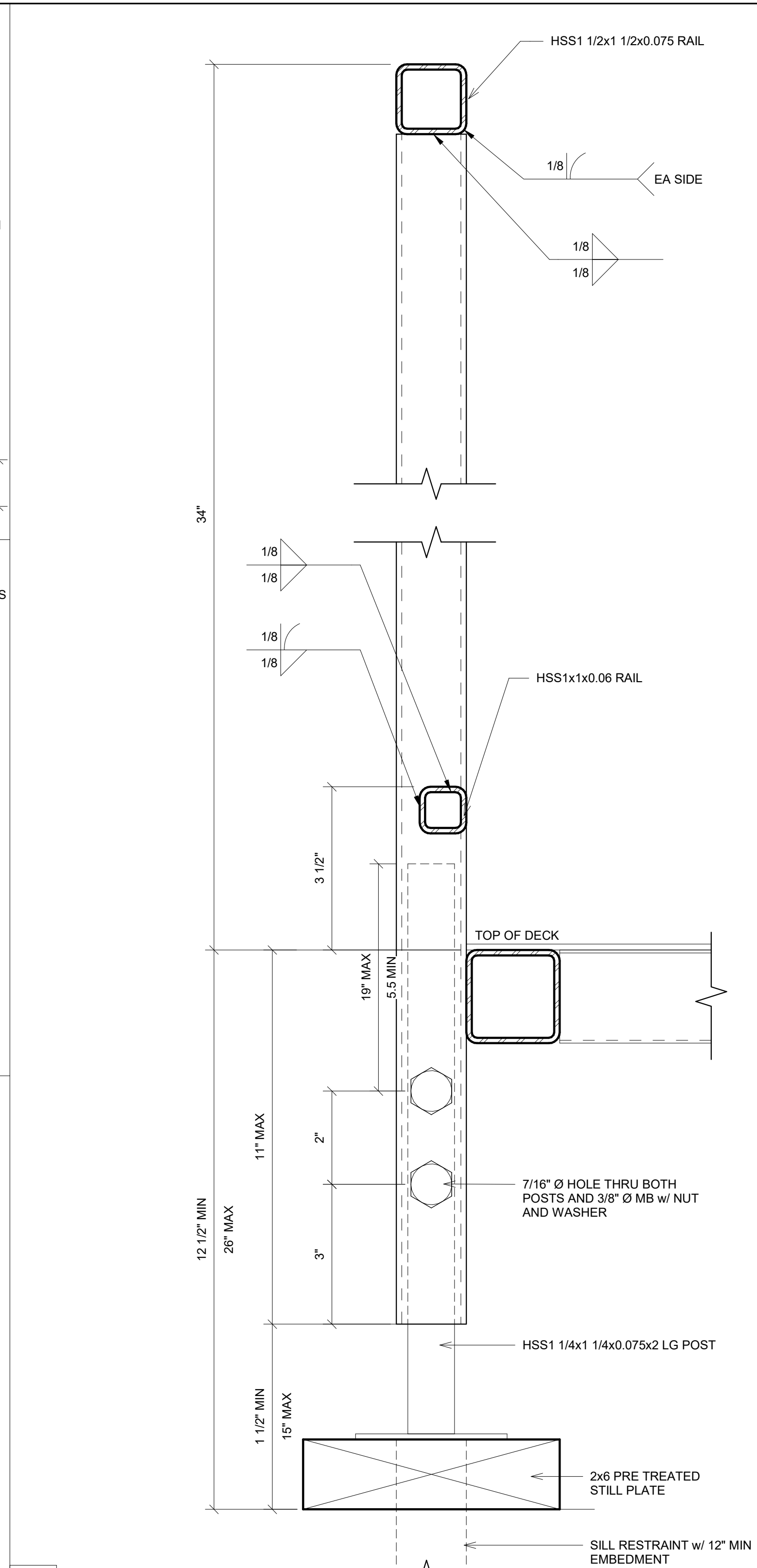
1 6" = 1'-0" Deck to Frame



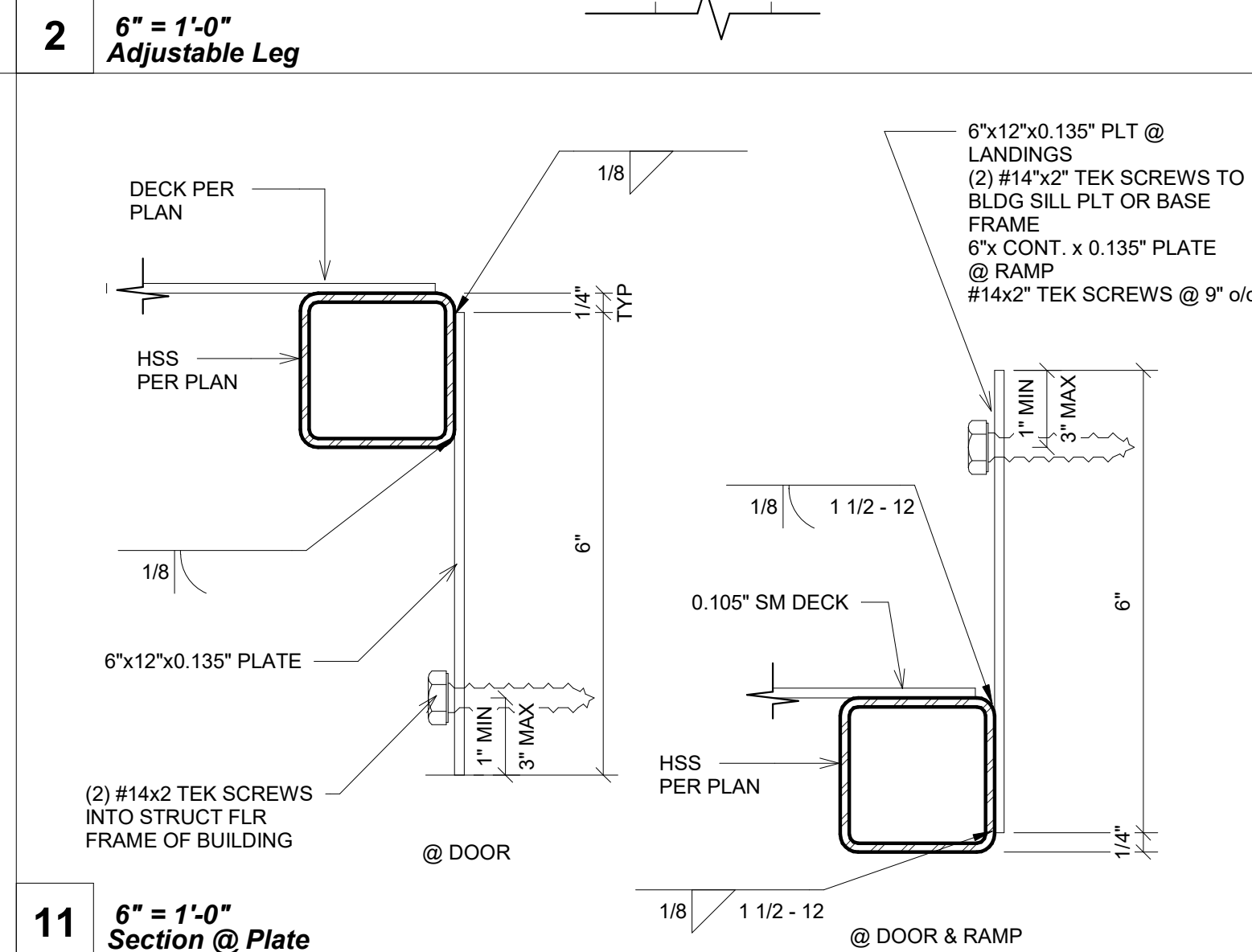
3a 6" = 1'-0" Adjustable Leg Plate



4 6" = 1'-0" Guardrail post Attachment

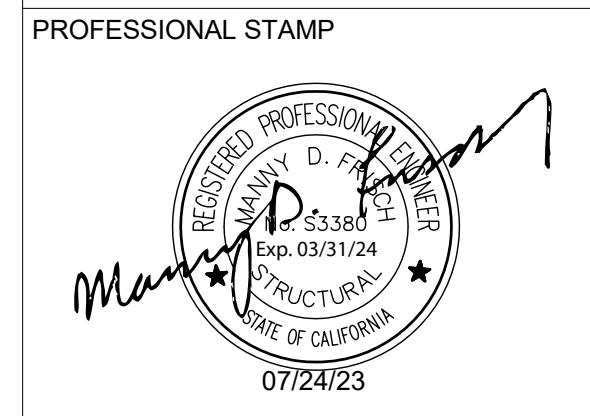


2 6" = 1'-0" Adjustable Leg

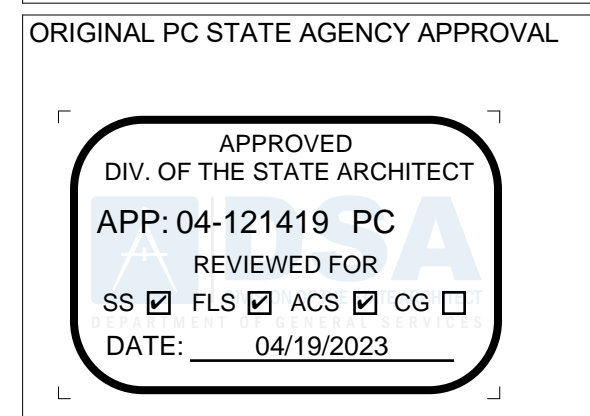


11 6" = 1'-0" Section @ Plate

PROJECT SPECIFIC STATE AGENCY APPROVAL



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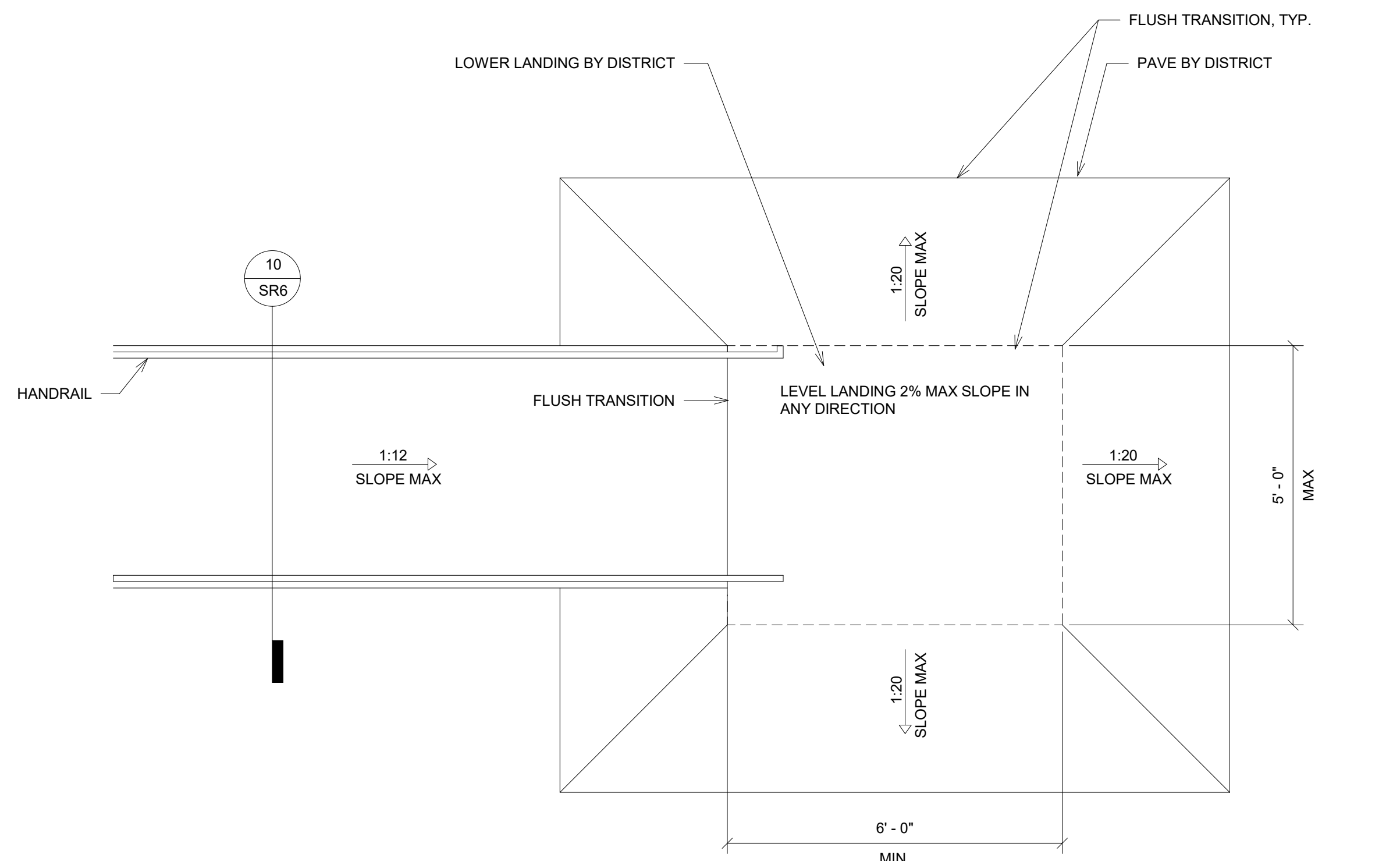
Revision Schedule		
#	Description	Date
		22079

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
RAMPS PC
CLASS LEASING
PC#04-121419

SHEET TITLE
Ramp Details

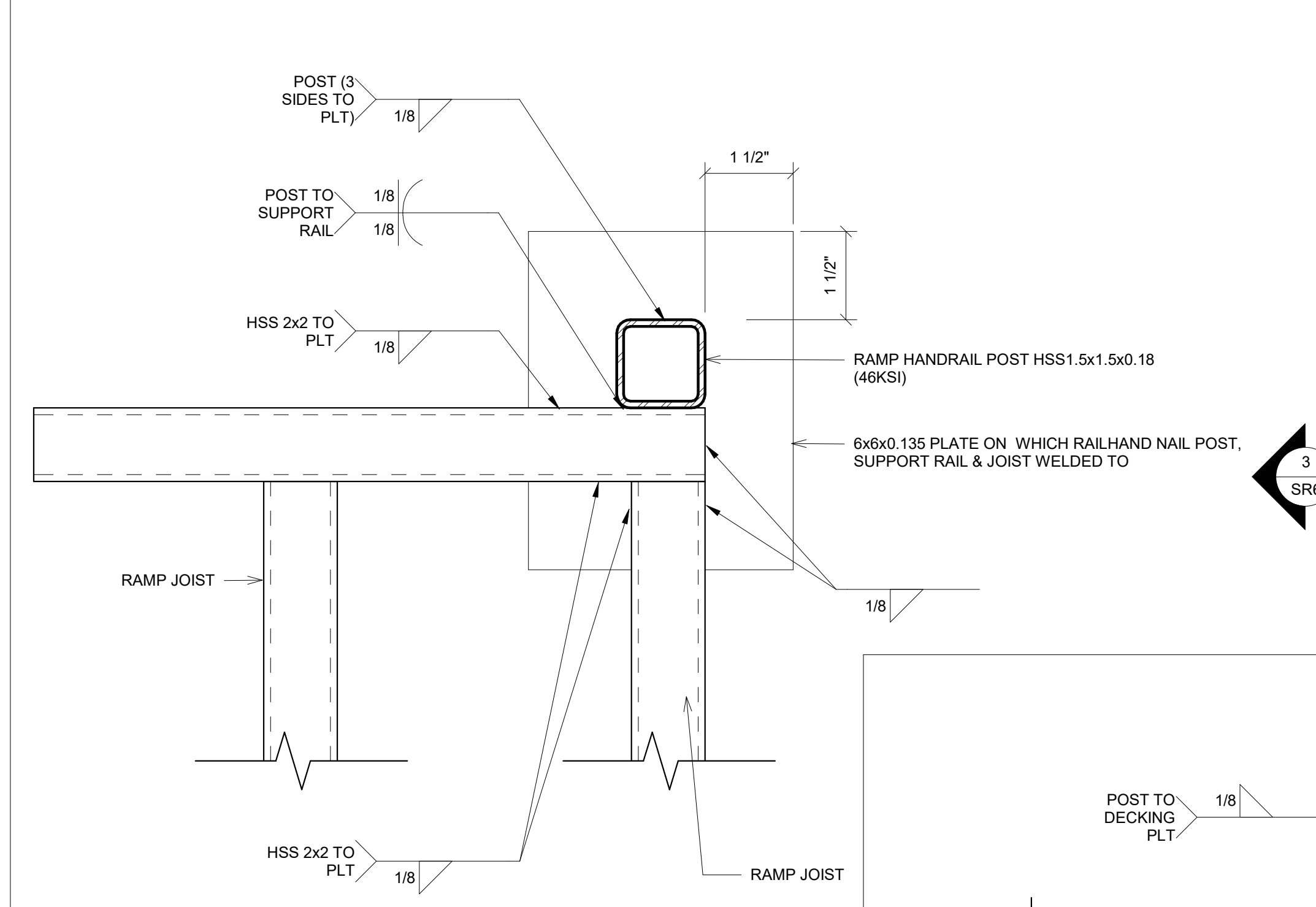
PROJECT NUMBER: 22079
DRAWN BY: SM
CHECKED BY: rMc
DATE: 12/23/2022
SHEET NO.: **SR5**
SHEET OF



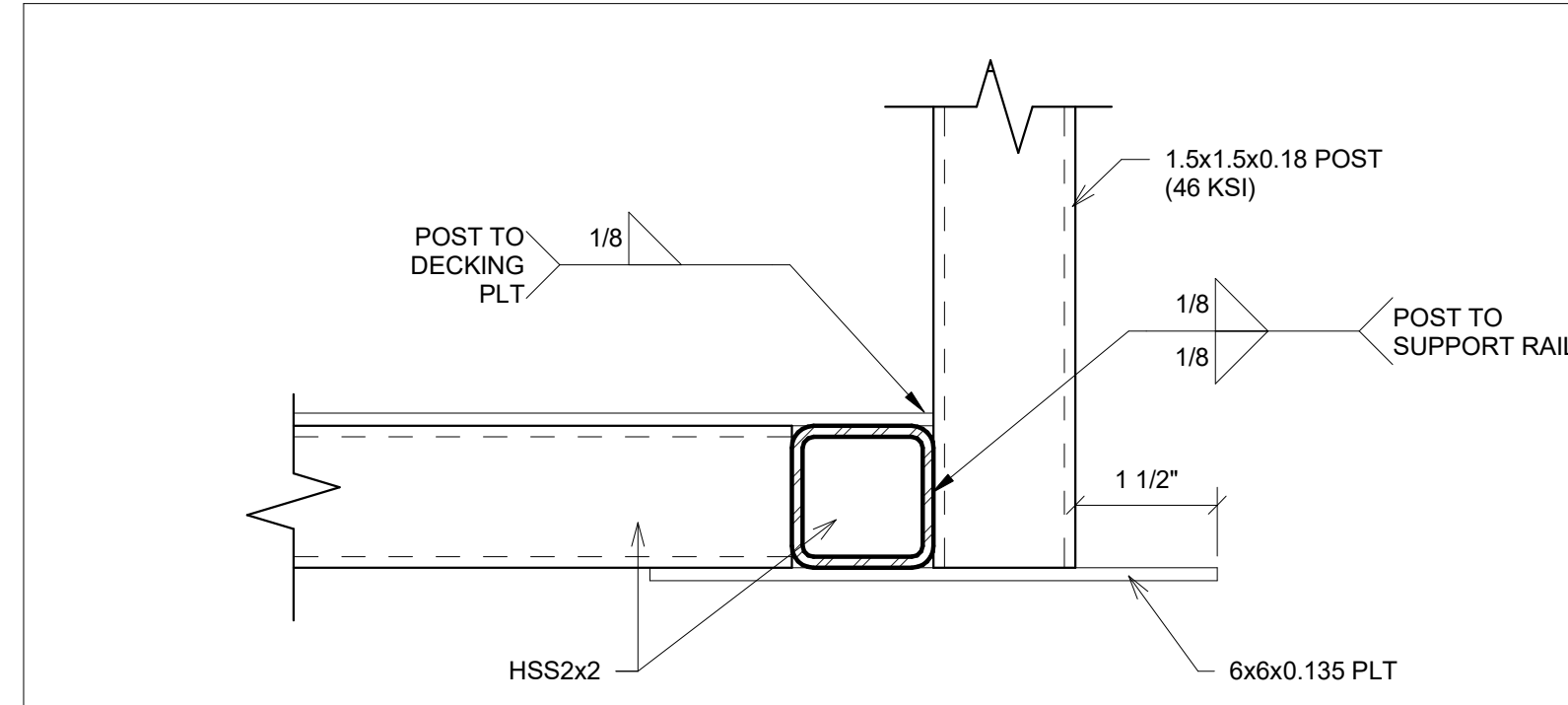
NOTE:
 1. 1:20 TRANSITION OFF OF LOWER LANDING REQUIRES NO HANDRAIL.
 2. TRANSITIONS EXCEEDING 1:20 BUT NOT EXCEED 1:12 REQUIRE REMOVAL OF 12" HANDRAIL EXTENSION AND ADDITIONAL HANDRAILING BY DISTRICT. (THIS CONDITION REQUIRES A SITE SPECIFIC DETAIL PROVIDED BY ARCHITECT TO DEMONSTRATE ACCESSIBLE RAMP)

LANDING TO BE DESIGNED TO NOT RETAIN STANDING WATER 1% 1% 2.083 MAX SLOPE

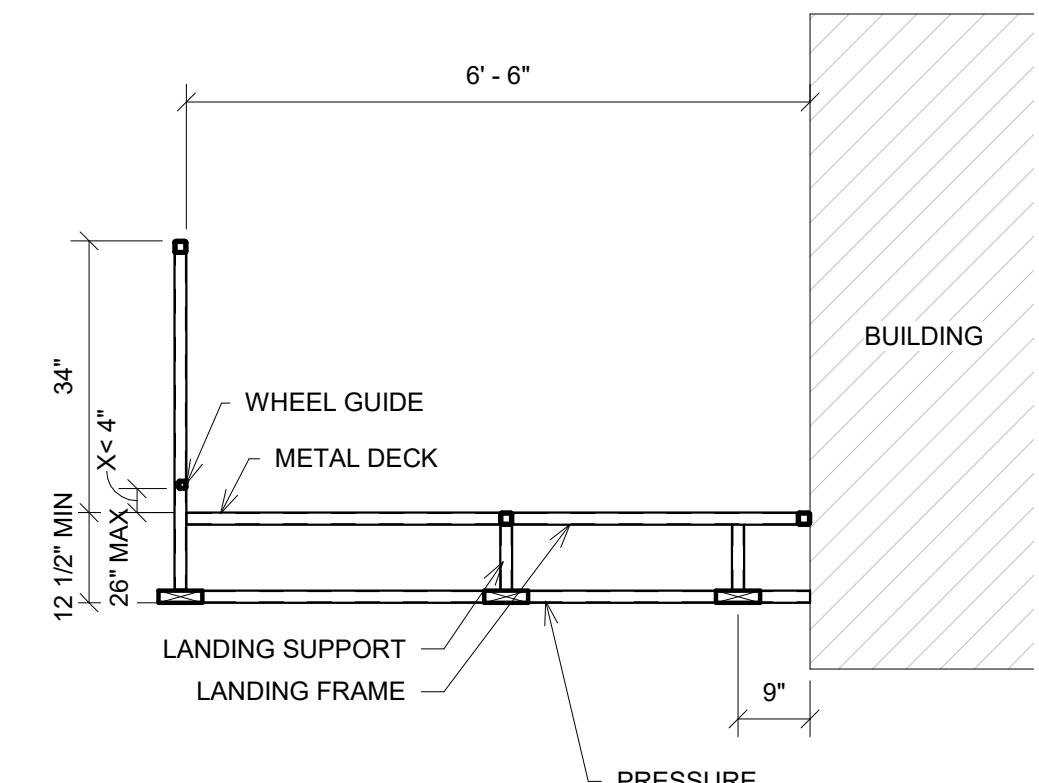
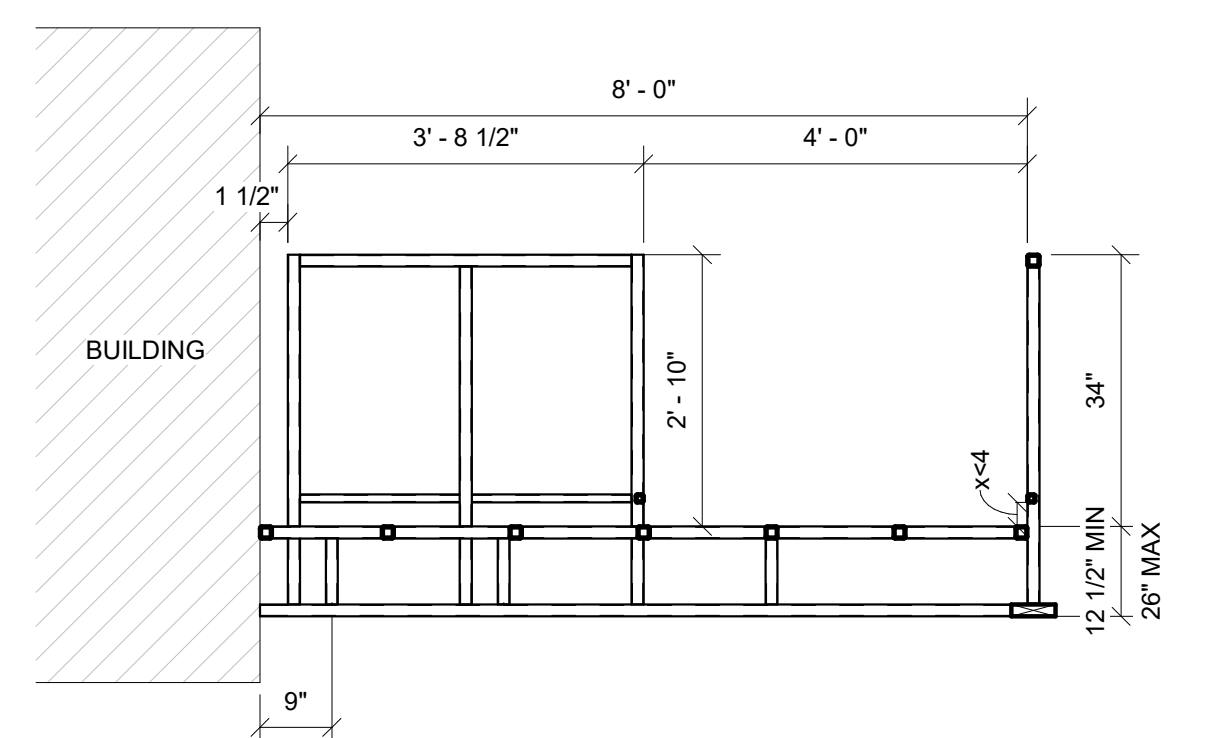
7 1/2" = 1'-0" Ramp Transition



2 6" = 1'-0" Base Plt @ Ramp Toe For Zero Transition

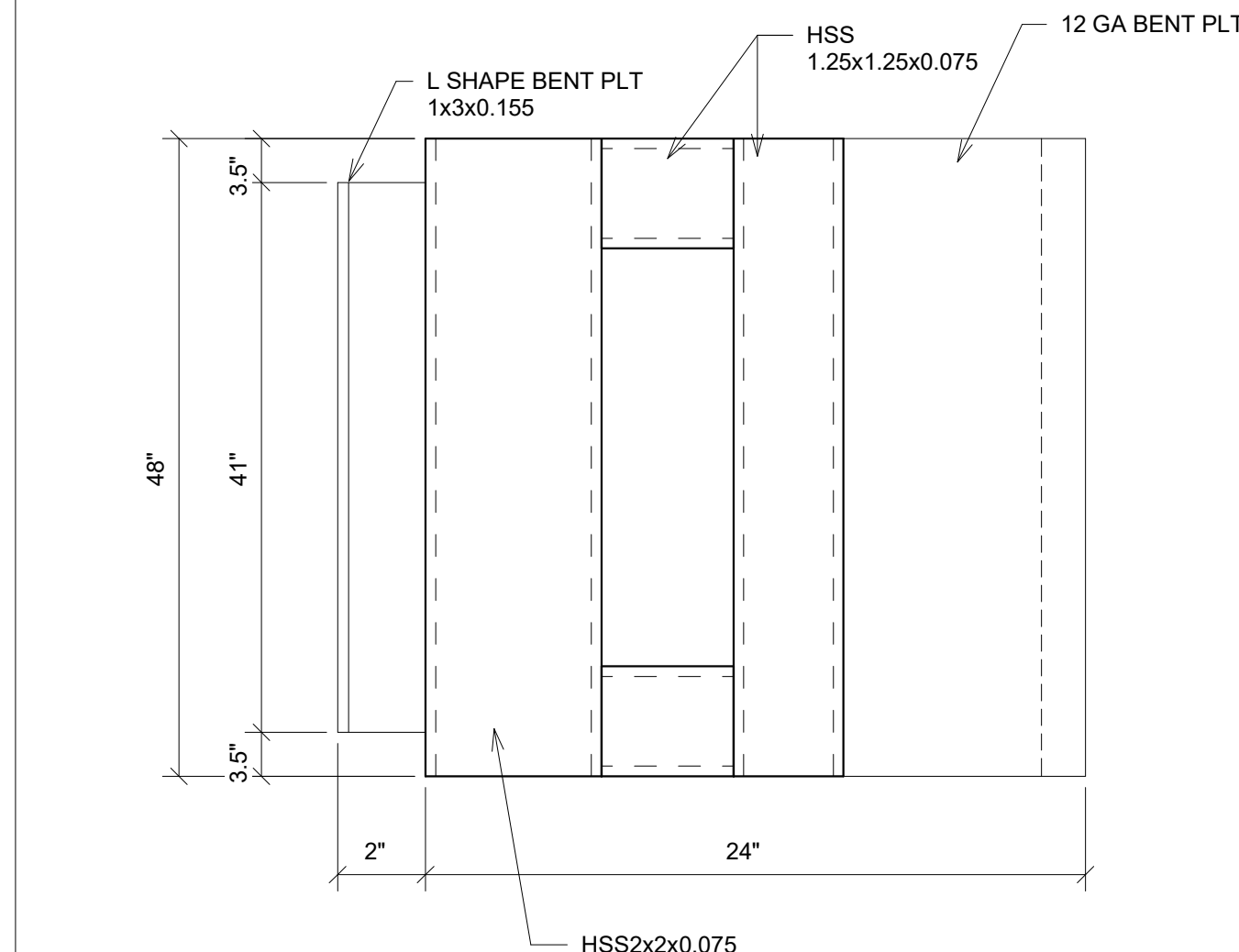


3 6" = 1'-0" Base Plt @ Ramp Toe Low Zero Side View

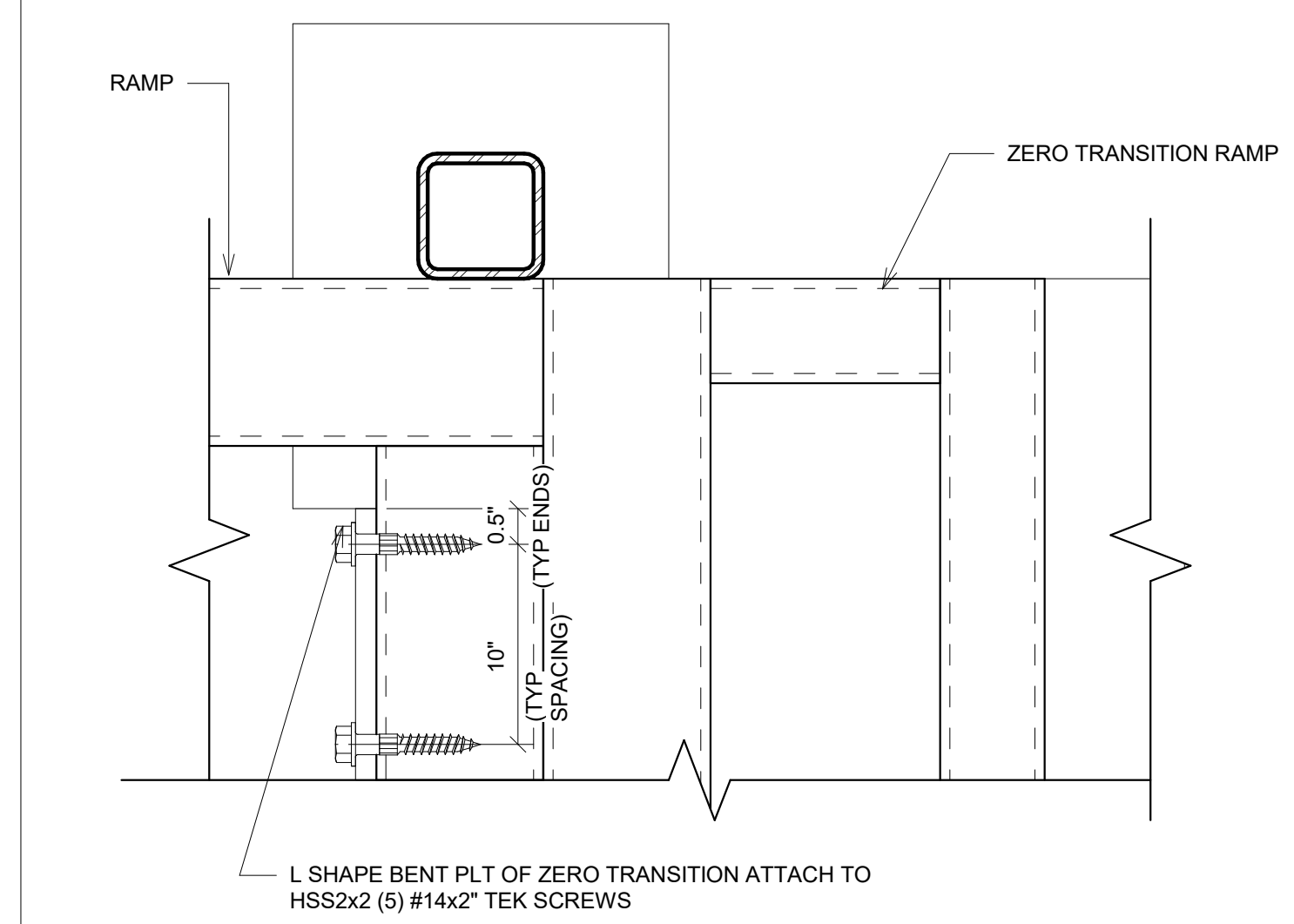


8 1/2" = 1'-0" Section @ Landing

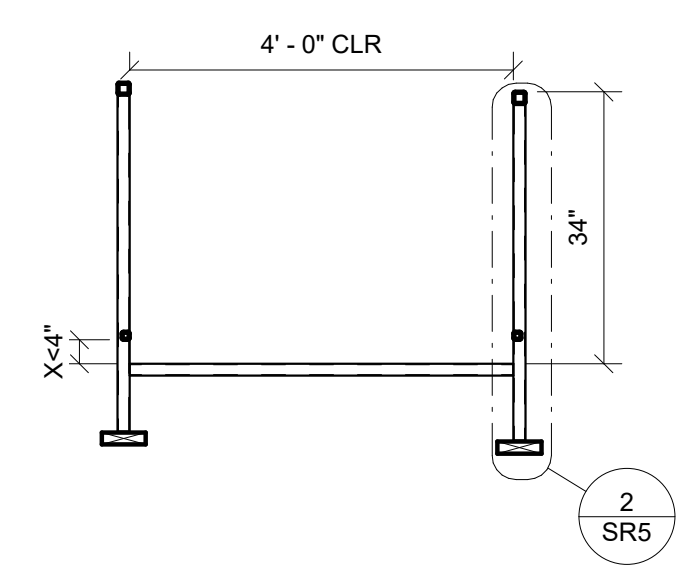
9 1/2" = 1'-0" Section @ Landing



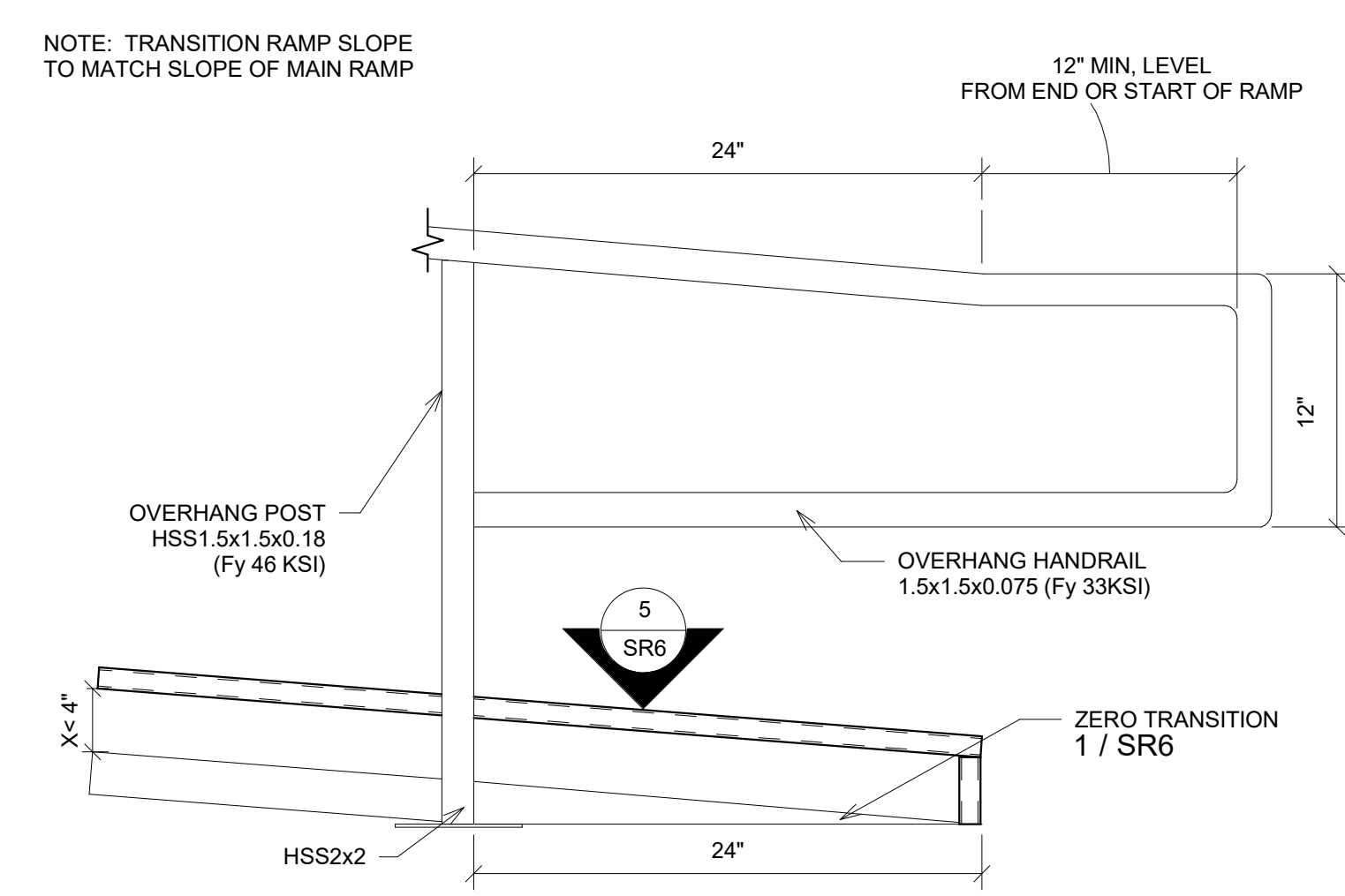
4 6" = 1'-0" Top View Ramp Zero Transition



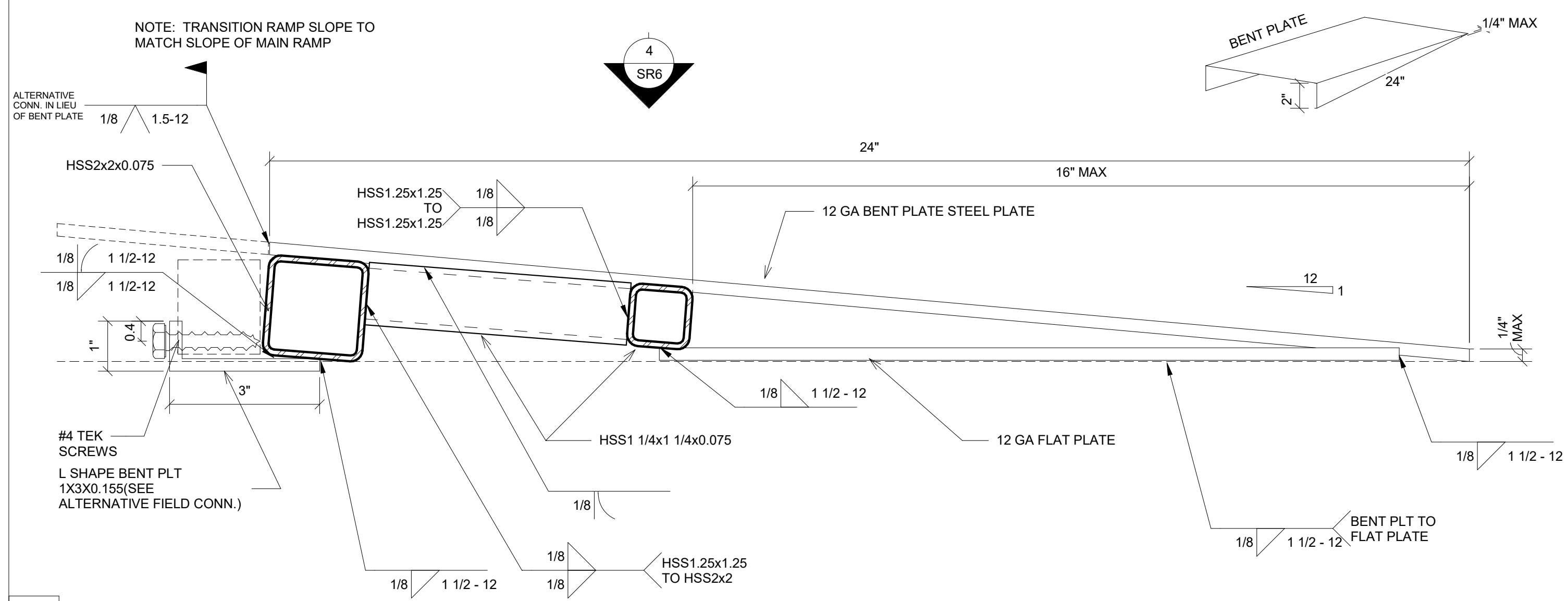
5 6" = 1'-0" Zero Transition Ramp Connection



10 1/2" = 1'-0" Section @ Ramp



6 1 1/2" = 1'-0" Extend Handrail @ Bottom End For Zero Transition Ramp

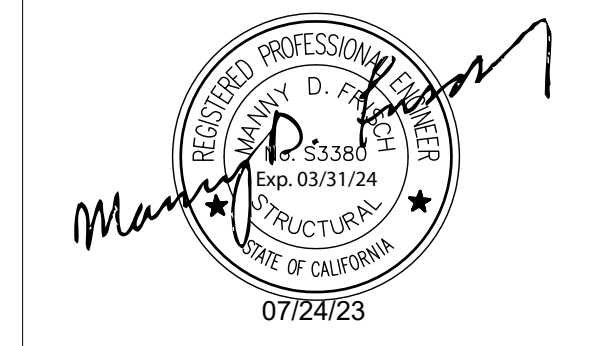


1 6" = 1'-0" Zero Transition Ramp

PROJECT SPECIFIC STATE AGENCY APPROVAL



PROFESSIONAL STAMP

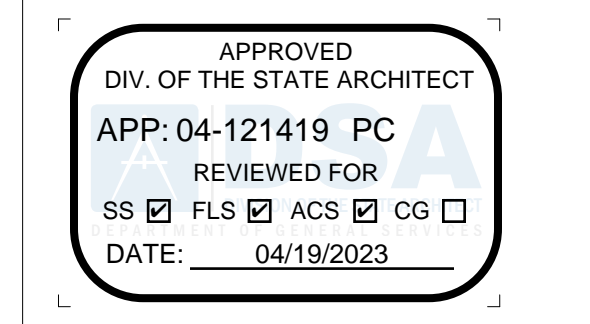


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CLIENT



ORIGINAL PC STATE AGENCY APPROVAL



Revision Schedule

#	Description	Date
22079		

PRE-CHECK (PC) DOCUMENT
 Code: 2022 CBC
 A separate project application for construction is required

PROJECT TITLE
RAMPS PC
 CLASS LEASING
 PC#04-121419

SHEET TITLE
Ramp Details

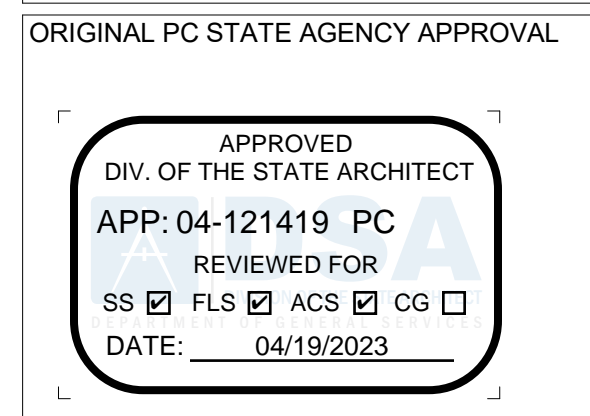
PROJECT NUMBER
 22079
 DRAWN BY
 SM
 CHECKED BY
 rMc
 DATE
 12/23/2022
 SHEET NO.
SR6

SHEET OF

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Revision Schedule

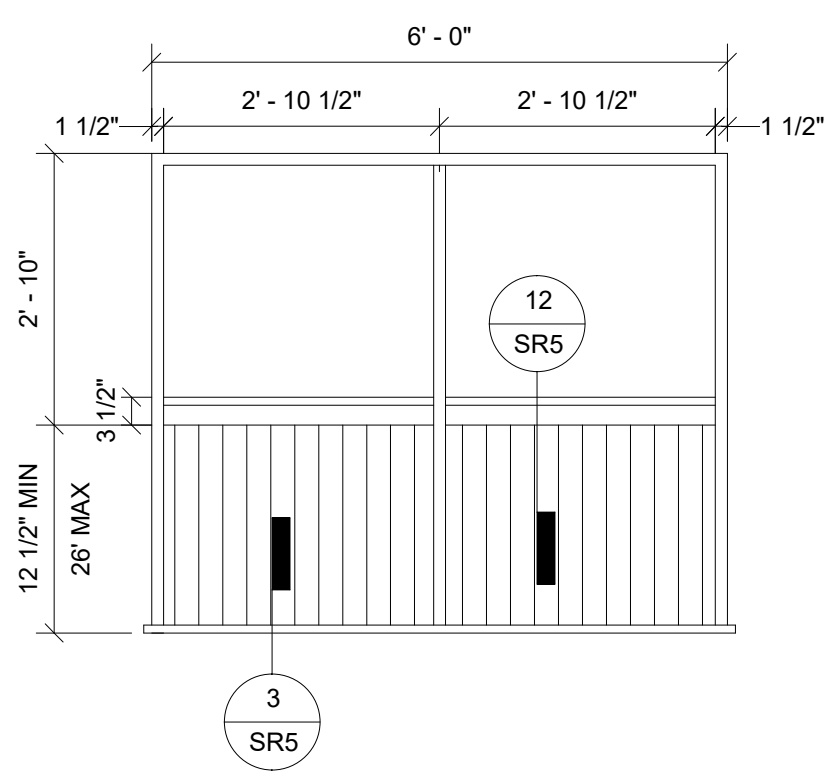
#	Description	Date
22079		

PRE-CHECK (PC) DOCUMENT
 Code: 2022 CBC
 A separate project application for construction is required

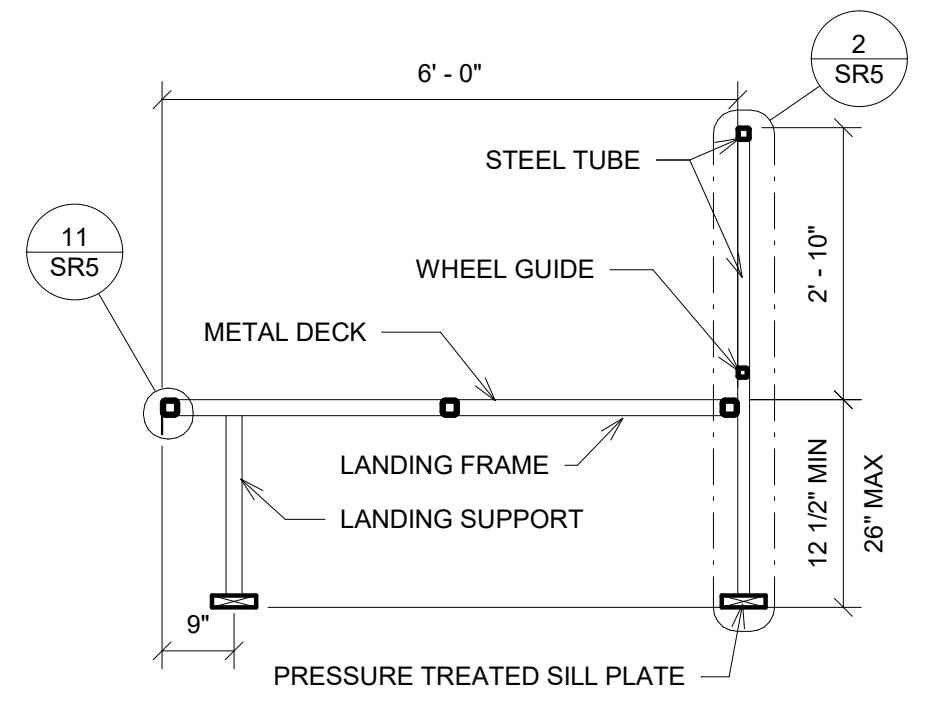
PROJECT TITLE
RAMPS PC
 CLASS LEASING
 PC#04-121419

SHEET TITLE
Stair Conn

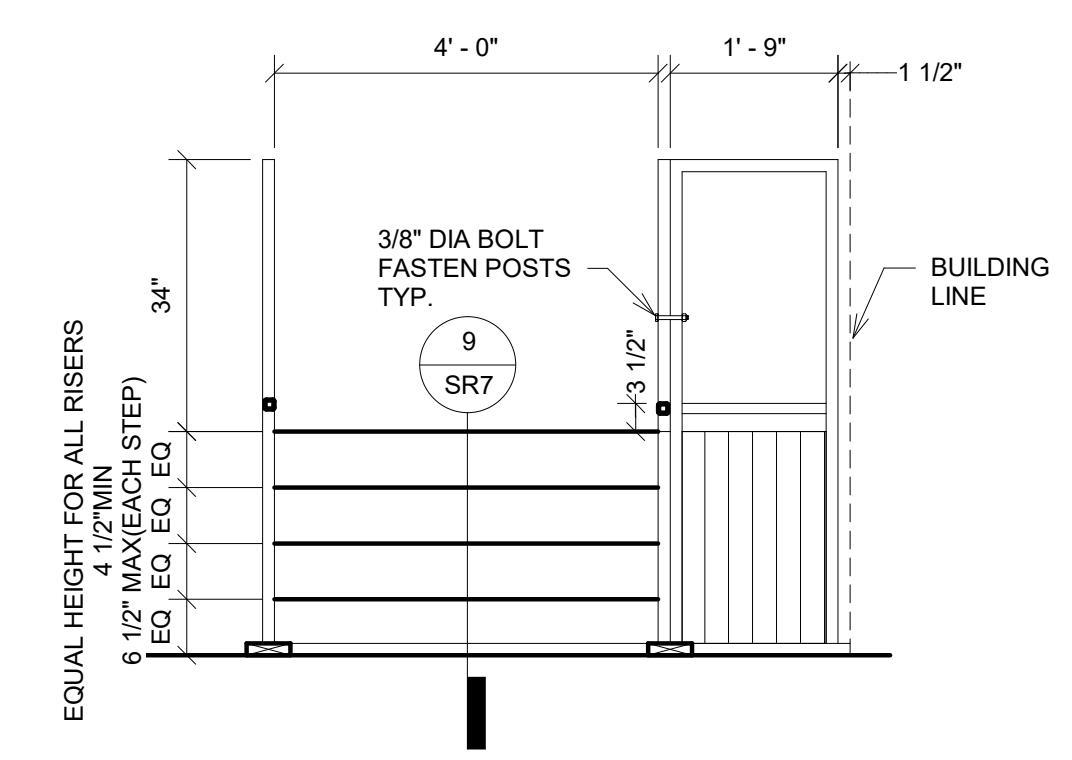
PROJECT NUMBER
 22079
 DRAWN BY
 rMc
 CHECKED BY
 BR
 DATE
 12/23/2022
 SHEET NO.
SR7



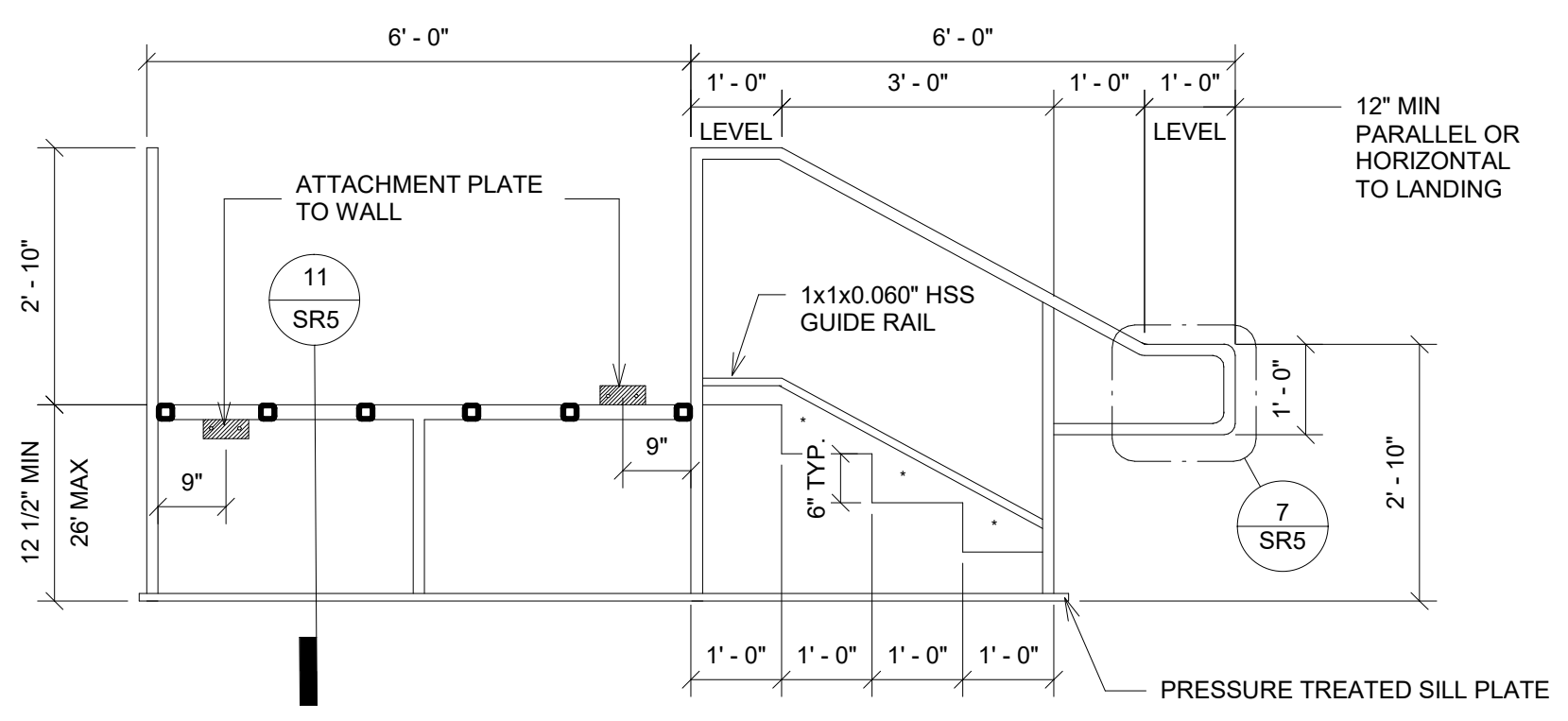
1 1/2" = 1'-0"
 LANDING ELEVATION VIEW



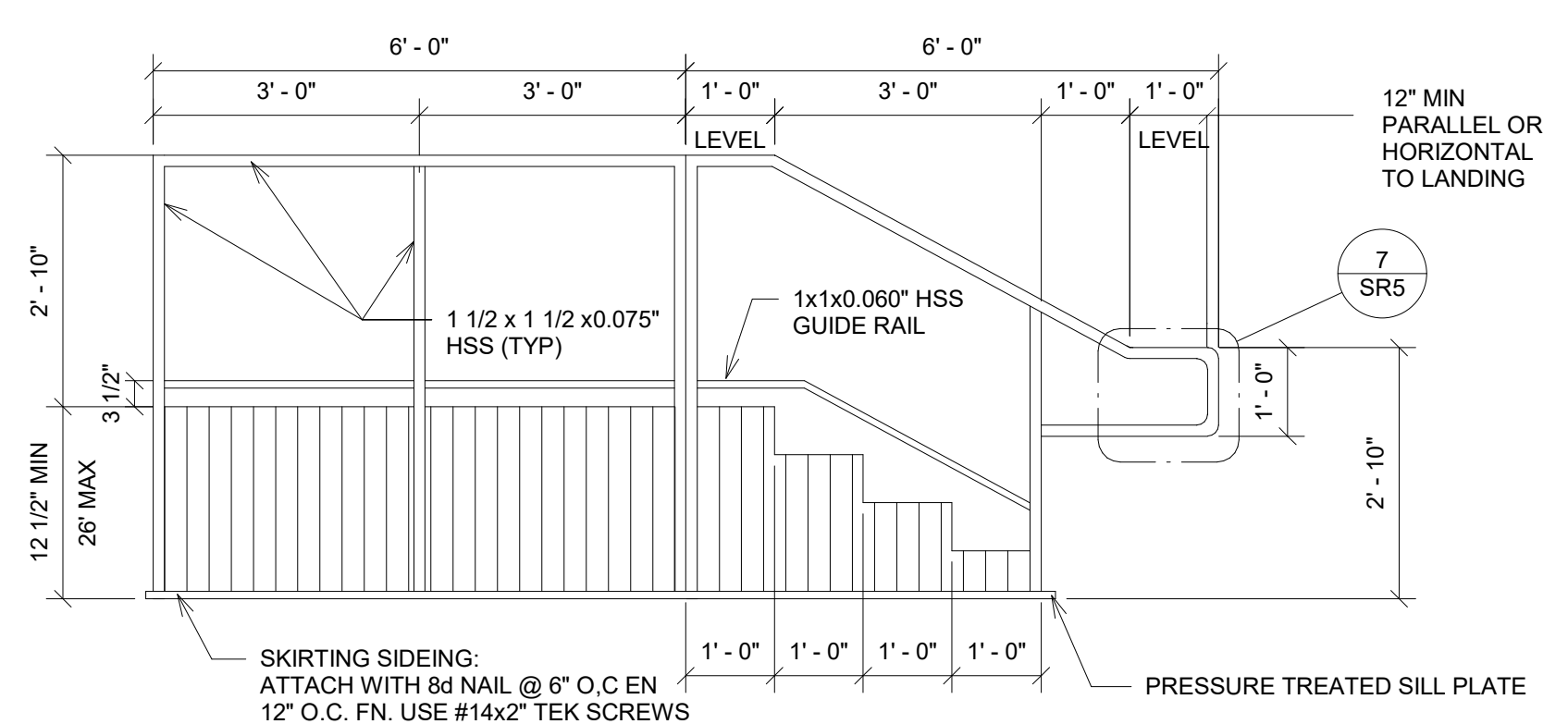
2 1/2" = 1'-0"
 LANDING SECTION



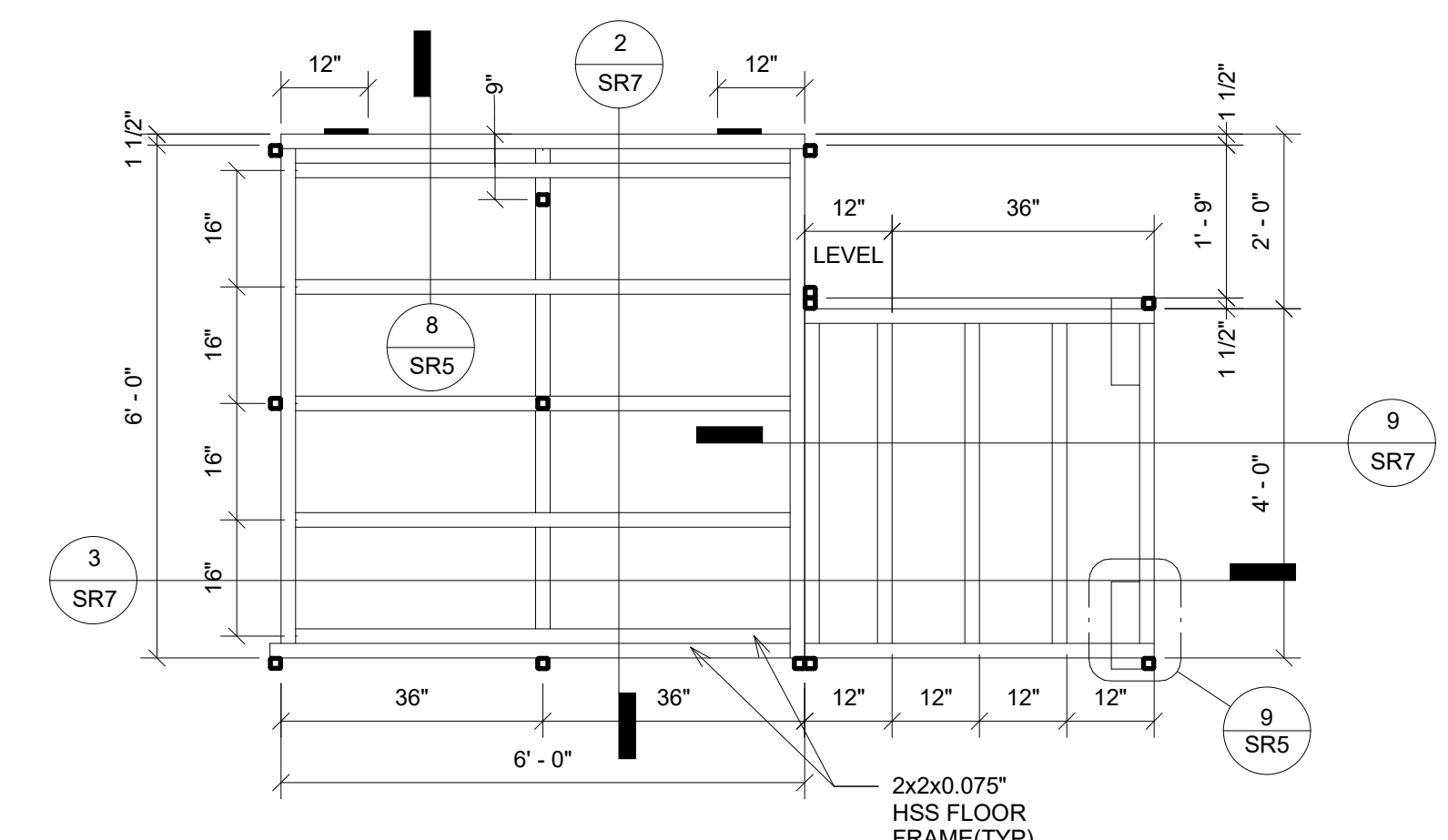
6 1/2" = 1'-0"
 STEPS ELEVATION



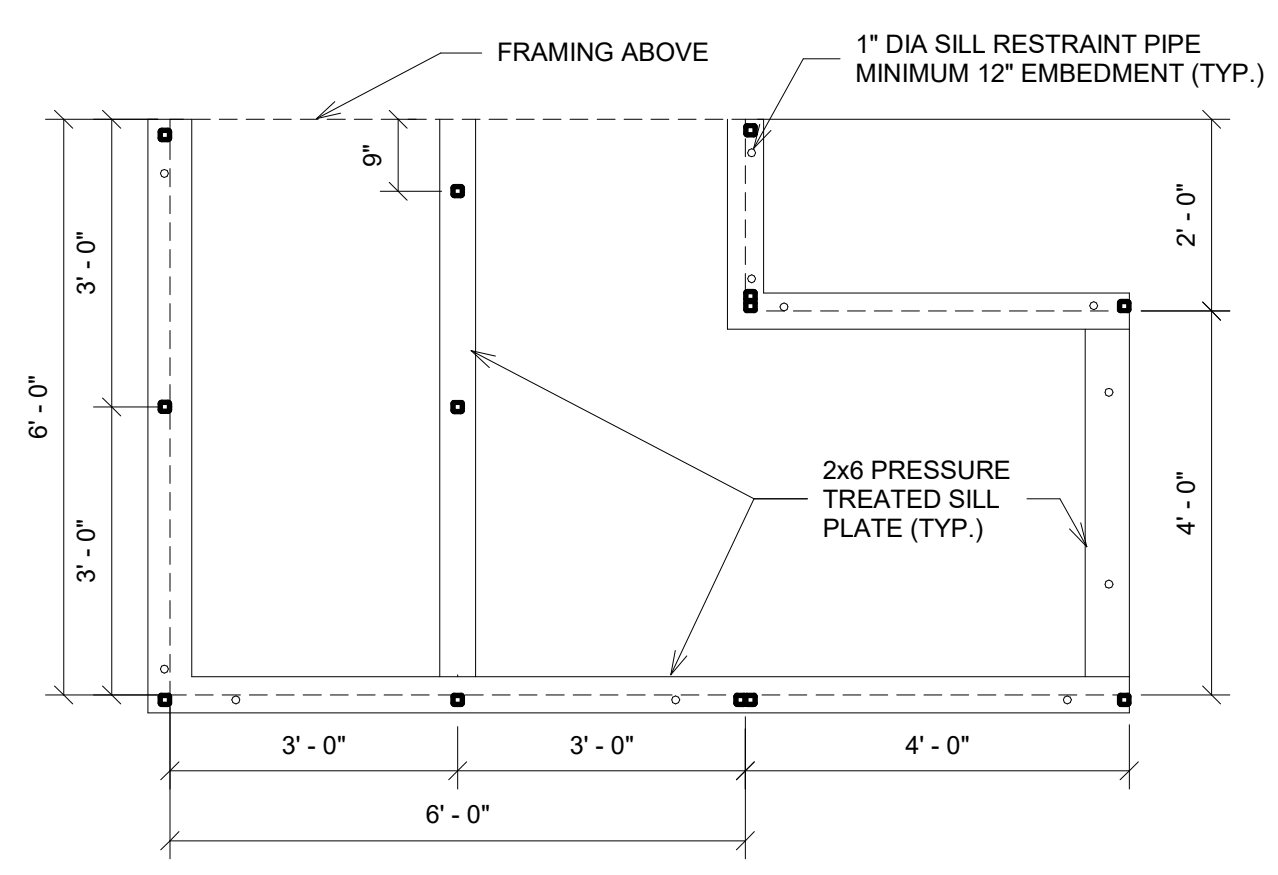
3 1/2" = 1'-0"
 STEP AND LANDING SECTION



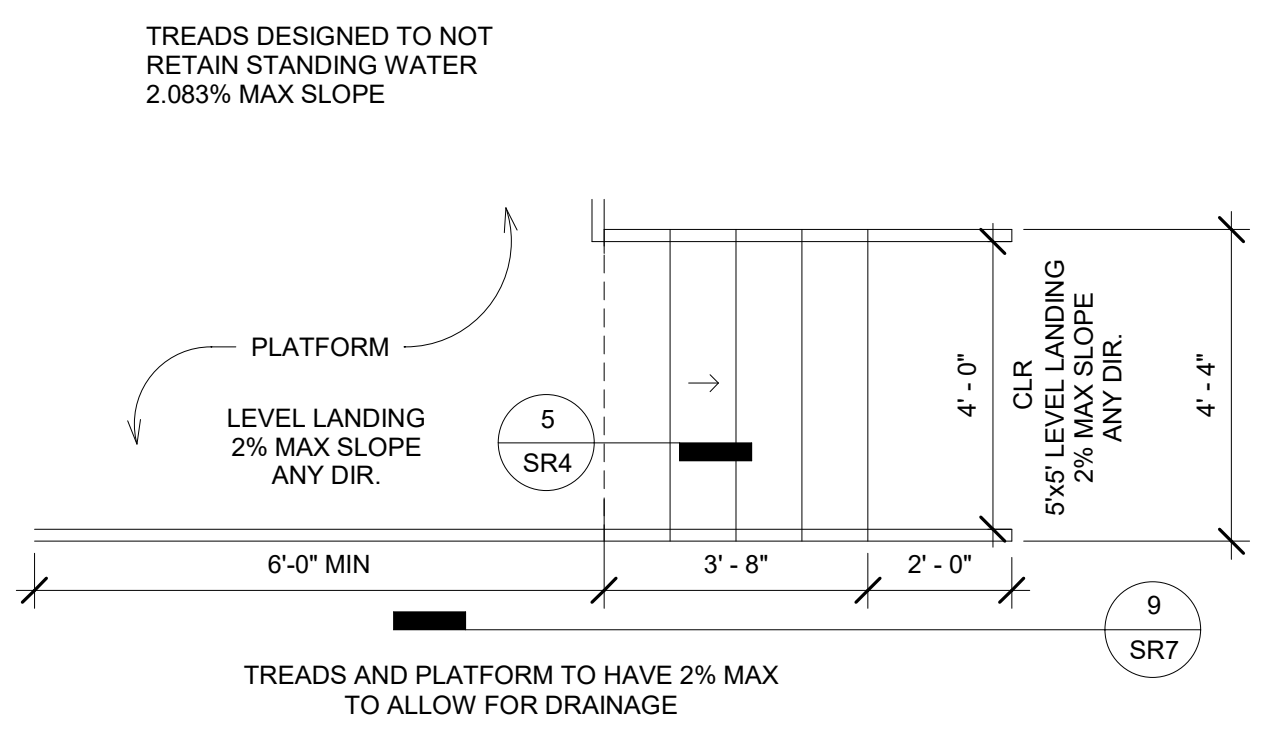
4 1/2" = 1'-0"
 STEPS AND LANDING SECTION



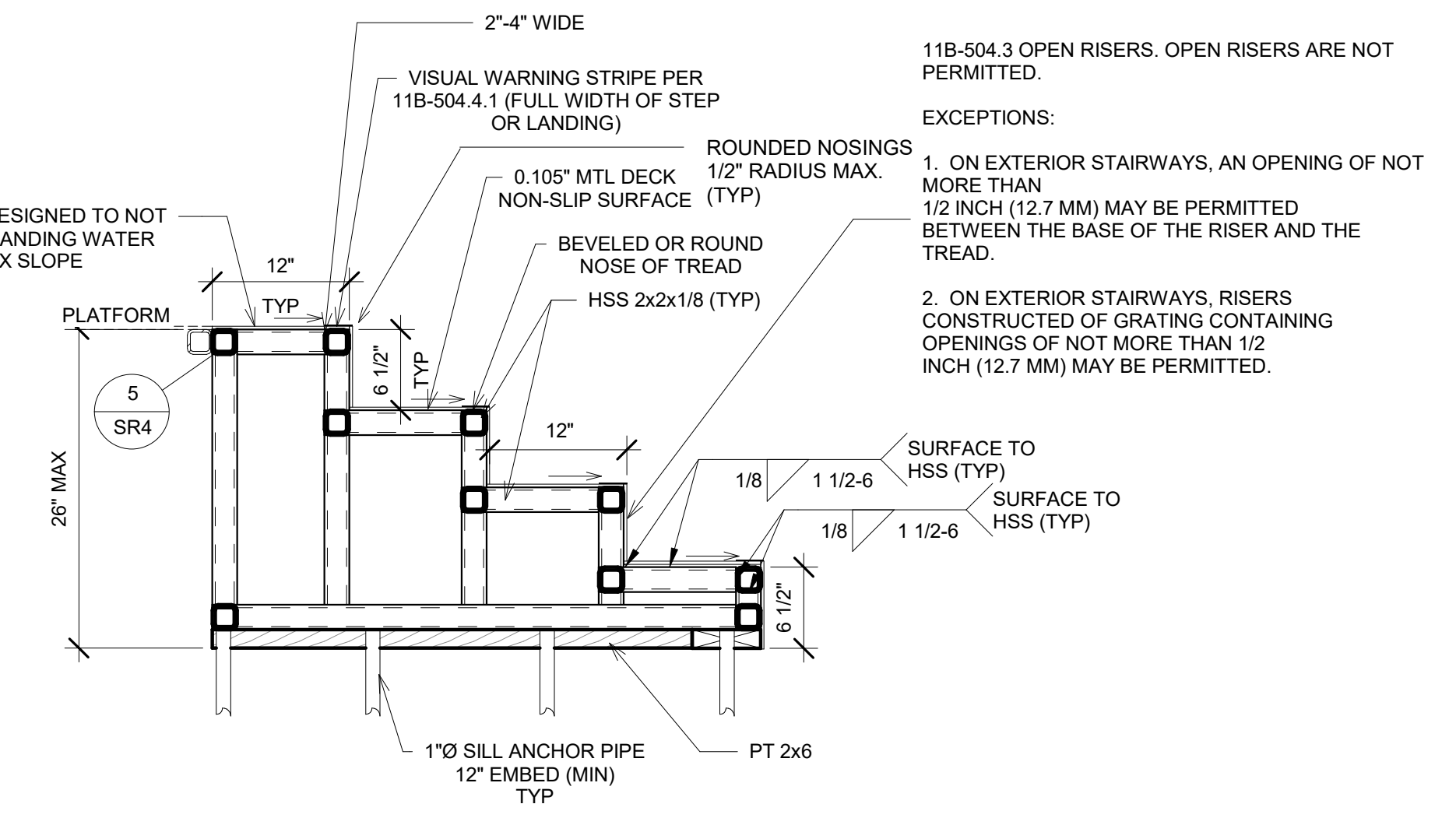
5 1/2" = 1'-0"
 STEPS/LANDING FRAMING PLAN



7 1/2" = 1'-0"
 SILL PLAN



8 3/8" = 1'-0"
 Stair



9 1" = 1'-0"
 Stair Elev

6/15/2021 7:29:30 PM M:\2020\20093 - Class Leasing, 24x40 - 120x40 2022 CBC Updates\REV\TAVARES\0093 - Aries, Ramps and Stairs PC.rvt